

UNIVERSITY MANAGEMENT INFORMATION SYSTEM

FY 1995

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IMPORTANT NOTICE

This report is compiled primarily from information obtained from two internal NASA sources:

1. "CASE Report on Support of Colleges and Universities" (NASA Form 1356).
2. "Individual Procurement Action Report" (NASA Form 507).

Therefore, other sources should be used for completing Forms 507 and 1356.

Information in this publication is reviewed and revised for accuracy. Should any differences exist among publications, the latest edition should take precedence over earlier ones.

NASA's UNIVERSITY PROGRAM

ACTIVE PROJECTS

FISCAL YEAR 1995

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**National Aeronautics and Space Administration
Office of Human Resources and Education
FE/Education Division
Washington, DC 20546-0001**

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FOREWORD

As basic policy, NASA believes that colleges and universities should be encouraged to participate in the nation's space and aeronautics program to the maximum extent practicable. Indeed, universities are considered as partners with government and industry in the nation's aerospace program. NASA's objective is to have them bring their scientific, engineering, and social research competence to bear on aerospace problems and on the broader social, economic, and international implications of NASA's technical and scientific programs. It is expected that, in so doing, universities will strengthen both their research and their educational capabilities to contribute more effectively to the national well-being.

NASA field centers and certain Headquarters program offices provide funds for those activities in universities which contribute to the mission needs of that particular NASA element. Although NASA has no predetermined amount of money to devote to university activities, the effort funded each year is substantial. (See the bar chart on the next page.) This annual report is one means of documenting the NASA-university relationship, frequently denoted, collectively, as NASA's University Program.

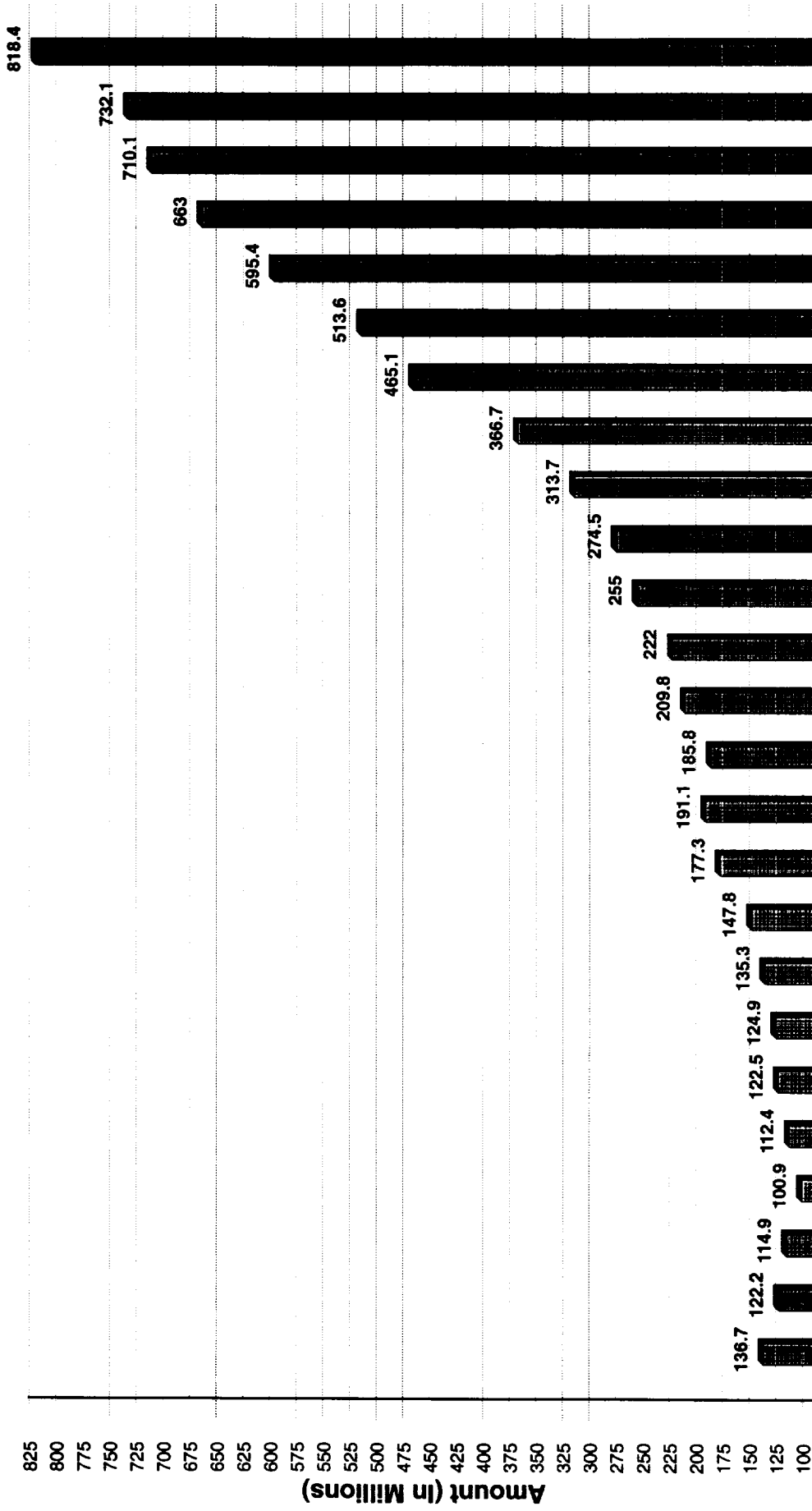
This report is consistent with agency accounting records, as the data are obtained from NASA's Financial and Contractual Status (FACS) System, operated by the Financial Management Division and the Procurement Office. However, in accordance with interagency agreements, the orientation differs from that required for financial or procurement purposes. Any apparent discrepancies between this report and other NASA procurement or financial reports stem from the selection criteria for the data.*

This report was prepared by the, Education Division/FET, Office of Human Resources and Education, using a management information system which was modernized during FY 1993.

* Agreements which meet active criteria definition and have deobligations may result in agreements having negative obligations in the body of this publication.

NASA Obligations to Universities

Fiscal Years 1971-1995



1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995

Fiscal Years

NOTE: Excludes awards to California Institute of Technology for operation of the Jet Propulsion Laboratory.

FY 1971 includes \$15.0M in awards to Draper Lab.

FY 1972 includes \$5.7M in awards to Draper Lab.

FY 1973 includes \$5.2M in awards to Draper Lab.

FY 1974 Draper Lab status changed from "university" to "nonprofit."

**FIFTY EDUCATIONAL INSTITUTIONS
LISTED ACCORDING TO TOTAL OBLIGATIONS
FISCAL YEAR 1995**

INSTITUTION	OBLIGATIONS (THOUSANDS)	PERCENT
	\$818,351	100.00
1 Stanford University	57,985	7.08
2 Massachusetts Institute of Technology	46,667	5.70
3 University of Arizona	36,382	4.44
4 California Institute of Technology	30,777	3.76
5 University of California at Berkeley	24,357	2.97
6 University of Alabama at Huntsville	23,866	2.91
7 University of Maryland at College Park	22,211	2.71
8 New Mexico State University at Las Cruces	20,277	2.47
9 Johns Hopkins University	19,568	2.39
10 University of Colorado at Boulder	18,034	2.20
11 Wheeling Jesuit College	17,990	2.19
12 University of California at San Diego	14,061	1.71
13 University of Michigan at Ann Arbor	13,606	1.66
14 University of Wisconsin at Madison	12,897	1.57
15 University of Washington	12,131	1.48
16 University of Alaska at Fairbanks	11,191	1.36
17 Pennsylvania State University at University Park	10,478	1.28
18 University of Texas at Austin	9,991	1.22
19 University of New Hampshire at Durham	9,733	1.18
20 University of California at Los Angeles	9,387	1.14
21 Georgia Institute of Technology	9,048	1.10
22 University of Hawaii at Manoa	8,474	1.03
23 University of Alabama at Birmingham	8,220	1.00
24 Columbia University	7,430	0.90
25 Harvard University	7,384	0.90
26 Ohio State University	7,089	0.86
27 Delta College	6,825	0.83
28 Oklahoma State University	6,400	0.78
29 University of Virginia	6,345	0.77
30 University of Florida	6,274	0.76
31 University of Utah	6,227	0.76
32 Texas A&M University	6,215	0.75
33 University of Chicago	5,900	0.72
34 Cornell University	5,547	0.67
35 University of Houston	5,366	0.65
36 Old Dominion University	5,352	0.65
37 San Jose State University	5,107	0.62
38 Princeton University	5,071	0.61
39 University of Illinois at Urbana	4,988	0.60
40 Oregon State University	4,907	0.59
41 University of Iowa	4,809	0.58
42 Case Western Reserve	4,710	0.57
43 University of California at Santa Barbara	4,569	0.55
44 Hampton University	4,245	0.51
45 University of California at Irvine	4,077	0.49
46 Washington University	4,030	0.49
47 Virginia Polytechnic Institute	4,012	0.49
48 University of Southern California	3,972	0.48
49 Howard University	3,945	0.48
50 University of New Mexico	3,873	0.47
Other Colleges and Universities **	226,351	27.65

* Excludes awards to California Institute of Technology for operation of the Jet Propulsion Laboratory.

** Includes both foreign and domestic universities and colleges.

**STATE AND U.S. TERRITORIES BY OBLIGATIONS
FISCAL YEAR 1994 (October 1 through October 31, 1995)**

STATE	OBLIGATIONS (WHOLE DOLLARS)	PERCENT
	\$815,739,303	100.00
1 California	169,033,03102	20.72
2 Massachusetts	63,353,313	7.76
3 Maryland	47,256,910	5.79
4 Alabama	41,179,970	5.04
5 Texas	40,948,752	5.01
6 Arizona	40,010,739	4.90
7 New Mexico	26,466,511	3.24
8 New York	25,748,687	3.15
9 Virginia	24,907,608	3.05
10 Michigan	23,859,470	2.92
11 Colorado	23,253,089	2.85
12 Florida	21,756,017	2.66
13 Ohio	21,711,496	2.66
14 Georgia	21,061,338	2.58
15 West Virginia	19,201,597	2.35
16 Pennsylvania	19,001,058	2.32
17 Wisconsin	14,703,007	1.80
18 Illinois	13,181,560	1.61
19 Washington	12,935,257	1.58
20 Alaska	11,192,892	1.37
21 New Hampshire	10,912,177	1.33
22 North Carolina	10,085,897	1.23
23 Utah	10,032,220	1.22
24 District of Columbia	9,509,104	1.16
25 Hawaii	8,752,682	1.07
26 Tennessee	7,775,592	0.95
27 New Jersey	7,628,464	0.93
28 Oklahoma	7,109,734	0.87
29 Iowa	6,496,065	0.79
30 Missouri	5,864,728	0.71
31 Oregon	5,856,143	0.71
32 Louisiana	5,761,192	0.70
33 Indiana	5,304,264	0.65
34 Puerto Rico	3,997,452	0.49
35 Minnesota	3,586,709	0.43
36 Rhode Island	3,456,924	0.42
37 Kansas	2,834,576	0.34
38 South Carolina	2,536,177	0.31
39 Connecticut	2,228,649	0.27
40 Mississippi	2,035,984	0.24
41 Montana	1,997,153	0.24
42 Nebraska	1,996,576	0.24
43 Arkansas	1,587,803	0.19
44 Kentucky	1,468,767	0.18
45 South Dakota	1,397,077	0.17
46 Nevada	1,175,477	0.14
47 Wyoming	975,539	0.11
48 Delaware	717,871	0.08
49 North Dakota	708,333	0.08
50 Idaho	602,702	0.07
51 Maine	294,003	0.03
52 Vermont	290,896	0.03

* Starting in FY1993, Active Actions with deobligations will be reported in this chart.

RESEARCH AND DEVELOPMENT PERCENT CHANGE REPORT 1991-1995 *

FIELDS OF SCIENCE	FY 1995 (\$1000)	%CHANGE FY 93-94	FY 1994 (\$1000)	% CHANGE FY 93-94	FY 1993 (\$1000)	% CHANGE FY 92-93	FY 1992 (\$1000)	% CHANGE FY 91-92	FY 1991 (\$1000)
ALL FIELDS TOTAL	694,690	8.30%	641,462	6.19%	604,042	3.03%	586,299	8.85%	533,750
Physical Sciences, Total	277,134	13.40%	244,391	0.43%	243,353	5.78%	230,052	20.48%	190,945
Astronomy	131,800	18.74%	110,996	5.59%	105,123	-6.87%	112,878	34.01%	84,230
Chemistry	5,830	7.43%	5,427	-15.52%	6,424	22.64%	5,238	-7.91%	5,688
Physics	102,176	-0.37%	102,551	-4.72%	107,634	16.37%	92,490	11.64%	82,624
Physical Sciences, NEC **	37,329	46.87%	25,417	5.15%	24,172	24.30%	19,446	5.67%	18,403
Mathematical & Computer Sciences, Total	30,176	34.30%	22,469	-14.93%	26,412	23.26%	21,426	-16.20%	25,569
Mathematics	917	33.09%	689	0.88%	683	-21.76%	873	40.13%	623
Computer Sciences	22,796	35.46%	16,828	-13.31%	19,411	6.58%	18,213	-17.47%	22,069
Math. & Computer Sciences, NEC	6,462	30.49%	4,952	-21.62%	6,318	169.77%	2,342	-18.60%	2,877
Environmental Sciences, Total	156,133	16.36%	134,183	0.59%	133,399	-3.54%	138,290	10.29%	125,383
Atmospheric Sciences	61,826	8.44%	57,012	4.06%	54,786	-14.29%	63,918	22.13%	52,334
Geological Sciences	21,101	-6.23%	22,502	-8.32%	24,544	6.99%	22,941	3.50%	22,166
Oceanography	13,312	-1.71%	13,544	1.77%	13,308	-22.82%	17,242	91.09%	9,023
Environmental Sciences, NEC	59,894	45.64%	41,125	0.89%	40,761	19.22%	34,189	-18.33%	41,860
Engineering Total	138,095	-12.74%	158,263	22.01%	127,621	-0.11%	127,757	2.00%	130,160
Aeronautical	60,969	-22.87%	79,043	-11.19%	46,172	16.85%	39,513	2.55%	42,738
Astronautical	14,141	-12.4%	13,968	-5.39%	13,254	-37.6%	21,244	7.28%	20,770
Chemical	2,970	7.69%	2,758	0.0%	2,545	-31.2%	1,777	20.4%	2,233
Civil	1,235	31.1%	1,253	0.0%	180	11%	162	0.0%	360
Electrical	7,579	-15.85%	8,985	0.0%	8,633	15.0%	7,506	0.0%	10,051
Mechanical	10,717	-9.80%	11,725	0.0%	11,704	11.4%	10,500	0.0%	11,573
Metallurgy and Materials	19,737	0.0%	16,728	0.0%	20,804	6.0%	19,448	0.0%	20,365
Engineering, NEC	20,747	-22.84%	23,803	1.5%	24,329	11.87%	27,607	0.0%	22,270
Life Sciences, Total	58,600	29.69%	41,951	-0.7%	43,731	3.09%	42,720	0.0%	40,766
Biological, Total	31,608	-22.14%	25,879	-1.4%	26,718	-3.30%	27,629	0.0%	27,672
Biol. Sciences (Excluding Envir. Bio.)	28,501	-28.22%	22,228	-0.52%	24,840	1.37%	24,505	-3.02%	25,267
Environmental Biology	1,833	38.34%	1,325	-2.50%	1,359	-42.37%	2,358	23.26%	1,913
Agricultural Sciences	1,274	45.23%	2,326	1.17%	519	32.25%	766	55.69%	492
Medical Sciences	9,701	29.61%	7,485	21.58%	7,844	31.13%	5,982	59.79%	5,645
Life Sciences, NEC	17,291	101.36%	8,587	-5.35%	9,169	4.09%	8,809	24.28%	7,088
Psychology Total	4,149	-18.82%	5,111	18.09%	4,328	4.97%	4,123	62.13%	2,548
Biological Aspects	85	16.44%	73	18.74%	62	55.00%	40	-43.66%	71
Social Aspects	265	-33.25%	397	31.947%	493	-8.70%	540	-10.45%	603
Psychological Sciences, NEC	3,799	-18.14%	4,641	23.01%	3,773	6.49%	3,543	89.57%	1,869
Social Sciences, Total	413	153.37%	163	-57.77%	386	124.42%	172	42.4%	155
Economics	0	0.00%	0	-100.00%	55	-58.33%	132	76.00%	75
History	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0
Political Science	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0
Social Sciences, NEC	413	153.37%	163	-50.76%	331	727.50%	40	-55.56%	90
Other Sciences, NEC	29,990	-14.15%	34,931	40.78%	24,812	12.49%	22,057	20.01%	18,380

Table does not include awards to foreign universities or awards to California Institute of Technology for operation of the Jet Propulsion Laboratories.

* This report does not include other activities related to science and engineering, R&D plant and equipment, nor training grants. ** NEC means Not Elsewhere Classified.

* This chart does not include agreements with Fiscal Year obligations less than zero.

Prior year's data are reviewed for consistency, and when necessary, are revised. Prior year's data should be restricted to this chart.

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Connecticut	136	New York	322
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District of Columbia	140	North Dakota	359
Florida	146	Ohio	360
Georgia	162	Oklahoma	387
Hawaii	173	Oregon	389
Idaho	180	Pennsylvania	393
Illinois	181	Rhode Island	411
Indiana	197	South Carolina	415
Iowa	205	South Dakota	418
Kansas	211	Tennessee	420
Kentucky	215	Texas	426
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II. NASA Installations

NASA installations are included in the citation as abbreviations (item 9). The following listing of installations will be useful to those desiring further information on specific projects.

Mr. Gary Gans Code FE NASA Headquarters Washington, DC 20546-0001 (202) 358-1535	HQ	Mr. Roger A. Hathaway Mail Stop 400 Langley Research Center Hampton, VA 23681-0001 (804) 864-4000 E-mail: r.a.hathaway@larc.nasa.gov	LARC
Ms. Meredith Moore Mail Stop 241-3 Ames Research Center Moffett Field, CA 94035 (415) 604-5624 E-mail: meredith.moore@qmgate.arc.nasa.gov	ARC	Dr. Francis J. Montegani Mail Stop CP-1 Lewis Research Center 21000 Brookpark Road Cleveland, OH 44135 (216) 433-2956 E-mail: fjm@lerc.nasa.gov	LERC
Dr. Gerald Soffen Code 160 Goddard Space Flight Center Greenbelt, MD 20771 (301) 286-9690 E-mail: gsoffen@ccmail.gsfc.nasa.gov	GSFC	Dr. Frank Six Mail Stop DS01 George C. Marshall Space Flight Center Huntsville, AL 35812 (205) 544-0997 E-mail: fsix@msfc.nasa.gov	MSFC
Dr. Donn Sickorez Mail Code AP-2 Lyndon B. Johnson Space Center Houston, TX 77058 (713) 483-4724 E-mail: donn.g.sickorez1@jsc.nasa.gov	JSC	Dr. Armond Joyce Science and Technology Branch Mail Stop AA00 John C. Stennis Space Center Stennis Space Center, MS 39529 (601) 688-3830 E-mail: ajoyce@wpogate.ssc.nasa.gov	SSC
Mr. Greg Buckingham Mail Stop HM-CIC Kennedy Space Center Kennedy Space Center, FL 32899 (407) 867-7952 E-mail: gregg.buckingham-1@kmail.ksc.nasa.gov	KSC	D. Kajal K. Gupta Hugh L. Dryden Flight Research Center P.O. Box 273 Edwards, CA 93523 (805) 258-3710 E-mail: kgupta@stars.dfrc.nasa.gov	DFRC

A full listing of the suffix letters and information on NASA's organizational structure may be found in the NASA Headquarters Telephone Directory. (The Directory is for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.)

III. CASE Fields of Science and Engineering

The National Science Foundation (NSF) operates a government-wide system (CASE) for collecting and analyzing data on support to colleges and universities. Participating agencies report annually to NSF which in turn issues *Support to Universities, Colleges and Selected Nonprofit Institutions*. The CASE fields, used in the extensive tabulations contained in that document, form the only consistent classification system for government sponsored research. The fields are listed in full in the Appendix.

IV. Cross-Index

The cross-indexed Appendix provides rapid access to all projects in a particular area of endeavor, as defined by the CASE fields. This listing is also easily used to determine the institutions and principal investigators conducting NASA projects in a field. Entries are related to the citations (descriptions) by the accession number (item 3). The accession number has meaning only in this report; it is in no way permanently associated with nor does it uniquely identify a specific grant/contract/cooperative agreement anywhere except in the present report. Accession numbers are assigned sequentially to the citations, beginning with 1000. Thus, when an entry of interest is identified in the Appendix, the associated accession number allows ready location of the full description in the body of the report.

NASA'S UNIVERSITY PROGRAM

ALABAMA

NAG 3-1408 **Alabama A&M University** **1000**
 INTEGRATED OPTICS IN THIN FILMS OF POLYMERS AND ORGANIC MATERIALS

<i>Period</i>	<i>Obligations</i>	
01/13/1993-04/09/1996	FY95: \$140,000	TOTAL: \$655,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P VENKETESWARLU	LERC/G ADAMOUSKY	13-Physics
H ABDELDAYEM	LERC/G M BEHEIM	

NAG 3-1429 **Alabama A&M University** **1001**
 DIRECT OBSERVATION OF CRYSTAL GROWTH FROM SOLUTION USING OPTICAL INVEST OS A GROWING CRYSTAL FACE

<i>Period</i>	<i>Obligations</i>	
01/07/1993-12/23/1995	FY95: \$150,282	TOTAL: \$527,112
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R B LAL	LERC/T GLASGOW	47-Materials Engr

NAG 8-97 **Alabama A&M University** **1002**
 GRANT ENTITLED 'MECHANISM OF CHROMOSOMAL ABERATION PRODUCTION IN REPAIR DEFICIENT HUMAN CELLS.'

<i>Period</i>	<i>Obligations</i>	
01/28/1988-06/24/1994	FY95:	TOTAL: \$277,492
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R KALE	MSFC/J L RANDALL	59-Life Sci, NEC
	MSFC/R J WALKER	

NAG 8-107 **Alabama A&M University** **1003**
 NONLINEAR PROPERTIES OF ORGANIC MATERIALS IN LEAD AND TIN FLUOROPHOSPHATE GLASS AND THIN FILMS POLYMER

<i>Period</i>	<i>Obligations</i>	
08/22/1988-12/07/1993	FY95:	TOTAL: \$746,794
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M C GEORGE	MSFC/J L RANDALL	13-Physics
	MSFC/R J WALKER	

NAG 8-125 **Alabama A&M University** **1004**
 GROWTH CHARACTERISTICS OF ORGANIC CRYSTALS FOR NON-LINEAR OPTICAL APPLICATIONS

<i>Period</i>	<i>Obligations</i>	
04/24/1989-03/22/1996	FY95:	TOTAL: \$435,282
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M D AGGARWAL	MSFC/J L RANDALL	13-Physics
	MSFC/R J WALKER	

NAG 8-173 **Alabama A&M University** **1005**
 ELLIPSOMETRIC MEASUREMENT OF LIQUID FILM THICKNESS

<i>Period</i>	<i>Obligations</i>	
09/21/1990-12/11/1993	FY95:	TOTAL: \$145,544
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K J CHANG	MSFC/G FICHTL	13-Physics

NAG 8-198 **Alabama A&M University** **1006**
 BIOLOGICAL PATTERNS AS NOVEL INDICATORS FOR PHARMACOLOGICAL STUDIES

<i>Period</i>	<i>Obligations</i>	
08/21/1991-09/12/1995	FY95:	TOTAL: \$72,659
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J JOHNSON	MSFC/H MATSOS	51-Biological Sci
	MSFC/E M STRAUSS	

NAG 8-200 **Alabama A&M University** **1007**
 REGULARIZED TIME SERIES DISCRIMINANT ANALYSIS

<i>Period</i>	<i>Obligations</i>	
08/20/1991-02/19/1995	FY95:	TOTAL: \$141,765
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E C TEMPLE	MSFC/G H FICHTL	29-Math/Cmputer, NEC
	MSFC/R J WALKER	

NAG 8-201 **Alabama A&M University** **1008**
 NUMERICAL INVESTIGATIONS IN THE BACKFLOW REGION OF A VACUUM PLUME

<i>Period</i>	<i>Obligations</i>	
08/30/1991-10/31/1995	FY95: \$85,684	TOTAL: \$310,824
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
LIAU	MSFC/G FICHTL	31-Atmos Sci

NAG 8-203 **Alabama A&M University** **1009**
 EFFECT OF HYDROGEN ON Ni BASED SUPERALLOYS

<i>Period</i>	<i>Obligations</i>	
12/16/1991-09/30/1995	FY95:	TOTAL: \$187,716
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R B LAL	MSFC/G H FICHTL	13-Physics
M D AGGARWAL		

NAG 8-251 **Alabama A&M University** **1010**
 CRYSTAL RESEARCH

<i>Period</i>	<i>Obligations</i>	
12/28/1992-12/27/1993	FY95:	TOTAL: \$134,797
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R B LAL	MSFC/G A FICHTL	13-Physics
A K BATRA		

NAG 8-1039 **Alabama A&M University** **1011**
 ORGANIC FIBER OPTICS SENSORS

<i>Period</i>	<i>Obligations</i>	
05/02/1994-05/01/1996	FY95: \$100,440	TOTAL: \$231,932
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C LOWE	MSFC/R WALKER	54-Env Biology

NAG 8-1109 **Alabama A&M University** **1012**
 INVESTIGATION OF HYDROLOGIC CYCLE WITH EMPHASIS ON SOIL MOISTURE REMOTE SENSING

<i>Period</i>	<i>Obligations</i>	
10/26/1994-10/25/1995	FY95: \$99,993	TOTAL: \$99,993
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T COLEMAN	MSFC/W LOVE	54-Env Biology

NAG 8-1125 **Alabama A&M University** **1013**
 DEVELOPMENT OF UPCONVERSION MATERIALS, LASERS, AND OPTICAL SENSORS

<i>Period</i>	<i>Obligations</i>	
02/27/1995-02/26/1996	FY95: \$75,424	TOTAL: \$75,424
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B R REDDY	MSFC/W J LOVE	13-Physics

NAG 8-1129 **Alabama A&M University** **1014**
 CRYSTALS STUDY

<i>Period</i>	<i>Obligations</i>	
03/10/1995-03/09/1996	FY95: \$85,289	TOTAL: \$85,289
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R B LAL	MSFC/B PENN	13-Physics
	MSFC/W LOVE	

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAG 8-1192 Alabama A&M University 1015
 A COLLABORATIVE PROGRAM FOR ENHANCING STUDENTS WITH
 DISABILITIES
Period Obligations
 09/13/1995-08/31/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 D CRAWFORD MSFC/S MILLER 99-Multi-Discip

NAG 1-1329 Auburn University 1023
 DUPLICATION AND ANALYSIS OF MICROMETEOROID DAMAGE ON
 LDEF
Period Obligations
 08/12/1991-06/30/1995 FY95: TOTAL: \$282,715
Prin. Invest. NASA Tech. Officer CASE Category
 M F ROSE LARC/J L JONES 39-Env Sci, NEC
 LARC/W H KINARD

NAG 9-246 Alabama A&M University 1016
 GENETIC EFFECTS HEAVY IONS IN DROSOPHILA
Period Obligations
 07/01/1987-09/01/1994 FY95: TOTAL: \$305,265
Prin. Invest. NASA Tech. Officer CASE Category
 P KALE JSC/D S NACHTWEY 51-Biological Sci

NAG 1-1467 Auburn University 1024
 COMPUTATIONAL AEROACOUSTICS ANALYSIS OF DISSIPATIVE
 DUCTS NLPN 92-921
Period Obligations
 03/02/1993-11/01/1994 FY95: TOTAL: \$54,900
Prin. Invest. NASA Tech. Officer CASE Category
 M J CROCKER LARC/W R WATSON 41-Aero Engr
 LARC/F FARASSAT

NAG 9-758 Alabama A&M University 1017
 ENUMERATION, DETECTION OF HETEROTROPHIC BACTERIA IN
 POTABLE WTERS FOR THE SPACE STATION
Period Obligations
 09/16/1994-08/31/1997 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 M G TADROS JSC/R L SAUER 51-Biological Sci

NAG 3-1154 Auburn University 1025
 HIGH PERFORMANCE ELECTROCHEMICAL SYSTEMS UTILIZING
 COMPOSITE ELECTRODE STRUCTURES
Period Obligations
 03/22/1990-05/25/1996 FY95: \$93,000 TOTAL: \$519,250
Prin. Invest. NASA Tech. Officer CASE Category
 B J TATARCHUK LERC/D L BRITTON 43-Chem Engr
 LERC/M A REID

NAS 8-36634 Alabama A&M University 1018
 SOLUTION CRYSTAL GROWTH IN LOW-GRAVITY
Period Obligations
 09/25/1996-05/31/1995 FY95: \$7,101 TOTAL: \$1,662,076
Prin. Invest. NASA Tech. Officer CASE Category
 R B LAL MSFC/R C RUFF 51-Biological Sci

NAG 3-1507 Auburn University 1026
 INFLUENCE OF BACKUP BEARINGS AND SUPPORT STRUCTURE D
 YNAMICS ON THE BEHAVIOR OF ROTORS WITH ACTIVE SUP
Period Obligations
 06/29/1993-12/17/1995 FY95: TOTAL: \$83,273
Prin. Invest. NASA Tech. Officer CASE Category
 G T FLOWERS LERC/C LAWRENCE 41-Aero Engr

NCC 4-14 Alabama A&M University 1019
 SIGNAL PROCESSING ALGORITHM SENSOR
Period Obligations
 01/20/1995-10/20/1995 FY95: \$47,976 TOTAL: \$47,976
Prin. Invest. NASA Tech. Officer CASE Category
 S VON LAVEN DFRC/R K BOGUE 29-Math/Cmputer,NEC

NAG 3-1767 Auburn University 1027
 REUSABLE, LOW-COST ELECTROMAGNETIC LAUNCH SYSTEM
 STUDY
Period Obligations
 07/05/1995-10/04/1995 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 S A MERRYMAN LERC/A J JUHASZ 49-Engr, NEC
 M F ROSE

NCC 8-27 Alabama A&M University 1020
 CHARACTERIZATION OF ORGANIC SPHERICAL POLYMER-DYE
 LASER MATERIALS AND THEIR LASER ACTION
Period Obligations
 09/07/1993-03/06/1995 FY95: TOTAL: \$54,407
Prin. Invest. NASA Tech. Officer CASE Category
 P VENKATESWARLU MSFC/G H FICHTL 13-Physics
 MSFC/R J WALKER

NAG 8-923 Auburn University 1028
 ANALYSIS OF ADVANCED SRM IGNITION PHENOMENA
Period Obligations
 08/20/1992-03/14/1995 FY95: TOTAL: \$82,194
Prin. Invest. NASA Tech. Officer CASE Category
 W A FOSTER MSFC/J E HENGEL 49-Engr, NEC
 R M JENKINS MSFC/C L MARTIN

NCCW 84 Alabama A&M University 1021
 CENTER FOR HYDROLOGY, SOIL CLIMATOLOGY AND REMOTE
 SENSING
Period Obligations
 08/09/1995-06/30/2000 FY95: \$1,362,050 TOTAL: \$1,362,050
Prin. Invest. NASA Tech. Officer CASE Category
 T L COLEMAN HQ/B L WHITE 39-Env Sci, NEC

NAG 8-977 Auburn University 1029
 NUMERICAL INVESTIGATION OF THERMAL CREEP AND THERMAL
 STRESS EFFECTS IN MICROGRAVITY PHYSICAL VAPOR
Period Obligations
 07/16/1993-01/31/1996 FY95: TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
 D W MACKOWSKI MSFC/B G PENN 46-Mech Engr
 MSFC/D O FRAZIER

NGT 8-52811 Alabama A&M University 1022
 RESEARCH PROGRAM
Period Obligations
 09/25/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 P B LAI MSFC/D FRAZIER 13-Physics

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAG 8-1017 Auburn University 1030
SUMMER FACULTY FELLOWSHIP PROGRAM
Period Obligations
11/16/1993-11/15/1994 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
R J HARTFIELD MSFC/R H ESKRIDGE 41-Aero Engr
MSFC/C C DOBSON

NCC 8-67 Auburn University 1038
COLD-FLOW STUDY OF LOW FREQUENCY PRESSURE INSTABILITY
IN HYBRID ROCKET MOTORS
Period Obligations
01/10/1995-01/09/1996 FY95: \$23,000 TOTAL: \$23,000
Prin. Invest. NASA Tech. Officer CASE Category
R M JENKINS MSFC/J VARGAS 46-Mech Engr

NAG 8-1019 Auburn University 1031
MINORITY FOCUS PROGRAM
Period Obligations
01/25/1994-01/24/1996 FY95: \$73,561 TOTAL: \$147,120
Prin. Invest. NASA Tech. Officer CASE Category
L MOORE MSFC/J HALE 22-Computer Science
MSFC/F SIX

NCC 8-69 Auburn University 1039
AUBURN INDUSTRIAL EXTENSION SERVICE
Period Obligations
01/26/1995-01/31/1996 FY95: \$125,026 TOTAL: \$125,026
Prin. Invest. NASA Tech. Officer CASE Category
H BURDG MSFC/K FERNANDEZ 99-Multi-Discip
MSFC/B HAYES

NAG 8-1040 Auburn University 1032
OCTAVE POST PROCESSOR FOR COMPUTER AIDED CONTROL
SYSTEM DESIGN
Period Obligations
03/25/1994-03/24/1996 FY95: \$39,972 TOTAL: \$77,155
Prin. Invest. NASA Tech. Officer CASE Category
A S HODEL MSFC/M E JACKSON 22-Computer Science
MSFC/S G RYAN

NCC 9-27 Auburn University 1040
EVALUATION OF HYPERVELOCITY IMPACT CAPTURE MEDIA AT
VELOCITIES ON 10KM/S
Period Obligations
06/21/1994-03/20/1996 FY95: TOTAL: \$22,740
Prin. Invest. NASA Tech. Officer CASE Category
M F ROSE JSC/M J CINTALA 13-Physics

NAG 8-1058 Auburn University 1033
DEVELOPING CHEMICAL DOUBLE LAYER TECHNOLOGY FOR
ELECTRICAL ACTUATION APPLICATIONS
Period Obligations
06/09/1994-06/08/1996 FY95: \$85,000 TOTAL: \$184,997
Prin. Invest. NASA Tech. Officer CASE Category
S A MERRYMAN MSFC/D K HALL 45-Elec Engr
MSFC/S L LUNA

NGT 00-050-402 Auburn University 1041
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/28/1989-03/15/1994 FY95: TOTAL: \$68,083
Prin. Invest. NASA Tech. Officer CASE Category
M J CROCKER HQ/F C OWENS 46-Mech Engr

NAGW 1192 Auburn University 1034
CENTER FOR COMMERCIAL DEVELOPMENT OF SPACE
Period Obligations
11/16/1987-10/31/1995 FY95: \$2,446,140 TOTAL: \$17,590,113
Prin. Invest. NASA Tech. Officer CASE Category
R ASKEW HQ/W A ORAN 42-Astro Engr
HQ/R P WHITTEN

NGT 00-050-974 Auburn University 1042
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/04/1992-08/31/1995 FY95: \$11,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
S RAO LARC/E PRIOR 45-Elec Engr

NAGW 4005 Auburn University 1035
ION HOLES AND WEAK DOUBLE LAYERS IN A MAGNETIZED
PLASMA
Period Obligations
05/11/1994-05/31/1997 FY95: \$52,500 TOTAL: \$102,500
Prin. Invest. NASA Tech. Officer CASE Category
S F KNOWLTON HQ/E C WHIPPLE 13-Physics
HQ/J D BOHLIN

NGT 00-051-043 Auburn University 1043
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/23/1993-09/14/1995 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
B Z JANG MSFC/F SIX 47-Materials Engr

NAS 5-30759 Auburn University 1036
GAMMA-RAY IMAGING DEVICE ON A BALLON
Period Obligations
02/22/1990-09/30/1993 FY95: TOTAL: \$318,304
Prin. Invest. NASA Tech. Officer CASE Category
L GREENE GSFC/C CRANNELL 19-Phys Sci, NEC

NGT 00-051-046 Auburn University 1044
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/12/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
J D PEREZ MSFC/F SIX 13-Physics

NAS 8-39131 Auburn University 1037
ESSENTIAL ENGINEERING SERVICES RESEARCH AND DEVELOPM
CAPABILITY
Period Obligations
04/26/1991-04/02/1996 FY95: \$190,532 TOTAL: \$1,418,647
Prin. Invest. NASA Tech. Officer CASE Category
J OWEN MSFC/L J SMITH 99-Multi-Discip
MSFC/D HIPP

NGT 00-051-149 Auburn University 1045
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/19/1993-08/31/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
C MCCREARY HQ/D HOLLAND 22-Computer Science

NGT 00-051-246 Auburn University 1046
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
S M RAO LARC/L EVANS 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NGT 00-070-312 Auburn University 1047
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 05/18/1993-06/15/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 G T FLOWERS HQ/D K RUSSEL 46-Mech Engr

NAGW 3969 Selma University 1055
 NAGW-3969/B/SELMA UNIV/36 MONTHS/FEASIBILITY OF
 DEGRADATION OF CHLORINATED SOLVENTS
Period Obligations
 05/14/1994-05/31/1994 FY95: TOTAL: \$204,900
Prin. Invest. NASA Tech. Officer CASE Category
 K D CHAPATWALA JPL/R M TRUNZO 39-Env Sci, NEC

NGT 00-070-384 Auburn University 1048
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/25/1994-06/30/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 S C SINHA HQ/D K RUSSELL 46-Mech Engr

NAGW 4486 Stillman College 1056
 STILLMAN COLLEGE'S PRECOLLEGE AWARDS FOR EXCELL- ENCE
 IN MATH, SCIENCE, ENGINEER, AND TECH.
Period Obligations
 05/04/1995-04/30/1998 FY95: \$98,767 TOTAL: \$98,767
Prin. Invest. NASA Tech. Officer CASE Category
 J WASHINGTON HQ/B L WHITE 99-Multi-Discip

NGT 00-070-398 Auburn University 1049
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 09/29/1994-08/07/1997 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J R HANSEN HQ/D K RUSSELL 73-History

NAGW 4089 Trenholm State Technical College 1057
 SCIENCE ENRICHMENT PROGRAM
Period Obligations
 07/28/1994-04/30/1996 FY95: \$174,584 TOTAL: \$352,245
Prin. Invest. NASA Tech. Officer CASE Category
 S C KAUSHNIK HQ/P J SAKIMOTO 99-Multi-Discip

NGT 1-52120 Auburn University 1050
 GRADUATE STUDENT RESEARCHER PROGRAM (GSRP) URMANDD
 FOCUS
Period Obligations
 06/29/1995-07/01/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 G T FLOWERS LARC/R G KVATERNIK 41-Aero Engr
 M A LAWEN

NAG 8-1204 Troy State University 1058
 JOVE
Period Obligations
 09/22/1995-08/31/1998 FY95: \$31,000 TOTAL: \$31,000
Prin. Invest. NASA Tech. Officer CASE Category
 D J BATEMAN MSFC/D SIX 39-Env Sci, NEC
 D

NAG 8-1115 Miles College 1051
 JOVE
Period Obligations
 01/09/1995-05/31/1996 FY95: \$42,000 TOTAL: \$42,000
Prin. Invest. NASA Tech. Officer CASE Category
 S K BASHAR MSFC/F SIX 59-Life Sci, NEC

NAG 1-1549 Tuskegee University 1059
 INVESTIGATION OF TECHNIQUES FOR SPECTRAL ANALYSIS AND
 ESTIMATION OF TURBULENCE SCALES FROM RANDOMLY
Period Obligations
 11/04/1993-11/03/1995 FY95: TOTAL: \$110,000
Prin. Invest. NASA Tech. Officer CASE Category
 D SREE LARC/S O KIELGARD 41-Aero Engr

NAGW 4323 Miles College 1052
 MILES COLLEGE LEARNING ABOUT PLANTS PROJECT (MCLAA P)
Period Obligations
 02/24/1995-05/31/1996 FY95: \$89,938 TOTAL: \$89,938
Prin. Invest. NASA Tech. Officer CASE Category
 C JONES HQ/M A JONES 51-Biological Sci

NAG 2-4006 Tuskegee University 1060
 A LOW COST SIMULATION SYSTEM TO DEMONSTRATE PILOT
 INDUCED OSCILLATION PHENOMENA
Period Obligations
 05/12/1994-08/31/1995 FY95: TOTAL: \$59,951
Prin. Invest. NASA Tech. Officer CASE Category
 S F ALI DFRC/L SCHILLING 41-Aero Engr
 DFRC/M EVANS

NAG 8-997 Oakwood College 1053
 JOVE
Period Obligations
 02/03/1994-05/31/1995 FY95: TOTAL: \$41,447
Prin. Invest. NASA Tech. Officer CASE Category
 A PAUL MSFC/F SIX 54-Env Biology

NAG 3-1388 Tuskegee University 1061
 SPUTTERING EROSION ON THE ION THRUSTER
Period Obligations
 12/04/1992-11/30/1995 FY95: \$99,453 TOTAL: \$358,819
Prin. Invest. NASA Tech. Officer CASE Category
 P K RAY LERC/V K RAWLIN 13-Physics

NAS 8-40194 Oakwood College 1054
 FREETAPE RESEARCH
Period Obligations
 07/28/1994-01/27/1996 FY95: \$80,066 TOTAL: \$203,036
Prin. Invest. NASA Tech. Officer CASE Category
 M ARMOUR MSFC/H WAITES 22-Computer Science
 MSFC/G MYERS

NAG 3-1582 Tuskegee University 1062
 SPUTTERING EROSION OF INSULATOR WALLS IN THE STAT
 IONARY PLASMA THRUSTER
Period Obligations
 03/22/1994-03/26/1996 FY95: \$137,500 TOTAL: \$292,793
Prin. Invest. NASA Tech. Officer CASE Category
 P K RAY LERC/E J PENCIL 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAG 8-296 Tuskegee University 1063
 MAIN ENGINE STUDY
Period Obligations
 05/20/1993-12/30/1995 FY95: \$91,549 TOTAL: \$151,389
Prin. Invest. NASA Tech. Officer CASE Category
 C J WANG MSFC/B WALKER 29-Math/Cmputer,NEC

NAG10-167 Tuskegee University 1071
 RESEARCH AND DEVELOPMENT OF MATERIALS AND COMPONENTS
 FOR PROTECTIVE CLOTHING
Period Obligations
 06/19/1995-06/19/1996 FY95: \$109,491 TOTAL: \$109,491
Prin. Invest. NASA Tech. Officer CASE Category
 N VAHDAT KSC/P FAUGHNAN 43-Chem Engr

NAG 8-1083 Tuskegee University 1064
 ELECTRICAL CHARACTERIZATION OF CDTE, HGCDTE, AND A NSE
 SINGLE CRYSTAL SUBSTRATES
Period Obligations
 09/28/1994-08/31/1995 FY95: \$80,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 K DAS MSFC/D JEX 13-Physics

NAG10-168 Tuskegee University 1072
 FRACTURE MORPHOLOGY OF SELECTIVE POLYMER SYSTEMS
 UNDER MONOTONIC AND FATIGUE LOADING
Period Obligations
 06/05/1995-06/08/1996 FY95: \$95,100 TOTAL: \$95,100
Prin. Invest. NASA Tech. Officer CASE Category
 H A AGLAN KSC/P FAUGHNAN 41-Aero Engr

NAG 8-1126 Tuskegee University 1065
 RIB COMPACTION OF COMPOSITE ISOGRID STRUCTURE
Period Obligations
 04/27/1995-04/26/1996 FY95: \$49,861 TOTAL: \$49,861
Prin. Invest. NASA Tech. Officer CASE Category
 D MAHDUZ MSFC/B MCMAHON 41-Aero Engr
 D VALIDYA

NAG10-176 Tuskegee University 1073
 BIOTRANSFORMATION MODEL MIXTURE HYDROGENE FUELS
Period Obligations
 07/19/1995-07/31/1996 FY95: \$116,923 TOTAL: \$116,923
Prin. Invest. NASA Tech. Officer CASE Category
 K HAILE KSC/B DELIWALA 12-Chemistry

NAG 8-1141 Tuskegee University 1066
 DEVELOPMENT OF COMPUTER MODEL OF THE TVC ELECTRO-
 MECHANICAL ACTUATOR SYSTEM
Period Obligations
 05/01/1992-04/30/1996 FY95: \$89,949 TOTAL: \$89,949
Prin. Invest. NASA Tech. Officer CASE Category
 C V DORESWAMY MSFC/D PEARSON 22-Computer Science

NAG13-33 Tuskegee University 1074
 A STUDY OF THE FLUID MECHANICS OF REACING FLOWS IN
 SELECTED AEROSPACE PROPULSION DEVICES
Period Obligations
 02/28/1995-02/27/1996 FY95: \$59,212 TOTAL: \$59,212
Prin. Invest. NASA Tech. Officer CASE Category
 E SHEPPARD SSC/G PITALO 41-Aero Engr

NAGW 2940 Tuskegee University 1067
 CENTER FOR FOOD PRODUCTION, PROCESSING AND WASTE M
 ANAGEMENT
Period Obligations
 03/12/1992-12/31/1996 FY95: \$968,089 TOTAL: \$4,033,898
Prin. Invest. NASA Tech. Officer CASE Category
 W A HILL HQ/S E MASSENBERG 99-Multi-Discip
 HQ/S HARTMAN

NGT 00-090-281 Tuskegee University 1075
 UNDERGRAUATE STUDENT RESEARCH PROGRAM
Period Obligations
 02/15/1995-08/15/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 E SHEPPARD HQ/D K RUSSELL 41-Aero Engr

NAGW 3472 Tuskegee University 1068
 MECHANICAL PROPERTY CHARACTERIZATION OF REFRACTOR Y
 COMPOSITES
Period Obligations
 03/30/1993-08/31/1995 FY95: TOTAL: \$314,400
Prin. Invest. NASA Tech. Officer CASE Category
 S JEELANI HQ/S STOVALL-ALEXANDER 99-Multi-Discip

NAG 8-1146 University of Alabama - Birmingham 1076
 RESEARCH ON DEVELOPMENT OF ROBOTIC TECHNIQUES
Period Obligations
 09/13/1995-09/12/1996 FY95: \$210,609 TOTAL: \$210,609
Prin. Invest. NASA Tech. Officer CASE Category
 L J DELUCAS GSFC/J ROGERS 59-Life Sci, NEC

NAG10-125 Tuskegee University 1069
 RESEARCH AND DEVELOPMENT OF MATERIALS PROTECTIVE
 CLOTHING
Period Obligations
 07/12/1993-07/26/1996 FY95: TOTAL: \$199,999
Prin. Invest. NASA Tech. Officer CASE Category
 N VAHDAT KSC/K THOMPSON 12-Chemistry

NAG 8-1162 University of Alabama - Birmingham 1077
 INVESTIGATION OF MACROMOLECULAR TRANSPORT
Period Obligations
 09/01/1995-08/31/1996 FY95: \$128,225 TOTAL: \$128,225
Prin. Invest. NASA Tech. Officer CASE Category
 L J DELVCAS MSFC/T Y MILLER 19-Phys Sci, NEC
 MSFC/D C CARTER

NAG10-166 Tuskegee University 1070
 DEVEL OF SMALL PORTABLE MASS SPECTROMETER
Period Obligations
 06/14/1995-06/18/1996 FY95: \$109,504 TOTAL: \$109,504
Prin. Invest. NASA Tech. Officer CASE Category
 N VAHDAT KSC/J D COLLINS 41-Aero Engr

NAG 8-1193 University of Alabama - Birmingham 1078
 ROBOTIC ACQUISITION AND CRYOGENIC PRESERVATION OF
 CRYSTALS
Period Obligations
 09/01/1995-08/31/1996 FY95: \$150,215 TOTAL: \$150,215
Prin. Invest. NASA Tech. Officer CASE Category
 C D SMITH MSFC/J X HO 19-Phys Sci, NEC
 MSFC/D C CARTER

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAGW 749 University of Alabama - Birmingham 1079
COSMIC ICES/MOLECULES: A LABORATORY INVESTIGATION
Period *Obligations*
06/01/1985-02/28/1995 FY95: \$26,000 TOTAL: \$302,054
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T J WDOWIAK HQ/F C GILLET 13-Physics
HQ/E J WEILER

NAS 8-36611 University of Alabama - Birmingham 1087
RESEARCH STUDY ENTITLED 'PROTIEN CRYSTAL GROWTH IN A MICROGRAVITY ENVIRONMENT'
Period *Obligations*
07/25/1985-09/30/1995 FY95: TOTAL: \$8,405,934
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L DELUCAS MSFC/R C DARTY 51-Biological Sci
L J DELUCAS
J K BAIRD

NAGW 813 University of Alabama - Birmingham 1080
MICRO MOLCULAR CRYSTALLAGRAPY IN SPACE
Period *Obligations*
09/15/1985-10/31/1996 FY95: \$4,492,648 TOTAL: \$18,070,828
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C E BUGG HQ/A VILLAMIL 51-Biological Sci
K M PRUITT HQ

NAS 8-38672 University of Alabama - Birmingham 1088
CRYSTAL GROWTH OF SELECTED II - VI SEMICONDUCTING CRYSTALS
Period *Obligations*
09/17/1990-04/01/1995 FY95: TOTAL: \$312,847
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R N ANDREWS MSFC/F R SZOFRAN 19-Phys Sci, NEC
MSFC/D C GILLIES

NAGW 1512 University of Alabama - Birmingham 1081
THE CHEMICAL BASIS FOR THE ORIGIN OF THE GENETIC CODE AND
Period *Obligations*
11/28/1988-11/30/1994 FY95: \$15,000 TOTAL: \$534,299
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J C LACEY HQ/M MEYER 12-Chemistry

NAS 8-39717 University of Alabama - Birmingham 1089
RESEARCH STUDY
Period *Obligations*
01/29/1993-01/28/1996 FY95: \$158,508 TOTAL: \$478,508
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J B ANDREWS MSFC/I YATES 19-Phys Sci, NEC

NAGW 3081 University of Alabama - Birmingham 1082
COMBINED BACKSCATTER MOSSBAUER SPECTROMETER/X-RAY FLUORESCENCE ANALYZER FOR PLANETARY SURFACE MATERIA
Period *Obligations*
05/15/1992-04/30/1995 FY95: TOTAL: \$240,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D C AGRESTI HQ/H C BRINTON 19-Phys Sci, NEC

NAS 8-39762 University of Alabama - Birmingham 1090
PROTEIN CRYSTAL GROWTH IN MICROGRAVITY
Period *Obligations*
10/23/1992-05/31/1994 FY95: TOTAL: \$1,786,969
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L J DELUCAS MSFC/K HIGGINBETHAM 19-Phys Sci, NEC

NAGW 3902 University of Alabama - Birmingham 1083
VACUUM UV SPECTROSCOPY OF IONS OF AROMATIC SPECIES OF ASTROPHYSICAL INTERNET
Period *Obligations*
03/28/1994-11/30/1995 FY95: TOTAL: \$22,705
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T J WDOWIAK HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAS 8-40189 University of Alabama - Birmingham 1091
PROTEIN CRYSTAL GROWTH IN MICROGRAVITY
Period *Obligations*
04/01/1994-06/01/1997 FY95: \$2,762,552 TOTAL: \$4,197,552
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L J DELUCAS MSFC/H K HIGGINBOTHAM 19-Phys Sci, NEC

NAGW 4041 University of Alabama - Birmingham 1084
1994 PROTEIN CRYSTAL GROWTH CONFERENCE ON STRUCURE BASED DRUG DESIGN
Period *Obligations*
06/27/1994-08/31/1994 FY95: TOTAL: \$10,100
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L J DELUCAS HQ/D LONGEDDY 56-Medical Sciences

NAS 8-40429 University of Alabama - Birmingham 1092
CRYSTAL RESEARCH
Period *Obligations*
12/02/1994-12/01/1995 FY95: \$112,000 TOTAL: \$112,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R N ANDREWS MSFC/F R SZOFRAN 19-Phys Sci, NEC
MSFC/D C GILLIES

NAGW 4079 University of Alabama - Birmingham 1085
THE IR EMITTING AROMATIC COMPONENT OF THE INTERSTE LLAR AND CIRCUMSTELLAR MEDIUMS
Period *Obligations*
07/13/1994-05/31/1997 FY95: \$32,009 TOTAL: \$64,018
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T J WDOWIAK HQ/M MEYER 13-Physics

NGT 00-050-877 University of Alabama - Birmingham 1093
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/23/1992-12/31/1995 FY95: \$11,000 TOTAL: \$77,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B ANDREWS MSFC/F SIX 47-Materials Engr

NAGW 4158 University of Alabama - Birmingham 1086
FORMATION OF THE HYDROCARBONS OF CARBONACEOUS CHONDRITES
Period *Obligations*
09/26/1994-09/30/1996 FY95: \$54,928 TOTAL: \$54,928
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T J WDOWIAK HQ/P ROGERS 12-Chemistry

NGT 00-050-879 University of Alabama - Birmingham 1094
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
09/23/1992-06/30/1996 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D G AGRESTI MSFC/F SIX 13-Physics

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NGT 00-050-880 University of Alabama - Birmingham 1095
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/29/1992-07/31/1995 FY95: \$22,000 TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 D L SHEALY MSFC/F SIX 13-Physics

NGT 00-051-080 University of Alabama - Birmingham 1096
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/02/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R ANDREWS HQ/D A HOLLAND 47-Materials Engr

NGT 00-070-397 University of Alabama - Birmingham 1097
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 09/29/1994-06/30/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 W JONES HQ/D K RUSSELL 22-Computer Science

NAG 1-1228 University of Alabama - Huntsville 1098
 ANALYSIS OF SURFACES FROM THE LDEF AO114- PHASE II
Period Obligations
 02/28/1991-12/31/1993 FY95: TOTAL: \$401,329
Prin. Invest. NASA Tech. Officer CASE Category
 J GREGORY LARC/J L JONES 47-Materials Engr
 LARC/L A TEICHMAN

NAG 1-1534 University of Alabama - Huntsville 1099
 A DETERMINATION OF OPTIMAL CONDITIONS FOR MELT
 STABILIZATION IN A MAGNETIC FIELD
Period Obligations
 07/20/1993-08/31/1996 FY95: \$30,000 TOTAL: \$81,447
Prin. Invest. NASA Tech. Officer CASE Category
 A NADARAJAH LARC/A L FRIPP 19-Phys Sci, NEC

NAG 2-985 University of Alabama - Huntsville 1100
 MECHANISMS OF GRAVITY SENSING AND RESPONSE IN HEMA
 TOPOIETIC CELLS
Period Obligations
 06/21/1995-12/31/1995 FY95: \$124,947 TOTAL: \$124,947
Prin. Invest. NASA Tech. Officer CASE Category
 M L LEWIS ARC/C M WINGET 54-Env Biology
 ARC/C G JAHNS

NAG 3-1384 University of Alabama - Huntsville 1101
 STABILITY LIMITS AND DYNAMICS OF NONAXISYMMETRIC LIQ UID
 BRIDGES
Period Obligations
 11/23/1992-11/18/1996 FY95: \$130,797 TOTAL: \$423,641
Prin. Invest. NASA Tech. Officer CASE Category
 J I ALEXANDER LERC/J A SALZMAN 19-Phys Sci, NEC

NAG 3-1740 University of Alabama - Huntsville 1102
 ANALYSIS OF RESIDUAL ACCELERATION EFFECTS ON TRANS PORT
 AND SEGREGATION DURING DIRECTIONAL SOLIDIFICATION
Period Obligations
 05/01/1995-04/30/1996 FY95: \$62,499 TOTAL: \$62,499
Prin. Invest. NASA Tech. Officer CASE Category
 J D ALEXANDER LERC/J C DUH 19-Phys Sci, NEC

NAG 5-1756 University of Alabama - Huntsville 1103
 AN INVESTIGATION OF TEMPORAL CORRELATIONS AMONGST
 GAMMA-RAY BURST SPECTRAL COMPONENTS
Period Obligations
 08/26/1991-10/31/1994 FY95: TOTAL: \$153,637
Prin. Invest. NASA Tech. Officer CASE Category
 W PACIESAS GSFC/J P NORRIS 11-Astronomy
 M S BRIGGS GSFC/C A GEHRELS

NAG 5-2019 University of Alabama - Huntsville 1104
 AN INVESTIGATION INTO THE FUNDAMENTAL TIME STRUCTURE
 OF HIGH ENERGY PROCESSES IN SOLAR FLARES
Period Obligations
 07/08/1992-01/14/1996 FY95: TOTAL: \$127,978
Prin. Invest. NASA Tech. Officer CASE Category
 G EMSLIEO GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2373 University of Alabama - Huntsville 1105
 A SEARCH FOR PRE- AND POST-BURST EMISSION FROM GAMMA-
 RAY BURST SOURCES
Period Obligations
 09/23/1993-09/30/1996 FY95: \$24,999 TOTAL: \$84,999
Prin. Invest. NASA Tech. Officer CASE Category
 A G EMSLIE GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2416 University of Alabama - Huntsville 1106
 TIME-RESOLVED SPECTROSCOPY OF GAMMA-RAY BURSTS
Period Obligations
 11/06/1993-11/14/1994 FY95: TOTAL: \$49,846
Prin. Invest. NASA Tech. Officer CASE Category
 W S PACIESAS GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2443 University of Alabama - Huntsville 1107
 IS GD 356 THE FIRST KNOWN WHITE DWARF WITH CORONAL
 X-RAY EMISSION
Period Obligations
 12/06/1993-06/14/1995 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 E Z MUSIELAK GSFC/R PETRE 11-Astronomy

NAG 5-2627 University of Alabama - Huntsville 1108
 ION ACCELERATION AND TRANSPORT IN SOLAR FLARES
Period Obligations
 07/11/1994-09/30/1995 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A MILLER GSFC/R RAMATY 11-Astronomy

NAG 5-2725 University of Alabama - Huntsville 1109
 CGRO/BATSE OBSERVATIONS OF MAGNETOSPHERIC ELECTRON
 MICROBURSTS
Period Obligations
 09/21/1994-09/30/1995 FY95: TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
 J L HOROWITZ GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2735 University of Alabama - Huntsville 1110
 X-RAY BURST SPECTROSCOPY WITH ASCA
Period Obligations
 09/21/1994-03/31/1996 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 J VAN PARADIJS GSFC/N WHITE 11-Astronomy

NASA'S UNIVERSITY PROGRAM

ALABAMA (Continued)

NAG 5-2755 University of Alabama - Huntsville 1111
 PULSE TIMING OF VELA X-1 AND CEN X-3; SEARCH FOR SOFT
 GAMMA-RAY EVENTS, ECT...
Period Obligations
 10/18/1994-10/31/1995 FY95: \$71,632 TOTAL: \$71,632
Prin. Invest. NASA Tech. Officer CASE Category
 J V PARADIS GSFC/J NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 8-767 University of Alabama - Huntsville 1119
 THE GROWTH OF ZINC SELE- NIDE SINGLE CRYSTALS BY PHYSICAL
 VAPOR TRANSPORT IN MICROGRAVITY
Period Obligations
 04/01/1989-08/31/1995 FY95: TOTAL: \$539,719
Prin. Invest. NASA Tech. Officer CASE Category
 E E ANDERSON MSFC/S L LEHOCZKY 13-Physics
 H Y CHENG
 F E ROSENBERGER

NAG 5-2871 University of Alabama - Huntsville 1112
 PARTICLE ACCELERATION IN ACTIVE GALACTIC NUCLEI
Period Obligations
 01/18/1995-01/31/1996 FY95: \$14,200 TOTAL: \$14,200
Prin. Invest. NASA Tech. Officer CASE Category
 J A MILLER GSFC/J P NORRIS 11-Astronomy
 C D DERMER GSFC/N WHITE

NAG 8-834 University of Alabama - Huntsville 1120
 THEORETICAL AND EXPERIMENTAL STUDIES RELEVANT TO
 INTERPRETATION OF AURORAL EMISSIONS
Period Obligations
 06/20/1990-06/25/1994 FY95: TOTAL: \$385,895
Prin. Invest. NASA Tech. Officer CASE Category
 C E KEFFER MSFC/S A FIELDS 31-Atmos Sci
 G A GERMANY MSFC/L S REED

NAG 5-2932 University of Alabama - Huntsville 1113
 ION ACCELERATION IN SOLAR FLARES
Period Obligations
 04/19/1995-04/30/1996 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A MILLER GSFC/M L GOLDSTEIN 13-Physics

NAG 8-839 University of Alabama - Huntsville 1121
 PHYSICS OF WAVES IN THE SOLAR ATMOSPHERE
Period Obligations
 09/11/1990-09/01/1994 FY95: TOTAL: \$167,102
Prin. Invest. NASA Tech. Officer CASE Category
 Z MUSIELAK MSFC/J M DAVIS 13-Physics
 MSFC/E R REICHMANN

NAG 5-3003 University of Alabama - Huntsville 1114
 SYSTEMATIC STUDY OF BLACK-HOLE CANDIDATES WITH GINGA
 DATA
Period Obligations
 07/14/1995-07/31/1996 FY95: \$31,000 TOTAL: \$31,000
Prin. Invest. NASA Tech. Officer CASE Category
 J VAN PARADIKIS GSFC/D WEST 11-Astronomy

NAG 8-842 University of Alabama - Huntsville 1122
 RESEARCH SUPPORT FOR THE CDTE CRYSTAL GROWTH
Period Obligations
 07/27/1990-08/09/1995 FY95: TOTAL: \$155,070
Prin. Invest. NASA Tech. Officer CASE Category
 F E ROSENBERGER MSFC/F R SZOFRAN 19-Phys Sci, NEC
 MSFC/G L PERRY

NAG 8-108 University of Alabama - Huntsville 1115
 SEMICONDUCTOR
Period Obligations
 05/25/1988-05/31/1995 FY95: TOTAL: \$84,990
Prin. Invest. NASA Tech. Officer CASE Category
 F D HO MSFC/T EDGE 45-Elec Engr
 MSFC/O A NORTON

NAG 8-874 University of Alabama - Huntsville 1123
 THE MAGNETIC CONFIGURATION LEADING TO SOLAR FLARES
 MEASUREMENTS AND THEORY
Period Obligations
 06/05/1991-08/08/1994 FY95: TOTAL: \$161,340
Prin. Invest. NASA Tech. Officer CASE Category
 J M FONTENLA MSFC/J M DAVIS 11-Astronomy
 MSFC/E J REICHMANN

NAG 8-178 University of Alabama - Huntsville 1116
 PHASE III EVALUATION OF EXPLORATOIN WORKSHOP CONCEPTS
 THE VON BRAUN FORUMS
Period Obligations
 01/23/1991-02/28/1996 FY95: TOTAL: \$153,888
Prin. Invest. NASA Tech. Officer CASE Category
 A H YELLE MSFC/C R CHAPPELL 99-Multi-Discip

NAG 8-931 University of Alabama - Huntsville 1124
 BREADBOARD ACTIVITIES FOR ADVANCED PROTEIN CRYSTAL
 GROWTH
Period Obligations
 08/03/1992-08/03/1994 FY95: TOTAL: \$63,337
Prin. Invest. NASA Tech. Officer CASE Category
 F ROSENBERGER MSFC/M L PUSEY 19-Phys Sci, NEC

NAG 8-239 University of Alabama - Huntsville 1117
 MAGNETOSPHERIC SPACE PLASMA INVESTIGATIONS
Period Obligations
 07/10/1992-11/09/1995 FY95: TOTAL: \$346,000
Prin. Invest. NASA Tech. Officer CASE Category
 R H COMFORT MSFC/T E MOORE 13-Physics
 J L HORWITZ MSFC/G T MCCRANIE

NAG 8-938 University of Alabama - Huntsville 1125
 STUDIES OF SURFACE TENSION ON ROTATING HELIUM
Period Obligations
 09/14/1992-09/30/1993 FY95: TOTAL: \$128,136
Prin. Invest. NASA Tech. Officer CASE Category
 R J HUNG MSFC/J W KAUFMAN 13-Physics

NAG 8-297 University of Alabama - Huntsville 1118
 A SYSTEMIC CHANGE OF SCIENCE EDUCATION
Period Obligations
 07/07/1993-06/30/1994 FY95: TOTAL: \$78,923
Prin. Invest. NASA Tech. Officer CASE Category
 J WRIGHT MSFC/B ANDERSON 51-Biological Sci

NAG 8-950 University of Alabama - Huntsville 1126
 CRYSTAL GROWTH STUDY
Period Obligations
 02/12/1993-01/31/1995 FY95: \$199,000 TOTAL: \$572,318
Prin. Invest. NASA Tech. Officer CASE Category
 F ROSENBERGER MSFC/T MILLER 13-Physics

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAG 8-984 University of Alabama - Huntsville 1127
CRYSTAL RESEARCH
Period *Obligations*
12/06/1993-02/29/1996 FY95: \$69,740 TOTAL: \$125,163
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A NADARAJAH MSFC/M L PUSEY 19-Phys Sci, NEC

NAG 8-1086 University of Alabama - Huntsville 1135
TEACHING MIDDLE LEVEL SCIENCE AND TECH. FOR UNDER-
STANDING
Period *Obligations*
09/12/1994-09/11/1995 FY95: TOTAL: \$83,226
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A W LORBACK MSFC/W ANDERSON 29-Math/Cmputer,NEC
B J POOLE

NAG 8-987 University of Alabama - Huntsville 1128
EXPLORATIONS IN SUPERCOMPUTING
Period *Obligations*
11/02/1993-10/01/1995 FY95: \$140,544 TOTAL: \$562,544
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C DAVIS MSFC/W ANDERSON 29-Math/Cmputer,NEC

NAG 8-1097 University of Alabama - Huntsville 1136
ANALYTICAL EVALUATION OF FILM COOLED ABLATIVE ROCKET
NOZZELS
Period *Obligations*
11/16/1994-01/15/1996 FY95: \$29,524 TOTAL: \$29,524
Prin. Invest. *NASA Tech. Officer* *CASE Category*
LANDRUM MSFC/R H COUNTS 41-Aero Engr
MSFC/W T PETERS

NAG 8-1028 University of Alabama - Huntsville 1129
TECHNOLOGY REINVESTMENT PROGRAM
Period *Obligations*
03/16/1994-03/15/1997 FY95: TOTAL: \$298,448
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J O DIMMOCK MSFC/J CARLISLE 49-Engr, NEC

NAG 8-1112 University of Alabama - Huntsville 1137
VECTOR MAGNETOGRAPH DESIGN
Period *Obligations*
12/20/1994-12/19/1995 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A CHIPMAN MSFC/M J HAGYARD 11-Astronomy
MSFC/E A WEST

NAG 8-1029 University of Alabama - Huntsville 1130
TECHNOLOGY REINVESTMENT PROGRAM
Period *Obligations*
03/16/1994-03/15/1996 FY95: TOTAL: \$268,604
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B J SCHROER MSFC/J CARLISLE 49-Engr, NEC

NAG 8-1122 University of Alabama - Huntsville 1138
EDUCATION GRANT 1995 SUMMER TEACHER ENRICHMENT
PROGRAM
Period *Obligations*
04/03/1995-04/02/1996 FY95: \$187,000 TOTAL: \$187,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G R KARR MSFC/J S EHMEN 99-Multi-Discip
MSFC/T R GUTHRIE

NAG 8-1032 University of Alabama - Huntsville 1131
DEVELOPMENT TESTING OF SHORT TERM SOLAR PREDICTION
ALGORITHM
Period *Obligations*
02/14/1994-02/15/1995 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P C SCHMIDTKE MSFC/J VARGAS 11-Astronomy

NAG 8-1161 University of Alabama - Huntsville 1139
NUCLEATION AND CONVECTION EFFECTS IN PROTEIN CRYSTAL
GROWTH
Period *Obligations*
07/25/1995-07/24/1996 FY95: \$151,000 TOTAL: \$151,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F E ROSENBERGER MSFC/T Y MILLER 19-Phys Sci, NEC
MSFC/D C CARTER

NAG 8-1036 University of Alabama - Huntsville 1132
ON COMPLEXITY OF SOLAR MAGNETIC FIELD AND HEATING IN
SOLAR CORONAL HLOS
Period *Obligations*
02/09/1994-05/29/1996 FY95: \$10,423 TOTAL: \$38,583
Prin. Invest. *NASA Tech. Officer* *CASE Category*
Z E MUSIELAK MSFC/J M DAVIS 11-Astronomy
MSFC/E J REICHMANN

NAGW 294 University of Alabama - Huntsville 1140
IMPULSIVE X RAY EMISSION IN SOLAR FLARES
Period *Obligations*
04/01/1982-06/30/1994 FY95: TOTAL: \$470,310
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A G EMSLIE HQ/H S AHLUWALIA 13-Physics
HQ/J D BOHLIN

NAG 8-1071 University of Alabama - Huntsville 1133
SURFACE CHARACTERIZATION AND CONTAMINATION ANALY- SIS
Period *Obligations*
04/01/1994-02/28/1997 FY95: \$50,000 TOTAL: \$125,127
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G L WORKMAN MSFC/B H NERREN 41-Aero Engr
B J SCHROER MSFC/D BURNS

NAGW 812 University of Alabama - Huntsville 1141
MATERIAL PROCESSING
Period *Obligations*
09/15/1985-10/31/1995 FY95: \$6,099,884 TOTAL: \$35,951,525
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G R KARR HQ/R P WHITTEN 47-Materials Engr
C A LUNDQUIST HQ/A VILLAMIL

NAG 8-1084 University of Alabama - Huntsville 1134
ON WAVE PROCESSES IN THE SOLAR ATMOSPHERE
Period *Obligations*
08/22/1994-08/21/1996 FY95: \$25,813 TOTAL: \$50,703
Prin. Invest. *NASA Tech. Officer* *CASE Category*
Z E MUSIELAK MSFC/E J REICHMANN 11-Astronomy
MSFC/J M DAVIS

NAGW 996 University of Alabama - Huntsville 1142
A SIMPLE 3-D DYNAMICAL MODEL OF THERMAL PLASMA
Period *Obligations*
01/01/1987-06/30/1995 FY95: \$68,009 TOTAL: \$420,658
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P G RICHARDS HQ/M M MELLOTT 13-Physics
D G TORR HQ/T W PERRY

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAGW 1554 University of Alabama - Huntsville 1143
 TIME-DEPENDENT POLAR PLASMA OUTFLOW
Period *Obligations*
 12/07/1988-10/31/1995 FY95: TOTAL: \$418,548
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J L HORWITZ HQ/M M MELLOTT 13-Physics
 HQ/T W PERRY

NAGW 2933 University of Alabama - Huntsville 1150
 ON THE PHYSICAL PROCESSES UNDERLYING THE EXISTENCE AND
 ORIGIN OF X-RAY AND MASS LOSS
Period *Obligations*
 02/27/1992-12/31/1994 FY95: TOTAL: \$82,571
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 Z E MUSIELAK HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAGW 1630 University of Alabama - Huntsville 1144
 EFFECTS OF PLASMASPHERE HEATING ON THERMAL ION
 COMPOSITION
Period *Obligations*
 02/22/1989-07/31/1995 FY95: TOTAL: \$319,741
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R H COMFORT HQ/M M MELLOTT 13-Physics
 HQ/T W PERRY

NAGW 3470 University of Alabama - Huntsville 1151
 THE IONOSPHERE MAGNETOSPHERE TRANSITION REGION SIM
 ULATION AND DATA COMPARIION
Period *Obligations*
 04/09/1993-02/29/1996 FY95: \$71,240 TOTAL: \$205,854
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G R WILSON HQ/E C WHIPPLE 13-Physics
 HQ/G L WITHBROE

NAGW 1651 University of Alabama - Huntsville 1145
 DEVELOPMENT OF NEW METHODS FOR TRANSITION RADIATION
Period *Obligations*
 02/03/1989-02/28/1996 FY95: \$39,988 TOTAL: \$428,173
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 Y TAKAHASHI HQ/M M MELLOTT 13-Physics
 HQ/T W PERRY

NAGW 3540 University of Alabama - Huntsville 1152
 NAGW-3540/UNIV ALABAMA/ AUTOMATED ANALYSIS OF ULTR A
 HIGH ENERGY COSMIC RAY EVENTS
Period *Obligations*
 04/21/1993-02/28/1997 FY95: \$60,000 TOTAL: \$234,899
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 Y TAKAHASHI HQ/W V JONES 13-Physics
 HQ/G L WITHBROE

NAGW 2023 University of Alabama - Huntsville 1146
 A MEASUREMENT OF THE ENERGY SPECTRA OF COSMIC RAYS
 FROM 20 TO 1000 GEV PER AMV
Period *Obligations*
 08/08/1990-02/28/1995 FY95: TOTAL: \$660,598
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J C GREGORY HQ/W V JONES 13-Physics
 HQ/J C LING

NAGW 3617 University of Alabama - Huntsville 1153
 THE OBSERVED CHARACTER OF FLARE ENERGY RELEASES
Period *Obligations*
 05/26/1993-03/31/1995 FY95: TOTAL: \$109,132
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A G EMSLIE HQ/W J WAGNER 13-Physics
 HQ/J D BOHLIN

NAGW 2128 University of Alabama - Huntsville 1147
 A NEW APPROACH TO PLASMASPHERE REFILLING ANOMALOUS
 PLASMA EFFECTS
Period *Obligations*
 05/29/1990-07/31/1995 FY95: TOTAL: \$219,792
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N SINGH HQ/M M MELLOTT 13-Physics
 HQ/T PERRY

NAGW 3674 University of Alabama - Huntsville 1154
 INVESTIGATE THE IMPROVEMENT OF INTERUSABILITY FOR NASA
 EOS DATA
Period *Obligations*
 07/13/1993-04/30/1996 FY95: \$402,201 TOTAL: \$707,250
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M E BOTTS HQ/M E MAIDEN 39-Env Sci, NEC

NAGW 2898 University of Alabama - Huntsville 1148
 FAR ULTRAVIOLET NARROWLAND AND BROADBAND FILTERS,
 POLARIZERS AND BEAMSPLITTERS FOR ASTROPHYSICS
Period *Obligations*
 02/20/1992-12/31/1994 FY95: TOTAL: \$240,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M ZUKIC HQ/R STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 3692 University of Alabama - Huntsville 1155
 ANALYSIS OF THE IMAGING SPECTROMETRIC OBSERVATORY (ISO)
 DATA FROM THE ATLAS-1 MISSION
Period *Obligations*
 08/06/1993-07/31/1995 FY95: TOTAL: \$109,107
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D G TORR HQ/M M MELLOTT 13-Physics
 HQ/J D BOHLIN

NAGW 2903 University of Alabama - Huntsville 1149
 NAGW-2903/UNIV ALABAMA/IONOSPHERIC PLASMA OUTFLOW IN
 RESPONSE TO TRANSVERSE ION HEATING
Period *Obligations*
 08/02/1991-06/30/1995 FY95: TOTAL: \$120,481
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N SINGH HQ/J D BOHLIN 13-Physics

NAGW 3979 University of Alabama - Huntsville 1156
 WAVE DRIVEN EXOTHERMIC HEATING IN THE MESOPAUSE RE
 GION
Period *Obligations*
 05/13/1994-04/30/1997 FY95: \$76,814 TOTAL: \$151,208
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M P HICKEY HQ/M M MELLOTT 13-Physics
 HQ/J D BOHLIN

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAGW 4086 University of Alabama - Huntsville 1157
 1994 HUNTSVILLE WORKSHOP: COUPLING OF MICRO-AND
 MESOSCALE PROCESSES IN SPACE PLASMA TRANSPORT
Period Obligations
 07/22/1994-04/30/1995 FY95: TOTAL: \$5,000
Prin. Invest. NASA Tech. Officer CASE Category
 N SINGH HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAS 8-37106 University of Alabama - Huntsville 1165
 REFLIGHT OF IMAGING SPECTROMETRIC OBSERVATORY ON THE
 ATLAS I MISSION.
Period Obligations
 02/13/1987-06/30/1994 FY95: TOTAL: \$1,863,416
Prin. Invest. NASA Tech. Officer CASE Category
 D G TORR MSFC/J E JOHNSON 11-Astronomy
 MSFC/R ISE

NAGW 4259 University of Alabama - Huntsville 1158
 PHENOMENA ORIENTED DATA MINING
Period Obligations
 01/31/1995-12/14/1996 FY95: \$468,378 TOTAL: \$468,378
Prin. Invest. NASA Tech. Officer CASE Category
 S GRAVES HQ/R S MCGINNIS 22-Computer Science

NAS 8-37107 University of Alabama - Huntsville 1166
 STUDY ENTITLED 'RESEARCH ON ORBITAL
 PLASMA-ELECTRODYNAMICS.'
Period Obligations
 03/17/1987-02/28/1997 FY95: \$204,000 TOTAL: \$944,772
Prin. Invest. NASA Tech. Officer CASE Category
 N STON MSFC/J LAUE 31-Atmos Sci
 S T WU MSFC/R HOLDER
 N SINGH

NAGW 4378 University of Alabama - Huntsville 1159
 ION ACCELERATION AND ABUNDANCE ENHANCEMENTS IN IMP
 ULSIVE SOLAR FLARES
Period Obligations
 03/31/1995-03/31/1998 FY95: \$42,753 TOTAL: \$42,753
Prin. Invest. NASA Tech. Officer CASE Category
 J A MILLER HQ/W V JONES 13-Physics
 HQ/J D BOHLIN

NAS 8-38145 University of Alabama - Huntsville 1167
 PROVIDE OPTICAL FILTERAND MECHANICAL DESIGN
Period Obligations
 01/12/1990-09/30/1996 FY95: TOTAL: \$3,128,399
Prin. Invest. NASA Tech. Officer CASE Category
 M R TORR MSFC/G H FICHTAL 13-Physics
 D G TORR

NAGW 4470 University of Alabama - Huntsville 1160
 3-DIMENSIONAL NUMERICAL SIMULATION OF NONLINEAR LO WER
 HYBRID WAVE PROPAGATION
Period Obligations
 05/15/1995-06/30/1998 FY95: \$72,058 TOTAL: \$72,058
Prin. Invest. NASA Tech. Officer CASE Category
 N SINGH HQ/J D BOHLIN 13-Physics

NAS 8-38428 University of Alabama - Huntsville 1168
 EMULSION CHAMBER TECHNOLOGY EXPERIMENT
Period Obligations
 05/16/1990-09/30/1995 FY95: \$180,000 TOTAL: \$2,159,973
Prin. Invest. NASA Tech. Officer CASE Category
 J C GREGORY MSFC/J JOHNSON 42-Astro Engr
 MSFC/O GEORGE

NAGW 4500 University of Alabama - Huntsville 1161
 KINETIC SPACE WEATHER
Period Obligations
 05/13/1995-02/28/1996 FY95: \$38,000 TOTAL: \$38,000
Prin. Invest. NASA Tech. Officer CASE Category
 J L HORWITZ HQ/J D BOHLIN 13-Physics

NAS 8-38609 University of Alabama - Huntsville 1169
 ESSENTIAL ENGINEERING SERVICES, RESEARCH AND DEVEL
 CAPABILITY
Period Obligations
 04/24/1991-04/11/1996 FY95: \$1,941,449 TOTAL: \$9,335,944
Prin. Invest. NASA Tech. Officer CASE Category
 W W VAUGHAN MSFC/L J SMITH 99-Multi-Discip
 MSFC/D W HIPP

NAGW 4665 University of Alabama - Huntsville 1162
 COMPREHENSIVE ANLAYSSES OF DATA COLLECTED FROM TEREK
Period Obligations
 09/13/1995-05/31/1996 FY95: \$75,609 TOTAL: \$75,609
Prin. Invest. NASA Tech. Officer CASE Category
 S T WU HQ/W J WAGNER 13-Physics
 HQ/J D BOHLIN

NAS 8-38663 University of Alabama - Huntsville 1170
 AN INFORMATION SYSTEM FOR EARTH SYSTEM SCIENCE
Period Obligations
 11/08/1991-11/07/1995 FY95: TOTAL: \$851,841
Prin. Invest. NASA Tech. Officer CASE Category
 S J GRAVES MSFC/R J KOCZOR 22-Computer Science
 R T MCNIDER

NAGW 4681 University of Alabama - Huntsville 1163
 VALIDATION OF THE TROPOSPHERIC OZONE RESIDUAL METH OD
 USING TOMS/SBUV/SBUV-II DATA
Period Obligations
 08/07/1995-12/31/1995 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 M NEWCHURCH HQ/J A KAYE 31-Atmos Sci
 HQ/R A SCHIFFER

NAS 8-38773 University of Alabama - Huntsville 1171
 USML-1 GLOVERBOX EXPERIMENTS
Period Obligations
 11/01/1990-12/31/1994 FY95: TOTAL: \$166,506
Prin. Invest. NASA Tech. Officer CASE Category
 R J NAUMANN MSFC/R P CHASSAY 39-Env Sci, NEC

NAGW 4749 University of Alabama - Huntsville 1164
 OPTIMIZING THE MERGING STRATEGY FOR MSU GLOBAL GRI DDED
 TEMPERATURES
Period Obligations
 09/12/1995-06/30/1997 FY95: \$46,648 TOTAL: \$46,648
Prin. Invest. NASA Tech. Officer CASE Category
 J R CHRISTY HQ/M E MAIDEN 31-Atmos Sci

NAS 8-38789 University of Alabama - Huntsville 1172
 MONITORING, ANALYZING AND MODELING THE GLOBAL EARTH
 SYSTEM
Period Obligations
 10/06/1991-08/31/1994 FY95: TOTAL: \$968,026
Prin. Invest. NASA Tech. Officer CASE Category
 S R CHRISTY MSFC/F LESLIE 31-Atmos Sci
 K T MCNIDER

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAS 8-39716 University of Alabama - Huntsville 1173
RESEARCH STUDY
Period *Obligations*
02/02/1993-01/31/1996 FY95: \$260,464 TOTAL: \$809,464
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F ROSENBERGER MSFC/L B JETER 19-Phys Sci, NEC

NAS 8-40185 University of Alabama - Huntsville 1174
X-RAY TRANSMISSION MICROSCOPE DEVELOPMENT
Period *Obligations*
02/07/1994-02/29/1996 FY95: \$96,364 TOTAL: \$171,322
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W F KAUKLER MSFC/P A CURRERI 19-Phys Sci, NEC

NCC 8-19 University of Alabama - Huntsville 1175
MICROGRAVITY MATERIALS RESEARCH
Period *Obligations*
11/04/1992-11/03/1995 FY95: \$223,307 TOTAL: \$619,170
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G WORKMAN MSFC/M B ROBINSON 47-Materials Engr
MSFC/S L LEHOCZKY

NCC 8-21 University of Alabama - Huntsville 1176
DATA AND INFORMATION SYSTEM
Period *Obligations*
05/21/1993-05/24/1995 FY95: TOTAL: \$323,202
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S J GRAVES MSFC/H M GOODMAN 22-Computer Science
H M GOODMAN

NCC 8-22 University of Alabama - Huntsville 1177
GLOBAL CHANGE RESEARCH
Period *Obligations*
09/01/1993-08/31/1995 FY95: \$6,707,082 TOTAL: \$11,568,836
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J PERKEY MSFC/L R GREENWOOD 31-Atmos Sci
S O KIDDER
R T MCNIDER

NCC 8-28 University of Alabama - Huntsville 1178
STUDY VULNERABILITY OF SPACE STATION FREEDOM MODULES
Period *Obligations*
09/07/1993-06/30/1995 FY95: TOTAL: \$308,691
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G R HOUGH MSFC/R E DOTSON 49-Engr, NEC
MSFC/K B HAYASHIDA

NCC 8-38 University of Alabama - Huntsville 1179
TEMPERATURE DISTRIBUTION OF VAPOR DEPOSITION STUDIES
Period *Obligations*
05/09/1994-12/31/1995 FY95: TOTAL: \$20,677
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J HUNG MSFC/D O FRAZIER 46-Mech Engr

NCC 8-65 University of Alabama - Huntsville 1180
RESEARCH AND APPLIED TECHNOLOGY AND DEVELOPMENT OF FUTURE PROGRAMS
Period *Obligations*
02/15/1995-02/14/1996 FY95: \$2,577,665 TOTAL: \$2,577,665
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S T WU MSFC/U URBAN 13-Physics
MSFC/G J FISHMAN

NCCW 57 University of Alabama - Huntsville 1181
EPSCOR PROGRAM
Period *Obligations*
08/08/1994-05/31/1995 FY95: \$500,000 TOTAL: \$1,000,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J GREGORY HQ/L KEFFER 99-Multi-Discip
HQ/E T SCHWARTZ

NGT 00-040-010 University of Alabama - Huntsville 1182
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period *Obligations*
09/28/1989-01/31/1998 FY95: \$678,045 TOTAL: \$2,576,835
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C A LUNDQUIST HQ/E T SCHWARTZ 99-Multi-Discip
H WILSON

NGT 00-050-701 University of Alabama - Huntsville 1183
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/16/1991-08/31/1995 FY95: TOTAL: \$70,997
Prin. Invest. *NASA Tech. Officer* *CASE Category*
Z MUSIELAK HQ/F C OWENS 46-Mech Engr

NGT 00-050-753 University of Alabama - Huntsville 1184
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/02/1991-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M HARRIS HQ/F C OWENS 12-Chemistry
J M VAN ALSTINE

NGT 00-051-031 University of Alabama - Huntsville 1185
GRADUATE STUDENT RESEARCH PROGRAM
Period *Obligations*
05/05/1993-05/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R T MCNIDER GSFC/M BURRELL 13-Physics

NGT 00-051-299 University of Alabama - Huntsville 1186
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/06/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J L HORWITZ HQ/D HOLLAND 13-Physics

NGT 00-051-355 University of Alabama - Huntsville 1187
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/01/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J I ALEXANDER HQ/J LYNCH 13-Physics
HQ/G A LESANE

NGT 00-051-371 University of Alabama - Huntsville 1188
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
11/22/1994-09/05/1996 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C W HAWK HQ/E MASSEY 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NGT 00-051-400 University of Alabama - Huntsville 1189
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/28/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J L HORWITZ MSFC/F SIX 13-Physics

NGT 1-8021 University of Alabama - Huntsville 1197
A SUMMER FACILTY FELLOWSHIP PROGRAM
Period *Obligations*
01/01/1976-03/31/1996 FY95: \$819,850 TOTAL: \$4,782,052
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G R KARR HQ/A S MCGEE 49-Engr, NEC
HQ/E T SCHWARTZ

NGT 00-070-240 University of Alabama - Huntsville 1190
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
08/16/1991-12/31/1995 FY95: \$22,000 TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G KARR MSFC/F S SIX 46-Mech Engr

NGT 1-52114 University of Alabama - Huntsville 1198
GRADUATE STUDENT RESEARCHER PROGRAM
Period *Obligations*
06/27/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T J CHUNG LARC/M H CARPENTER 41-Aero Engr
LARC/J THOMAS

NGT 00-070-253 University of Alabama - Huntsville 1191
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
06/21/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W P SCHONBERG MSFC/F SIX 19-Phys Sci, NEC

NGT 8-52804 University of Alabama - Huntsville 1199
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/28/1995-07/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D FEIKEMA MSFC/J J HUTT 46-Mech Engr

NGT 00-070-366 University of Alabama - Huntsville 1192
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
09/10/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R MCNIDER HQ/D K RUSSELL 21-Mathematics

NGT 8-52812 University of Alabama - Huntsville 1200
JOVE
Period *Obligations*
09/25/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D FORK MSFC/J BILBRO 99-Multi-Discip

NGT 00-070-368 University of Alabama - Huntsville 1193
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
12/03/1993-08/15/1995 FY95: \$7,333 TOTAL: \$51,333
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P FARRINGTON HQ/D K RUSSELL 49-Engr, NEC

NGT 9-5 University of Alabama - Huntsville 1201
DIAGNOSTICS OF EXTERNAL PLASMA
Period *Obligations*
05/31/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C W HAWK JSC/D G RICKORES 13-Physics

NGT 00-070-390 University of Alabama - Huntsville 1194
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
08/23/1994-06/30/1997 FY95: \$88,000 TOTAL: \$176,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P C RICHARDS HQ/D K RUSSELL 12-Chemistry

NAG 3-1564 University of Alabama - University 1202
GENETIC ALGORITHMS SOFTWARE DEVELOPMENT AND APPLIC
ATION TO CONTROLLER PARTITIONING
Period *Obligations*
01/14/1994-12/28/1995 FY95: \$58,933 TOTAL: \$98,862
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K S KRISHNAKUMAR LERC/S GARG 41-Aero Engr

NGT 00-090-248 University of Alabama - Huntsville 1195
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
12/27/1994-08/14/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L RUSSELL HQ/D K RUSSELL 46-Mech Engr

NAG 5-1718 University of Alabama - University 1203
SURFACE BRIGHTNESS PROFILES AND ENERGETICS OF INTRA-
CLUSTER GAS IN COOL GALAXY CLUSTERS
Period *Obligations*
08/13/1991-08/14/1994 FY95: TOTAL: \$25,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E WHITE GSFC/R PETRE 11-Astronomy

NGT 1-2099 University of Alabama - Huntsville 1196
SUMMER FACULTY FELLOWSHIP PROGRAM
Period *Obligations*
01/01/1978-03/31/1996 FY95: \$303,200 TOTAL: \$4,644,186
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L M FREEMAN HQ/F C OWENS 49-Engr, NEC

NAG 5-1973 University of Alabama - University 1204
SURFACE BRIGHTNESS PROFILES AND ENERGETICS OF INTE
RCLUSTER GAS IN COOL GALAXY CLUSTERS
Period *Obligations*
05/19/1992-05/31/1996 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E WHITE GSFC/R PETRE 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAG 5-2134 University of Alabama - University 1205
 OBSCURATION AND AGE EFFECTS IN STARBURST NUCLEI
Period Obligations
 11/09/1992-03/31/1995 FY95: TOTAL: \$14,000
Prin. Invest. NASA Tech. Officer CASE Category
 W C KEEL GSFC/D WEST 11-Astronomy

NAG 8-240 University of Alabama - University 1213
 ELECTROMECHANICAL ACTUATORS FOR DEEP SPACE MISSION
Period Obligations
 07/01/1992-12/31/1995 FY95: TOTAL: \$228,737
Prin. Invest. NASA Tech. Officer CASE Category
 T HASKEW MSFC/R A WEIR 49-Engr, NEC
 J WANDER MSFC/M S HAMMOND

NAG 5-2402 University of Alabama - University 1206
 THE TEMPERATURE, ABUNDANCE, ABSORPTION, AND DARK MATTER DISTRIBUTION IN CLUSTERS OF GALAXIES
Period Obligations
 10/22/1993-10/31/1996 FY95: TOTAL: \$30,260
Prin. Invest. NASA Tech. Officer CASE Category
 M J HENRIKSEN GSFC/D WEST 11-Astronomy

NAG 8-279 University of Alabama - University 1214
 RESEARCH STUDY
Period Obligations
 01/14/1993-09/30/1996 FY95: \$63,733 TOTAL: \$170,522
Prin. Invest. NASA Tech. Officer CASE Category
 K W WHITAKER MSFC/W T POWERS 13-Physics
 K S KRISHNAKUMAR MSFC/A E COOPER

NAG 5-2529 University of Alabama - University 1207
 COOLING FLOWS IN THE CONTEXT OF HIERARCHICAL CLUSTERING: AN HRI STUDY OF PREMERGER SYSTEMS
Period Obligations
 02/21/1994-03/14/1996 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 M J HENRIKSEN GSFC/R PETRE 11-Astronomy

NAG 8-988 University of Alabama - University 1215
 PRESSURE RESEARCH
Period Obligations
 10/22/1993-09/15/1994 FY95: TOTAL: \$21,083
Prin. Invest. NASA Tech. Officer CASE Category
 R W WHITAKER MSFC/J VARGOS 46-Mech Engr

NAG 5-2574 University of Alabama - University 1208
 ABUNDANCE GRADIENTS IN INTRACLUSTER GAS
Period Obligations
 04/12/1994-04/14/1997 FY95: \$53,909 TOTAL: \$73,909
Prin. Invest. NASA Tech. Officer CASE Category
 R E WHITE III GSFC/N WHITE 11-Astronomy

NAG 8-1025 University of Alabama - University 1216
 AN INVESTIGATION OF FORCE FEEDBACK FOR TVX ELECTROMECHANICAL ACTUATORS
Period Obligations
 02/09/1994-05/30/1995 FY95: TOTAL: \$41,790
Prin. Invest. NASA Tech. Officer CASE Category
 J PARKER MSFC/J VARGAS 46-Mech Engr

NAG 5-2703 University of Alabama - University 1209
 ISM - IGM INTERACTIONS AND SPIRAL DISKS
Period Obligations
 08/24/1994-02/29/1996 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 W KEEL GSFC/R PETRE 11-Astronomy

NAG 8-1026 University of Alabama - University 1217
 TRIPROPELLANT TEAM ACTIVITY
Period Obligations
 01/19/1994-11/01/1994 FY95: TOTAL: \$1,431
Prin. Invest. NASA Tech. Officer CASE Category
 J A MARTIN MSFC/R F NIXON 41-Aero Engr

NAG 5-2779 University of Alabama - University 1210
 SPECTRAL OBSERVATIONS OF MERGERS SUBCLUSTERS OF GALAXIES
Period Obligations
 11/07/1994-05/14/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 M HENRIKSEN GSFC/N WHITE 11-Astronomy

NAG 8-1045 University of Alabama - University 1218
 STAGEWEIGHT ESTIMATING PROGRAM
Period Obligations
 02/03/1994-10/15/1994 FY95: TOTAL: \$4,749
Prin. Invest. NASA Tech. Officer CASE Category
 J A MARTIN MSFC/N S BROWN 41-Aero Engr

NAG 5-2990 University of Alabama - University 1211
 STAR FORMATION AND THE INTERSTELLAR MEDIUM IN SO GALAXIES USING ROSAT POINTED OBSERVATIONS
Period Obligations
 06/30/1995-07/14/1996 FY95: \$12,400 TOTAL: \$12,400
Prin. Invest. NASA Tech. Officer CASE Category
 P B ESKRIDGE GSFC/D WEST 11-Astronomy

NAG 8-1059 University of Alabama - University 1219
 ASSESSMENT OF IMPACT DAMAGE IN 18' DIAMETER FILAMENT WOUND COMPOSITE PRESSURE BOTTLES
Period Obligations
 06/14/1994-11/30/1995 FY95: TOTAL: \$43,409
Prin. Invest. NASA Tech. Officer CASE Category
 A L HIGHSMITH MSFC/F E LEDBETTER 46-Mech Engr
 MSFC/A T NETTLES

NAG 8-228 University of Alabama - University 1212
 COOLING FLOW SPECTRA IN GALAXY CLUSTERS
Period Obligations
 03/16/1992-03/14/1996 FY95: TOTAL: \$37,200
Prin. Invest. NASA Tech. Officer CASE Category
 R E WHITE MSFC/J VARGUS 11-Astronomy

NAG 8-1106 University of Alabama - University 1220
 ANALYSIS SUPPORT OF REUSABLE VEHICLES
Period Obligations
 03/09/1995-12/31/1995 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A MARTIN MSFC/U HUETER 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAG 9-625 University of Alabama - University 1221
AUTOMATING THE APPL OF GENETIC ALGORITHMS
Period Obligations
08/18/1992-05/31/1994 FY95: TOTAL: \$18,026
Prin. Invest. NASA Tech. Officer CASE Category
R E SMITH JSC/L WANG 51-Biological Sci

NCC 8-57 University of Alabama - University 1229
MICRO AND MACRO SEGREGATION IN ALLOYS SOLIDIFYING WITH
EQUIAXED MORPHOLOGY
Period Obligations
08/19/1994-08/18/1996 FY95: \$45,151 TOTAL: \$88,947
Prin. Invest. NASA Tech. Officer CASE Category
D M STEFANESCU MSFC/P A CURRERERI 47-Materials Engr
L NASTAC MSFC/R P SILVER

NAGW 3072 University of Alabama - University 1222
DEVELOPING SCIENTIFIC LITERACY THROUGH AEROSPACE
EDUCATION
Period Obligations
05/15/1992-08/15/1994 FY95: TOTAL: \$82,938
Prin. Invest. NASA Tech. Officer CASE Category
D W SUNAI HQ/D GALLAWAY 99-Multi-Discip
K W WHITAKER
L M FREEMAN

NGT 00-051-245 University of Alabama - University 1230
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/31/1994-08/14/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
A KATZ LARC/L EVANS 41-Aero Engr

NAGW 3785 University of Alabama - University 1223
THEORETICAL CALCULATION OF THE CONTINUOUS FAR-WING
Period Obligations
09/29/1993-08/14/1995 FY95: TOTAL: \$103,000
Prin. Invest. NASA Tech. Officer CASE Category
R H TIPPING HQ/J T BERGSTRALH 31-Atmos Sci

NGT 00-070-302 University of Alabama - University 1231
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
11/16/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
L T WORTZ HQ/F SIX 46-Mech Engr

NAGW 4405 University of Alabama - University 1224
PROJECT NOVA
Period Obligations
04/21/1995-12/31/1995 FY95: \$550,110 TOTAL: \$550,110
Prin. Invest. NASA Tech. Officer CASE Category
D SUNAL HQ/M HENDERSON 99-Multi-Discip
M FREEMAN

NGT 00-070-379 University of Alabama - University 1232
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
08/22/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
J K PARKER HQ/D K RUSSELL 46-Mech Engr

NAGW 4455 University of Alabama - University 1225
IONOSPHERE-PLASMASPHERE MODELING IN SUPPORT OF
SATELLITE GLOBAL IMAGING
Period Obligations
05/02/1995-06/30/1996 FY95: \$34,000 TOTAL: \$34,000
Prin. Invest. NASA Tech. Officer CASE Category
P G RICHARDS HQ/J BOHLIN 13-Physics

NGT 00-090-224 University of Alabama - University 1233
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
09/14/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
G SINGLETON HQ/D K RUSSELL 99-Multi-Discip

NAS 8-39715 University of Alabama - University 1226
PARTICLE INGULFMENT AND PUSHING BY SOLIDIFYING INTE
RFACES
Period Obligations
02/17/1993-02/16/1996 FY95: \$127,648 TOTAL: \$388,148
Prin. Invest. NASA Tech. Officer CASE Category
D M STEFANESCU MSFC/L JETER 19-Phys Sci, NEC
P A CURRERI
B K DHINDAW

NGT 00-090-285 University of Alabama - University 1234
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
09/22/1995-08/14/1996 FY95: \$12,000 TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
G SINGLETON HQ/D RUSSELL 45-Elec Engr

NCC 8-23 University of Alabama - University 1227
A STUDY OF THE USE OF CONTACT LOADING TO SIMULATE LOW
VELOCITY
Period Obligations
05/12/1993-05/11/1994 FY95: TOTAL: \$29,413
Prin. Invest. NASA Tech. Officer CASE Category
A L HIGHSMITH MSFC/F E LEDBETTER III 47-Materials Engr
MSFC/W J PATTERSON

NGT 1-52103 University of Alabama - University 1235
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
Period Obligations
06/13/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
G D LOCKETT LARC/C S BUTTRILL 41-Aero Engr
L M FREEMAN

NCC 8-34 University of Alabama - University 1228
SOLIDIFICATION PROCESSING TECH
Period Obligations
02/25/1994-02/29/1996 FY95: \$16,866 TOTAL: \$32,091
Prin. Invest. NASA Tech. Officer CASE Category
D M STEFANESCU MSFC/P A CURRERI 19-Phys Sci, NEC

NGT 1-52115 University of Alabama - University 1236
GRADUATE STUDENT RESEARCHER PROGRAM
Period Obligations
06/27/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
C J TUCKER LARC/R A THOMPSON 41-Aero Engr
K N FREEMAN LARC/R G WILMOTH

**NASA'S UNIVERSITY PROGRAM
ALABAMA (Continued)**

NAG 8-278 University of South Alabama 1237
RESEARCH STUDY
Period *Obligations*
12/17/1992-05/31/1995 FY95: TOTAL: \$107,499
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E SPALL MSFC/F SIX 19-Phys Sci, NEC
H A OMAR

ALASKA

NAG 5-2074 University of Alaska - Anchorage 1238
ANALYSIS OF ALASKAN ARCTIC LAKES
Period *Obligations*
09/01/1992-08/31/1994 FY95: TOTAL: \$16,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K M PETERSON GSFC/D K HALL 39-Env Sci, NEC

NCCW 42 University of Alaska - Anchorage 1239
ALASKA TECHNOLOGY TRANSFER ASSISTANCE CENTER
Period *Obligations*
06/28/1994-06/30/1996 FY95: \$1,660 TOTAL: \$321,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J FREDERICKS HQ/J ROOT 99-Multi-Discip

NAG 5-893 University of Alaska - Fairbanks 1240
CO-INVEST. PROPOSAL FOR CORNELL UNIV SOUNDING OF THE
CLEFT ION FOUNTAIN ENERGIZATION REGION (SCIFER)
Period *Obligations*
05/26/1992-03/31/1996 FY95: \$49,400 TOTAL: \$128,144
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C S DEEHR GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-699 University of Alaska - Fairbanks 1241
FACILITIES AND RESEARCH INSTRUMENTATION DEVELOPMENT AT
THE POKER FLAT RESEARCH RANGE
Period *Obligations*
04/14/1993-03/31/1996 FY95: \$43,406 TOTAL: \$7,586,906
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S A KASOFU GSFC/B J FLOWERS 31-Atmos Sci
GSFC/M J ELLIS

NAG 5-887 University of Alaska - Fairbanks 1242
MEASUREMENTS ON THE SNOW OF INTERIOR AND ARCTIC
ALASKA
Period *Obligations*
04/01/1987-07/31/1994 FY95: TOTAL: \$91,555
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C S BENSON GSFC/D K HALL 19-Phys Sci, NEC
GSFC/J L FOSTER

NAG 5-1097 University of Alaska - Fairbanks 1243
ATMOSPHERE IONOSPHERE MAGNETOSPHERE SYSTEM
Period *Obligations*
11/01/1988-03/31/1996 FY95: \$150,000 TOTAL: \$1,015,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M H REES GSFC/S A CURTIS 13-Physics
GSFC/M H ACUNA

NAG 5-1504 University of Alaska - Fairbanks 1244
A STUDY OF SOLAR WIND-MAGNETOSPHERE INTERACTION AT THE
DAYSIDE AND NIGHTSIDE MAGNETOPAUSE
Period *Obligations*
03/19/1991-11/30/1995 FY95: \$259,991 TOTAL: \$1,099,981
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L C LEE GSFC/T J BIRMINGHAM 13-Physics

NAG 5-1731 University of Alaska - Fairbanks 1245
A STUDY OF PHYSICAL STRUCTURAL FACTORS AFFECTING THE
SAR SIGNATURES OF ICE-COVERED ARCTIC AND SUB-AR
Period *Obligations*
08/01/1991-07/31/1994 FY95: TOTAL: \$154,105
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M O JEFFRIES GSFC/D K HALL 39-Env Sci, NEC
W F WEEKS

NAG 5-5000 University of Alaska - Fairbanks 1246
SHAPED CHARGE INJECTION OF FIELD ALIGNED BA AND CA
PLASMA TO INVESTIGATE THE PHYSICS OF MASSIVE VEPE
Period *Obligations*
03/29/1993-01/31/1996 FY95: \$131,600 TOTAL: \$410,383
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E WESCOTT GSFC/L J EARLY 13-Physics
GSFC/P H PLESS

NAG 5-5013 University of Alaska - Fairbanks 1247
MICRO-SCALE AURORAL IMAGING TO COMPLEMENT THE AURORAL
MICROPHYSICS ROCKET EXPERIMENT
Period *Obligations*
05/19/1993-12/31/1995 FY95: \$40,396 TOTAL: \$50,458
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T J HALLINAN GSFC/L J EARLY 11-Astronomy
GSFC/R H PLESS

NAG 5-5019 University of Alaska - Fairbanks 1248
VIDEO-IMAGING OF IONOSPHERIC-UPPER ATMOSPHERIC OPTICAL
FLASHES FROM AIRCRAFT
Period *Obligations*
03/10/1994-08/31/1996 FY95: \$913,823 TOTAL: \$1,335,158
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D D SENTMAN GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAGW 2165 University of Alaska - Fairbanks 1249
IMPACT OF STRATOSPHERIC AEROSOLS AND TROPOSPHERIC
CLOUDS OF STRATOSPHERIC PHOTODISSOCIATION HEATING
Period *Obligations*
06/20/1990-03/31/1996 FY95: \$95,388 TOTAL: \$423,345
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K STAMNES HQ/R D MCPETERS 31-Atmos Sci
HQ/M J PRATHER

NAGW 2519 University of Alaska - Fairbanks 1250
UTILIZATION OF SAR DATA IN ARCTIC HYDROLOGY MODELING
Period *Obligations*
07/25/1991-07/31/1994 FY95: TOTAL: \$334,490
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D L KANE HQ/R H THOMAS 39-Env Sci, NEC

NAGW 2614 University of Alaska - Fairbanks 1251
SATELLITE RADAR ALTIMETRY AND ICE SHEET DYNAMICS
Period *Obligations*
07/31/1991-06/30/1994 FY95: TOTAL: \$253,665
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C LINGLE HQ/R H THOMAS 39-Env Sci, NEC
HQ/R A SCHIFFER

**NASA'S UNIVERSITY PROGRAM
ALASKA (Continued)**

NAGW 2637 University of Alaska - Fairbanks 1252
THE SEA ICE CIRCULATION OF THE BERING SEA FROM ERS -1
SYNTHETIC APERTURE RADAR IMAGERY
Period *Obligations*
07/15/1991-12/31/1995 FY95: \$10,000 TOTAL: \$185,290
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H J NIEBAUER HQ/R H THOMAS 33-Oceanography

NAGW 3436 University of Alaska - Fairbanks 1259
MODEL AURORAL ELECTRON PRECIPITATION PATTERNS FOR
COUPLED THERMO. ION. SIM
Period *Obligations*
03/10/1993-03/31/1996 FY95: \$51,120 TOTAL: \$151,231
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J D CRAVEN HQ/M M MELLOTT 13-Physics
HQ/G L WITHBROE

NAGW 2716 University of Alaska - Fairbanks 1253
NAGW-2716/UNIV ALASKA INTERACTION BETWEEN ICE DEFO
RMATION, ICE THICKNESS DISTRIBUTIONS, ICE PROPERT
Period *Obligations*
09/25/1991-11/30/1995 FY95: TOTAL: \$314,454
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W WEEKS HQ/R A SCHIFFER 39-Env Sci, NEC
S LI HQ/D M BUTLER

NAGW 3441 University of Alaska - Fairbanks 1260
ASYMETRIC DEVELOPMENT OF THE AURORAL BULGE DURING
SUBSTORM EXPANSION
Period *Obligations*
03/10/1993-02/28/1996 FY95: \$49,730 TOTAL: \$144,637
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J D CRAVEN HQ/E C WHIPPLE 13-Physics
HQ/G L WITHBROE

NAGW 2827 University of Alaska - Fairbanks 1254
SAR INVESTIGATIONS OF GLACIERS IN NORTHWESTERN NOR TH
AMERICA
Period *Obligations*
01/03/1992-11/30/1994 FY95: TOTAL: \$234,253
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C S LINGLE HQ/R A SCHIFFER 39-Env Sci, NEC
HQ/D M BUTLER

NAGW 3727 University of Alaska - Fairbanks 1261
ELEVATION CHANGES OF MOUNTAIN GLACIERS AS MEASURED
BY AIRBORNE LASER ALTIMETRY
Period *Obligations*
09/10/1993-08/31/1996 FY95: \$405,399 TOTAL: \$533,528
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W D HARRISON HQ/R H THOMAS 39-Env Sci, NEC
K A ECHELMAYER HQ/R A SCHIFFER

NAGW 2829 University of Alaska - Fairbanks 1255
AN ARCTIC MODELING CENTER ON OCEAN ICE ATMOSPHERE
INTERACTIONS
Period *Obligations*
01/03/1992-12/31/1994 FY95: TOTAL: \$579,650
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G WELLER HQ/R A SCHIFFER 39-Env Sci, NEC
HQ/D M BUTLER

NAGW 3728 University of Alaska - Fairbanks 1262
EXPERIMENTAL STUDY OF PHYSICAL AND CHEMICAL PROPER TIES
OF CLOUD CONDENSATION NUCLEI
Period *Obligations*
09/03/1993-06/30/1996 FY95: \$146,185 TOTAL: \$378,387
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G E SHAW HQ/J T SUTTERS 31-Atmos Sci
R L BENNER HQ/A C JANETOS

NAGW 2857 University of Alaska - Fairbanks 1256
3-DIMENSIONAL MORPHOLOGY OF AURORAS BASED ON TRIAN
GULATION FROM THE SPACE SHUTTLE
Period *Obligations*
01/31/1992-03/31/1995 FY95: TOTAL: \$177,325
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T J HALINAN HQ/D L REASONER 13-Physics
HQ/J D BOHLIN

NAGW 4048 University of Alaska - Fairbanks 1263
FAST CONJUGATE AIRCRAFT OBSERVATIONS
Period *Obligations*
07/15/1994-06/30/1995 FY95: TOTAL: \$342,037
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H C HQ/R HOWARD 13-Physics
STENBAEK-NIELSEN HQ/J D BOHLIN

NAGW 2972 University of Alaska - Fairbanks 1257
INVESTIGATION OF THE ICE-TIDE INTERACTION IN THE A RCTIC
OCEAN
Period *Obligations*
03/20/1992-12/31/1994 FY95: TOTAL: \$321,063
Prin. Invest. *NASA Tech. Officer* *CASE Category*
Z KOWALIK HQ/R A SCHIFFER 33-Oceanography
HQ/D M BUTLER

NAGW 4235 University of Alaska - Fairbanks 1264
ASSEMBLY AND FUNCTION OF PRIMITIVE
Period *Obligations*
01/13/1995-12/31/1995 FY95: \$146,545 TOTAL: \$146,545
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J G HAWKINS HQ/A S MCGEE 49-Engr, NEC
HQ/G JOHNSTON

NAGW 3037 University of Alaska - Fairbanks 1258
COMPOSITION AND TEMPERATURES OF THE AURORAL IONOSP
HERE
Period *Obligations*
05/15/1992-03/31/1995 FY95: TOTAL: \$100,081
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D LUMMERZHEIM HQ/D L REASONER 13-Physics
HQ/J D BOHLIN

NAGW 4371 University of Alaska - Fairbanks 1265
ELEVATION CHANGES, INTERANNUAL VARIABILITY, AND ANTARCTIC
ICE SHEETS DYNAMICS FROM ERS, GEOSAT
Period *Obligations*
03/31/1995-01/31/1998 FY95: \$107,827 TOTAL: \$107,827
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C S LINGLE HQ/R H THOMAS 39-Env Sci, NEC
HQ/M BALTUCK

**NASA'S UNIVERSITY PROGRAM
ALASKA (Continued)**

NAS 3-26401 University of Alaska - Fairbanks 1266
 ACTS PROPAGATION EXPERIMENTS IN ALASKA
Period Obligations
 05/24/1993-12/31/1995 FY95: \$7 TOTAL: \$274,536
Prin. Invest. NASA Tech. Officer CASE Category
 C E MAYER LERC/R J GUNDERMAN 19-Phys Sci, NEC

NAS 5-31637 University of Alaska - Fairbanks 1267
 OPERATIONS AND MAINTENANCE OF POKER FLAT RESEARCH RANGE
Period Obligations
 11/01/1989-10/31/1994 FY95: TOTAL: \$18,103,844
Prin. Invest. NASA Tech. Officer CASE Category
 C DEEHR GSFC/W A BRENCE 31-Atmos Sci
 GSFC/C F MILLINER

NAS 5-32206 University of Alaska - Fairbanks 1268
 MAINTENANCE/MISSION SUPPORT OF POKER FLAT RESEARCH RANGE
Period Obligations
 10/31/1994-10/31/1999 FY95: \$2,488,818 TOTAL: \$2,488,818
Prin. Invest. NASA Tech. Officer CASE Category
 S SCHWATAL GSFC/M J FILLIS 31-Atmos Sci
 GSFC/B J FLOWERS

NAS 5-32393 University of Alaska - Fairbanks 1269
 OPERATION AND MANAGEMENT OF ALASKA SYNTHETIC APERTURE RADAR FACILITY
Period Obligations
 04/31/1993-04/01/1998 FY95: \$4,471,000 TOTAL: \$12,931,800
Prin. Invest. NASA Tech. Officer CASE Category
 G WELLER GSFC/G HUNOLT 39-Env Sci, NEC

NCA 5-112 University of Alaska - Fairbanks 1270
 PROCESSING SYNTHETIC APERTURE RADAR DATA
Period Obligations
 04/27/1988-02/29/1996 FY95: \$1,673,424 TOTAL: \$14,435,911
Prin. Invest. NASA Tech. Officer CASE Category
 J MILLER GSFC/G H TROFFORD 11-Astronomy
 W F WEEKS
 G WELLER

NCC 5-75 University of Alaska - Fairbanks 1271
 MODIS/SNOW MAPPING: IN-SITU MEASUREMENTS ON TE SN OW OF INTERIOR AND ARCTIC ALASKA
Period Obligations
 07/11/1994-07/31/1996 FY95: \$35,000 TOTAL: \$45,000
Prin. Invest. NASA Tech. Officer CASE Category
 C BENSON GSFC/D HALL 39-Env Sci, NEC

NCC 5-89 University of Alaska - Fairbanks 1272
 POSTSEISMIC DEFORMATION AFTER THE 1964 GREAT ALASK AN EARTHQUAKE: COLLABORATIVE RESEARCH WITH GODD.
Period Obligations
 05/05/1995-05/14/1996 FY95: \$14,991 TOTAL: \$14,991
Prin. Invest. NASA Tech. Officer CASE Category
 J FREYMUELLER GSFC/S C COHEN 32-Geological Sci
 M WYSS

NGT 00-030-039 University of Alaska - Fairbanks 1273
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/23/1991-02/28/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 E BREITENBERGER HQ/D M BUTLER 39-Env Sci, NEC
 G WENDLER HQ/G S WILSON

NGT 00-030-088 University of Alaska - Fairbanks 1274
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/06/1991-03/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W MASLOWSKI HQ/D M BUTLER 33-Oceanography
 Z KOWALIK HQ/G S WILSON

NGT 00-040-022 University of Alaska - Fairbanks 1275
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
 03/29/1991-02/28/1995 FY95: \$170,000 TOTAL: \$833,000
Prin. Invest. NASA Tech. Officer CASE Category
 J G HAWKINS HQ/E T SCHWARTZ 99-Multi-Discip

ARIZONA

NAG 1-562 Arizona State University 1276
 ELECTROMAGNETIC BACKSCATTERING BY CORNER REFLECTORS
Period Obligations
 01/22/1985-01/31/1996 FY95: TOTAL: \$359,790
Prin. Invest. NASA Tech. Officer CASE Category
 C A BALANIS LARC/M C GILREATH 45-Elec Engr

NAG 1-937 Arizona State University 1277
 TRANSITION STUDIES ON A SWEPT-WING MODEL
Period Obligations
 01/09/1989-05/15/1994 FY95: TOTAL: \$625,404
Prin. Invest. NASA Tech. Officer CASE Category
 W S SARIC LARC/J R DAGENHART 41-Aero Engr

NAG 1-1082 Arizona State University 1278
 ADVANCED ELECTROMAGNETIC METHODS FOR AEROSPACE VEHICLES
Period Obligations
 12/15/1989-06/30/1996 FY95: \$200,000 TOTAL: \$600,000
Prin. Invest. NASA Tech. Officer CASE Category
 C A BALANIS LARC/G C BARBER 45-Elec Engr
 LARC/T G CAMPBELL

NAG 1-1111 Arizona State University 1279
 CONTROL OF UNSTABLE WAVES IN THREE-DIMENSIONAL BOUNDARY LAYERS
Period Obligations
 03/01/1990-11/15/1995 FY95: \$27,206 TOTAL: \$255,202
Prin. Invest. NASA Tech. Officer CASE Category
 W S SARIC LARC/D M BUSHNELL 41-Aero Engr

NAG 1-1158 Arizona State University 1280
 NUMERICAL SIMULATION OF SWEPT-WING FLOWS.
Period Obligations
 07/09/1990-01/31/1996 FY95: \$16,500 TOTAL: \$201,500
Prin. Invest. NASA Tech. Officer CASE Category
 H L REED LARC/C L STRETT 41-Aero Engr
 LARC/A KUMAR

NAG 1-1341 Arizona State University 1281
 DYNAMICS AND CONTROL OF HYPERSONIC VEHICLES INCREMENTAL FUNDING THROUGH DECEMBER 31, 1991
Period Obligations
 09/17/1991-12/31/1993 FY95: TOTAL: \$167,425
Prin. Invest. NASA Tech. Officer CASE Category
 D K SCHMIDT LARC/I M GREGORY 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAG 1-1399 Arizona State University 1282
 A CONFERENCE ON NEAR-WALL TURBULANCE AND FLOWS
Period Obligations
 03/04/1992-06/30/1994 FY95: TOTAL: \$43,342
Prin. Invest. NASA Tech. Officer CASE Category
 R M SO LARC/T B GATSKI 41-Aero Engr
 B E LAUNDER
 C G SPEZIALE

NAG 1-1630 Arizona State University 1283
 HYBRID CEM TECHNIQUES FOR ADVANCED ANTENNA RADIATION
 PREDICTION CODES
Period Obligations
 06/07/1994-06/06/1996 FY95: \$27,000 TOTAL: \$77,187
Prin. Invest. NASA Tech. Officer CASE Category
 J T ABERLE LARC/D G SHIVELY 45-Elec Engr
 C BALANIS LARC/F B BECK

NAG 1-1648 Arizona State University 1284
 MODELING AND ANALYSIS OF COMPOSITE WING SECTIONS FOR
 IMPROVED AEROELASTIC AND VIBRATION
Period Obligations
 10/28/1994-12/31/1995 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 A CHATTOPADHYAY LARC/J HEEG 41-Aero Engr

NAG 1-1722 Arizona State University 1285
 NEAR WALL SECOND-RODER MODELING WITHOUT WALL NORMA
 LS
Period Obligations
 04/21/1995-04/20/1996 FY95: \$22,063 TOTAL: \$22,063
Prin. Invest. NASA Tech. Officer CASE Category
 R C SO LARC/T B GATSKI 41-Aero Engr

NAG 1-1731 Arizona State University 1286
 ANISOPARAMETRIC NONLINEAR BEAM AND SHELL ELEMENTS MY
 1/3
Period Obligations
 05/26/1995-05/31/1996 FY95: \$34,753 TOTAL: \$34,753
Prin. Invest. NASA Tech. Officer CASE Category
 E MADENCI LARC/L TESSLER 41-Aero Engr

NAG 2-771 Arizona State University 1287
 OPTIMUM DESIGN OF HIGH-SPEED PROP-ROTORs
Period Obligations
 03/26/1992-06/30/1996 FY95: \$28,300 TOTAL: \$86,296
Prin. Invest. NASA Tech. Officer CASE Category
 A CHATTOPADHYAY ARC/S KOTTAPALLI 41-Aero Engr
 ARC/J J TOTAH

NAG 2-882 Arizona State University 1288
 GENETIC ALGORITHMS IN CONCEPTUAL DESIGN OF A LIGHT
 -WEIGHT, LOW NOISE, TILT-ROTOR AIRCRAFT
Period Obligations
 02/15/1994-05/14/1995 FY95: TOTAL: \$74,672
Prin. Invest. NASA Tech. Officer CASE Category
 V WELLS ARC/T L GALLOWAY 41-Aero Engr
 D LAANANEN ARC/J D PHILLIPS

NAG 2-908 Arizona State University 1289
 DEVELOPMENT OF A COMPOSITE TAILORING PROCEDURE FOR
 AIRPLANE WING
Period Obligations
 06/15/1994-09/30/1995 FY95: \$61,004 TOTAL: \$81,153
Prin. Invest. NASA Tech. Officer CASE Category
 A CHATTOPADHYAY ARC/H MIURA 41-Aero Engr
 ARC/A SHAHN

NAG 2-918 Arizona State University 1290
 PROP ROTOR ACOUSTICS FOR CONCEPTUAL DESIGN
Period Obligations
 07/15/1994-08/31/1995 FY95: \$25,673 TOTAL: \$50,673
Prin. Invest. NASA Tech. Officer CASE Category
 V L WELLS ARC/D R SCHLEICHER 41-Aero Engr
 ARC

NAG 2-990 Arizona State University 1291
 MULTIREOLUTION AND EXPLICIT METHODS FOR VECTOR FIEL D
 ANALYSIS AND VISUALIZATION
Period Obligations
 07/25/1995-07/31/1996 FY95: \$88,972 TOTAL: \$88,972
Prin. Invest. NASA Tech. Officer CASE Category
 G M NIELSON ARC/A VAZIRI 22-Computer Science
 ARC/T A LASINSKI

NAG 5-481 Arizona State University 1292
 ULTRAVIOLET OBSERVATIONS OF GALACTEC VOVOE IN
 OUTBURST
Period Obligations
 10/01/1984-01/31/1995 FY95: TOTAL: \$209,579
Prin. Invest. NASA Tech. Officer CASE Category
 S G STARRFIELD GSFC/D K WEST 11-Astronomy
 S KENYON
 G FERLAND

NAG 5-996 Arizona State University 1293
 THE PRECESSING ACCRETION DISK IN THE BLACK-HOLE BI NARY
 LMC X-3
Period Obligations
 09/01/1987-01/31/1995 FY95: TOTAL: \$112,955
Prin. Invest. NASA Tech. Officer CASE Category
 A P COWLEY GSFC/D K WEST 11-Astronomy
 F D HARTWICK

NAG 5-1802 Arizona State University 1294
 ANALYSIS OF IUE SPECTRA OF NOVAE IN OUTBURST
Period Obligations
 09/18/1991-09/30/1996 FY95: TOTAL: \$87,913
Prin. Invest. NASA Tech. Officer CASE Category
 S G STARRFIELD GSFC/D WEST 11-Astronomy

NAG 5-2101 Arizona State University 1295
 THE UV SPECTRUM OF THE LOW-MASS X-RAY BINARY 2S092
 1-630
Period Obligations
 09/15/1992-03/31/1994 FY95: TOTAL: \$5,958
Prin. Invest. NASA Tech. Officer CASE Category
 P C SCHMIDTKE GSFC/D WEST 11-Astronomy

NAG 5-2322 Arizona State University 1296
 A ROSAT DEEP SURVEY OF THE BEST STUDIES HIGH LATIT UDE
 AREAS
Period Obligations
 07/22/1993-07/31/1994 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A WINDHORST GSFC/R PETRE 11-Astronomy

NAG 5-2553 Arizona State University 1297
 COMPLETION OF A STUDY OF GLOBAL PROPERTIES OF LMC
 STELLAR X-RAY SOURCES
Period Obligations
 03/14/1994-03/31/1995 FY95: TOTAL: \$51,000
Prin. Invest. NASA Tech. Officer CASE Category
 A P CONWAY GSFC/R PETRE 11-Astronomy

NASA'S UNIVERSITY PROGRAM

ARIZONA (Continued)

NAG 5-2832 Arizona State University 1298
 SEARCHING FOR DISK MATTER: ROSAT OBSERVATIONS OF POOR GROUPS OF GALAXIES
Period Obligations
 12/14/1994-12/14/1995 FY95: \$15,553 TOTAL: \$15,553
Prin. Invest. NASA Tech. Officer CASE Category
 D BURSTEIN GSFC/R WHITE 11-Astronomy

NAGW 943 Arizona State University 1306
 THERMAL INFRARED SPECTRAL MEASUREMENTS OF GEOLOGIC MATERIAL
Period Obligations
 07/15/1986-12/31/1995 FY95: \$76,000 TOTAL: \$601,070
Prin. Invest. NASA Tech. Officer CASE Category
 P R CHRISTENSEN HQ/J UNDERWOOD 32-Geological Sci
 HQ/J M BOYCE

NAG 5-3004 Arizona State University 1299
 STUDIES OF MAGELLANIC CLOUD X-RAY SOURCES USING ROSAT AND HEAO-2 ARCHIVAL DATA
Period Obligations
 07/14/1995-07/31/1996 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 A P COWLEY GSFC/D WEST 11-Astronomy

NAGW 1306 Arizona State University 1307
 MAPPING PLANETARY AND SATELLITE SURFACES
Period Obligations
 08/21/1988-06/30/1996 FY95: TOTAL: \$513,503
Prin. Invest. NASA Tech. Officer CASE Category
 R GREELEY HQ/J M BOYCE 32-Geological Sci
 HQ/D H SCOTT

NAG 5-3067 Arizona State University 1300
 MODEL ATMOSPHERES FOR NOVAE IN OUTBURST
Period Obligations
 09/05/1995-09/14/1996 FY95: \$38,900 TOTAL: \$38,900
Prin. Invest. NASA Tech. Officer CASE Category
 P H HAUSCHILD GSFC/D WEST 11-Astronomy

NAGW 1395 Arizona State University 1308
 EVOLUTION OF PHOTOSYNTHESIS
Period Obligations
 08/08/1988-06/30/1996 FY95: \$114,998 TOTAL: \$487,445
Prin. Invest. NASA Tech. Officer CASE Category
 R E BLANKENSHIP HQ/J D RUMMEL 51-Biological Sci

NAG 5-3068 Arizona State University 1301
 STUDIES OF CLASSICAL NOVAE: CONFRONTATION OF THEORY WITH OBSERVATIONS
Period Obligations
 09/05/1995-09/14/1996 FY95: \$27,746 TOTAL: \$27,746
Prin. Invest. NASA Tech. Officer CASE Category
 S G STARRFIELD GSFC/D WEST 11-Astronomy

NAGW 1774 Arizona State University 1309
 GEOLOGIC MAPPING OF HADRIACA PATERA AND TYRRHENA PATERA
Period Obligations
 06/21/1989-03/31/1997 FY95: \$26,000 TOTAL: \$97,554
Prin. Invest. NASA Tech. Officer CASE Category
 R GREELEY HQ/J R UNDERWOOD 32-Geological Sci

NAG 8-1035 Arizona State University 1302
 TEMPORAL AND SPECTRAL VARIATIONS OF 2S 0921-630 AND LMC X-2
Period Obligations
 02/11/1994-02/10/1996 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 P C SCHMIDTKE MSFC/J VARGAS 11-Astronomy

NAGW 1899 Arizona State University 1310
 ORGANIC CHEMISTRY OF CARBONACEOUS METEORITES
Period Obligations
 10/31/1989-09/30/1995 FY95: \$105,000 TOTAL: \$590,000
Prin. Invest. NASA Tech. Officer CASE Category
 J R CRONIN HQ/J D RUMMEL 32-Geological Sci

NAG 9-815 Arizona State University 1303
 DEVELOPE MICROFLOW BIOCHEMICAL SENSORS
Period Obligations
 08/07/1995-06/30/1996 FY95: \$146,000 TOTAL: \$146,000
Prin. Invest. NASA Tech. Officer CASE Category
 B TOWE JSC/N PELLIS 49-Engr, NEC

NAGW 2064 Arizona State University 1311
 NAGW-2064/ARIZONA STATE UNIV/STUDIES OF MARTIAN AEOLIAN GEOLOGY
Period Obligations
 05/04/1990-09/30/1996 FY95: \$85,000 TOTAL: \$464,998
Prin. Invest. NASA Tech. Officer CASE Category
 R GREELEY HQ/T A MAXWELL 32-Geological Sci

NAGW 529 Arizona State University 1304
 FIELD MEASUREMENTS OF THE 1983 EAST RIFT BASALT FLOWS AT KITAUUA VOLCANO
Period Obligations
 03/01/1984-12/31/1996 FY95: \$76,044 TOTAL: \$435,504
Prin. Invest. NASA Tech. Officer CASE Category
 J FINK HQ/J R UNDERWOOD 32-Geological Sci
 HQ/J M BOYCE

NAGW 2102 Arizona State University 1312
 GEOLOGICAL STUDIES IN PLANETOLOGY
Period Obligations
 05/04/1990-09/30/1995 FY95: \$186,900 TOTAL: \$1,289,699
Prin. Invest. NASA Tech. Officer CASE Category
 R GREELEY HQ/T A MAXWELL 32-Geological Sci

NAGW 547 Arizona State University 1305
 SPECTROSCOPY OF COMETS
Period Obligations
 02/15/1984-11/30/1993 FY95: TOTAL: \$614,122
Prin. Invest. NASA Tech. Officer CASE Category
 S WYCKOFF HQ/H C BRINTON 11-Astronomy
 HQ/J H RAHE

NAGW 2241 Arizona State University 1313
 NAGW-2241/ARIZONA STATE UNIV/COMETS AS PROBES OF A STAR-FORMING ENVIRONMENT
Period Obligations
 05/23/1981-10/31/1995 FY95: \$45,000 TOTAL: \$145,200
Prin. Invest. NASA Tech. Officer CASE Category
 S WYCKOFF HQ/J A NUTH 19-Phys Sci, NEC

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAGW 4592 Arizona State University 1331
 PLANETARY DATA SYSTEM SPACEBORNE THERMAL DATA
Period Obligations
 07/07/1995-05/31/1996 FY95: \$46,250 TOTAL: \$46,250
Prin. Invest. NASA Tech. Officer CASE Category
 P CHRISTENSEN HQ/M BERGSTRAHL 11-Astronomy

NAGW 4694 Arizona State University 1332
 DEVELOPMENT OF A SMALL INFRARED SPECTROMETER FOR D
 ISCOVERY AND SURVEYOR MISSIONS
Period Obligations
 08/11/1995-03/31/1997 FY95: \$192,598 TOTAL: \$192,598
Prin. Invest. NASA Tech. Officer CASE Category
 P CHRISTENSEN HQ/T KOSTLUK 99-Multi-Discip

NAS 5-31371 Arizona State University 1333
 EOS INVESTIGATION 'ADVANCED SPACEBORNE THERMAL EMISSION
 AND REFLECTION'
Period Obligations
 12/23/1991-12/22/2001 FY95: \$141,250 TOTAL: \$323,750
Prin. Invest. NASA Tech. Officer CASE Category
 P CHRISTENSEN GSFC/H BLODGET 39-Env Sci, NEC

NCA 2-778 Arizona State University 1334
 MULTIDISCIPLINARY DESIGN OPTIMIZATION USING MULTIO
 BJECTIVE FORMULATION TECHNIQUES
Period Obligations
 02/04/1993-07/14/1995 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 A CHATTOPADHYAY ARC/T A EDWARDS 41-Aero Engr

NCC 1-194 Arizona State University 1335
 EFFECTS OF SUCTION ON SWEEP-WING TRANSITION
Period Obligations
 06/17/1994-11/08/1995 FY95: \$99,993 TOTAL: \$179,940
Prin. Invest. NASA Tech. Officer CASE Category
 W S SARIC LARC/J R DAGENHART 41-Aero Engr
 M REIBERT LARC/M J WALSH
 H REED

NCC 2-346 Arizona State University 1336
 LABORATORY SIMULATIONS OF MARTIAN AND VENUSIAN
 AEOPROCESSES
Period Obligations
 03/01/1985-05/31/1996 FY95: \$210,929 TOTAL: \$1,200,965
Prin. Invest. NASA Tech. Officer CASE Category
 R GREELEY ARC/B F SMITH 32-Geological Sci
 J MARSHALL HQ/J P POLLAEF

NCC 2-795 Arizona State University 1337
 AN INTEGRATED OPTIMUM DESIGN APPROACH FOR HIGH SPE ED
 PROP-ROTORS INCLUDING ACCOUSTIC CONSTRAINTS
Period Obligations
 05/06/1993-06/30/1995 FY95: TOTAL: \$103,457
Prin. Invest. NASA Tech. Officer CASE Category
 A CHATTOPADHYAY ARC/S B KOTTAPALLI 41-Aero Engr
 ARC/P D PALBOT

NCC 2-5064 Arizona State University 1338
 DEVELOPMENT OF MULTIOBJECTIVE OPTIMIZATION TECHNIQ UES
 FOR SONIC BOOM MINIMIZATION
Period Obligations
 06/03/1994-05/15/1996 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 A CHATTOPADHYAY ARC/E TU 41-Aero Engr
 J R NARAYAN

NCC 2-5127 Arizona State University 1339
 DEVELOPMENT OF CONTINUOUS AND DISCRETE APPROACHES FOR
 AERODYNAMIC SENSITIVITY ANALYSIS
Period Obligations
 05/02/1995-04/30/1997 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 A CHATTOPADHYAY ARC/E TU 46-Mech Engr
 J R NARAYAN

NCC 2-5150 Arizona State University 1340
 ENHANCED MULTIOBJECTIVE OPTIMIZATION PROCEDURE FOR
 CFD-BASED DESIGN
Period Obligations
 08/09/1995-09/14/1996 FY95: \$50,585 TOTAL: \$50,585
Prin. Invest. NASA Tech. Officer CASE Category
 A CHATTOPADHYAY ARC/E TU 41-Aero Engr
 J R NARAYAN

NGT 00-010-027 Arizona State University 1341
 MEASUREMENT OF MICROPARTICLES IN LOW EARTH ORBIT O N
 BOARD THE SATELLITE ASUSAT1
Period Obligations
 08/12/1994-11/30/1995 FY95: TOTAL: \$38,000
Prin. Invest. NASA Tech. Officer CASE Category
 H REED HQ/L KEFFER 42-Astro Engr

NGT 00-030-347 Arizona State University 1342
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/31/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R I DOM HQ/G ASRAR 32-Geological Sci

NGT 00-050-745 Arizona State University 1343
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/22/1991-08/15/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 H L REED HQ/F C OWENS 42-Astro Engr

NGT 2-52204 Arizona State University 1344
 A NOVEL METHOD FOR REDUCING ROTOR BLADE-VORTEX INT
 ERACTION NOISE
Period Obligations
 09/14/1995-07/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 V L WELLS ARC/F H SCHITZ 41-Aero Engr
 A T GLINKA

NAGW 2732 Navajo Community College 1345
 NAVAJO COMMUNITY SUMMER INSTITUTE
Period Obligations
 09/12/1991-06/07/1995 FY95: TOTAL: \$287,501
Prin. Invest. NASA Tech. Officer CASE Category
 T GORMAN-KEITH HQ/B WHITE 99-Multi-Discip

NAGW 4236 Navajo Community College 1346
 TELECOMMUNICATIONS INFRASTRUCTURE DEVELOPMENT PROJ
 ECT
Period Obligations
 02/22/1995-12/31/1995 FY95: \$154,996 TOTAL: \$154,996
Prin. Invest. NASA Tech. Officer CASE Category
 A KUSLIKIS HQ/F SULZMAN 59-Life Sci, NEC
 HQ/V THORNE

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAG 2-6003 Northern Arizona University 1347
 PATHWAYS LEADING TO SUCCESS (PALS)
Period Obligations
 08/29/1994-08/31/1996 FY95: \$29,100 TOTAL: \$58,600
Prin. Invest. NASA Tech. Officer CASE Category
 L E JOHNSON ARC/D M COOPER 49-Engr, NEC

NAGW 4232 Northern Arizona University 1356
 RESEARCH IN ORIGINS OF SOLAR SYSTEMS AT NAU
Period Obligations
 12/22/1994-09/30/1997 FY95: \$70,080 TOTAL: \$70,080
Prin. Invest. NASA Tech. Officer CASE Category
 B LUTZ HQ/J RAHE 11-Astronomy

NAG 5-1761 Northern Arizona University 1348
 ACCURATE DETERMINATION OF LUNAR PHOTOMETRY
Period Obligations
 09/13/1991-12/31/1994 FY95: TOTAL: \$277,900
Prin. Invest. NASA Tech. Officer CASE Category
 R L WILDEY GSFC/B W GUENTHER 11-Astronomy

NAGW 4545 Northern Arizona University 1357
 OUTFLOW CHANNELS OF MARS, THE ICE PERSPECTIVE
Period Obligations
 06/02/1995-05/31/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 B LUCCHITTA HQ/H BRINTON 11-Astronomy

NAG 5-2159 Northern Arizona University 1349
 TO ESTABLISH THE MOON AS A RADIANCE STANDARD
Period Obligations
 12/14/1992-07/14/1996 FY95: \$87,848 TOTAL: \$226,248
Prin. Invest. NASA Tech. Officer CASE Category
 R L WILDEY GSFC/B W GUENTHER 39-Env Sci, NEC

NAGW 4643 Northern Arizona University 1358
 RELATIVE ABUNDANCE OF ICES IN DISKS OF T TAURI STARS
Period Obligations
 07/18/1995-06/30/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 S TEGLER HQ/P G ROGERS 11-Astronomy

NAG 8-1118 Northern Arizona University 1350
 JOVE
Period Obligations
 01/12/1995-01/11/1996 FY95: \$19,999 TOTAL: \$19,999
Prin. Invest. NASA Tech. Officer CASE Category
 P MORGAN MSFC/F SIX 32-Geological Sci

NGT 00-010-015 Northern Arizona University 1359
 NGT-10015/NORTHERN ARIZONA UNIV/EDUCAT TRAINING EX PERI
 IN SOLAR SYSTEM ASTRONOMY
Period Obligations
 12/01/1993-11/30/1995 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 B L LUTZ HQ/E T SCHWARTZ 11-Astronomy

NAG 9-518 Northern Arizona University 1351
 UNIV JOINT VENTURE IN SPACE SCIENCE
Period Obligations
 05/09/1991-05/01/1995 FY95: TOTAL: \$113,996
Prin. Invest. NASA Tech. Officer CASE Category
 H O HOOPER JSC/S GOLDSTEIN 11-Astronomy

NGT 00-090-028 Northern Arizona University 1360
 NATIVE AMERICAN SCIENCE AND ENGINEERING ADVANCEMENT
 PROGRAM
Period Obligations
 11/14/1989-05/31/1995 FY95: TOTAL: \$737,137
Prin. Invest. NASA Tech. Officer CASE Category
 C N HOLLAND HQ/Y B FREEMAN 49-Engr, NEC
 J GRAY

NAGW 2303 Northern Arizona University 1352
 TROJAN ASTEROIDS AS WITNESSES TO THE ORIGIN OF THE GREAT
 PLANETS
Period Obligations
 06/13/1991-10/31/1995 FY95: TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
 C S SHOEMAKER HQ/J A NUTH 19-Phys Sci, NEC

NAG 1-1422 University of Arizona 1361
 NUMERICAL SIMULATION OF RECEPTIVITY AND TRANSITION IN A
 BOUNDARY LAYER ON A FLAT PLATE WITH SUCTION
Period Obligations
 04/29/1992-12/22/1995 FY95: TOTAL: \$106,500
Prin. Invest. NASA Tech. Officer CASE Category
 H F FASEL LARC/C L STREETT 41-Aero Engr
 LARC/A KUMAR

NAGW 2811 Northern Arizona University 1353
 SOLAR SYSTEM SPECTROSCOPY
Period Obligations
 01/03/1992-04/30/1996 FY95: \$70,000 TOTAL: \$316,499
Prin. Invest. NASA Tech. Officer CASE Category
 B L LUTZ HQ/W L QUAIDE 11-Astronomy

NAG 1-1611 University of Arizona 1362
 AN EXPERIMENTAL STUDY OF A CAPTURED LARGE VORTEX WHICH
 ALSO CONTAINS AXIAL FLOWS
Period Obligations
 04/11/1994-06/05/1996 FY95: \$40,012 TOTAL: \$93,712
Prin. Invest. NASA Tech. Officer CASE Category
 I J WYGNANSKI LARC/K B PASCHAL 41-Aero Engr

NAGW 3847 Northern Arizona University 1354
 NAGW-3847/B NORTHERN ARIZ. UNIV. 'ORIGIN AND EVOLU TION
 OF TITAN'S ATMOSPHERE'
Period Obligations
 01/12/1994-11/30/1996 FY95: \$70,080 TOTAL: \$140,160
Prin. Invest. NASA Tech. Officer CASE Category
 C GRIFFITH HQ/J H RAHE 11-Astronomy

NAG 1-1626 University of Arizona 1363
 IMPLEMENTATION OF FREE-FORMULATION-BASED FLAT SHELL AND
 BEAM ELEMENTS INTO THE NASA COMET CODE,
Period Obligations
 05/25/1994-05/24/1995 FY95: \$6,514 TOTAL: \$26,514
Prin. Invest. NASA Tech. Officer CASE Category
 E MADENCI LARC/A TESSLER 46-Mech Engr

NAGW 3906 Northern Arizona University 1355
 NAGW-3906/B NORTHERN ARIZONA UNIV. ' NIZHONI ACADE MY'
 12-MONTH AWARD
Period Obligations
 04/06/1994-02/29/1996 FY95: \$60,000 TOTAL: \$111,210
Prin. Invest. NASA Tech. Officer CASE Category
 A TANAKAYOWMA HQ/B L WHITE 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAG 1-1629 University of Arizona 1364
RESEARCH ON ACTIVE SONIC BOOM ABATEMENT RESEARCH ON
ACTIVE SONIC BOOM ABATEMENT
Period Obligations
05/18/1994-09/30/1995 FY95: TOTAL: \$70,100
Prin. Invest. NASA Tech. Officer CASE Category
S C CROW LARC/C M DARDEN 41-Aero Engr

NAG 2-906 University of Arizona 1372
RESEARCH CONCERNING THE NET FLUX OF RADIATION IN T HE
ATMOSPHERE OF JUPITER
Period Obligations
06/15/1994-09/30/1996 FY95: \$74,991 TOTAL: \$99,985
Prin. Invest. NASA Tech. Officer CASE Category
M G TOMASKO ARC/L E LASHER 31-Atmos Sci
ARC/R E YOUNG

NAG 1-1652 University of Arizona 1365
DEVELOPMENT OF A METHODOLOGY FOR PREDICTING THE RE
SIDUAL STRENGTH OF AIRCRAFT STRUCTURES
Period Obligations
12/07/1994-09/30/1995 FY95: \$33,475 TOTAL: \$33,475
Prin. Invest. NASA Tech. Officer CASE Category
E MADENCI LARC/J H STARNES 41-Aero Engr
LARC/V O BRITT

NAG 2-949 University of Arizona 1373
ENSEMBLE NEURAL CODING OF PLACE AND DIRECTION IN ZER
O-G
Period Obligations
12/20/1994-11/30/1995 FY95: \$151,922 TOTAL: \$151,922
Prin. Invest. NASA Tech. Officer CASE Category
B L MCNAUGHTON ARC/W E HINDS 51-Biological Sci
ARC/C M WINGET

NAG 1-1686 University of Arizona 1366
DEVELOPMENT OF GLOBAL-LOCAL FINITE ELEMENT ANALYSI S
FOR THERMO-MECHANICAL STRESSES IN BONDED DISSIMI
Period Obligations
01/23/1995-01/22/1996 FY95: \$40,357 TOTAL: \$40,357
Prin. Invest. NASA Tech. Officer CASE Category
E MADENCI LARC/C J CAMARDA 42-Astro Engr

NAG 2-957 University of Arizona 1374
MID-IR SPECTROSCOPY OF MERCURY'S SURFACE COMPOSITI ON
Period Obligations
01/25/1995-03/31/1996 FY95: \$32,000 TOTAL: \$32,000
Prin. Invest. NASA Tech. Officer CASE Category
A L SPRAGUE ARC/C D LAUGHLIN 11-Astronomy
ARC/C M GILLESPIE JR

NAG 2-143 University of Arizona 1367
PARTICIPATION IN THE PIONEER VENUS MISSION
Period Obligations
10/01/1981-09/30/1993 FY95: TOTAL: \$698,083
Prin. Invest. NASA Tech. Officer CASE Category
D M HUNTEN ARC/L E LASHER 19-Phys Sci, NEC
ARC/R A CRAIG

NAG 2-998 University of Arizona 1375
SOFIA SCIENCE WORKING GROUP
Period Obligations
08/25/1995-05/31/1996 FY95: \$12,347 TOTAL: \$12,347
Prin. Invest. NASA Tech. Officer CASE Category
H P LARSON ARC/E F ERICKSON 11-Astronomy

NAG 2-206 University of Arizona 1368
INFRARED SPECTROSCOPY OF PLANETARY ATMOSPHERES FROM
THE KUIPER AIRBORNE OBSERVATORY
Period Obligations
11/01/1987-10/31/1994 FY95: TOTAL: \$2,178,831
Prin. Invest. NASA Tech. Officer CASE Category
H P LARSON ARC/C D LAUGHLIN 11-Astronomy
D S DAVIS
J H BLACK

NAG 3-1268 University of Arizona 1376
FLUID MECHANICS OF DIRECTIONAL SOLIDIFICATION AT R EDUCED
GRAVITY
Period Obligations
04/09/1992-11/31/1994 FY95: TOTAL: \$225,000
Prin. Invest. NASA Tech. Officer CASE Category
C F CHEN LERC/T K GLASGOW 47-Materials Engr

NAG 2-392 University of Arizona 1369
MECHANISTIC STUDIES ON REDUCED EXERCISE PERFORMANCAND
CARDIAC DECONDITIONING WITH SIMULATED ZERO GRA
Period Obligations
04/15/1986-03/31/1995 FY95: TOTAL: \$785,809
Prin. Invest. NASA Tech. Officer CASE Category
C M TIPTON ARC/A R HARGERS 59-Life Sci, NEC
J M OVERTON

NAG 3-1386 University of Arizona 1377
MARANGONI AND DOUBLE-DIFFUSIVE CONVECTION IN A FLUID
LAYER UNDER MICROGRAVITY
Period Obligations
11/30/1992-11/30/1995 FY95: \$103,082 TOTAL: \$300,000
Prin. Invest. NASA Tech. Officer CASE Category
C F CHEN LERC/J A SALZMAN 19-Phys Sci, NEC

NAG 2-847 University of Arizona 1370
THE SYMPOSIUM ON AERODYNAMICS AND AEROACOUSTICS
Period Obligations
06/16/1993-12/31/1993 FY95: TOTAL: \$4,932
Prin. Invest. NASA Tech. Officer CASE Category
K Y FUNG ARC/S DAVIS 41-Aero Engr

NAG 3-1442 University of Arizona 1378
A THEORETICAL STUDY OF LEADING-EDGE DEVICES FOR AC TIVE
AND PASSIVE CONTROL OF WAKE-AIRFOIL INTERACT N
Period Obligations
01/19/1993-04/01/1995 FY95: TOTAL: \$113,901
Prin. Invest. NASA Tech. Officer CASE Category
E KERSCHEN LERC/L J HEIDELBERG 41-Aero Engr

NAG 2-901 University of Arizona 1371
MID-IR SPECTROSCOPY OF THE JOVIAN STRATOSPHERE PER
TURBED BY COMET P/SHOMAKER-LEVY IMPACT
Period Obligations
05/18/1994-01/14/1995 FY95: TOTAL: \$46,830
Prin. Invest. NASA Tech. Officer CASE Category
D M HUNTEN ARC/C D LAUGHLIN 11-Astronomy
ARC/C M GILLESPIE

NAG 3-1446 University of Arizona 1379
COMPUTER SIM;ULATIONS OF DENDRITIC ALLOYS SOLIDIFI ED IN
TERRESTRIAL AND LOW-GRAVITY ENVIRONMENTS
Period Obligations
02/08/1993-01/31/1996 FY95: \$79,278 TOTAL: \$241,254
Prin. Invest. NASA Tech. Officer CASE Category
D R POIRIER LERC/A CHAIT 47-Materials Engr
LERC/E NELSON

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAG 3-1499 University of Arizona 1380
 ADVANCED CONCENTRATOR ARRAY DEVELOPMENT
Period Obligations
 06/15/1993-10/31/1995 FY95: TOTAL: \$125,000
Prin. Invest. NASA Tech. Officer CASE Category
 P A FRANKEN LERC/D J FLOOD 42-Astro Engr
 V M ANDREEV LERC/H B CURTIS

NAG 5-1572 University of Arizona 1388
 STUDY THERMAL CONTROL SYSTEMS FOR LOW TEMPERATURE
 HEAT REJECTION
Period Obligations
 05/20/1991-08/14/1995 FY95: TOTAL: \$182,912
Prin. Invest. NASA Tech. Officer CASE Category
 K R SRIDHAR GSFC/T D SWANSON 41-Aero Engr

NAG 3-1524 University of Arizona 1381
 ASYMPTOTIC THEORY FOR DISTRIBUTED RECEPTIVITY
Period Obligations
 09/14/1993-09/16/1995 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 E J KERSCHEN LERC/L S HULTGREEN 41-Aero Engr

NAG 5-1642 University of Arizona 1389
 INTERACTION OF TERRESTRIAL AND ATMOSPHERIC HYDROLOGICAL
 CYCLES IN THE CONTEXT OF THE NORTH AMERICAN
Period Obligations
 08/01/1991-07/31/1995 FY95: TOTAL: \$322,000
Prin. Invest. NASA Tech. Officer CASE Category
 R E DICKINSON GSFC/W LAU 31-Atmos Sci

NAG 3-1755 University of Arizona 1382
 INTERPLANETARY MISSIONS USING SOLAR ELECTRIC PROPULSION
Period Obligations
 05/31/1995-01/30/1996 FY95: \$15,356 TOTAL: \$15,356
Prin. Invest. NASA Tech. Officer CASE Category
 M V SYKES LERC/J M HICKMAN 42-Astro Engr

NAG 5-1712 University of Arizona 1390
 ASSESSMENT OF A PROTOTYPE SUNPHOTOMETER FOR NETWORK
 APPLICATIONS-PHASE I
Period Obligations
 08/01/1991-09/14/1994 FY95: TOTAL: \$40,001
Prin. Invest. NASA Tech. Officer CASE Category
 J A REAGAN GSFC/B N HOLBEN 22-Computer Science

NAG 3-1769 University of Arizona 1383
 A THEORETICAL STUDY OF LEADING-EDGE DEVICES FOR ACTIVE
 AND PASSIVE CONTROL OF WAKE-AIRFOIL INTERACTION
Period Obligations
 06/01/1995-11/30/1995 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 E J KERSCHEN LERC/L J HEIDELBERG 41-Aero Engr

NAG 5-2080 University of Arizona 1391
 PSPC OBSERVATIONS OF HIGH REDSHIFT QSOs
Period Obligations
 08/25/1992-08/31/1996 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 J BECHTOLD GSFC/R PETRE 11-Astronomy

NAG 5-434 University of Arizona 1384
 ULE OBSERVATIONS OF SATURN'S RINGS; WHITE DWARF LIGMAN
 ALPHA PROFILES
Period Obligations
 07/01/1984-08/31/1995 FY95: TOTAL: \$238,670
Prin. Invest. NASA Tech. Officer CASE Category
 J B HOLBERT GSFC/Y KONDO 11-Astronomy
 E M SION

NAG 5-2198 University of Arizona 1392
 CONTENT - BASED QUERY AND BROWSE OF EARTH SCIENCE
 IMAGERY DATABASES USING HIGH PERF. COMPUTERS AND NETWORK
Period Obligations
 02/25/1993-11/30/1995 FY95: \$33,248 TOTAL: \$92,913
Prin. Invest. NASA Tech. Officer CASE Category
 R A SCHOWENGERDT GSFC/J R FISCHER 22-Computer Science
 L L PETERSON
 C J TURNER

NAG 5-637 University of Arizona 1385
 EUV SPECTRAL IMAGER
Period Obligations
 07/11/1986-12/31/1995 FY95: \$120,000 TOTAL: \$841,282
Prin. Invest. NASA Tech. Officer CASE Category
 A L BROADFOOT GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-2251 University of Arizona 1393
 THE PHYSICAL FOUNDATIONS OF PARTICLE ACCELERATION BY
 COLLISIONLESS SHOCKS IN SPACE
Period Obligations
 04/27/1993-04/30/1996 FY95: \$85,999 TOTAL: \$206,499
Prin. Invest. NASA Tech. Officer CASE Category
 J R JOKIPII GSFC/T J BIRMINGHAM 13-Physics
 GSFC/J D BOHLIN

NAG 5-1370 University of Arizona 1386
 STUDY OF EXTENDED STRUCTURES IN ZODIACAL THERMAL
 ENVIRONMENT
Period Obligations
 04/12/1990-06/30/1996 FY95: \$23,981 TOTAL: \$339,081
Prin. Invest. NASA Tech. Officer CASE Category
 M V SYKES GSFC/D WEST 11-Astronomy

NAG 5-2268 University of Arizona 1394
 THE EUV OPACITY AND H CONTENT OF HOT DA WHITE DWARFS
Period Obligations
 05/07/1993-11/30/1994 FY95: TOTAL: \$50,822
Prin. Invest. NASA Tech. Officer CASE Category
 R W TWEEDY GSFC/R OLIVERSEN 11-Astronomy

NAG 5-1496 University of Arizona 1387
 INVESTIGATION OF BACKSCATTERED ALBEDOS AS MEASURED BY
 THE TOMS INSTRUMENT
Period Obligations
 03/13/1991-04/30/1996 FY95: \$79,969 TOTAL: \$558,515
Prin. Invest. NASA Tech. Officer CASE Category
 B M HERMAN GSFC/R D MCPETERS 31-Atmos Sci
 GSFC/R S STOLARSKI

NAG 5-2269 University of Arizona 1395
 TEMPERATURE AND COMPOSITION OF A UNIQUE HOT DO WHITE
 DWARF AND TEMP. AND COMP. OF WHITE DWARFS
Period Obligations
 05/07/1993-05/31/1996 FY95: \$44,402 TOTAL: \$138,453
Prin. Invest. NASA Tech. Officer CASE Category
 J B HOLBERG GSFC/R OLIVERSEN 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAGW 896 University of Arizona 1428
RADIOMETRIC CALIBRATION OF THE EOS
Period Obligations
 05/15/1986-05/31/1995 FY95: TOTAL: \$1,820,074
Prin. Invest. NASA Tech. Officer CASE Category
 P SLATER HQ/A J TUYAHOV 99-Multi-Discip
 HQ/J E ESTES

NAGW 1498 University of Arizona 1436
AN INVESTIGATION OF THE INTERACTION BETWEEN THE NEUTRAL
Period Obligations
 11/17/1988-10/31/1995 FY95: \$38,467 TOTAL: \$263,017
Prin. Invest. NASA Tech. Officer CASE Category
 F HERBERT HQ/J T BERGSTRALH 11-Astronomy

NAGW 909 University of Arizona 1429
OBS AND INT OF RADIATIVE AND PHOTOCHEMICAL PROCESSES
Period Obligations
 07/01/1986-02/28/1998 FY95: \$72,000 TOTAL: \$742,381
Prin. Invest. NASA Tech. Officer CASE Category
 L L HOOD HQ/R D MCPETERS 31-Atmos Sci
 HQ/M J PRATHER

NAGW 1549 University of Arizona 1437
PLANETARY SPECTROSCOPY
Period Obligations
 12/12/1988-11/30/1995 FY95: \$50,000 TOTAL: \$724,753
Prin. Invest. NASA Tech. Officer CASE Category
 U FINK HQ/J H RAHE 11-Astronomy

NAGW 1029 University of Arizona 1430
COLLISIONAL AND DYNAMICAL PROCESSES
Period Obligations
 12/01/1986-09/30/1995 FY95: \$90,164 TOTAL: \$843,164
Prin. Invest. NASA Tech. Officer CASE Category
 R J GREENBERG HQ/J R UNDERWOOD 32-Geological Sci
 HQ/J M BOYCE

NAGW 1555 University of Arizona 1438
INTERIORS OF THE GIANT PLANETS
Period Obligations
 12/12/1988-12/31/1995 FY95: \$96,135 TOTAL: \$522,381
Prin. Invest. NASA Tech. Officer CASE Category
 W B HUBBARD HQ/J H RAHE 11-Astronomy

NAGW 1039 University of Arizona 1431
THEORETICAL STUDIES OF VOLATILE PROCESSES
Period Obligations
 02/15/1987-10/31/1995 FY95: \$61,495 TOTAL: \$418,099
Prin. Invest. NASA Tech. Officer CASE Category
 J I LUNINE HQ/J T BERGSTRALH 31-Atmos Sci
 HQ/W L QUAIDE

NAGW 1658 University of Arizona 1439
THEORETICAL AND OBS. STUDIES OF INTER. OF OUTER PLANET MAG.
Period Obligations
 02/09/1989-11/30/1994 FY95: TOTAL: \$317,140
Prin. Invest. NASA Tech. Officer CASE Category
 L L HOOD HQ/M M MELLOTT 19-Phys Sci, NEC
 HQ/T W PERRY

NAGW 1146 University of Arizona 1432
INFRARED REFLECTANCE STUDY OF CARBONACEOUS MATERIALS
Period Obligations
 08/01/1987-12/31/1995 FY95: \$8,993 TOTAL: \$199,802
Prin. Invest. NASA Tech. Officer CASE Category
 L A LEBOFISKY HQ/T A MAXWELL 32-Geological Sci
 HQ/J M BOYCE

NAGW 1876 University of Arizona 1440
STELLAR OCCULTATIONS BY PLANETARY RINGS OCCULTATIO N BY SATURN
Period Obligations
 05/08/1990-12/14/1995 FY95: \$35,000 TOTAL: \$195,093
Prin. Invest. NASA Tech. Officer CASE Category
 C C PORCO HQ/J RAHE 11-Astronomy

NAGW 1283 University of Arizona 1433
SEARCH FOR EXTRASOLAR PLANETS
Period Obligations
 04/12/1988-11/30/1996 FY95: \$137,837 TOTAL: \$803,689
Prin. Invest. NASA Tech. Officer CASE Category
 R S MCMILLAN HQ/H C BRINTON 11-Astronomy
 HQ/J H RAHE

NAGW 1881 University of Arizona 1441
LUNAR PALEOMAGNETISM AND MAGNETIC EFFECTS OF IMPACT PROC.
Period Obligations
 11/17/1990-02/31/1993 FY95: TOTAL: \$123,425
Prin. Invest. NASA Tech. Officer CASE Category
 L L HOOD HQ/T A MAXWELL 32-Geological Sci

NAGW 1285 University of Arizona 1434
SPACE INFRARED DETECTOR DEVELOPMENT
Period Obligations
 05/11/1988-12/31/1995 FY95: \$155,951 TOTAL: \$1,119,024
Prin. Invest. NASA Tech. Officer CASE Category
 E YOUNG HQ/F C GILLET 11-Astronomy

NAGW 1927 University of Arizona 1442
A PROPOSAL TO CONTINUE DEVELOPMENT AND APPLICATION S OF FAR-INFRARED DETECTION TECHNIQUES
Period Obligations
 07/23/1990-02/28/1994 FY95: TOTAL: \$221,701
Prin. Invest. NASA Tech. Officer CASE Category
 F J LOW HQ/G S LEVY 11-Astronomy

NAGW 1332 University of Arizona 1435
CENTER FOR UTIL. OF LOCAL PLANETARY RESOURCES
Period Obligations
 07/13/1988-05/31/1995 FY95: \$462,240 TOTAL: \$9,919,180
Prin. Invest. NASA Tech. Officer CASE Category
 S C CROW HQ/B F QUIGLEY 49-Engr, NEC
 K N RAMOHALLI

NAGW 1931 University of Arizona 1443
THEORY OF CHARGED-PARTICLE TRANSPORT AND ASTROPHYS ICAL PLASMAS
Period Obligations
 02/23/1990-10/31/1995 FY95: \$70,000 TOTAL: \$636,393
Prin. Invest. NASA Tech. Officer CASE Category
 J R JOKIPPI HQ/J C LING 13-Physics
 HQ/W V JONES

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAGW 1974 University of Arizona 1444
A STUDY OF THE EVOLUTION OF DUST JETS IN COMET HAL LEY
Period Obligations
02/06/1990-11/30/1994 FY95: \$32,000 TOTAL: \$200,962
Prin. Invest. NASA Tech. Officer CASE Category
S M LARSON HQ/J BERGSTRALH 11-Astronomy

NAGW 1975 University of Arizona 1445
INFRARED OBSERVATIONS OF SOLAR SYSTEM OBJECTS
Period Obligations
04/10/1990-12/31/1995 FY95: \$44,011 TOTAL: \$265,223
Prin. Invest. NASA Tech. Officer CASE Category
L A LEBOWSKY HQ/J BERGSTRALH 11-Astronomy

NAGW 2017 University of Arizona 1446
NON-LTE MODELS OF THE MESOSPHERES OF THE OUTER PLANETS AND THEIR SATELLITES
Period Obligations
04/06/1990-11/30/1994 FY95: TOTAL: \$397,831
Prin. Invest. NASA Tech. Officer CASE Category
R YELLE HQ/J BERGSTRALH 11-Astronomy

NAGW 2021 University of Arizona 1447
PLANETARY CRATERING INVESTIGATIONS AND ICY SATELLITE TECTONICS
Period Obligations
03/05/1990-09/30/1995 FY95: \$21,005 TOTAL: \$412,638
Prin. Invest. NASA Tech. Officer CASE Category
R G STROM HQ/J M BOYCE 32-Geological Sci

NAGW 2145 University of Arizona 1448
GAMMA RAYS AND X-RAY FROM SUPERNOVAE
Period Obligations
06/06/1990-01/31/1995 FY95: TOTAL: \$323,501
Prin. Invest. NASA Tech. Officer CASE Category
A S BURROWS HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 2176 University of Arizona 1449
GENERATION AND BEHAVIOR OF SOLAR-SYSTEM MAGNETIC FIELDS
Period Obligations
07/27/1990-09/30/1996 FY95: \$89,000 TOTAL: \$534,423
Prin. Invest. NASA Tech. Officer CASE Category
E H LEVY HQ/T A MAXWELL 32-Geological Sci

NAGW 2206 University of Arizona 1450
DEVELOPMENT OF A HIGH RESOLUTION CRYOGENIC INFRARED SPECTROMETER FOR PLANETARY AIRBORNE ASTRONOMY
Period Obligations
11/14/1990-04/30/1995 FY95: TOTAL: \$456,312
Prin. Invest. NASA Tech. Officer CASE Category
H P LARSON HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2249 University of Arizona 1451
NAGW-2249/UNIV ARIZONA/THE MEASUREMENT OF ISOTOPIC ABUNDANCE AND MOLECULAR COMPOSITION OF INDIVIDUAL
Period Obligations
06/13/1991-03/31/1996 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
C Y FAN HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2250 University of Arizona 1452
NAGW-2250/UNIV ARIZONA/COUPLED PHYSICAL AND CHEMICAL EVOLUTION OF THE SOLAR NEBULA: A CONSORTIUM STUDY
Period Obligations
03/06/1991-10/31/1996 FY95: \$39,995 TOTAL: \$199,819
Prin. Invest. NASA Tech. Officer CASE Category
J I LUNINE HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2253 University of Arizona 1453
OPTICAL STUDIES OF CLUSTERED PARTICLES
Period Obligations
05/21/1991-05/31/1994 FY95: TOTAL: \$150,033
Prin. Invest. NASA Tech. Officer CASE Category
D R HUFFMAN HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2254 University of Arizona 1454
OBSERVATIONAL AND THEORETICAL STUDIES OF CIRCUMSTELLAR MATERIAL AT VERY HIGH SPATIAL RESOLUTION
Period Obligations
05/21/1991-04/30/1994 FY95: TOTAL: \$80,369
Prin. Invest. NASA Tech. Officer CASE Category
D MCCARTHY HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2255 University of Arizona 1455
ASTROCHEMISTRY RELATING TO ORIGINS OF SOLAR SYSTEMS
Period Obligations
02/22/1991-04/30/1994 FY95: TOTAL: \$135,000
Prin. Invest. NASA Tech. Officer CASE Category
J H BLACK HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2291 University of Arizona 1456
ENERGETIC PHENOMENA IN PROTOPLANETARY NEBULAE
Period Obligations
02/26/1991-10/31/1996 FY95: \$49,154 TOTAL: \$228,674
Prin. Invest. NASA Tech. Officer CASE Category
E LEVY HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2315 University of Arizona 1457
NAGW-2315/UNIV ARIZONA/GAS-PLASMA-GRAIN INTERACTIONS
Period Obligations
05/23/1991-10/31/1995 FY95: \$27,000 TOTAL: \$129,000
Prin. Invest. NASA Tech. Officer CASE Category
L L HOOD HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2321 University of Arizona 1458
DOPPLER SHIFT SEARCH FOR PLANETS ORBITING ASTROMETRIC TARGET STARS
Period Obligations
12/06/1990-04/30/1994 FY95: TOTAL: \$180,603
Prin. Invest. NASA Tech. Officer CASE Category
R S MCMILLAN HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2342 University of Arizona 1459
NEPTUNE RING/SATELLITE SYSTEM STUDIES: COMBINED ANALYSIS OF VOYAGER 2 AND GROUND BASED OBSERVATIONS
Period Obligations
03/11/1991-12/31/1994 FY95: TOTAL: \$139,274
Prin. Invest. NASA Tech. Officer CASE Category
C C PORCO HQ/W L QUAIDE 19-Phys Sci, NEC

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAGW 2878	University of Arizona	1476
PHYSICAL STUDIES OF SMALL ASTEROIDS, COMETARY AND GALILEO TARGETS 243 IDA AND 951 GASPRRA		
<i>Period</i>	<i>Obligations</i>	
02/10/1992-11/30/1994	FY95:	TOTAL: \$166,916
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R MCMILLAN	HQ/J L RAHE	11-Astronomy
NAGW 2884	University of Arizona	1477
CONSTRAINTS ON THE FORMATION OF THE TERRESTRIAL PLANETS FROM EXPERIMENTAL GEOCHEMISTRY		
<i>Period</i>	<i>Obligations</i>	
02/07/1992-01/31/1995	FY95:	TOTAL: \$94,931
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M J DRAKE	HQ/J A NUTH III	19-Phys Sci, NEC
NAGW 3051	University of Arizona	1478
NAGW-3051/UNIV ARIZONA/AURORA ON NEPTUNE		
<i>Period</i>	<i>Obligations</i>	
11/17/1992-06/30/1994	FY95:	TOTAL: \$40,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A J DESSLER	HQ/H C BRINTON	32-Geological Sci
NAGW 3076	University of Arizona	1479
NAGW-3076/UNIV ARIZONA/INSTRUMENTATION FOR CHEMICAL ANALYSIS OF PLANETARY SURFACES		
<i>Period</i>	<i>Obligations</i>	
06/12/1992-03/31/1996	FY95: \$362,886	TOTAL: \$996,266
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W V BOYNTON	HQ/H C BRINTON	19-Phys Sci, NEC
NAGW 3084	University of Arizona	1480
LUNAR ORBITAL DYNAMICS THROUGH GEOLOGIC AGES AS REVEALED BY TIDAL RHYTHMITES		
<i>Period</i>	<i>Obligations</i>	
07/01/1992-06/30/1995	FY95:	TOTAL: \$193,537
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C P SONETT	HQ/J K ALEXANDER HQ/D A HOLLAND	32-Geological Sci
NAGW 3160	University of Arizona	1481
X-RAY STUDIES OF THE NEARBY STARS		
<i>Period</i>	<i>Obligations</i>	
08/11/1992-11/30/1995	FY95: \$99,689	TOTAL: \$285,052
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T FLEMING	HQ/G R RIEGLER	11-Astronomy
NAGW 3166	University of Arizona	1482
NAGW-3166/UNIV ARIZONA/LITHOGRAPHIC AND STRUCTURAL INFLUENCES ON LANDSCAPE FRACTAL DIMENSION		
<i>Period</i>	<i>Obligations</i>	
08/21/1992-07/31/1996	FY95:	TOTAL: \$69,174
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C CHASE	HQ/M BALTUCK	31-Atmos Sci
NAGW 3197	University of Arizona	1483
NAGW-3197/UNIV ARIZONA/INSECT DEVELOPMENT IN ALTERED GRAVITATIONAL ENVIRONMENT		
<i>Period</i>	<i>Obligations</i>	
08/21/1992-08/31/1995	FY95:	TOTAL: \$164,972
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M E TISCHLER	HQ/T W HALSTEAD	51-Biological Sci
NAGW 3348	University of Arizona	1484
GEOCHEMICAL EVOLUTION OF THE EARTH		
<i>Period</i>	<i>Obligations</i>	
01/15/1993-12/14/1996	FY95: \$213,619	TOTAL: \$601,843
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M J DRAKE	HQ/H C BRINTON	32-Geological Sci
NAGW 3368	University of Arizona	1485
THE AGGREGATE REPRESENTATION OF TERRESTRIAL LAND COVERS		
<i>Period</i>	<i>Obligations</i>	
02/02/1993-12/31/1996	FY95: \$151,694	TOTAL: \$428,695
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W J SHUTTLEWORTH	HQ/R E MURPHY	39-Env Sci, NEC
NAGW 3373	University of Arizona	1486
MINERALOGIC AND TRACE ELEMENT STUDIES OF METEORITE S AND METEORITE IMPACTS		
<i>Period</i>	<i>Obligations</i>	
02/10/1993-12/14/1996	FY95: \$286,401	TOTAL: \$702,070
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W BOYNTON	HQ/H C BRINTON	32-Geological Sci
NAGW 3380	University of Arizona	1487
NAGW-3380/B UNIV. ARIZ 'SPACEWATCH UPGRADE AND FOLLOW-UP', 7/1/93 START		
<i>Period</i>	<i>Obligations</i>	
11/09/1993-06/30/1995	FY95: \$124,927	TOTAL: \$400,888
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T GEHRELS	HQ/J H RAHE	11-Astronomy
NAGW 3382	University of Arizona	1488
MID INFRARED SPECTROSCOPY OF THE MOON MERCURY AND ASTEROIDS		
<i>Period</i>	<i>Obligations</i>	
02/18/1993-01/31/1994	FY95:	TOTAL: \$15,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A L SPRAGUE	HQ/H C BRINTON	11-Astronomy
NAGW 3400	University of Arizona	1489
ORIGIN AND EVOLUTION OF PLANETARY ATMOSPHERE		
<i>Period</i>	<i>Obligations</i>	
03/15/1993-07/31/1996	FY95: \$59,992	TOTAL: \$184,913
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J LEWIS	HQ/H C BRINTON	19-Phys Sci, NEC
NAGW 3406	University of Arizona	1490
PHYSICS OF CIRCUMSTELLAR ACCRETION DISKS		
<i>Period</i>	<i>Obligations</i>	
02/18/1993-02/29/1996	FY95: \$45,204	TOTAL: \$135,691
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W BENZ	HQ/J A NUTH	19-Phys Sci, NEC
NAGW 3411	University of Arizona	1491
STUDIES IN PLANETARY RINGS		
<i>Period</i>	<i>Obligations</i>	
02/18/1993-12/31/1995	FY95: \$28,000	TOTAL: \$88,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C C PORCO	HQ/J M BOYCE	32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAGW 3432 University of Arizona 1492
STGCM ANALYSIS OF PIONEER VENUS ORBITER ENTRY DATA
Period Obligations
02/28/1993-03/03/1995 FY95: TOTAL: \$57,605
Prin. Invest. NASA Tech. Officer CASE Category
S W BOUGHER HQ/J T BERGSTRALH 31-Atmos Sci

NAGW 3631 University of Arizona 1500
ANALYSIS OF VOYAGER OCCULTATION MEASUREMENTS OF THE
ATMOSPHERES OF TITAN AND TRITON
Period Obligations
05/28/1993-04/30/1994 FY95: TOTAL: \$9,361
Prin. Invest. NASA Tech. Officer CASE Category
R V YELLE HQ/J T BERGSTRALH 19-Phys Sci, NEC

NAGW 3440 University of Arizona 1493
TOMOGRAPHIC ANALYSIS OF VOYAGER ULTRAVIOLET SPECTR
OMETER OBSERVATIONS OF THE IO PLASMA TORUS
Period Obligations
03/15/1993-12/31/1996 FY95: \$13,625 TOTAL: \$122,625
Prin. Invest. NASA Tech. Officer CASE Category
F HERBERT HQ/E C WHIPPLE 13-Physics

NAGW 3635 University of Arizona 1501
MISSION OF OPPORTUNITY: IN SITU MEASUREMENTS OF E
NERGETIC NEUTRAL ATOMS
Period Obligations
06/16/1993-06/30/1996 FY95: \$8,849 TOTAL: \$105,998
Prin. Invest. NASA Tech. Officer CASE Category
C CURTIS HQ/E C WHIPPLE
HQ/J D BOHLIN 13-Physics

NAGW 3515 University of Arizona 1494
ORIGIN OF VENUSIAN CHANNELS, VALLEYS, AND RELATED
PHENOMENA
Period Obligations
04/09/1993-03/31/1995 FY95: TOTAL: \$103,200
Prin. Invest. NASA Tech. Officer CASE Category
V R BAKER HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3638 University of Arizona 1502
CATION ORDERING AND COMPOSITIONAL ZONING IN METEORITIC
OTHOPIROXENES: IMPLICATIONS FOR COOLING RATE
Period Obligations
07/05/1993-01/31/1996 FY95: TOTAL: \$74,315
Prin. Invest. NASA Tech. Officer CASE Category
J GANGULY HQ/J M BOYCE 32-Geological Sci

NAGW 3543 University of Arizona 1495
NAGW-3543/UNIV ARIZONA/SEAWIFS CALIBRATION AND ALG
ORTHM VALIDATION
Period Obligations
04/21/1993-12/31/1995 FY95: \$140,000 TOTAL: \$324,079
Prin. Invest. NASA Tech. Officer CASE Category
P N SLATER HQ/D E WICKLAND
HQ/A C JANETOS 33-Oceanography

NAGW 3657 University of Arizona 1503
THE VOYAGER ULTRAVIOLET SPECTROMETER EXPERIMENT TH
ROUGH THE VOYAGER INTERSTELLAR MISSION
Period Obligations
06/16/1993-09/30/1995 FY95: TOTAL: \$483,000
Prin. Invest. NASA Tech. Officer CASE Category
A BROADFOOT HQ/W V JONES
HQ/J D BOHLIN 13-Physics

NAGW 3555 University of Arizona 1496
EXTRACTION OF SOIL AND VEGETATION PARAMETERS FROM HIGH
RESOLUTION BI-DIRECTIONAL REFLECTANCE SPECTRA
Period Obligations
04/30/1993-05/31/1996 FY95: \$43,530 TOTAL: \$129,378
Prin. Invest. NASA Tech. Officer CASE Category
A R HUETE HQ/D E WICKLAND
HQ/A C JANETOS 39-Env Sci, NEC

NAGW 3705 University of Arizona 1504
IMPACT CRATER INVESTIGATIONS OF VENUS
Period Obligations
08/11/1993-03/14/1995 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
R G STROM HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3562 University of Arizona 1497
IMPACT MELT PRODUCTION ON VENUS
Period Obligations
05/13/1993-03/31/1994 FY95: TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
A M VICKERY HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3717 University of Arizona 1505
DEVELOPMENT OF GAMMA-RAY SPECTROMETERS FOR REMOTE-
SENSING AND IN-SITU ANALYSES
Period Obligations
08/26/1993-05/31/1995 FY95: TOTAL: \$34,983
Prin. Invest. NASA Tech. Officer CASE Category
W V BOYNTON HQ/H C BRINTON 19-Phys Sci, NEC

NAGW 3611 University of Arizona 1498
NOBLE GAS STUDIES OF EARLY SOLAR SYSTEM HISTORY
Period Obligations
05/21/1993-05/31/1996 FY95: \$34,500 TOTAL: \$99,712
Prin. Invest. NASA Tech. Officer CASE Category
T SWINDLE HQ/J BOYCE 32-Geological Sci

NAGW 3796 University of Arizona 1506
PLUTO AND CHARON
Period Obligations
10/13/1993-08/31/1994 FY95: TOTAL: \$35,099
Prin. Invest. NASA Tech. Officer CASE Category
T GEHRELS HQ/RAHE 11-Astronomy

NAGW 3614 University of Arizona 1499
COSMOGENIC ¹⁴C IN ANTARCTIC AND NON-ANTARCTIC METE
ORITES AND LUNAR SAMPLES
Period Obligations
05/24/1993-05/31/1996 FY95: \$34,766 TOTAL: \$103,053
Prin. Invest. NASA Tech. Officer CASE Category
A J JULL HQ/J M BOYCE 32-Geological Sci

NAGW 3820 University of Arizona 1507
NAGW-3820/UNIV ARIZONA; OBSERVATIONS OF INNER BELT C, E,
AND M CLASS ASTEROIDS
Period Obligations
11/24/1993-12/31/1995 FY95: \$31,391 TOTAL: \$61,382
Prin. Invest. NASA Tech. Officer CASE Category
D BRITT HQ/H H BRINTON 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAGW 3846	University of Arizona	1508			
UNIV ARIZONA; OPTIMIZING CHARGE-COUPLED DEVICES FOR THE NEAR ULTRAVIOLET					
<i>Period</i>		<i>Obligations</i>			
01/11/1994-12/31/1995	FY95: \$119,994	TOTAL: \$179,944			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
M P LESSER	HQ/R V STACHNIK	11-Astronomy			
	HQ/E J WEILER				
NAGW 3904	University of Arizona	1509			
NUMERICAL STUDIES OF IMPACTS AND COLLISIONS					
<i>Period</i>		<i>Obligations</i>			
03/23/1994-01/31/1998	FY95: \$39,998	TOTAL: \$89,968			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
W BENZ	HQ/R WILLIAMS	32-Geological Sci			
NAGW 4066	University of Arizona	1510			
CORONAGRAPHIC AND SPECTROGRAPHIC OBSERVATIONS OF P/SHOEMAKER-LEVY 9 IMPACT WITH JUPITER					
<i>Period</i>		<i>Obligations</i>			
07/26/1994-04/30/1995	FY95:	TOTAL: \$62,999			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
S LARSON	HQ/J H RAHE	11-Astronomy			
NAGW 4072	University of Arizona	1511			
CCD IMAGING, PHOTOMETRY, AND SPECTROPHOTOMETRY OF COMET 1993E COLLISION WITH JUPITER					
<i>Period</i>		<i>Obligations</i>			
08/12/1994-12/31/1994	FY95:	TOTAL: \$31,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
W HUBBARD	HQ/J RAHE	11-Astronomy			
NAGW 4074	University of Arizona	1512			
SILICON MICROMACHINING OF SUBMILLIMETER WAVEGUIDE STRUCTURES					
<i>Period</i>		<i>Obligations</i>			
07/15/1994-12/31/1995	FY95:	TOTAL: \$20,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
C K WALKER	HQ/L J CAROFF	11-Astronomy			
NAGW 4083	University of Arizona	1513			
LOW MASS STARS AND BROWN DWARFS: FORMATION AND TEST OF ATMOSPHERIC MODELS					
<i>Period</i>		<i>Obligations</i>			
07/15/1994-06/30/1995	FY95: \$50,000	TOTAL: \$95,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
G RIEKE	HQ/P ROGERS	11-Astronomy			
NAGW 4126	University of Arizona	1514			
ASTROCHEMISTRY RELATING TO THE ORIGINS OF THE SOLAR SYSTEM					
<i>Period</i>		<i>Obligations</i>			
09/02/1994-05/31/1995	FY95:	TOTAL: \$14,942			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
J H BLACK	HQ/P ROGERS	12-Chemistry			
NAGW 4165	University of Arizona	1515			
REMOTE SENSING SOIL MOISTURE USING FOUR DIMENSIONAL DATA ASSIMILATION					
<i>Period</i>		<i>Obligations</i>			
10/12/1994-09/30/1997	FY95: \$60,500	TOTAL: \$60,500			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
W J SHUTTLEWORTH	HQ/M Y WEI	39-Env Sci, NEC			
	HQ/J S THEON				
NAGW 4248	University of Arizona	1516			
ADVANCED DESIGN PROGRAM					
<i>Period</i>		<i>Obligations</i>			
01/11/1995-12/31/1995	FY95: \$17,350	TOTAL: \$17,350			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
K RAMAHALLI	HQ/A S MCGEE	49-Engr, NEC			
NAGW 4308	University of Arizona	1517			
PLANETARY AERONOMY AND RELATED STUDIES					
<i>Period</i>		<i>Obligations</i>			
03/10/1995-10/31/1995	FY95: \$60,000	TOTAL: \$60,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
D HUNTEN	HQ/J BERGSTALH	11-Astronomy			
NAGW 4403	University of Arizona	1518			
WINDBLOWN FEATURES ON VENUS AND GEOLOGIC MAPPING (V-32)					
<i>Period</i>		<i>Obligations</i>			
04/14/1995-02/28/1998	FY95: \$50,000	TOTAL: \$50,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
R GREELEY	HQ/H BRINTON	22-Computer Science			
NAGW 4542	University of Arizona	1519			
TRANSPORT EQUATIONS OF COSMIC RAYS					
<i>Period</i>		<i>Obligations</i>			
05/24/1995-02/28/1998	FY95: \$50,000	TOTAL: \$50,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
J KOTA	HQ/W V JONES	13-Physics			
	HQ/J D BOHLIN				
NAGW 4593	University of Arizona	1520			
UVSTAR SCIENCE MANAGEMENT PROGRAM					
<i>Period</i>		<i>Obligations</i>			
06/29/1995-06/30/1996	FY95: \$60,759	TOTAL: \$60,759			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
B SANDEL	HQ/J KREHBIEL	99-Multi-Discip			
NAGW 4627	University of Arizona	1521			
NEAR INFRARED OBSERVATIONS OF TITAN'S LOWER ATMOSPHERE AND SURFACE					
<i>Period</i>		<i>Obligations</i>			
07/21/1995-03/31/1996	FY95: \$47,995	TOTAL: \$47,995			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
P SMITH	HQ/E BARKER	11-Astronomy			
NAGW 4647	University of Arizona	1522			
DUST SUBNODE OF THE SMALL BODIES DISCIPLINE NODE					
<i>Period</i>		<i>Obligations</i>			
07/31/1995-03/31/1996	FY95: \$39,801	TOTAL: \$39,801			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
M SYKES	HQ/J BERGSTALH	11-Astronomy			
NAGW 4736	University of Arizona	1523			
INFRARED EMISSION SPECTROSCOPY OF ASTROPHYSICAL MOLECULES					
<i>Period</i>		<i>Obligations</i>			
09/06/1995-03/31/1996	FY95: \$32,500	TOTAL: \$32,500			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
P BERNATH	HQ/L J CAROFF	11-Astronomy			
	HQ				

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NAGW 4789 University of Arizona 1524
MORPHOLOGY AND EVOLUTION OF COMET P/SHOEMAKER LEVY
9
Period *Obligations*
09/25/1995-10/31/1996 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J SCOTTI HQ/E BARKER 99-Multi-Discip

NAG10-92 University of Arizona 1525
LIGHTNING FIELD CHANGES AND DISPLACEMENT—CURRENTS AT
KSC
Period *Obligations*
08/12/1991-03/20/1996 FY95: \$25,000 TOTAL: \$126,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E P KRIDER KSC/W JAFFERIS 31-Atmos Sci

NAG10-134 University of Arizona 1526
EFFECT OF MICROGRAVITY ON TOBACCO HORNWORM (MANAUCA
SEXTA) DURING METAMORPHOSIS
Period *Obligations*
05/02/1994-10/01/1995 FY95: TOTAL: \$114,985
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M T TISCHLER KSC/W M KNOTT 51-Biological Sci

NAS 1-18939 University of Arizona 1527
SAGE III SCIENCE INVESTIGATION SUPPORT - P.I. - B. HERMAN
Period *Obligations*
02/28/1990-01/31/2005 FY95: \$70,000 TOTAL: \$191,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B M HERMAN LARC/G L MADDREA JR 31-Atmos Sci
LARC/L R MCMASTER

NAS 1-19953 University of Arizona 1528
SCIENCE SUPPORT TO THE LITE SCIENCE TEAM
Period *Obligations*
05/24/1993-05/23/1996 FY95: \$88,000 TOTAL: \$173,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A REAGAN LARC/G L MADDREA 31-Atmos Sci

NAS 2-13464 University of Arizona 1529
SERVICES TO SUPPORT THE OPERATION AND MAINTENANCE OF
THE NASA 1.5 METER TELESCOPE AT MT LEMMON, AZ
Period *Obligations*
10/29/1991-07/31/1996 FY95: \$147,576 TOTAL: \$709,645
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M RIEKE ARC/C D LAUGHLIN 11-Astronomy

NAS 5-30124 University of Arizona 1530
SCIENTIFIC INTREPRETATION OF GPMS DATA
Period *Obligations*
08/10/1987-04/30/1997 FY95: TOTAL: \$182,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D HUNTEN GSFC/J R RICHARDS 31-Atmos Sci

NAS 5-31289 University of Arizona 1531
DEVELOPMENT OF THE HST SECOND GENERATION INSTRUMENT
TITLED NICMOS
Period *Obligations*
12/20/1990-09/30/1997 FY95: \$25,059,052 TOTAL: \$79,372,216
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R L THOMPSON GSFC/M M JUROTICH 41-Aero Engr

NAS 5-31364 University of Arizona 1532
EOS/MODIS INVESTIGATION FROM DR. HUETE
Period *Obligations*
01/24/1992-12/14/2001 FY95: \$395,000 TOTAL: \$1,094,609
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A HUETE GSFC/H OSEROFF 31-Atmos Sci

NAS 5-31717 University of Arizona 1533
EOS INVESTIGATION
Period *Obligations*
01/03/1992-12/15/2001 FY95: \$1,074,250 TOTAL: \$3,375,250
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P N SLATER GSFC/L STUART 31-Atmos Sci

NAS 5-32495 University of Arizona 1534
CREATE IRAS DEEP SKY CATALOG OF ASTEROIDS AND COMETS
Period *Obligations*
03/03/1994-03/02/1995 FY95: TOTAL: \$26,797
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M V SYKES GSFC/D K WEST 11-Astronomy

NAS 9-18433 University of Arizona 1535
FLIGHT RELATED STUDIES/ENHANCED HYBRIDOMA PRO- DDUCTION
UNDER MICROGRAVITY
Period *Obligations*
04/15/1991-05/01/1994 FY95: TOTAL: \$984,801
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D W SAMMONS JSC/S R GONDA 51-Biological Sci
G A NEIL

NCC 2-329 University of Arizona 1536
ANALYSIS OF TURBULENCE ENCOUNTERS USING AIRLINE DIGITAL
FLIGHT RECORDS
Period *Obligations*
01/01/1985-02/29/1996 FY95: \$22,939 TOTAL: \$167,895
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E K PARKS ARC/R E BACH 41-Aero Engr
ARC

NCC 2-667 University of Arizona 1537
CALIBRATION OF GAAS PHOTOMULTIPLIER TUBES FOR STA
NDARIZATION OF THE SSPM DETECTOR
Period *Obligations*
04/26/1990-11/30/1994 FY95: TOTAL: \$14,945
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R S MCMILLAN ARC/J H GOEBEL 11-Astronomy
J H GOEBEL ARC/C R MCCREIGHT

NCC 2-5051 University of Arizona 1538
THE TRAPPING OF NOBLE GASES IN INTERSTELLAR ICE RE
SIDUES
Period *Obligations*
05/06/1994-03/15/1995 FY95: TOTAL: \$8,970
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T D SWINDLE ARC/S A SANDFORD 11-Astronomy

NCC 3-374 University of Arizona 1539
CONSTRUCTING SCIENTIFIC APPLICATIONS FROM HETEROGE
NEOUS RESURCES
Period *Obligations*
11/17/1994-11/16/1995 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R SCHLICHTING LERC/G J FOLLEN 22-Computer Science
P HOMER

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

<p>NCC 5-77 INVEST. OF SIGNAL AND IMAGING PROCESSING TECHNIQUE FOR CLOUD DETECTION BY MICRO PULSE LIDARS <i>Period</i> 08/01/1994-01/31/1996 <i>Prin. Invest.</i> J A REAGAN</p>	<p>University of Arizona FY95: NASA Tech. Officer GSFC/J D SPINHIRNE GSFC/V S SCOTT</p>	<p>1540 <i>Obligations</i> TOTAL: \$21,881 <i>CASE Category</i> 31-Atmos Sci</p>	<p>NGT 00-030-215 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM <i>Period</i> 08/24/1993-08/31/1996 <i>Prin. Invest.</i> J A REAGAN</p>	<p>University of Arizona FY95: \$44,000 NASA Tech. Officer HQ/G ASRAR HQ/D M BUTLER</p>	<p>1548 <i>Obligations</i> TOTAL: \$66,000 <i>CASE Category</i> 99-Multi-Discip</p>
<p>NGT 00-010-001 ASTRONOMY PRE-SERVICE FOR FUTURE ELEMENTARY SCHOOL TEACHERS <i>Period</i> 06/04/1993-03/31/1994 <i>Prin. Invest.</i> L A LEBOSKY</p>	<p>University of Arizona FY95: NASA Tech. Officer HQ/D V GALLAWAY</p>	<p>1541 <i>Obligations</i> TOTAL: \$82,575 <i>CASE Category</i> 11-Astronomy</p>	<p>NGT 00-030-239 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM <i>Period</i> 09/29/1994-08/31/1997 <i>Prin. Invest.</i> P N SLATER</p>	<p>University of Arizona FY95: \$44,000 NASA Tech. Officer HQ/R A SCHIFFER HQ/G ASRAR</p>	<p>1549 <i>Obligations</i> TOTAL: \$44,000 <i>CASE Category</i> 39-Env Sci, NEC</p>
<p>NGT 00-010-020 NGT-10020/UNIV ARIZONA/MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP PROGRAM <i>Period</i> 12/01/1993-03/31/1994 <i>Prin. Invest.</i> K RAMOHALLI</p>	<p>University of Arizona FY95: NASA Tech. Officer HQ/G S SEIDEL HQ/J R FACEY</p>	<p>1542 <i>Obligations</i> TOTAL: \$49,854 <i>CASE Category</i> 41-Aero Engr</p>	<p>NGT 00-030-269 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM <i>Period</i> 09/29/1994-08/31/1997 <i>Prin. Invest.</i> R C BALES</p>	<p>University of Arizona FY95: \$44,000 NASA Tech. Officer HQ/J S THEON HQ/G ASRAR</p>	<p>1550 <i>Obligations</i> TOTAL: \$44,000 <i>CASE Category</i> 39-Env Sci, NEC</p>
<p>NGT 00-010-035 UTILIZATION OF LOCAL PLANETARY RESOURCES <i>Period</i> 12/22/1994-10/31/1997 <i>Prin. Invest.</i> D C LYNCH</p>	<p>University of Arizona FY95: \$234,663 NASA Tech. Officer HQ/V BITTINGEN</p>	<p>1543 <i>Obligations</i> TOTAL: \$234,663 <i>CASE Category</i> 41-Aero Engr</p>	<p>NGT 00-030-303 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM <i>Period</i> 08/10/1995-08/31/1998 <i>Prin. Invest.</i> J W SHUTTLEWORTH</p>	<p>University of Arizona FY95: \$22,000 NASA Tech. Officer HQ/A C JANETOS HQ/G ASRAR</p>	<p>1551 <i>Obligations</i> TOTAL: \$22,000 <i>CASE Category</i> 39-Env Sci, NEC</p>
<p>NGT 00-030-045 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM <i>Period</i> 08/23/1991-08/31/1994 <i>Prin. Invest.</i> X GAO S SOROOSHIAN</p>	<p>University of Arizona FY95: NASA Tech. Officer HQ/D M BUTLER HQ/G S WILSON</p>	<p>1544 <i>Obligations</i> TOTAL: \$66,000 <i>CASE Category</i> 39-Env Sci, NEC</p>	<p>NGT 00-030-325 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM <i>Period</i> 08/31/1995-08/31/1998 <i>Prin. Invest.</i> B M HERMAN</p>	<p>University of Arizona FY95: \$22,000 NASA Tech. Officer HQ/R A SCHIFFER HQ/G ASRAR</p>	<p>1552 <i>Obligations</i> TOTAL: \$22,000 <i>CASE Category</i> 31-Atmos Sci</p>
<p>NGT 00-030-136 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM <i>Period</i> 10/21/1992-08/31/1995 <i>Prin. Invest.</i> P R HOUSER</p>	<p>University of Arizona FY95: \$22,000 NASA Tech. Officer HQ/G ASRAR HQ/D M BUTLER</p>	<p>1545 <i>Obligations</i> TOTAL: \$66,000 <i>CASE Category</i> 39-Env Sci, NEC</p>	<p>NGT 00-030-336 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM <i>Period</i> 08/16/1995-08/31/1998 <i>Prin. Invest.</i> M YITAYEW</p>	<p>University of Arizona FY95: \$22,000 NASA Tech. Officer HQ/A C JANETOS HQ/G ASRAR</p>	<p>1553 <i>Obligations</i> TOTAL: \$22,000 <i>CASE Category</i> 39-Env Sci, NEC</p>
<p>NGT 00-030-173 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM <i>Period</i> 08/24/1993-08/31/1996 <i>Prin. Invest.</i> C V HAYNES, J.R.</p>	<p>University of Arizona FY95: \$44,000 NASA Tech. Officer HQ/G ASRAR HQ/D M BUTLER</p>	<p>1546 <i>Obligations</i> TOTAL: \$66,000 <i>CASE Category</i> 32-Geological Sci</p>	<p>NGT 00-040-006 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM <i>Period</i> 11/29/1989-01/31/1996 <i>Prin. Invest.</i> E LEVY</p>	<p>University of Arizona FY95: \$392,496 NASA Tech. Officer HQ/E T SCHWARTZ</p>	<p>1554 <i>Obligations</i> TOTAL: \$2,261,587 <i>CASE Category</i> 99-Multi-Discip</p>
<p>NGT 00-030-181 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM <i>Period</i> 08/27/1993-08/31/1996 <i>Prin. Invest.</i> J RANGER-MOORE</p>	<p>University of Arizona FY95: \$43,500 NASA Tech. Officer HQ/G ASRAR HQ/D M BUTLER</p>	<p>1547 <i>Obligations</i> TOTAL: \$65,500 <i>CASE Category</i> 39-Env Sci, NEC</p>	<p>NGT 00-050-612 NASA GRADUATE STUDENT RESEARCHERS PROGRAM <i>Period</i> 07/09/1990-06/30/1994 <i>Prin. Invest.</i> M J DRAKE</p>	<p>University of Arizona FY95: NASA Tech. Officer HQ/F C OWENS</p>	<p>1555 <i>Obligations</i> TOTAL: \$66,000 <i>CASE Category</i> 32-Geological Sci</p>

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NGT 00-050-704 **University of Arizona** **1556**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/15/1991-08/31/1995 FY95: TOTAL: \$77,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J A REAGAN HQ/F C OWENS 45-Elec Engr

NGT 00-051-111 **University of Arizona** **1565**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 09/02/1993-07/31/1996 FY95: \$33,000 TOTAL: \$55,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J REAGAN LARC/E J PRIOR 45-Elec Engr

NGT 00-050-737 **University of Arizona** **1557**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/25/1991-08/04/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B FABES HQ/F C OWENS 47-Materials Engr

NGT 00-051-122 **University of Arizona** **1566**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/02/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J C BAYGENTS HQ/D A HOLLAND 21-Mathematics

NGT 00-050-758 **University of Arizona** **1558**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 11/26/1991-08/14/1995 FY95: TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R GREEN GSFC/G SOFFEN 11-Astronomy

NGT 00-051-127 **University of Arizona** **1567**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/23/1993-08/14/1996 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J I LUNINE HQ/D HOLLAND 11-Astronomy

NGT 00-050-782 **University of Arizona** **1559**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/25/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H P LARSON HQ/F C OWENS 31-Atmos Sci

NGT 00-051-139 **University of Arizona** **1568**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/25/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E H LEVY HQ/D HOLLAND 11-Astronomy

NGT 00-050-857 **University of Arizona** **1560**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/15/1991-08/31/1995 FY95: TOTAL: \$65,712
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M RIEKE HQ/F C OWENS 11-Astronomy

NGT 00-051-152 **University of Arizona** **1569**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/03/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C D IMPEY HQ/D HOLLAND 11-Astronomy

NGT 00-050-920 **University of Arizona** **1561**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/14/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P N SLATER HQ/J ALEXANDER 45-Elec Engr

NGT 00-051-210 **University of Arizona** **1570**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/16/1994-08/14/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R D SCHRIMPF GSFC/G SOFFEN 45-Elec Engr
 K F GALLOWAY

NGT 00-050-962 **University of Arizona** **1562**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/26/1992-07/31/1996 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B SANDEL HQ/J ALEXANDER 11-Astronomy

NGT 00-051-219 **University of Arizona** **1571**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/07/1994-06/30/1997 FY95: \$30,000 TOTAL: \$52,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P N SLATER HQ/A NOVOTNY 31-Atmos Sci

NGT 00-050-966 **University of Arizona** **1563**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/26/1992-08/24/1994 FY95: TOTAL: \$50,411
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R D SCHLICHTING HQ/P HUNTER 22-Computer Science

NGT 00-051-289 **University of Arizona** **1572**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/28/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W A BOYNTON HQ/D HOLLAND 11-Astronomy

NGT 00-051-092 **University of Arizona** **1564**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/01/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C M TIPTON HQ/R WHITE 59-Life Sci, NEC

NGT 00-051-304 **University of Arizona** **1573**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/28/1994-07/09/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F MELIA HQ/D HOLLAND 13-Physics

**NASA'S UNIVERSITY PROGRAM
ARIZONA (Continued)**

NGT 00-051-305 University of Arizona 1574
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/06/1994-07/09/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
F MELIA HQ/D HOLLAND 11-Astronomy

NGT 00-051-306 University of Arizona 1575
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/06/1994-07/09/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
G RIEKE HQ/D HOLLAND 11-Astronomy
F MELIA

NGT 00-051-324 University of Arizona 1576
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/06/1994-07/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
U FINK HQ/D HOLLAND 11-Astronomy

NGT 00-051-327 University of Arizona 1577
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/19/1994-08/14/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
H J MELOSH HQ/D HOLLAND 11-Astronomy

NGT 00-051-328 University of Arizona 1578
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/19/1994-08/14/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
C WALKER HQ/D HOLLAND 11-Astronomy

NGT 00-051-363 University of Arizona 1579
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/08/1994-07/31/1997 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
C F CHEN HQ/G A LESANE 46-Mech Engr

NGT 00-070-256 University of Arizona 1580
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
07/08/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
W RASMUSSEN HQ/D K RUSSELL 43-Chem Engr

NGT 00-070-403 University of Arizona 1581
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
09/29/1994-07/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
A ORTEGA HQ/D K RUSSELL 46-Mech Engr

NGT 5-11 University of Arizona 1582
THEORETICAL COMPARISON OF MICHELSON STELLAR
INTERFEROMETER AND DILUTE APERTURE TELESCOPE
Period Obligations
07/10/1995-08/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
A MARATHAY GSFC/G A SOFFEN 42-Astro Engr
GSFC/B D SEERY

ARKANSAS

NAG 8-277 Arkansas State University 1583
JOVE
Period Obligations
12/30/1992-05/31/1997 FY95: \$19,978 TOTAL: \$131,465
Prin. Invest. NASA Tech. Officer CASE Category
B BENNETT MSFC/F SIX 19-Phys Sci, NEC
A SUSTICH

NAG13-30 Arkansas State University 1584
RESEARCH/EVALUATION OF PARAMETERS INVOLVED CONDUCT
IVE/RESISTIVE TRACES ON FLEXABLE SUBSTRATE
Period Obligations
04/19/1994-08/31/1995 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
P SHERMAN SSC/W ST. CYR 54-Env Biology

NAG 8-197 Harding University 1585
A NASA/HARDING UNIVERSITY JOINT VENTURE IN SPACE
SCIENCE
Period Obligations
04/29/1991-04/08/1995 FY95: TOTAL: \$89,000
Prin. Invest. NASA Tech. Officer CASE Category
J MACKEY MSFC/N F SIX 11-Astronomy

NAG 9-81 University of Arkansas Main Campus - Fayetteville 1595
CHEMICAL + PHYSICAL STUDIES TYPE 3 CHOND
Period Obligations
03/01/1984-09/01/1994 FY95: TOTAL: \$558,275
Prin. Invest. NASA Tech. Officer CASE Category
D W SEARS JSC/I D BROWNE 32-Geological Sci

NAGW 3479 University of Arkansas Main Campus - Fayetteville 1596
NATURAL THERMOLUMINESCENCE OF ANTARCTIC METEORITES
AND RELATED STUDIES
Period Obligations
03/27/1993-02/28/1996 FY95: \$22,016 TOTAL: \$45,191
Prin. Invest. NASA Tech. Officer CASE Category
D SEARS HQ/H C BRINTON 32-Geological Sci

NAGW 3519 University of Arkansas Main Campus - Fayetteville 1597
CHEMICAL AND PHYSICAL STUDIES OF EXTRATERRESTRIAL
MATERIALS
Period Obligations
04/09/1993-02/28/1996 FY95: \$117,964 TOTAL: \$178,734
Prin. Invest. NASA Tech. Officer CASE Category
D SEARS HQ/H C BRINTON 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
ARKANSAS (Continued)**

NAGW 4117 University of Arkansas Main Campus - Fayetteville 1598

PILOT PROGRAM FOR THE DEVELOPMENT OF CLASSIFICATION AND ACCURACY ASSESSMENT METHODS FOR LANDSAT AND GI

<i>Period</i>	<i>Obligations</i>	
08/16/1994-09/10/1996	FY95: \$129,069	TOTAL: \$258,111
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W F LIMP	HQ/J J GAREGNANI	29-Math/Computer, NEC
	HQ/A J TUYAHOV	

NCC 2-5026 University of Arkansas Main Campus - Fayetteville 1599

THRESHOLD CONCENTRATIONS OF MOLECULAR HYDROGEN ALL OWING FOR GROWTH OF METHANOGENIC BACTERIA

<i>Period</i>	<i>Obligations</i>	
01/14/1994-01/31/1996	FY95: \$10,000	TOTAL: \$20,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T A KRAL	ARC/C P MCKAY	51-Biological Sci

NAG 8-276 University of Arkansas - Little Rock 1586

JOVE

<i>Period</i>	<i>Obligations</i>	
01/15/1993-05/31/1996	FY95: \$20,000	TOTAL: \$107,021
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T VISWANATHAN	MSFC/F SIX	19-Phys Sci, NEC
D C WOLD		

NAG10-156 University of Arkansas - Little Rock 1587

PHOTOCHEMICALLY AND THERMALLY CROSS-LINKABLE

<i>Period</i>	<i>Obligations</i>	
03/31/1995-03/31/1996	FY95: \$55,000	TOTAL: \$55,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T VISWANATHAN	KSC/C J BRYAN	12-Chemistry

NAG13-26 University of Arkansas - Little Rock 1588

SPECTROSCOPIC CHARACTERIZATION OF HYBRID ROCKET PLUMES

<i>Period</i>	<i>Obligations</i>	
05/17/1993-11/17/1994	FY95:	TOTAL: \$24,877
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K HUDSON	SSC/W W ST. CYR	13-Physics

NAG13-31 University of Arkansas - Little Rock 1589

RESEARCH ENTITLED 'HYBRID ROCKET MOTOR IR MONITORING

<i>Period</i>	<i>Obligations</i>	
06/16/1994-12/31/1994	FY95:	TOTAL: \$9,965
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K HUDSON	SSC/ST.CYR	41-Aero Engr

NCCW 55 University of Arkansas - Little Rock 1590

THE ARKANSAS PLAN FOR ENHANCEMENT OF AEROSPACE AND ECONOMIC DEVELOPMENT

<i>Period</i>	<i>Obligations</i>	
08/18/1994-04/30/1997	FY95: \$1,000,000	TOTAL: \$1,500,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G NORTHROP	HQ/L KEFFER	99-Multi-Discip

NGT 00-040-036 University of Arkansas - Little Rock 1591

NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
04/17/1991-02/28/1996	FY95: \$170,000	TOTAL: \$833,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G M NORTHROP	HQ/E T SCHWARTZ	99-Multi-Discip

NGT 00-050-886 University of Arkansas - Little Rock 1592

NASA GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
05/15/1992-06/30/1995	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M K HUDSON	SSC/A JOYCE	45-Elec Engr

NGT 00-051-013 University of Arkansas - Little Rock 1593

GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
05/06/1993-06/30/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M K HUDSON	SSC/A JOYCE	45-Elec Engr

NGT 00-051-216 University of Arkansas - Little Rock 1594

GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
05/19/1994-06/30/1997	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M K HUDSON	SSC/A JOYCE	45-Elec Engr

CALIFORNIA

NAG 1-1203 California Institute of Technology 1601

CONSTITUTIVE BEHAVIOR RELEVANT TO TOUGH MATRIX MATERIALS AND MECHANICS OF COMPOSITES

<i>Period</i>	<i>Obligations</i>	
12/21/1990-06/30/1996	FY95: \$29,641	TOTAL: \$415,099
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W G KNAUSS	LARC/T S GATES	41-Aero Engr

NAG 1-1209 California Institute of Technology 1602

RESEARCH ON SCRAM-JET COMBUSTORS

<i>Period</i>	<i>Obligations</i>	
02/13/1991-04/30/1995	FY95: \$35,000	TOTAL: \$555,821
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H G HORNING	LARC/R C ROGERS	41-Aero Engr
	LARC/G Y ANDERSON	

NAG 2-744 California Institute of Technology 1603

SUBMILLIMETER SPECTROSCOPY WITH A 500-100 GHZ SIS RECEIVER

<i>Period</i>	<i>Obligations</i>	
12/03/1991-09/30/1995	FY95: \$259,884	TOTAL: \$777,584
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J ZMUIDZINAS	ARC/C D LAUGHLIN	11-Astronomy
	ARC/C M GILLESPIE	

NAG 2-792 California Institute of Technology 1604

ROBUST NONLINEAR CONTROL OF VECTORED THRUST AIRCRAFT

<i>Period</i>	<i>Obligations</i>	
07/31/1992-05/31/1995	FY95:	TOTAL: \$173,185
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J C DOYLE	ARC/M J BRENNER	41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 2-857 California Institute of Technology 1605
 CII 158 UM OBSERVATIONS OF THE Z=2.86 IRAS SOURC E
 FSC10214+4724
Period *Obligations*
 08/13/1993-08/31/1995 FY95: TOTAL: \$33,600
Prin. Invest. NASA Tech. Officer CASE Category
 B T SOIFER ARC/C D LAUGHLIN 11-Astronomy
 J ZMUIDZINES ARC/C M GILLESPIE

NAG 2-943 California Institute of Technology 1606
 MICROGRAVITY EFFECTS ON DEVELOPING VESTIBULAR AFFE
 RENTS
Period *Obligations*
 12/20/1994-07/31/1995 FY95: \$9,796 TOTAL: \$9,796
Prin. Invest. NASA Tech. Officer CASE Category
 B CHAPMAN ARC/W E HINDS 51-Biological Sci

NAG 5-727 California Institute of Technology 1607
 RESEARCH RELATIVE TO THE CALTECH/IISOTAPE
 SPECTROMETER-IMP
Period *Obligations*
 12/22/1985-09/30/1996 FY95: \$45,205 TOTAL: \$545,459
Prin. Invest. NASA Tech. Officer CASE Category
 E C STONE GSFC/G BULLOCK 31-Atmos Sci
 R A MELWALDT

NAG 5-1458 California Institute of Technology 1608
 LOW-ENERGY GAMMA-RAY EMISSION GALAXTIC OBJECTS
Period *Obligations*
 08/23/1990-01/31/1996 FY95: \$196,584 TOTAL: \$662,395
Prin. Invest. NASA Tech. Officer CASE Category
 T A PRINCE GSFC/J P NORRIS 11-Astronomy
 J M GRUNSFELD GSFC/D A KNIFFEN
 P W GORHAM

NAG 5-1611 California Institute of Technology 1609
 EXTENSION OF THE WIDE FIELD I PLANETARY CAMERA POS
 T-LAUNCH SCIENCE AND ENGINEERING ACTIVITIES
Period *Obligations*
 05/23/1991-10/31/1995 FY95: \$849,000 TOTAL: \$9,754,480
Prin. Invest. NASA Tech. Officer CASE Category
 J A WESTPHAL GSFC/S SOBIESKI 11-Astronomy

NAG 5-1707 California Institute of Technology 1610
 THE NEAREST AND LEAST LUMINOUS SEYFERT 1 NUCLEUS
Period *Obligations*
 07/15/1991-01/14/1996 FY95: TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
 W L SARGENT GSFC/R PETRE 11-Astronomy

NAG 5-1861 California Institute of Technology 1611
 ROSAT HRI OBSERVATIONS OF THE MRK 266 SUPERWIND
Period *Obligations*
 01/22/1992-01/31/1994 FY95: TOTAL: \$28,336
Prin. Invest. NASA Tech. Officer CASE Category
 T M HECKMAN GSFC/R PETRE 11-Astronomy

NAG 5-1985 California Institute of Technology 1612
 THE X-RAY LUMINOSITY OF LOW MASS HYADES STARS
Period *Obligations*
 05/28/1992-05/31/1996 FY95: TOTAL: \$37,265
Prin. Invest. NASA Tech. Officer CASE Category
 I N REID GSFC/R PETRE 11-Astronomy

NAG 5-2090 California Institute of Technology 1613
 CORRELATIVE STUDIES OF SOLAR FLARES
Period *Obligations*
 09/02/1992-09/14/1996 FY95: TOTAL: \$152,334
Prin. Invest. NASA Tech. Officer CASE Category
 H ZIRIN GSFC/J P NORRIS 11-Astronomy
 H WANG GSFC/N WHITE

NAG 5-2168 California Institute of Technology 1614
 STUDIES OF A FREE-FLYING ASTROMAG MISSION
Period *Obligations*
 12/31/1992-12/31/1993 FY95: TOTAL: \$18,968
Prin. Invest. NASA Tech. Officer CASE Category
 R A MEWOLDT GSFC/R STRICTMATTER 11-Astronomy

NAG 5-2184 California Institute of Technology 1615
 PARTICIPATION IN THE MARS OBSERVER LASER ALTIMETER (MOLA)
 TEAM
Period *Obligations*
 02/09/1993-02/14/1994 FY95: TOTAL: \$59,750
Prin. Invest. NASA Tech. Officer CASE Category
 D O MUHLEMAN GSFC/D E SMITH 11-Astronomy

NAG 5-2193 California Institute of Technology 1616
 ROSAT DEEP SURVEY III
Period *Obligations*
 02/04/1993-08/14/1995 FY95: TOTAL: \$25,667
Prin. Invest. NASA Tech. Officer CASE Category
 M SCHMIDT GSFC/R PETRE 11-Astronomy

NAG 5-2381 California Institute of Technology 1617
 IRAS FILLER-MODE POINTED OBSERVATIONS APPLIED TO T HE
 EVOLUTION OF GALAXIES
Period *Obligations*
 09/23/1993-09/30/1994 FY95: TOTAL: \$20,823
Prin. Invest. NASA Tech. Officer CASE Category
 G NEUGEBAUER GSFC/D WEST 11-Astronomy

NAG 5-2450 California Institute of Technology 1618
 A NEW CLASS OF SOFT X-RAY SOURCE MAGNETIC BP STARS
Period *Obligations*
 02/02/1994-02/14/1995 FY95: TOTAL: \$4,500
Prin. Invest. NASA Tech. Officer CASE Category
 J LIM GSFC/R PETRE 11-Astronomy

NAG 5-2496 California Institute of Technology 1619
 COMPLETION OF THE P G QUASARS SOFT X-RAY SURVEY
Period *Obligations*
 01/27/1994-07/31/1995 FY95: TOTAL: \$32,000
Prin. Invest. NASA Tech. Officer CASE Category
 A LAOR GSFC/R PETRE 11-Astronomy

NAG 5-2504 California Institute of Technology 1620
 INVESTIGATION OF HIGH ENERGY GAMMA RAY EMISSION FROM
 AGN'S. A DEEP EXPOSURE AT HIGH
Period *Obligations*
 02/16/1994-10/31/1995 FY95: TOTAL: \$22,396
Prin. Invest. NASA Tech. Officer CASE Category
 R BLANDFORD GSFC/J P NORRIS 11-Astronomy
 C E FICHEL GSFC/N WHITE

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 5-2519 California Institute of Technology 1621
 PROBING THE RELATIVISTIC WIND OF A MILLISECOND PULSAR
Period *Obligations*
 02/21/1994-09/14/1996 FY95: \$8,000 TOTAL: \$16,000
Prin. Invest. NASA Tech. Officer CASE Category
 B R KULKARNI GSFC/N WHITE 11-Astronomy

NAG 5-2757 California Institute of Technology 1629
 EXTRAGALACTIC JETS
Period *Obligations*
 10/14/1994-12/31/1995 FY95: \$75,300 TOTAL: \$75,300
Prin. Invest. NASA Tech. Officer CASE Category
 R D BLANDFORD GSFC/D WEST 11-Astronomy

NAG 5-2520 California Institute of Technology 1622
 ASCA OBSERVATIONS OF THE UNUSUAL BINARY LSI + 61 3 03
Period *Obligations*
 02/21/1994-08/14/1996 FY95: TOTAL: \$7,861
Prin. Invest. NASA Tech. Officer CASE Category
 T A PRINCE GSFC/N WHITE 11-Astronomy

NAG 5-2761 California Institute of Technology 1630
 CORRELATIVE INVESTIGATION OF NEUTRAL EMISSIONS OF SOLAR FLARES
Period *Obligations*
 10/21/1994-10/31/1995 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
 H ZURIN GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2655 California Institute of Technology 1623
 A ROSAT DEEP GALACTIC SURVEY
Period *Obligations*
 07/21/1994-07/31/1996 FY95: \$19,800 TOTAL: \$48,500
Prin. Invest. NASA Tech. Officer CASE Category
 S R KULKARNI GSFC/D WEST 11-Astronomy

NAG 5-2768 California Institute of Technology 1631
 ASCA OBSERVATIONS OF OUTBURSTS AND QUIESCENT EMISSION FROM THE BINARY X-RAY PULSAR 0834-430
Period *Obligations*
 10/26/1994-03/14/1996 FY95: \$5,038 TOTAL: \$5,038
Prin. Invest. NASA Tech. Officer CASE Category
 L BILDSTEN GSFC/N WHITE 11-Astronomy

NAG 5-2656 California Institute of Technology 1624
 HIGH ANGULAR RESOLUTION FAR-INFRARED AND SUBMILLI-METER MAPPING SURVEY OF THE DUS
Period *Obligations*
 07/21/1994-07/31/1995 FY95: TOTAL: \$37,700
Prin. Invest. NASA Tech. Officer CASE Category
 T G PHILLIPS GSFC/D WEST 11-Astronomy

NAG 5-2782 California Institute of Technology 1632
 VARIABILITY OF SOLAR UV IRRADIANCE RELATED TO BRIG HT MAGNETIC FEATURES OBSERVED IN CALL K-LINE
Period *Obligations*
 11/07/1994-11/14/1995 FY95: \$74,924 TOTAL: \$74,924
Prin. Invest. NASA Tech. Officer CASE Category
 H ZIRIN GSFC/C H JACKMAN 31-Atmos Sci

NAG 5-2657 California Institute of Technology 1625
 THE FAR-INFRARED PROPERTIES OF HIGH REDSHIFT QUASARS AND GALAXIES OBSERVED BY IR
Period *Obligations*
 07/21/1994-07/31/1996 FY95: TOTAL: \$37,000
Prin. Invest. NASA Tech. Officer CASE Category
 L ARMUS GSFC/D WEST 11-Astronomy

NAG 5-2911 California Institute of Technology 1633
 IDENTIFYING SGR 1900 + 14, THE THIRD SORT GAMMA REPEATER WITH ROSAT
Period *Obligations*
 03/14/1995-03/31/1996 FY95: \$12,864 TOTAL: \$12,864
Prin. Invest. NASA Tech. Officer CASE Category
 S KULKARNI GSFC/R PETRE 12-Chemistry

NAG 5-2666 California Institute of Technology 1626
 THEORY AND OBSERVATION OF ACCRETING GALACTIC SOURCES
Period *Obligations*
 07/27/1994-07/31/1995 FY95: TOTAL: \$30,232
Prin. Invest. NASA Tech. Officer CASE Category
 L BILDSTEN GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2929 California Institute of Technology 1634
 POSITION MEASUREMENT OF THE ECLIPSING PULSAR OAO.
Period *Obligations*
 04/18/1995-04/30/1996 FY95: \$4,036 TOTAL: \$4,036
Prin. Invest. NASA Tech. Officer CASE Category
 L BILDSTEN GSFC/R PETRE 11-Astronomy

NAG 5-2674 California Institute of Technology 1627
 ROSAT INVESTIGATIONS OF COMPACT GROUPS AND THE GIOVANELLI-HAYNES OBJECT
Period *Obligations*
 09/15/1994-09/14/1995 FY95: \$18,733 TOTAL: \$33,775
Prin. Invest. NASA Tech. Officer CASE Category
 T HANUTTON GSFC/R PETRE 11-Astronomy

NAG 5-2956 California Institute of Technology 1635
 AN ACCURATE POSITION FOR GX 1+4
Period *Obligations*
 06/06/1995-12/14/1996 FY95: \$3,982 TOTAL: \$3,982
Prin. Invest. NASA Tech. Officer CASE Category
 F HARRISON GSFC/R PETRE 11-Astronomy

NAG 5-2756 California Institute of Technology 1628
 PULSARS: ORIGINS AND ENVIRONMENTAL IMPACT
Period *Obligations*
 10/14/1994-12/31/1995 FY95: \$113,100 TOTAL: \$113,100
Prin. Invest. NASA Tech. Officer CASE Category
 E S PHINNEY GSFC/D WEST 11-Astronomy

NAG 5-2966 California Institute of Technology 1636
 CLUSTER OBSERVATIONS FOR COMBINED X-RAY SUNYEAVAL'DOVICH ESTIMATES OF PECULIAR VELOCITIES ETC...
Period *Obligations*
 06/12/1995-12/14/1996 FY95: \$41,300 TOTAL: \$41,300
Prin. Invest. NASA Tech. Officer CASE Category
 A LANGE GSFC/N WHITE 12-Chemistry

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 8-954 California Institute of Technology 1637
METALLIC GLASS RESEARCH IN SPACE
Period Obligations
06/07/1983-03/14/1996 FY95: \$133,931 TOTAL: \$483,931
Prin. Invest. NASA Tech. Officer CASE Category
W L JOHNSON MSFC/R C DARTY 13-Physics

NAGW 1509 California Institute of Technology 1645
PHOTOCHEMICAL STUDIES OF CHEMISTRY
Period Obligations
11/17/1988-12/31/1996 FY95: \$75,000 TOTAL: \$555,495
Prin. Invest. NASA Tech. Officer CASE Category
Y L YUNG HQ/J T BERGSTRALH 11-Astronomy

NAG 9-43 California Institute of Technology 1638
INVEST LUNAR/PLANETARY MATERIALS
Period Obligations
02/07/1983-09/01/1994 FY95: TOTAL: \$10,509,672
Prin. Invest. NASA Tech. Officer CASE Category
G J WASSERBURG JSC/I D BROWNE 32-Geological Sci

NAGW 1919 California Institute of Technology 1646
HIGH ENERGY ASTROPHYSICS GAMMA-RAY ASTRONOMY RESEARCH AND ANALYSIS PROGRAM
Period Obligations
02/20/1990-09/30/1995 FY95: \$875,000 TOTAL: \$4,992,175
Prin. Invest. NASA Tech. Officer CASE Category
E C STONE HQ/W V JONES 11-Astronomy
T A PRINCE HQ/L J KALUZIENSKI

NAGW 107 California Institute of Technology 1639
ONOMY
Period Obligations
11/01/1980-11/30/1995 FY95: \$421,000 TOTAL: \$2,013,148
Prin. Invest. NASA Tech. Officer CASE Category
T G PHILLIPS HQ/F C GILLETT 11-Astronomy
HQ/E J WEILER

NAGW 1941 California Institute of Technology 1647
IMPACT AND COLLISIONAL PROCESSES IN THE SOLAR SYSTEM
Period Obligations
02/20/1990-09/30/1996 FY95: \$198,000 TOTAL: \$1,198,600
Prin. Invest. NASA Tech. Officer CASE Category
T J AHRENS HQ/T A MAXWELL 32-Geological Sci

NAGW 185 California Institute of Technology 1640
HIGH PRESSURE COSMOCHEMISTRY APPLIED TO MAJOR PLANETARY
Period Obligations
04/01/1981-09/30/1997 FY95: \$84,846 TOTAL: \$1,072,818
Prin. Invest. NASA Tech. Officer CASE Category
D J STEVENSON HQ/J UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

NAGW 1953 California Institute of Technology 1648
NAGW-1953/CALIF INSTITUTE OF TECHNOLOGY/IMPACT CRATERING CALCULATIONS
Period Obligations
01/03/1990-09/30/1996 FY95: \$73,000 TOTAL: \$470,019
Prin. Invest. NASA Tech. Officer CASE Category
T J AHRENS HQ/T A MAXWELL 32-Geological Sci

NAGW 413 California Institute of Technology 1641
RESEARCH ON A PROPOSAL ENTITLED, PHOTOCHEMICAL MODELING OF TRACE SPECIES IN THE STRATOSPHERE AND MESOSPHERE
Period Obligations
01/19/1983-12/31/1995 FY95: \$95,000 TOTAL: \$1,386,278
Prin. Invest. NASA Tech. Officer CASE Category
Y L YUNG HQ/C H JACKMAN 31-Atmos Sci
T H KRUSE HQ/D M BUTLER

NAGW 1955 California Institute of Technology 1649
NAGW-1955/LASER SPECTROSCOPIC STUDIES OF CARBONACEOUS CLUSTERS AND ULTRAFINE PARTICLES
Period Obligations
04/27/1990-06/30/1996 FY95: \$100,000 TOTAL: \$251,125
Prin. Invest. NASA Tech. Officer CASE Category
G A BLAKE HQ/J D RUMMEL 12-Chemistry

NAGW 1448 California Institute of Technology 1642
LUNAR AND PLANETARY STUDIES
Period Obligations
09/01/1988-11/30/1994 FY95: TOTAL: \$587,014
Prin. Invest. NASA Tech. Officer CASE Category
D O MUHLEMAN HQ/J H RAHE 11-Astronomy

NAGW 1956 California Institute of Technology 1650
NAGW-1956/CALIF INSTITUTE OF TECHNOLOGY/DYNAMICS OF PLANETARY ATMOSPHERES
Period Obligations
03/16/1990-11/30/1995 FY95: \$100,000 TOTAL: \$574,750
Prin. Invest. NASA Tech. Officer CASE Category
A P INGERSOLL HQ/J T BERGSTRALH 11-Astronomy

NAGW 1478 California Institute of Technology 1643
CO-INVESTIGATOR SUPPORT ON INFRARED SPACE OBSERVATION
Period Obligations
11/01/1988-12/31/1995 FY95: \$121,413 TOTAL: \$332,377
Prin. Invest. NASA Tech. Officer CASE Category
A I SARGENT HQ/G S LEVY 11-Astronomy

NAGW 1972 California Institute of Technology 1651
RESEARCH IN SOLAR MAGNETISM AND SOLAR ACTIVITY
Period Obligations
02/15/1990-05/31/1997 FY95: \$300,000 TOTAL: \$1,972,805
Prin. Invest. NASA Tech. Officer CASE Category
H ZIRIN HQ/J D BOHLIN 13-Physics
HQ/S KANE

NAGW 1499 California Institute of Technology 1644
SYNTHETIC APERTURE PLANETARY RADAR ASTRONOMY USING THE VERY
Period Obligations
11/17/1988-10/31/1995 FY95: TOTAL: \$247,000
Prin. Invest. NASA Tech. Officer CASE Category
D O MUHLEMAN HQ/J H RAHE 11-Astronomy

NAGW 2144 California Institute of Technology 1652
PROBING THE RELATIONSHIP BETWEEN ULTRALUMINOUS INFRA-RED GALAXIES AND QUASARS
Period Obligations
05/30/1990-12/31/1995 FY95: \$187,000 TOTAL: \$1,280,000
Prin. Invest. NASA Tech. Officer CASE Category
B T SOIFER HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 2196 California Institute of Technology 1653
 NAGW-2196/CALIF INSTITUTE TECHNOLOGY/MILLIMETER
 INTERFEROMETRY OF PROTO-PLANETARY DISKS
Period Obligations
 08/09/1990-10/31/1993 FY95: TOTAL: \$163,724
Prin. Invest. NASA Tech. Officer CASE Category
 A I SARGENT HQ/J A NUTH 11-Astronomy

NAGW 2204 California Institute of Technology 1654
 NAGW-2204/CA INST. OF TECHNOLOGY/ATMOSPHERE-SURFAC E
 INTERACTIONS IN MARTIAN PHOTOCHEMISTRY THROUGH
Period Obligations
 03/06/1991-06/30/1994 FY95: TOTAL: \$128,648
Prin. Invest. NASA Tech. Officer CASE Category
 Y L YUNG HQ/J M BOYCE 32-Geological Sci
 HQ/G R RIEGLER

NAGW 2279 California Institute of Technology 1655
 IRRADIATION EFFECTS ON EXTRATERRESTRIAL GRAINS
Period Obligations
 02/26/1991-02/28/1996 FY95: TOTAL: \$195,013
Prin. Invest. NASA Tech. Officer CASE Category
 T A TOMBRELLO HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2297 California Institute of Technology 1656
 A LABORATORY AND OBSERVATIONAL STUDY OF THE CHEMIC AL
 EVOLUTION OF PROTOSTELLAR NEBULAE
Period Obligations
 05/21/1991-02/29/1996 FY95: \$30,000 TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 G A BLAKE HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2362 California Institute of Technology 1657
 NEPTUNE DATA ANALYSIS PROGRAM MODELING OF ION PROC
 ESSES IN THE ATMOSPHERE OF TRITON AND NEPTUNE
Period Obligations
 05/22/1991-04/30/1994 FY95: TOTAL: \$236,449
Prin. Invest. NASA Tech. Officer CASE Category
 Y L YUNG HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2363 California Institute of Technology 1658
 NEPTUNE DATA ANALYSIS PROGRAM ATMOSPHERIC DYNAMICS
 FROM IMAGE SEQUENCE
Period Obligations
 03/01/1991-03/31/1995 FY95: TOTAL: \$267,963
Prin. Invest. NASA Tech. Officer CASE Category
 A P INGERSOLL HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2372 California Institute of Technology 1659
 CONTINUUM MECHANICS OF STARS, DISKS, AND JETS
Period Obligations
 06/03/1991-12/31/1994 FY95: TOTAL: \$322,700
Prin. Invest. NASA Tech. Officer CASE Category
 R D BLANDFORD HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2394 California Institute of Technology 1660
 NEUTRON STARS IN GLOBULAR CLUSTERS
Period Obligations
 03/22/1991-06/30/1994 FY95: TOTAL: \$251,219
Prin. Invest. NASA Tech. Officer CASE Category
 E S PHINNEY HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2439 California Institute of Technology 1661
 COMETARY NUCLEUS CORE SAMPLING
Period Obligations
 04/29/1991-01/31/1997 FY95: \$83,449 TOTAL: \$405,506
Prin. Invest. NASA Tech. Officer CASE Category
 T J AHRENS HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2491 California Institute of Technology 1662
 MARS 94 PARTICIPATING SCIENTIST PROGRAM
Period Obligations
 06/13/1991-12/31/1995 FY95: \$30,000 TOTAL: \$210,000
Prin. Invest. NASA Tech. Officer CASE Category
 B MURRAY HQ/W QUAIDE 19-Phys Sci, NEC

NAGW 2496 California Institute of Technology 1663
 NAGW-2496/CA INSTITUTE TECHNOLOGY/EVOLUTION AND
 STRUCTURE OF TRITON CONSTRAINED BY VOYAGER
Period Obligations
 06/04/1991-12/31/1994 FY95: TOTAL: \$153,604
Prin. Invest. NASA Tech. Officer CASE Category
 D J STEVENSON HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2576 California Institute of Technology 1664
 MARS '94 MISSION: CO-INVESTIGATOR PROPOSAL
Period Obligations
 08/22/1991-07/31/1995 FY95: \$15,000 TOTAL: \$115,124
Prin. Invest. NASA Tech. Officer CASE Category
 D O MUHLEMAN HQ/W QUAIDE 19-Phys Sci, NEC

NAGW 2806 California Institute of Technology 1665
 AN INTERDIGITATED-PIXEL PIN DETECTOR
Period Obligations
 01/06/1992-12/31/1993 FY95: TOTAL: \$337,473
Prin. Invest. NASA Tech. Officer CASE Category
 R A MEWALDT HQ/J K ALEXANDER 13-Physics
 HQ/D A HOLLAND

NAGW 2813 California Institute of Technology 1666
 A LABORATORY AND ASTROPHYSICAL STUDY OF DRIVEN INF
 RARED EMISSION FROM PAH AND PAH CLUSTERS
Period Obligations
 01/02/1992-11/30/1995 FY95: \$50,000 TOTAL: \$159,500
Prin. Invest. NASA Tech. Officer CASE Category
 G A BLAKE HQ/L J CAROFF 11-Astronomy

NAGW 2816 California Institute of Technology 1667
 THEORETICAL PROSPECTS FOR ORBITING VERY LONG BASEL INE
 INTERFEROMETRY
Period Obligations
 01/06/1992-11/30/1994 FY95: TOTAL: \$152,102
Prin. Invest. NASA Tech. Officer CASE Category
 R D BLANDFORD HQ/L J CAROFF 11-Astronomy

NAGW 2897 California Institute of Technology 1668
 LOW FREQUENCY GRAVITATIONAL-WAVE SOURCES AND THEIR
 IMPLICATIONS FOR FUTURE NASA MISSIONS
Period Obligations
 02/19/1992-12/31/1994 FY95: TOTAL: \$147,000
Prin. Invest. NASA Tech. Officer CASE Category
 K S THORNE HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 2920 California Institute of Technology 1669
 GAMMA RAY EMISSION FROM ACCRETING NEURON
Period Obligations
 02/26/1992-01/31/1995 FY95: TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 R D BLANFORD HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAGW 3297 California Institute of Technology 1677
 NAGW-3297/CALTECH/DEVELOPMENT AND APPLICATION OF THE
 ION MICROPROBE FOR ANALYSIS OF EXTRATERRESTRIAL
Period Obligations
 12/10/1992-11/14/1995 FY95: \$378,000 TOTAL: \$1,116,000
Prin. Invest. NASA Tech. Officer CASE Category
 G J WASSERBURG HQ/G C BRINTON 32-Geological Sci

NAGW 3011 California Institute of Technology 1670
 ANALYSIS OF SYNTHETIC APERTURE RADAR IMAGES OF MARS,
 VENUS AND MERCURY
Period Obligations
 03/20/1992-02/28/1996 FY95: \$50,000 TOTAL: \$147,000
Prin. Invest. NASA Tech. Officer CASE Category
 D O MUHLEMAN HQ/J M BOYCE 32-Geological Sci

NAGW 3303 California Institute of Technology 1678
 SUBMILLIMETER FOURIER TRANSFORM SPECTROSCOPY OF PL
 ANETARY ATMOSPHERES
Period Obligations
 01/06/1993-11/30/1994 FY95: TOTAL: \$83,400
Prin. Invest. NASA Tech. Officer CASE Category
 E SARABYN HQ/H C BRINTON 11-Astronomy

NAGW 3012 California Institute of Technology 1671
 DETECTION AND INTERACTIONS OF ULTRA HEAVY NUCLEI AND
 COSMIC RAY PROPAGATION
Period Obligations
 03/20/1992-02/28/1996 FY95: TOTAL: \$80,218
Prin. Invest. NASA Tech. Officer CASE Category
 E C STONE HQ/W V JONES 13-Physics
 HQ/J D BOHLIN

NAGW 3337 California Institute of Technology 1679
 NAGW-3337/CA INST. TECHNOLOGY/GEOCHEMICAL AND ISOTO
 PIC INVESTIGATIONS OF LUNAR AND PLANETARY MATERIALS
Period Obligations
 01/26/1993-11/14/1995 FY95: \$803,100 TOTAL: \$2,459,300
Prin. Invest. NASA Tech. Officer CASE Category
 G J WASSERBURG HQ/H C BRINTON 32-Geological Sci

NAGW 3018 California Institute of Technology 1672
 INTERACTIONS AMONG CONVECTION, MAGNETIC FIELDS, AND
 P-MODE OSCILLATIONS IN THE SUN
Period Obligations
 04/03/1992-12/31/1994 FY95: TOTAL: \$153,000
Prin. Invest. NASA Tech. Officer CASE Category
 P GOLDRICH HQ/W J WAGNER 13-Physics
 HQ/J D BOHLIN

NAGW 3393 California Institute of Technology 1680
 THE PHY. ST. OF THE VENUS SUR. AS REVEALED FROM MA
 GELLAN
 RADIO EMISS. AND REFLEC. DATA
Period Obligations
 03/09/1993-03/14/1996 FY95: TOTAL: \$101,975
Prin. Invest. NASA Tech. Officer CASE Category
 D O MUHLEMAN HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3040 California Institute of Technology 1673
 ISOTOPIC, CHEMICAL AND MORPHOLOGICAL STUDY OF INTE
 RSTELLAR GRAINS PRESERVED IN METEORITES
Period Obligations
 04/17/1992-04/30/1996 FY95: \$50,000 TOTAL: \$300,000
Prin. Invest. NASA Tech. Officer CASE Category
 G J WASSERBURG HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3491 California Institute of Technology 1681
 VENUS EVOLUTION AND STRUCTURE USING MAGELLAN DATA
Period Obligations
 03/27/1992-03/14/1995 FY95: TOTAL: \$119,897
Prin. Invest. NASA Tech. Officer CASE Category
 D J STEVENSON HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3140 California Institute of Technology 1674
 EVOLUTION OF THE PROTO-SOLAR NEBULA; DISKS IN THE
 PRE-MAIN SEQUENCE ENVIRONMENT
Period Obligations
 07/24/1992-07/31/1995 FY95: TOTAL: \$68,768
Prin. Invest. NASA Tech. Officer CASE Category
 A I SARGENT HQ/H C BRINTON 11-Astronomy

NAGW 3507 California Institute of Technology 1682
 WATES ON VENUS EVOLUTION AND ORIGIN AS CONSTRAINED BY
 PRESENT DATA
Period Obligations
 04/09/1993-03/31/1995 FY95: TOTAL: \$110,500
Prin. Invest. NASA Tech. Officer CASE Category
 Y L YUNG HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3207 California Institute of Technology 1675
 MILLISECOND PULSARS AND PLANETARY SYSTEMS
Period Obligations
 09/30/1992-09/30/1995 FY95: \$105,066 TOTAL: \$155,010
Prin. Invest. NASA Tech. Officer CASE Category
 S R KULKARNI HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3533 California Institute of Technology 1683
 EXPERIMENTAL STUDIES OF PHASE EQUILIBRIA OF METEORIT
 ES AND PLANETARY INTERIORS
Period Obligations
 04/29/1993-02/28/1998 FY95: \$141,323 TOTAL: \$447,254
Prin. Invest. NASA Tech. Officer CASE Category
 E STOLPER HQ/H C BRINTON 32-Geological Sci

NAGW 3253 California Institute of Technology 1676
 NAGW-3253/CALTECH/THE ORIGIN AND EVOLUTION OF NEU
 TRON STARS
Period Obligations
 11/09/1992-04/30/1996 FY95: \$82,200 TOTAL: \$292,402
Prin. Invest. NASA Tech. Officer CASE Category
 S KULKARNI HQ/G R RIEGLER 11-Astronomy

NAGW 3534 California Institute of Technology 1684
 NAGW-3534/CALTECH/HOMOGENEOUS ORIGINS FOR THE SODI
 UM CLOUD OF IO
Period Obligations
 04/21/1993-04/30/1996 FY95: \$41,096 TOTAL: \$125,451
Prin. Invest. NASA Tech. Officer CASE Category
 D S BURNETT HQ/H C BRINTON 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 3592 California Institute of Technology 1685
EXPER. AND ANAL. STUD. OF SOLAR SYSTEM CHEMISTRY
Period *Obligations*
05/14/1993-01/31/1996 FY95: \$116,442 TOTAL: \$355,454
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D S BURNETT HQ/H C BRINTON 32-Geological Sci

NAGW 4110 California Institute of Technology 1693
THE X-RAY BACKGROUND AS A PROBE OF GALAXY EVOLUTIO N
Period *Obligations*
08/19/1994-04/30/1995 FY95: TOTAL: \$97,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T HAMILTON HQ/D E NEW 13-Physics

NAGW 3883 California Institute of Technology 1686
NAGW-3883/B CALIF. INST. OF TECH. 'APPL. OF STABLE ISOT.
MEASUREMENT. TO THE STUDY OF THE ORIGIN..'
Period *Obligations*
03/08/1994-02/28/1997 FY95: \$89,400 TOTAL: \$195,434
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S EPSTEIN HQ/J BOYCE 32-Geological Sci

NAGW 4182 California Institute of Technology 1694
INSTRUMENTS FOR THE DISCOVERY SOLAR WIND SAMPLE RETURN
MISSION
Period *Obligations*
10/26/1994-06/30/1997 FY95: \$260,000 TOTAL: \$260,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D S BURNETT HQ/T KOSTIUK 11-Astronomy

NAGW 3893 California Institute of Technology 1687
MOLECULAR BEAM STUDIES OF STRATOSPHERIC PHOTOCHEMI
STRY
Period *Obligations*
03/16/1994-12/31/1995 FY95: \$69,319 TOTAL: \$133,450
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M OKUMARA HQ/M J KURYLO 31-Atmos Sci
HQ/R F HAMPSON

NAGW 4193 California Institute of Technology 1695
MILLIMETER APERTURE SYNTHESIS POLARIMETRY AND THE
FORMATION AND EVOLUTION OF PROTOPLANETARY DISK
Period *Obligations*
11/04/1994-09/30/1996 FY95: \$124,078 TOTAL: \$124,078
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J E CARLSTROM HQ/P ROGERS 11-Astronomy

NAGW 3994 California Institute of Technology 1688
STUDIES OF IMAGING TECHNIQUES FOR HIGH-RESOLUTION
IMAGING OF SOLAR HARD X-RAYS AND GAMMA-RAYS
Period *Obligations*
06/07/1994-06/30/1996 FY95: \$70,213 TOTAL: \$140,426
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G J HURFORD HQ/W J WAGNER 13-Physics
HQ/J D BOHLIN

NAGW 4268 California Institute of Technology 1696
LOW-FREQUENCY GRAVITATIONAL-WAVE SOURCES AND THEIR
IMPLICATIONS FOR FUTURE NASA MISSIONS
Period *Obligations*
01/25/1995-12/31/1997 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K S THORNE HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAGW 4011 California Institute of Technology 1689
PALOMAR OBSERVATIONS OF THE COLLISION OF COMET SHO
EMAKER-LEVY 9 WITH JUPITER
Period *Obligations*
05/23/1994-02/14/1995 FY95: TOTAL: \$14,004
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G NEUGEBAUER HQ/J H RAHE 11-Astronomy

NAGW 4334 California Institute of Technology 1697
CHEMISTRY AND DYNAMICS OF THE VENUS MESOSPHERE AND
ATMOSPHERE: OBSERVATIONAL CONSTRAINTS
Period *Obligations*
03/04/1995-01/31/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
Y YUNK HQ/J RAHE 99-Multi-Discip

NAGW 4026 California Institute of Technology 1690
ION MICROPROBE MEASUREMENTS OF C IN PRIMITIVE METE
ORITES
Period *Obligations*
05/26/1994-04/30/1996 FY95: \$47,284 TOTAL: \$79,906
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E STOLPER HQ/P ROGERS 47-Materials Engr

NAGW 4517 California Institute of Technology 1698
STUDIES OF PERIODIC AND APERIODIC VARIABILITY IN A CRETING
NEUTRON STAR BINARY SYSTEMS
Period *Obligations*
05/30/1995-04/30/1996 FY95: \$110,000 TOTAL: \$110,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T PRINCE HQ/G R RIEGLER 11-Astronomy

NAGW 4030 California Institute of Technology 1691
MILLIMETER INTERFEROMETRY OF PROTO-PLANETARY DISKS
Period *Obligations*
06/03/1994-03/31/1997 FY95: \$99,720 TOTAL: \$151,833
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A SARGENT HQ/P ROGERS 11-Astronomy

NAGW 4562 California Institute of Technology 1699
PLANETARY RADAR ASTRONOMY USING THE VERY LARGE
ARRAY
Period *Obligations*
06/06/1995-11/30/1997 FY95: \$105,000 TOTAL: \$105,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D MUHLEMAN HQ/J RAHE 11-Astronomy

NAGW 4058 California Institute of Technology 1692
PRECISION SOLAR DISK PHOTOMETRY- A TOOL FOR
UNDERSTANDING CHANGES IN THE SUN'S LUMINOSITY
Period *Obligations*
06/17/1994-04/30/1997 FY95: TOTAL: \$35,416
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K G LIBBRECHT HQ/W J WAGNER 13-Physics
HQ/J D BOHLIN

NAGW 4563 California Institute of Technology 1700
MEASUREMENTS OF THE SOLAR CORONA AND MAGNETIC FIELDS
USING IMAGING MICROWAVE SPECTROSCOPY
Period *Obligations*
06/06/1995-11/30/1997 FY95: \$81,908 TOTAL: \$81,908
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D E GARY HQ/W J WAGNER 13-Physics
HQ/J D BOHLIN

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 4623 California Institute of Technology 1701
SPACE-BORNE INFRARED ASTRONOMY
Period *Obligations*
08/11/1995-05/31/1996 FY95: \$150,000 TOTAL: \$150,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A E LANGE HQ/L J CAROFF 11-Astronomy
HQ

NAS 5-32642 California Institute of Technology 1709
HIGH RESOLUTION IRAS MAPS OF THE GALAXY AT 60 AND 100 MICRONS
Period *Obligations*
09/20/1994-10/19/1997 FY95: \$138,400 TOTAL: \$138,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T A PRINCE GSFC/D WEST 11-Astronomy

NAGW 4666 California Institute of Technology 1702
ADVANCED SILICON RADIATION DETECTORS FOR SPACE SCIENCE
Period *Obligations*
09/22/1995-07/31/1998 FY95: \$150,065 TOTAL: \$150,065
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A MEWALDT HQ/D A HOLLAND 12-Chemistry
HQ/J H BREDEKAMP

NAS 5-38097 California Institute of Technology 1710
JOINT ULTRAVIOLET NIGHTSKY OBSERVER (JUNO) FOR SMALL EXPLORERS (SMEX) PROGRAM
Period *Obligations*
12/17/1993-12/31/1995 FY95: \$200,000 TOTAL: \$702,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C MARTIN GSFC/R ALEMAN 11-Astronomy

NAGW 4721 California Institute of Technology 1703
ADVANCED X-RAY EMISSION AS A PROBE OF GALAXY EVOLUTION
Period *Obligations*
08/24/1995-04/30/1996 FY95: \$102,400 TOTAL: \$102,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T T HAMILTON HQ/G RIEGLER 32-Geological Sci

NCCW 62 California Institute of Technology 1711
KECK OBSERVATORY COLLABORATION
Period *Obligations*
09/30/1994-09/30/2000 FY95: \$6,800,000 TOTAL: \$13,600,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E STONE HQ/J H RAHE 11-Astronomy

NAGW 4754 California Institute of Technology 1704
BOLOMETRIC ARRAY DETECTORS FOR SPACE-BORNE ASTRONOMY
Period *Obligations*
09/16/1995-08/31/1996 FY95: \$115,146 TOTAL: \$115,146
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A E LANGE HQ/D A HOLLAND 11-Astronomy
HQ/J H BREDEKAMP

NGT 00-030-075 California Institute of Technology 1712
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
08/30/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S O PEHKONEN HQ/D M BUTLER 33-Oceanography
M R HOFFMANN HQ/G S WILSON

NAGW 4779 California Institute of Technology 1705
8TH INTERNATIONAL SYMPOSIUM ON MICROBIAL GROWTH ON C1 COMPOUNDS
Period *Obligations*
09/16/1995-07/31/1996 FY95: \$2,500 TOTAL: \$2,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M E LIDSTROM HQ/J A KAYE 31-Atmos Sci
HQ/R A SCHIFFER

NGT 00-030-255 California Institute of Technology 1713
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/02/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H TAYLOR HQ/M BALTUCK 32-Geological Sci
HQ/G ASRAR

NAS 3-27263 California Institute of Technology 1706
SOLUTE NUCLEATION AND GROWTH IN SUPERCRITICAL FLUID MIXTURES
Period *Obligations*
08/18/1994-08/17/1997 FY95: TOTAL: \$44,105
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G T SMEDLEY LERC/G A ZIMMERK 43-Chem Engr
G WILEMSKI

NGT 00-030-329 California Institute of Technology 1714
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
08/07/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
Y L YUNG HQ/R A SCHIFFER 31-Atmos Sci
HQ/G ASRAR

NAS 5-31459 California Institute of Technology 1707
PHASE B DEFINITION STUDY OF THE ADVANCED COMPOSITION EXPLORER (ACE) SCIENCE PAYLOAD
Period *Obligations*
04/22/1991-09/30/1995 FY95: TOTAL: \$7,305,060
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E STONE GSFC/J LAUDADIO 13-Physics

NGT 00-050-727 California Institute of Technology 1715
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
10/28/1991-09/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M OKUMURA JPL/H ASHKENAS 12-Chemistry

NAS 5-32626 California Institute of Technology 1708
PHASE C/D DESIGN AND DEVELOPMENT OF THE ADVANCED COMPOSITION EXPLORER (ACE) SCIENCE PAYLOAD
Period *Obligations*
01/03/1994-11/21/1997 FY95: \$14,633,100 TOTAL: \$24,435,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E STONE GSFC/J LAUDADIO 19-Phys Sci, NEC

NGT 00-050-742 California Institute of Technology 1716
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/01/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J C DOYLE HQ/F C OWENS 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-050-800 California Institute of Technology 1717
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1991-09/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 E M STOLPER HQ/F C OWENS 12-Chemistry

NGT 00-050-818 California Institute of Technology 1718
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 K G LIBBRECHT HQ/J ALEXANDER 11-Astronomy

NGT 00-050-890 California Institute of Technology 1719
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/17/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M OKUMURA JPL/H ASHKENAS 12-Chemistry

NGT 00-050-891 California Institute of Technology 1720
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/05/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 B C MURRAY JPL/H ASHKENAS 11-Astronomy

NGT 00-050-893 California Institute of Technology 1721
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/04/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G NEUGEBAVER JPL/A ASHKENAS 13-Physics

NGT 00-051-071 California Institute of Technology 1722
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/24/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D STEVENSON HQ/D HOLLAND 11-Astronomy

NGT 00-051-084 California Institute of Technology 1723
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/01/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D BURNETT HQ/D HOLLAND 12-Chemistry

NGT 00-051-156 California Institute of Technology 1724
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/04/1993-09/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R MEWALDT HQ/D HOLLAND 13-Physics

NGT 00-051-184 California Institute of Technology 1725
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/20/1993-09/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 T A PRINCE MSFC/F SIX 13-Physics

NGT 00-051-201 California Institute of Technology 1726
 GRAD STUDENT RESEARCHERS PROGRAM
Period Obligations
 04/25/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J CARLSTROM MSFC/F SIX 13-Physics

NGT 00-051-212 California Institute of Technology 1727
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/08/1994-09/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 T G PHILLIPS GSFC/G SOFFEN 13-Physics

NGT 00-051-276 California Institute of Technology 1728
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 G A BLAKE JPL/C HIX 12-Chemistry

NGT 00-051-397 California Institute of Technology 1729
 GSRP
Period Obligations
 06/16/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 B C MURRAY JPL/C HICKS 11-Astronomy

NGT 00-060-009 California Institute of Technology 1730
 NASA SUMMER UNDERGRADUATE RESEARCH PROGRAM
Period Obligations
 03/09/1993-07/31/1996 FY95: \$30,000 TOTAL: \$110,000
Prin. Invest. NASA Tech. Officer CASE Category
 C MERKEL HQ/A S MCGEE 49-Engr, NEC
 HQ/E T SCHWARTZ

NGT 00-070-265 California Institute of Technology 1731
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 05/04/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D RUFLEDGE JPL/H ASHKENAS 45-Elec Engr

NGT 00-070-287 California Institute of Technology 1732
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 11/02/1992-09/30/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A HREWALDS HQ/J K ALEXANDER 13-Physics

NGT 00-070-335 California Institute of Technology 1733
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 07/01/1993-06/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J HOPEFIELD HQ/D J RUSSELL 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-070-372 California Institute of Technology 1734
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/22/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 H G HOMUNG HQ/D K RUSSELL 42-Astro Engr

NGT 00-090-175 California Institute of Technology 1735
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/10/1993-08/14/1994 FY95: TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 E ZUKOSKIN HQ/D K RUSSELL 99-Multi-Discip

NGT 5-3790 California Institute of Technology 1736
 SUMMER FACULTY FELLOWSHIP PROGRAM -TRAINING GRANT
Period Obligations
 01/01/1979-03/31/1996 FY95: \$440,338 TOTAL: \$5,217,887
Prin. Invest. NASA Tech. Officer CASE Category
 A L ALBEE HQ/A S MCGEE 49-Engr, NEC
 HQ/E T SCHWARTZ

NSG-1483 California Institute of Technology 1737
 LOW SPEED IMPACT DAMAGE ON COMPOSITE MATERIALS
Period Obligations
 01/04/1978-11/14/1995 FY95: \$59,987 TOTAL: \$1,018,530
Prin. Invest. NASA Tech. Officer CASE Category
 W G KNAUSS LARC/J H STARNES 41-Aero Engr
 C D BABCOCK

NAG 2-778 California Polytechnic State U-San Luis 1738
 EVALUATION OF DUAL FLOW THRUST VECTOR NOZZLES WITH
 EXHAUST STREAM IMPINGEMENT
Period Obligations
 04/10/1992-07/30/1994 FY95: TOTAL: \$83,047
Prin. Invest. NASA Tech. Officer CASE Category
 T W CARPENTER ARC/R J RAY 41-Aero Engr
 S DOBBINS/A H BOWERS

NAG 2-833 California Polytechnic State U-San Luis 1739
 INTUITIVE GENERIC DISPLAYS FOR REAL TIME SELECTION OF
 AERODYNAMIC COEFFICIENTS FURING FLIGHT SIMULA
Period Obligations
 04/15/1993-02/26/1996 FY95: \$20,000 TOTAL: \$65,491
Prin. Invest. NASA Tech. Officer CASE Category
 D BIEZAD ARC/L J SCHILLING 29-Math/Cmputer,NEC
 ARC/M B EVANS

NAG 2-932 California Polytechnic State U-San Luis 1740
 NUMERICAL SIMULATION OF THE 11 X 11 TRANSONIC WIND TUNNEL
 USING 'TRANAIR' FINITE ELEMENT CODE
Period Obligations
 09/27/1994-04/14/1995 FY95: \$7,000 TOTAL: \$17,000
Prin. Invest. NASA Tech. Officer CASE Category
 J G LOCASCIO ARC/M MADISON 41-Aero Engr

NAG 4-101 California Polytechnic State U-San Luis 1741
 CAL POLY THRUST VECTOR GRADUATE RESEARCH AWARD
Period Obligations
 05/18/1995-05/16/1997 FY95: \$87,270 TOTAL: \$87,270
Prin. Invest. NASA Tech. Officer CASE Category
 T W CARPENTER DFRC/R RAY 41-Aero Engr
 DFRC/A H BOWERS

NAG 4-102 California Polytechnic State U-San Luis 1742
 CAL POLY THRUST VECTOR UNDERGRADUATE RESEARCH
Period Obligations
 05/19/1995-05/16/1998 FY95: \$111,941 TOTAL: \$111,941
Prin. Invest. NASA Tech. Officer CASE Category
 T W CARPENTER DFRC/A H BOWERS 41-Aero Engr

NAGW 4287 California Polytechnic State U-San Luis 1743
 ADVANCED DESIGN PROGRAM
Period Obligations
 02/07/1995-03/31/1996 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
 R VAN-T RIET HQ/A S MCGEE 49-Engr, NEC
 HQ/G SEIDEL

NCA 2-811 California Polytechnic State U-San Luis 1744
 AN EXPERIMENTAL INVESTIGATION OF THE EFFECT OF UPP ER
 SURFACE BLOWING ON DYNAMIC STALL
Period Obligations
 04/21/1993-08/31/1994 FY95: TOTAL: \$12,722
Prin. Invest. NASA Tech. Officer CASE Category
 J TSO ARC/K MCALISTER 41-Aero Engr

NCA 2-816 California Polytechnic State U-San Luis 1745
 AN EXPERIMENTAL INVESTIGATION OF REDUCTION OF AERO
 DYNAMICALLY GENERATED MICROPHONE SELF-NOISE
Period Obligations
 05/12/1993-03/31/1995 FY95: \$3,143 TOTAL: \$31,124
Prin. Invest. NASA Tech. Officer CASE Category
 J TSO ARC/P T SODERMAN 41-Aero Engr

NCC 2-748 California Polytechnic State U-San Luis 1746
 EVALUATION OF SINGLE AND DUAL FLOW THRUST VECTOR NOZ
 ZLES WITH POST EXIT VANES
Period Obligations
 03/03/1992-12/31/1994 FY95: TOTAL: \$138,597
Prin. Invest. NASA Tech. Officer CASE Category
 T W CARPENTER ARC/A H BOWERS 41-Aero Engr
 M BOVARKOVICH
 M DORIS

NCC 2-775 California Polytechnic State U-San Luis 1747
 GLOBAL POSITIONING SYSTEM FEASIBILITY STUDY FOR HE
 LICOPTER APPROACHES
Period Obligations
 10/19/1992-01/14/1994 FY95: TOTAL: \$41,812
Prin. Invest. NASA Tech. Officer CASE Category
 D J BIEZAD ARC/H N SWENSON 41-Aero Engr
 D N KAUFMANN
 W B PATTERSON

NCC 2-800 California Polytechnic State U-San Luis 1748
 RAPID ASSESSMENT OF AGLITY FOR CONCEPTUAL DESIGN
 SYNTHESIS
Period Obligations
 05/20/1993-06/30/1996 FY95: TOTAL: \$44,447
Prin. Invest. NASA Tech. Officer CASE Category
 D J BEIZAD ARC/G C HILL 41-Aero Engr

NCC 2-813 California Polytechnic State U-San Luis 1749
 NUMERICAL DESIGN OF ADVANCED MULTI-ELEMENT AIRFOIL S
Period Obligations
 07/16/1993-09/30/1994 FY95: TOTAL: \$49,608
Prin. Invest. NASA Tech. Officer CASE Category
 R M CUMMINGS ARC/J R ROSS 41-Aero Engr
 D L MATHIAS

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCC 2-833 California Polytechnic State U-San Luis 1750
CONTROLS DESIGN WITH CROSSFEEDS FOR HOVERING ROTOR
CRAFT USING QUANTITATIVE FEEDBACK THEORY

<i>Period</i>	<i>Obligations</i>	
11/16/1993-12/31/1995	FY95: \$11,483	TOTAL: \$50,820
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D BIEZAD	ARC/M B TISCHLER	41-Aero Engr

NGT 00-010-012 California Polytechnic State U-San Luis 1758
MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP P
PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/04/1993-09/30/1995	FY95: \$199,270	TOTAL: \$249,230
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R M CUMMINGS	HQ/G S SEIDEL	41-Aero Engr
H J FREEMAN	HQ/J R FACEY	

NCC 2-834 California Polytechnic State U-San Luis 1751
MODIFICATION OF ACSYNT AIRCRAFT COMPUTER PROGRAM F OR
PRELIMINARY DESIGN

<i>Period</i>	<i>Obligations</i>	
11/15/1993-03/31/1996	FY95:	TOTAL: \$41,720
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D BIEZAD	ARC/P A GELHAUSEN	41-Aero Engr
R R OVIEDO	ARC/A S HAHN	

NAS 3-26127 California State University - Chico 1760
SERVICES TO OPERATE NASA LEWIS RESEARCH CENTER LEA
RNING CENTER

<i>Period</i>	<i>Obligations</i>	
11/01/1990-10/31/1995	FY95: \$275,000	TOTAL: \$1,236,174
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J WRIGHT	LERC/D CONRAD	99-Multi-Discip
S GAUL	LERC/C DEMONGEOT	

NCC 2-855 California Polytechnic State U-San Luis 1752
SUBSONIC WING OPTIMIZATION FOR HANDLING QUALITIES USING
ACSYNT

<i>Period</i>	<i>Obligations</i>	
05/16/1994-06/30/1995	FY95:	TOTAL: \$10,283
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D J BIEZAD	ARC/P A GELHAUSEN	41-Aero Engr
	ARC/G H KIDWELL	

NCC 2-5062 California State University - Chico 1761
ASSESSMENT OF LEAF AREA VINE VIGOR GRAPE YIELD AND
QUALITY OF PHYLLOXERA-INFESTED AND NON-INFESTED ..

<i>Period</i>	<i>Obligations</i>	
06/03/1994-12/31/1995	FY95: \$34,917	TOTAL: \$59,731
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M BALDY	ARC/J SALUTE	39-Env Sci, NEC
R BALDY	ARC/C HLAVKA	

NCC 2-857 California Polytechnic State U-San Luis 1753
COMPUTATIONAL INVESTIGATION OF FLAP EDGES

<i>Period</i>	<i>Obligations</i>	
06/02/1994-12/31/1995	FY95: \$20,802	TOTAL: \$40,802
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R M CUMMINGS	ARC/J C ROSS	41-Aero Engr
S L GRABHORN	ARC/K R TONER	

NAG 2-802 California State University - Fresno 1762
REMOTE SENSING AS AN AID TO HYDROLOGICAL ASSESSMEN T
AND LANDSCAPE MAPPING

<i>Period</i>	<i>Obligations</i>	
09/16/1992-12/31/1994	FY95:	TOTAL: \$240,200
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J F PARIS	ARC/D L PETERSON	54-Env Biology

NCC 2-924 California Polytechnic State U-San Luis 1754
SONIC WAVE ATMOSPHERIC PAROPAGATION

<i>Period</i>	<i>Obligations</i>	
08/28/1995-05/31/1996	FY95: \$31,965	TOTAL: \$31,965
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R M CUMMINGS	ARC/E L TU	99-Multi-Discip
M D BAKER		

NGT 00-070-412 California State University - Fresno 1763
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/31/1995-07/31/1998	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A AUERNHEIMER	HQ/D K RUSSELL	22-Computer Science

NCC 2-4003 California Polytechnic State U-San Luis 1755
EVALUATION OF SINGLE AND DUAL FLOW THRUST VECTOR
NOZZLES WITH EXHAUST STREAM IMPINGEMENT

<i>Period</i>	<i>Obligations</i>	
05/17/1994-04/30/1995	FY95:	TOTAL: \$51,100
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T W CARPENTER	DFRC/A H BOWERS	41-Aero Engr
T L ARCHOM		
K M CAMPBELL		

NAGW 2515 California State University - Fullerton 1764
METEORITE COMPACTION AGES AND THE SEARCH FOR EVIDENCE
FOR AN EARLY ACTIVE (T-TAURI) SUN

<i>Period</i>	<i>Obligations</i>	
02/26/1991-12/31/1995	FY95: \$103,963	TOTAL: \$212,263
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D S WOLLUM	HQ/J A NUTH	19-Phys Sci, NEC

NCC 2-5031 California Polytechnic State U-San Luis 1756
STRUCTURAL FLAW DETECTION USING PIEZOELECTRIC SENS ORS
ON A COMPOSITE PLATE

<i>Period</i>	<i>Obligations</i>	
02/03/1994-01/31/1995	FY95:	TOTAL: \$29,666
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F KOLKAILAH	ARC/D VORACEK	41-Aero Engr

NCC 2-529 California State Univ.- hayward 1759
ANALYSIS OF THE VISUAL FRAMEWORK EFFECT

<i>Period</i>	<i>Obligations</i>	
03/01/1988-06/30/1996	FY95: \$84,387	TOTAL: \$402,913
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A E STOPER	ARC/M M COHEN	69-Psych, NEC

NCC 2-5110 California Polytechnic State U-San Luis 1757
ACTIVE ISOLATION SYSTEM FOR AN ELECTRONIC EQUIPMEN T
MOUNTING PLATE

<i>Period</i>	<i>Obligations</i>	
01/12/1995-01/31/1996	FY95: \$27,000	TOTAL: \$27,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F A KOLKAILAH	DFRC/D VORACEK	41-Aero Engr

NAG 1-1697 California State University - Long Beach 1765
EXPERIMENTAL STUDY OF AN ADAPTIVE NOISE CONTROL
ALGORITHM WITH ON LINE IDENTIFICATION

<i>Period</i>	<i>Obligations</i>	
03/21/1995-03/20/1996	FY95: \$19,651	TOTAL: \$19,651
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S HUNT	LARC/R J SILOX	46-Mech Engr
	LARC/K P SHEPHERD	

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 3-1634 California State University - Long Beach 1766
MAGNETORHEOLOGICAL FLUIDS IN MICROGRAVITY

<i>Period</i>	<i>Obligations</i>	
06/29/1994-06/28/1996	FY95: \$50,000	TOTAL: \$100,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J LIU	LERC/N R HALL	13-Physics

NAG 5-2744 California State University - Northridge 1774
THE H-IONIZATION IN THE LOCAL INTERSTELLAR MEDIUM: EFFECTS OF NEW EUV SOURCES

<i>Period</i>	<i>Obligations</i>	
10/05/1994-10/14/1995	FY95: \$52,000	TOTAL: \$52,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K CHENG	GSFC/R OLIVERSEN	11-Astronomy

NAGW 3707 California State University - Los Angeles 1767
PREDICTING PHOTOSYNTHETIC FLUXES FROM SPECTRAL REFLECTANCE OF LEAVES AND CANOPIES

<i>Period</i>	<i>Obligations</i>	
08/19/1993-05/31/1996	FY95: \$31,970	TOTAL: \$198,851
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A GAMON	HQ/D E WICKLAND	39-Env Sci, NEC
	HQ/A C JANETOS	

NAG 5-2994 California State University - Northridge 1775
AN IUE STUDY OF CIRCUMSTELLAR GAS AROUND PROTOPLANETARY SYSTEM CANDIDATES

<i>Period</i>	<i>Obligations</i>	
07/13/1995-07/14/1996	FY95: \$22,300	TOTAL: \$22,300
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K CHENG	GSFC/D WEST	11-Astronomy

NAGW 4103 California State University - Los Angeles 1768
EFFECTS OF DECENTRALIZED CONTROL IN DESIGN OF A LARGE SEGMENT

<i>Period</i>	<i>Obligations</i>	
08/15/1994-08/30/1996	FY95: \$600,000	TOTAL: \$1,000,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H BOUSSALIS	HQ/B L WHITE	11-Astronomy

NAGW 3017 California State University - Northridge 1776
NAGW-3017/CA STATE UNIV/PHOTOMETRIC OBSERVATIONS IN SUPPORT OF ACRIM 2 ON THE UARS MISSION

<i>Period</i>	<i>Obligations</i>	
04/17/1992-10/31/1995	FY95:	TOTAL: \$219,691
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G A CHAPMAN	HQ/W J WAGNER	11-Astronomy
	HQ/J D BOHLIN	

NAGW 4225 California State University - Los Angeles 1769
FAST/URMFP

<i>Period</i>	<i>Obligations</i>	
12/14/1994-10/31/1995	FY95: \$199,844	TOTAL: \$199,844
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T J	HQ/D K RUSSELL	99-Multi-Discip
ADENIKA-MORROW		

NCA 2-790 California State University - Northridge 1777
THREE DIMENSIONAL FLOW ANALYSIS OF A SCRAMJET COMBUSTOR USING FINITE TECHNIQUES AND UNSTRUCTURED GRID

<i>Period</i>	<i>Obligations</i>	
02/04/1993-12/31/1993	FY95:	TOTAL: \$25,736
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P K RUSSELL	ARC/K GUPTA	41-Aero Engr

NCC 1-174 California State University - Los Angeles 1770
COMPUTATIONAL FLUID DYNAMICS VALIDATION OF TRANSONIC HIGH REYNOLD'S NUMBER

<i>Period</i>	<i>Obligations</i>	
04/09/1993-04/30/1995	FY95:	TOTAL: \$51,136
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C C WU	LARC/R A WAHLS	41-Aero Engr
	LARC/J A AL-SAAD	

NCA 5-116 California State University - Northridge 1778
CSUN PROJECT APT

<i>Period</i>	<i>Obligations</i>	
02/18/1993-09/08/1994	FY95:	TOTAL: \$61,754
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D MILLER	GSFC/M HARTMAN	22-Computer Science

NGT 00-090-051 California State University - Los Angeles 1771
UNDERGRADUATE STUDENT RESEARCHERS PRG

<i>Period</i>	<i>Obligations</i>	
08/22/1991-08/31/1995	FY95: \$36,000	TOTAL: \$129,177
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M RANDLE	HQ/B WHITE	49-Engr, NEC

NCC 2-821 California State University - Northridge 1779
COMPARISON OF SIMULATION AND FLIGHT DATA USING A NEW DYNAMIC WIND TUNNEL DATA TECHNIQUE

<i>Period</i>	<i>Obligations</i>	
08/19/1993-09/08/1994	FY95:	TOTAL: \$42,565
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S D SCHWARTZ	ARC/A H BOWERS	41-Aero Engr
J R DAKER		

NGT 00-090-064 California State University - Los Angeles 1772
A PROGRAM TO IMPROVE TRANSFER RATES OF UNDERREPRESENTED MINORITY PRE-ENGINEERING STUDENTS FROM CA

<i>Period</i>	<i>Obligations</i>	
08/21/1992-08/14/1995	FY95: \$122,000	TOTAL: \$366,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R LANDIS	HQ/B WHITE	49-Engr, NEC
	HQ/S MASSENBERG	

NGT 00-090-032 California State University - Northridge 1780
AN INTER-INSTITUTIONAL ENGINEERING RETENTION PROGRAM FOR ETHNIC MINORITIES

<i>Period</i>	<i>Obligations</i>	
08/01/1990-06/14/1996	FY95: \$334,947	TOTAL: \$1,381,529
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C MORNING	HQ/M S MARGOLIS	49-Engr, NEC

NGT 00-090-252 California State University - Los Angeles 1773
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)

<i>Period</i>	<i>Obligations</i>	
01/13/1995-08/14/1995	FY95: \$36,000	TOTAL: \$36,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M RANDLE	HQ/D K RUSSELL	45-Elec Engr

NGT 00-090-055 California State University - Northridge 1781
UNDERGRADUATE STUDENT RESEARCHERS PRG

<i>Period</i>	<i>Obligations</i>	
09/26/1991-08/31/1995	FY95: \$24,000	TOTAL: \$91,860
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M MACIAS	HQ/B WHITE	49-Engr, NEC
C MORNING		

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-090-111 California State University - Northridge 1782
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period *Obligations*
 09/24/1992-08/14/1995 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S OPPENHEIMER HQ/D K RUSSELL 99-Multi-Discip

NAG 5-2010 Claremont Mckenna College 1783
 STUDY OF BURST DETECTIONS BY BATSE
Period *Obligations*
 07/08/1992-01/14/1996 FY95: \$21,092 TOTAL: \$135,969
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J C HIGDON GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 2-969 College of San Mateo 1784
 REMOTE SENSING OF LANDUSE CHANGES AND IMPLICATIONS F
 OR LANDUSE POLICY
Period *Obligations*
 03/22/1995-02/29/1996 FY95: \$16,900 TOTAL: \$16,900
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K D KENNEDY ARC/D L LAWLESS 39-Env Sci, NEC
 W B RUNDBERG ARC/J G LAWLESS

NAG 8-998 Cypress College 1785
 JOVE
Period *Obligations*
 11/01/1993-05/31/1996 FY95: \$19,000 TOTAL: \$61,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J CATANZARITE MSFC/F SIX 11-Astronomy

NAGW 3335 D-Q University 1786
 AMERICAN INDIAN YOUNG NASA SCHOLARS PROGRAM IN MAT
 HEMATICS AND SCIENCE
Period *Obligations*
 02/02/1993-05/31/1996 FY95: \$125,922 TOTAL: \$361,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A LOUFAS ARC/A HATCH 99-Multi-Discip
 HQ/B WHITE

NGT 00-090-054 D-Q University 1787
 UNDERGRADUATE STUDENT RESEARCHERS PRG
Period *Obligations*
 09/25/1991-08/31/1995 FY95: \$96,000 TOTAL: \$200,830
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A LOUFAS HQ/B L WHITE 49-Engr, NEC

NCC 2-785 Foothill-De Anza Com College System 1788
 Off
 ADVANCED AUTOMATED COMPUTER SYSTEM METHODOLOGIES
Period *Obligations*
 03/05/1993-12/31/1994 FY95: TOTAL: \$332,536
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P YASUDA ARC/D B MCKELLER 22-Computer Science
 J HARRIS

NGT 2-1001 Foothill-De Anza Com College System 1789
 Off
 SCIENTIFIC-TECHNICAL AND BUSINESS CAREERS TRAINING G
 RANT
Period *Obligations*
 07/07/1993-12/31/1996 FY95: \$1,375,289 TOTAL: \$2,989,573
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M CONWAY ARC/M A LANE 99-Multi-Discip
 ARC/J M MCCULLOUGH

NGT 2-1002 Foothill-De Anza Com College System 1790
 Off
 INDUSTRIAL CRAFTS TRAINING GRANT
Period *Obligations*
 07/07/1993-06/30/1995 FY95: \$279,601 TOTAL: \$1,067,164
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M CONWAY ARC/D L FENG-WOOD 99-Multi-Discip
 ARC/P J HARO

NAG 2-960 Harvey Mudd College 1791
 ABUNDANCES AND MOLECULAR CLOUD STRUCTURE IN THE OUTE
 R GALAXY
Period *Obligations*
 02/06/1995-09/30/1995 FY95: \$35,300 TOTAL: \$35,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A RUDOLPH ARC/C D LAUGHLIN 11-Astronomy
 M M ARC/C M GILLESPIE

NCC 2-5098 Harvey Mudd College 1792
 LED WORKSTATION ILLUMINATION
Period *Obligations*
 08/18/1994-07/31/1995 FY95: TOTAL: \$33,306
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J ROSENBERG ARC/M L HINES 49-Engr, NEC

NGT 00-090-247 Humboldt State University 1793
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period *Obligations*
 11/22/1994-08/14/1996 FY95: \$23,985 TOTAL: \$23,985
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T ROELOFS HQ/D K RUSSELL 39-Env Sci, NEC

NAG 2-4007 Loyola Marymount University 1794
 DEVELOPMENT AND APPLICATION OF MULTIDISCIPLINARY
 ENGINEERING SYSTEMS ANALYSIS CAPABILITIES
Period *Obligations*
 07/01/1994-10/30/1994 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B OPPENHEIM ARC/K GUPTA 41-Aero Engr

NAG 8-275 Loyola Marymount University 1795
 JOVE
Period *Obligations*
 11/04/1992-09/30/1996 FY95: \$14,750 TOTAL: \$128,750
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J SANNY MSFC/F SIX 99-Multi-Discip
 S SCHECK
 C WEEKS

NAG 4-104 mount San Antonio College 1800
 AERONAUTICS IN ALL CLASSROOMS: A WEB SITE FOR HS, MIDDLE,
 ELEM SCHOOL EXP
Period *Obligations*
 07/19/1995-09/30/1995 FY95: \$72,620 TOTAL: \$72,620
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S ARENA DFRC/E L DUKE 99-Multi-Discip

NAGW 4535 National Hispanic University 1796
 LOS AMIGOS CIENTIFICOS
Period *Obligations*
 06/27/1995-08/31/1998 FY95: \$99,997 TOTAL: \$99,997
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 PARKER HQ/M MATEU 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-090-067 National Hispanic University 1797
 CIENTIFICOS PROJECT - FUTURE HISPANIC SCIENTISTS P ROJECT
Period Obligations
 08/28/1992-08/31/1995 FY95: \$98,588 TOTAL: \$296,908
Prin. Invest. NASA Tech. Officer CASE Category
 R PARKER ARC/E BUGNA 99-Multi-Discip
 ARC/J VALENTINE

NCA 2-786 San Diego State University 1805
 STUDY OF ORGANIZED STRUCTURES IN THE POST-STALL FL OW
 OVER WINGS
Period Obligations
 02/05/1993-02/14/1995 FY95: TOTAL: \$73,044
Prin. Invest. NASA Tech. Officer CASE Category
 J KATZ ARC/J ROSS 41-Aero Engr

NAG 5-2887 Pomona College 1798
 MULTIWAVELENGTH BLAZAR STUDIES
Period Obligations
 02/13/1995-02/14/1996 FY95: \$7,700 TOTAL: \$7,700
Prin. Invest. NASA Tech. Officer CASE Category
 A C ZOOK GSFC/J P NORRIS 11-Astronomy
 R C HARTMAN GSFC/N WHITE

NCC 2-5124 San Diego State University 1806
 STUDY OF ORGANIZED STRUCTURES IN THE POST-STALL FL OW
 OVER WINGS
Period Obligations
 04/14/1995-03/31/1996 FY95: \$36,522 TOTAL: \$36,522
Prin. Invest. NASA Tech. Officer CASE Category
 J KATZ ARC/J ROSS 41-Aero Engr

NAGW 2031 San Diego State University 1799
 NAGW-2031/SAN DIEGO STATE UNIV/CANOPY REFLECTANCE
 MODELLING OF SEMIARID VEGETATION
Period Obligations
 04/27/1990-12/31/1994 FY95: TOTAL: \$175,000
Prin. Invest. NASA Tech. Officer CASE Category
 J FRANKLIN HQ/G ASRAR 39-Env Sci, NEC
 HQ/T J PIEPER

NGT 00-030-235 San Diego State University 1807
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/10/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J FRANKLIN HQ/D E WICKLAND 39-Env Sci, NEC

NAGW 2154 San Diego State University 1800
 CLASSIFICATION OF BIO-OPTICAL PROVINCES IN THE NOR TH
 ATLANTIC DURING JGOFs
Period Obligations
 08/31/1990-02/28/1996 FY95: \$156,000 TOTAL: \$482,729
Prin. Invest. NASA Tech. Officer CASE Category
 C C TREES HQ/M R LEWIS 33-Oceanography
 HQ/W S WILSON

NGT 00-030-311 San Diego State University 1808
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/10/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 W OECHEL HQ/D E WICKLAND
 HQ/G ASRAR

NAGW 3494 San Diego State University 1801
 SEA.PIG., PRI.PROD. AND SED.OF ORG.MATT.IN THE GULF OF
 CALI.,AND THE ELNINO-SOUTH. OSCILL. CYCLE
Period Obligations
 04/12/1993-12/31/1996 FY95: \$140,000 TOTAL: \$254,000
Prin. Invest. NASA Tech. Officer CASE Category
 J L MUELLER HQ/D E WICKLAND 39-Env Sci, NEC
 HQ/A C JANETOS

NGT 00-030-319 San Diego State University 1809
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/07/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 W C OECHEL HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NAGW 3865 San Diego State University 1802
 SAN DIEGO ST. UNIV FOUND - MECHANISM AND CONTROL OF
 ROOT GRAVITROPISM IN MAIZE
Period Obligations
 02/04/1994-07/31/1994 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 D RAYLE HQ/T W HALSTEAD 51-Biological Sci

NAGW 2212 San Francisco State University 1810
 DETERMINATION OF THE OPTICAL CONSTANTS OF HYDRATES ,
 CARBONATES, SULFATES, AND NITRATES
Period Obligations
 10/09/1990-06/30/1997 FY95: \$25,000 TOTAL: \$137,000
Prin. Invest. NASA Tech. Officer CASE Category
 T ROUSH HQ/J PLESCIA 32-Geological Sci

NAGW 4435 San Diego State University 1803
 MECHANISM OF AUXIN ACTION IN ROOT GROWTH/GRAVITROP
 ISM
Period Obligations
 05/02/1995-04/30/1998 FY95: \$118,271 TOTAL: \$118,271
Prin. Invest. NASA Tech. Officer CASE Category
 D L RAYLE HQ/T K SCOTT 59-Life Sci, NEC

NAGW 3182 San Francisco State University 1811
 NAGW-3182/SAN FRANCISCO STATE UNIV/A NEXT-GENERATI ON
 SEARCH FOR EXTRA-SOLAR PLANETS
Period Obligations
 08/28/1992-09/30/1995 FY95: \$158,660 TOTAL: \$473,741
Prin. Invest. NASA Tech. Officer CASE Category
 G W MARCY HQ/J K ALEXANDER 11-Astronomy
 HQ/D A HOLLAND

NAS 5-31753 San Diego State University 1804
 SEAWIFS VALIDATION SUPPORT
Period Obligations
 06/26/1992-06/25/1995 FY95: TOTAL: \$689,640
Prin. Invest. NASA Tech. Officer CASE Category
 J L MUELLER GSFC/C MCCLAIN 33-Oceanography

NCA 2-764 San Francisco State University 1812
 DETERMINATION OF POLAR STRATOSPHERIC CLOUD ONSET O VER
 ANTARCTICA USING CLOUD TOP TEMPERATURE
Period Obligations
 11/17/1992-11/30/1994 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 O GARCIA ARC/S HIPSKIND 31-Atmos Sci
 T FOSCHI
 J MONTEVERDI

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCC 2-808 San Francisco State University 1813
 THE BIOGENIC ELEMENTS IN MARS SOIL
Period *Obligations*
 07/01/1993-12/31/1995 FY95: \$38,440 TOTAL: \$154,861
Prin. Invest. NASA Tech. Officer CASE Category
 J B ORENBERG ARC/G C CARLE 59-Life Sci, NEC

NCC 2-5107 San Francisco State University 1820
 DESIGN OF AN ANIMAL HABITAT AND OTHER FACILITIES FOR
 THE 52-FOOT DIAMETER CENTRIFUGE
Period *Obligations*
 11/04/1994-06/30/1995 FY95: \$29,988 TOTAL: \$29,988
Prin. Invest. NASA Tech. Officer CASE Category
 P PFAELZER ARC/G M MULENBURG 46-Mech Engr
 N OWEN

NCC 2-815 San Francisco State University 1814
 MODELING THE REFLECTANCE SPECTRA OF CONDENSED VOLA
 TILES ON PLANETARY SURFACES
Period *Obligations*
 08/06/1993-06/30/1996 FY95: \$34,800 TOTAL: \$96,836
Prin. Invest. NASA Tech. Officer CASE Category
 T L ROUSH ARC/D P CRUIKSHANK 11-Astronomy
 J P MONTEVERDI ARC/J N CUZZI

NAG 2-848 San Jose State University 1821
 DEVELOPMENT OF PROCESSING TECHNIQUES FOR ADVANCED
 THERMAL PROTECTION MATERIALS
Period *Obligations*
 06/17/1994-05/31/1996 FY95: \$84,986 TOTAL: \$320,855
Prin. Invest. NASA Tech. Officer CASE Category
 G SELVADURAY ARC/D B LEISER 47-Materials Engr

NCC 2-901 San Francisco State University 1815
 CONSTRUCTION OF A LONG-TERM CLIMATOLOGY OF ANTARCT IC
 POLAR STRATOSPHERIC CLOUDS BY AN AUTOMATED....
Period *Obligations*
 03/27/1995-09/30/1995 FY95: \$79,400 TOTAL: \$79,400
Prin. Invest. NASA Tech. Officer CASE Category
 K L PAGAN ARC/R S HIPSKIND 31-Atmos Sci
 O GARCIA ARC/E P CONDON
 P G FOSCHI

NAG 2-915 San Jose State University 1822
 VISUALIZATION OF TENSOR FIELDS
Period *Obligations*
 07/13/1994-05/31/1995 FY95: TOTAL: \$19,975
Prin. Invest. NASA Tech. Officer CASE Category
 R K DODD ARC/T A LASKINSKI 22-Computer Science
 R ALPERIN

NCC 2-5037 San Francisco State University 1816
 FULL-SCALE MODEL OF HUMAN HABITAT FOR THE 52 FT DIAMETER
 CENTRIFUGE AT AMES
Period *Obligations*
 02/03/1994-06/30/1994 FY95: TOTAL: \$14,769
Prin. Invest. NASA Tech. Officer CASE Category
 P PFAELZER ARC/G M MULENBURG 49-Engr, NEC
 N OWEN

NAG 2-966 San Jose State University 1823
 THERMAL CONDUCTIVITY OF INTERLACED TWO PHASE SYSTE MS
 FOR FUSIBLE HEAT SINK APPLICATIONS
Period *Obligations*
 02/28/1995-08/31/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 G SELVADURAY ARC/W C LOMAX 47-Materials Engr
 ARC/B W WEBBON

NCC 2-5045 San Francisco State University 1817
 LOW LATENCY MULTIMEDIA APPLICATIONS AND THEIR NETWORK
 REQUIREMENTS
Period *Obligations*
 04/11/1994-05/31/1995 FY95: \$29,839 TOTAL: \$57,753
Prin. Invest. NASA Tech. Officer CASE Category
 H SHAHNASSER ARC/P GRAMS 22-Computer Science

NAG 5-2354 San Jose State University 1824
 GAMMA-RAY EMITTERS PRODUCED BY HIGH ENERGY CHARGED
 PARTICLES
Period *Obligations*
 08/25/1993-06/14/1995 FY95: TOTAL: \$14,900
Prin. Invest. NASA Tech. Officer CASE Category
 P ENGLERT GSFC/J I TROMBKA 11-Astronomy
 GSFC/S R FLOYD

NCC 2-5053 San Francisco State University 1818
 STUDY OF APPLIED PHYSICAL CHARACTERISTICS OF THERM AL
 RESISTANT MATERIALS
Period *Obligations*
 05/06/1994-09/30/1994 FY95: TOTAL: \$8,000
Prin. Invest. NASA Tech. Officer CASE Category
 G FISHER ARC/D LEISER 19-Phys Sci, NEC
 ARC/L FRANKLIN

NAGW 3525 San Jose State University 1825
 THEORETICAL STUDIES OF POLAR STRATOSPHERIC CLOUDS AND
 THE BACKGROUND STRATOSPHERE SULFATE AEROSOL
Period *Obligations*
 04/15/1993-02/28/1996 FY95: \$34,997 TOTAL: \$107,706
Prin. Invest. NASA Tech. Officer CASE Category
 P HAMILL HQ/J A KAYE 31-Atmos Sci
 HQ/R E MURPHY

NCC 2-5106 San Francisco State University 1819
 STUDY OF APPLIED PHYSICAL CHARACTERISTICS OF ADVAN CED
 THERMAL-RESISTANT MATERIALS
Period *Obligations*
 11/03/1994-08/31/1995 FY95: \$19,864 TOTAL: \$19,864
Prin. Invest. NASA Tech. Officer CASE Category
 G FISHER ARC/D LEISER 19-Phys Sci, NEC
 ARC/L FRANKLIN

NAGW 3856 San Jose State University 1826
 RADIO OCCULTATION INVESTIGATION OF THE RINGS
Period *Obligations*
 06/17/1993-02/29/1996 FY95: \$40,000 TOTAL: \$136,000
Prin. Invest. NASA Tech. Officer CASE Category
 E A MAROUF HQ/J M BOYCE 32-Geological Sci

NAGW 4480 San Jose State University 1827
 EFFECTS OF ARTIFICIAL GRAVITY: MORPHOLOGICAL AND
 NEUROCHEMICAL STUDIES IN MUSCLE RECEPTORS
Period *Obligations*
 05/10/1995-04/30/1996 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A FOX HQ/V SCHNEIDER 56-Medical Sciences

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAS 5-31746 San Jose State University 1828
ACQUISITION OF OPTICAL MOORING AND SHIPBOARD
SUBMERSIBLE RADIOMETER SYSTEM
Period *Obligations*
05/12/1992-10/31/1995 FY95: \$396,200 TOTAL: \$2,709,876
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W BROENKOW GSFC/C MCCLAIN 33-Oceanography

NCC 2-168 San Jose State University 1836
EXPERIMENTAL STUDIES OF THE DISTRIBUTION OF MINOR
CONSTITUENTS IN THE ATMOSPHERE
Period *Obligations*
01/01/1982-05/14/1996 FY95: \$268,620 TOTAL: \$2,027,710
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J GOODMAN ARC/R L CHAN 31-Atmos Sci

NCA 2-555 San Jose State University 1829
JOINT USE OF RESOURCES FOR OPERATION OF THE NASA- AMES
UNIV. CONSORTIUM OFFICE
Period *Obligations*
11/30/1990-10/31/1995 FY95: \$159,747 TOTAL: \$786,798
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S K GIBSON ARC/L A MILOV 99-Multi-Discip
A C CHU

NCC 2-211 San Jose State University 1837
TROPOSPHERIC - STRATOSPHERIC MEASUREMENT STUDIES
Period *Obligations*
09/22/1987-04/30/1996 FY95: \$103,281 TOTAL: \$1,118,555
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J GOODMAN ARC/K R CHAN 31-Atmos Sci
S W BOWEN ARC/S G SCOTT

NCA 2-784 San Jose State University 1830
A STUDY OF GRAVITY WAVES IN THE ATMOSPHERE OF VENU S
USING PIONEER VENUS ATMOSPHERIC PROBE DATA
Period *Obligations*
02/01/1993-08/31/1994 FY95: TOTAL: \$28,616
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A BRIDGER ARC/R E YOUNG 11-Astronomy

NCC 2-315 San Jose State University 1838
AN INVESTIGATION OF CLEAR AIR TURBULENCE INCIDENTS
INVOLVING WIDE BODIED AIRCRAFT
Period *Obligations*
11/01/1987-10/14/1995 FY95: \$24,500 TOTAL: \$325,385
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P F LESTER ARC/R E BACH 31-Atmos Sci
ARC

NCA 2-785 San Jose State University 1831
HYDROSTATIC MOUNTAIN WAQVES IN THE MARTIAN ATMOSPHE
RE: A THEORETICAL STUDY
Period *Obligations*
02/05/1993-08/31/1994 FY95: TOTAL: \$57,428
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A BRIDGER ARC/R E YOUNG 11-Astronomy

NCC 2-327 San Jose State University 1839
AERO-SPACE HUMAN FACTORS
Period *Obligations*
10/01/1984-01/31/1996 FY95: \$502,815 TOTAL: \$9,042,083
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K JORDAN ARC/R K DISMUKES 69-Psych, NEC

NCA 2-814 San Jose State University 1832
WATER VAPOR TRANSPORT AND SOURCE IDENTIFICATION IN THE
MARTIAN ATMOSPHERE
Period *Obligations*
05/12/1993-01/21/1995 FY95: TOTAL: \$31,288
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A F BRIDGER ARC/R M HABERLE 11-Astronomy

NCC 2-449 San Jose State University 1840
NEURAL CONNECTIVITY AND IMMUNOCYTOCHEMICAL
STUDIESANATOMICAL SITES RELATED TO NAUSEOGENIC AND
EMETIC
Period *Obligations*
12/01/1986-08/31/1995 FY95: \$15,000 TOTAL: \$854,235
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A FOX ARC/M L CORCORAN 51-Biological Sci
F D'AMILIO ARC/N G DAUNTON

NCA 2-817 San Jose State University 1833
INVESTIGATION OF MARTIAN ATMOSPHERIC DYNAMICAL RES
PONSE TO GLOBAL DUST STORMS
Period *Obligations*
05/21/1993-07/21/1994 FY95: TOTAL: \$39,815
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A F BRIDGER ARC/J B POLLACK 31-Atmos Sci

NCC 2-466 San Jose State University 1841
STUDIES OF PLANETARY ATMOSPHERES ASSOCIATED WITH
EXPERIMENTS ON THE GALILEO JUPITER PROBE EXPERIMEN
Period *Obligations*
03/01/1987-03/31/1996 FY95: \$228,402 TOTAL: \$962,823
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B RAGENT ARC/L E LASHER 19-Phys Sci, NEC
J GOODMAN ARC/R E YOUNG

NCA 2-834 San Jose State University 1834
MEASUREMENT OF CARBON ISOTOPES IN CALCITE
Period *Obligations*
08/16/1993-08/31/1995 FY95: TOTAL: \$80,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J BECKER ARC/J VALENTIN 31-Atmos Sci

NCC 2-471 San Jose State University 1842
STUDIES OF THE ATMOSPHERE OF VENUS AND WORK ON
THEATMOSPHERIC STRUCTURE EXPERIMENT OF THE GALILEO JU
Period *Obligations*
04/01/1987-06/30/1996 FY95: \$112,196 TOTAL: \$886,717
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P LESTER ARC/L E LASHER 31-Atmos Sci
A SEIFF ARC/R E YOUNG

NCC 2-3 San Jose State University 1835
STUDY OF FIBER MATERIALS USED IN TEMPERATURE RESISTANT
FIBER REINFORCED COMPOSITES
Period *Obligations*
06/01/1979-05/31/1994 FY95: TOTAL: \$662,376
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R N ANDERSON ARC/S R RICCITIELLO 47-Materials Engr
ARC/H GOLDSTEIN

NCC 2-665 San Jose State University 1843
RADIATIVE TRANSFER MODELING
Period *Obligations*
04/20/1990-03/31/1996 FY95: \$278,624 TOTAL: \$748,165
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P HAMILL ARC/O B TOON 31-Atmos Sci
S A KINNE

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCC 2-687 San Jose State University 1844
OBSERVATIONAL STUDY OF SOLAR SYSTEM PLASMAS
Period Obligations
07/31/1990-07/14/1996 FY95: \$119,471 TOTAL: \$652,750
Prin. Invest. NASA Tech. Officer CASE Category
P HAMILL ARC/A BARNES 11-Astronomy
P R GAZIS

NCC 2-858 San Jose State University 1852
TEST TECHNIQUES FOR HYPERSONIC IMPULSE FACILITIES
Period Obligations
06/15/1994-06/30/1995 FY95: TOTAL: \$47,232
Prin. Invest. NASA Tech. Officer CASE Category
R DESAUTEL ARC/G S DEIWERT 41-Aero Engr
ARC/J A CAVOLOWSKY

NCC 2-703 San Jose State University 1845
PATTERN BARNIV RECOGNITION AND SIGNAL PROCESSING BY NEURAL NETWORK
Period Obligations
02/01/1991-12/31/1994 FY95: TOTAL: \$174,195
Prin. Invest. NASA Tech. Officer CASE Category
Y BARAM ARC/Y BARNIV 29-Math/Cmputer,NEC
J C WANG

NCC 2-5047 San Jose State University 1853
DEVELOPMENT OF ANALYTICAL TECHNIQUES FOR THE GEOLOGICAL AND EXOBIOLOGICAL EXPLORATION OF MARS
Period Obligations
04/13/1994-03/31/1995 FY95: TOTAL: \$11,978
Prin. Invest. NASA Tech. Officer CASE Category
E METZGER ARC/M FONDA 32-Geological Sci

NCC 2-723 San Jose State University 1846
BEHAVIORAL AND PHYSIOLOGICAL EFFECTS OF HINDLIMB UNLOADING IN RATS
Period Obligations
07/26/1991-03/31/1996 FY95: \$150,610 TOTAL: \$614,657
Prin. Invest. NASA Tech. Officer CASE Category
R A FOX ARC/M L CORCORAN 51-Biological Sci
F D'AMELIO ARC/N G DAUNTON
L F ENG

NCC 2-5060 San Jose State University 1854
RADIATIVE LOSSES FROM SPIRAL DENSITY WAVE PRODUCTION IN AN ACCRETION DISK OF A STAR
Period Obligations
06/03/1994-05/31/1994 FY95: TOTAL: \$4,390
Prin. Invest. NASA Tech. Officer CASE Category
P HAMILL ARC/P CASSEN 11-Astronomy

NCC 2-756 San Jose State University 1847
SIMULATION OF TROPICAL BIOMASS BURING PLUMES
Period Obligations
05/04/1992-04/14/1996 FY95: \$92,786 TOTAL: \$341,492
Prin. Invest. NASA Tech. Officer CASE Category
P HAMILL ARC/R B CHATFIELD 31-Atmos Sci
J A VASTANO ARC/S S WEGENER

NCC 2-5063 San Jose State University 1855
AN EXPERIMENTAL INVESTIGATION OF THE EFFECTS OF TURBULENCE ON MICROPHONE FOREBODIES
Period Obligations
06/03/1994-05/31/1995 FY95: TOTAL: \$34,062
Prin. Invest. NASA Tech. Officer CASE Category
N J MOURTOS ARC/W C HORNE 41-Aero Engr

NCC 2-779 San Jose State University 1848
SCIENTIFIC EVALUATION OF HARDWARE AND SUPPORTING STUDIES FOR HARDWARE DEVELOPMENT
Period Obligations
02/09/1993-06/30/1996 FY95: \$143,493 TOTAL: \$432,860
Prin. Invest. NASA Tech. Officer CASE Category
D C HOLLEY ARC/C M WINGET 51-Biological Sci
ARC/G C JAHNS

NCC 2-5076 San Jose State University 1856
THE MARTIAN DUST CYCLE: INVESTIGATION OF THE SURFACE LIFTING COMPONENT
Period Obligations
06/30/1994-07/21/1996 FY95: \$39,999 TOTAL: \$79,998
Prin. Invest. NASA Tech. Officer CASE Category
A BRIDGER ARC/R M HABERLE 31-Atmos Sci

NCC 2-798 San Jose State University 1849
FLIGHT HUMAN FACTORS
Period Obligations
05/12/1993-01/31/1996 FY95: \$1,665,229 TOTAL: \$3,843,207
Prin. Invest. NASA Tech. Officer CASE Category
K P JORDAN ARC/R K DISMUKES 69-Psych, NEC
D

NCC 2-5077 San Jose State University 1857
AN INVESTIGATION OF STORM TRACKS IN MARS' ATMOSPHERIC CIRCULATION
Period Obligations
06/30/1994-07/24/1995 FY95: TOTAL: \$19,869
Prin. Invest. NASA Tech. Officer CASE Category
A BRIDGER ARC/R M HABERLE 31-Atmos Sci

NCC 2-822 San Jose State University 1850
RODENT ACOUSTIC TOLERANCE STUDY
Period Obligations
08/19/1993-12/31/1995 FY95: \$51,638 TOTAL: \$96,031
Prin. Invest. NASA Tech. Officer CASE Category
D C HOLLEY ARC/S M HING 51-Biological Sci
ARC/C C JOHNSON

NCC 2-5078 San Jose State University 1858
DIURNAL VARIATIONS OF MARTIAN WATER ICE CLOUDS
Period Obligations
06/30/1994-08/09/1995 FY95: TOTAL: \$27,243
Prin. Invest. NASA Tech. Officer CASE Category
A BRIDGER ARC/R HABERLE 31-Atmos Sci

NCC 2-835 San Jose State University 1851
NEUROCOMPUTING
Period Obligations
11/22/1993-04/30/1995 FY95: \$82,826 TOTAL: \$182,826
Prin. Invest. NASA Tech. Officer CASE Category
A PELLIONISZ ARC/C C JORGENSEN 22-Computer Science
ARC/E S CHEVERS

NCC 2-5092 San Jose State University 1859
A THEORETICAL STUDY OF MARTIAN MOUNTAIN WAVES IN ISOSTERIC COORDINATES
Period Obligations
08/11/1994-06/15/1996 FY95: \$28,432 TOTAL: \$61,480
Prin. Invest. NASA Tech. Officer CASE Category
A BRIDGER ARC/R E YOUNG 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCC 2-5093 San Jose State University 1860
 COMPARISON OF PIONEER VENUS ENTRY PROBE OBSERVATIONS TO 3-D GRAVITY WAVE THEORY
Period Obligations
 08/11/1994-06/15/1996 FY95: \$23,560 TOTAL: \$46,120
Prin. Invest. NASA Tech. Officer CASE Category
 A BRIDGER ARC/R E WONG 31-Atmos Sci

NCC 2-5135 San Jose State University 1868
 DEFINING X-RAY DIFFRACTION PARAMETERS FOR THE DESIGN AND OPERATION OF A PLANETARY-SURFACE ROCK ANALYZER
Period Obligations
 06/02/1995-05/31/1996 FY95: \$12,000 TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 E METZGER ARC/D R KOJIRO 32-Geological Sci

NCC 2-5094 San Jose State University 1861
 INTRASEASONAL AND INTERANNUAL VARIABILITY OF MARS' PRESENT CLIMATE
Period Obligations
 08/11/1994-02/24/1996 FY95: \$19,370 TOTAL: \$58,536
Prin. Invest. NASA Tech. Officer CASE Category
 A BRIDGER ARC/R M HABERLE 31-Atmos Sci

NCC 2-5142 San Jose State University 1869
 MONITORING OF TIME-DEPENDENT SYSTEM PROFILES BY MULTIPLE GAS CHROMATOGRAPHY WITH MAXIMUM ENTROPY DEMONSTRATION
Period Obligations
 06/30/1995-07/31/1997 FY95: \$39,670 TOTAL: \$39,670
Prin. Invest. NASA Tech. Officer CASE Category
 J F BECKER ARC/J VALENTIN 12-Chemistry

NCC 2-5111 San Jose State University 1862
 SURFACE LANDER MISSION TO MARS; SUPPORT VIA ANALYSIS OF THE NASA-AMES MARS GENERAL CIRCULATION MODEL
Period Obligations
 01/12/1994-01/21/1997 FY95: \$22,165 TOTAL: \$22,165
Prin. Invest. NASA Tech. Officer CASE Category
 A BRIDGER ARC/R M HABERLE 31-Atmos Sci

NCC 2-5148 San Jose State University 1870
 MARS GLOBAL SURVEYOR: AEROBRAKING AND OBSERVATIONS SUPPORT USING A MARS GLOBAL CIRCULATION MODEL
Period Obligations
 07/17/1995-07/24/1997 FY95: \$23,179 TOTAL: \$23,179
Prin. Invest. NASA Tech. Officer CASE Category
 A BRIDGER ARC/R M HABERLE 31-Atmos Sci

NCC 2-5112 San Jose State University 1863
 A DIGITAL SIGNAL PROCESSOR BASED HAND-HELD MULTICHANNEL MULTIPLE-SUBJECT BIOTELEMETRY
Period Obligations
 01/12/1995-01/19/1996 FY95: \$36,281 TOTAL: \$36,281
Prin. Invest. NASA Tech. Officer CASE Category
 A SINGH ARC/J HINES 45-Elec Engr

NCC 2-5158 San Jose State University 1871
 USEABILITY TESTING AND EVALUATION PLAN FOR THE ARC ON-LINE LIFE SCIENCES DATA ARCHIVE
Period Obligations
 09/11/1995-09/30/1996 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
 D C HOLLEY ARC/P X CALLAHAN 59-Life Sci, NEC

NCC 2-5113 San Jose State University 1864
 LONG-TERM ORBITAL EVOLUTION OF SATURN'S RING MOONS
Period Obligations
 01/12/1995-12/31/1995 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 P HAMILL ARC/J N CUZZI 11-Astronomy

NGT 00-070-227 San Jose State University 1872
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period Obligations
 08/12/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J F BECKER HQ/F C OWENS 13-Physics

NCC 2-5114 San Jose State University 1865
 FORMATION AND EVOLUTION OF THE OORT CLOUD OF COMETS
Period Obligations
 01/26/1995-01/31/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 P HAMILL ARC/K J ZAHNLE 11-Astronomy

NAG 7-1 Sierra College 1882
 DEVELOP MANAGEMENT CURRICULUM TO TRAIN ENGINEERING STUDENTS
Period Obligations
 04/14/1994-04/14/1997 FY95: \$2,292 TOTAL: \$443,000
Prin. Invest. NASA Tech. Officer CASE Category
 M DOBECK NMO/A HUSAIN 54-Env Biology

NCC 2-5130 San Jose State University 1866
 MICRO-PRESSURE SENSORS FOR FUTURE MARS MISSIONS
Period Obligations
 06/02/1995-05/31/1996 FY95: \$37,557 TOTAL: \$37,557
Prin. Invest. NASA Tech. Officer CASE Category
 A BRIDGER ARC/R M HABERLE 31-Atmos Sci

NAG 5-1621 Sonoma State University 1883
 ANALYSIS OF THE VARIABLE SOURCES OBSERVED BY IRAS
Period Obligations
 06/11/1991-06/14/1996 FY95: TOTAL: \$122,622
Prin. Invest. NASA Tech. Officer CASE Category
 G G SPEAR GSFC/D WEST 11-Astronomy

NCC 2-5132 San Jose State University 1867
 MEASUREMENT OF STABLE NITROGEN AND SULFUR ISOTOPES
Period Obligations
 06/02/1995-07/31/1997 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 J F BECKER ARC/J VALENTIN 13-Physics

NAG 5-1684 Sonoma State University 1884
 ROSAT OBSERVATIONS OF MXB 1659-29 AND EXO 0748-676
Period Obligations
 07/15/1991-09/30/1994 FY95: TOTAL: \$26,690
Prin. Invest. NASA Tech. Officer CASE Category
 L R COMINSKY GSFC/R PETRE 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 5-2032 Sonoma State University 1885
 LONG TERM MONITORING OF NEUTRON STAR BINARY SYSTEM S
 USING BATSE
Period *Obligations*
 07/17/1992-07/31/1996 FY95: \$45,943 TOTAL: \$103,943
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L R COMINSKY GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 2-581 Stanford University 1893
 RESEARCH ON INTELLIGENT SYSTEMS FOR SCIENCE AND E
 NGINEERING APPLICATIONS
Period *Obligations*
 06/20/1989-12/31/1995 FY95: \$150,510 TOTAL: \$6,267,568
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R E FIKES ARC/S LAU 22-Computer Science

NAG 5-2948 Sonoma State University 1886
 MAGNETOSPHERIC ACCRETION IN PSR 1259-63
Period *Obligations*
 05/19/1995-11/30/1996 FY95: \$16,476 TOTAL: \$16,476
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L COMINSKY GSFC/N WHITE 11-Astronomy

NAG 2-640 Stanford University 1894
 A QUASI-PROCEDURAL, KNOWLEDGE-BASED SYSTEM FOR AI
 RCRAFT SYNTHESIS
Period *Obligations*
 05/31/1990-12/31/1993 FY95: TOTAL: \$308,491
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 I KROO ARC/H MIURA 41-Aero Engr
 ARC/G H KIDWELL

NAGW 4155 Sonoma State University 1887
 A SEARCH FOR 23RD-MAG KUIPER BELT COMETS
Period *Obligations*
 09/22/1994-08/31/1996 FY95: TOTAL: \$0
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R WAGONER HQ/P ROGERS 11-Astronomy

NAG 2-673 Stanford University 1895
 IN SUPPORT OF PLANETARY DATA SYSTEM
Period *Obligations*
 10/02/1990-08/31/1995 FY95: \$124,779 TOTAL: \$480,275
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G L TYLER ARC/J N CUZZI 11-Astronomy
 M R SHOWALTER

NCC 2-930 Sonoma State University 1888
 EXERCISE WITHIN LBNP TO PRODUCE ARTIFICIAL GRAVITY
Period *Obligations*
 09/14/1995-05/31/1996 FY95: \$7,994 TOTAL: \$7,994
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W L BODA, PH.D. ARC/A R HARGENS 56-Medical Sciences

NAG 2-701 Stanford University 1896
 AUTOMATED ANALYSIS AND DISPLAY OF 3-D DATA SETS
Period *Obligations*
 04/12/1991-01/31/1994 FY95: TOTAL: \$331,479
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L HESSELINK ARC/T A LASINSKI 41-Aero Engr

NAG 1-1558 Stanford University 1889
 NEW APPROACHES TO MULTIDISCIPLINARY DESIGN AND
 OPTIMIZATION NLPN 93-1136
Period *Obligations*
 11/30/1993-11/30/1995 FY95: \$199,773 TOTAL: \$386,080
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 I M KROO LARC/J F BARTHELEMY 41-Aero Engr
 LARC/J C TOWNSEND

NAG 2-703 Stanford University 1897
 OPEN ARCHITECTURES FOR FORMAL REASONING AND DEDUCTI
 VE TECHNOLOGIES FOR SOFTWARE DEVELOPMENT
Period *Obligations*
 07/16/1991-04/30/1994 FY95: TOTAL: \$963,406
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J MCCARTHY ARC/H LUM 22-Computer Science
 ARC/D MCKELLAR

NAG 1-1610 Stanford University 1890
 THE PHYSICS OF TURBULENCE IN THE BOUNDARY LAYER
Period *Obligations*
 04/29/1994-10/24/1995 FY95: TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S J KLINE LARC/S K ROBINSON 41-Aero Engr

NAG 2-842 Stanford University 1898
 CENTER FOR AERONAUTICS AND SPACE INFORMATION SCIENCE
 S
Period *Obligations*
 06/10/1993-12/31/1995 FY95: TOTAL: \$1,200,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M J FLYNN ARC/C H SCHULBACH 45-Elec Engr
 ARC/K G STEVENS—JR.

NAG 1-1614 Stanford University 1891
 FLOW OVER SWEEPED FLAPS AND FLAP TIPS
Period *Obligations*
 03/29/1994-06/30/1995 FY95: \$1 TOTAL: \$40,001
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P BRADSHAW LARC/S K ROBINSON 41-Aero Engr

NAG 2-887 Stanford University 1899
 TESTING, GENERATING AND EXPLAINING CONTROL PROCEDURE
 S FOR REACTIVE HYBRID SYSTEMS
Period *Obligations*
 03/01/1994-05/31/1995 FY95: \$118,900 TOTAL: \$418,609
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R M FIKES ARC/S LAU 22-Computer Science

NAG 2-248 Stanford University 1892
 DESIGN OF TESTBED AND EMULATION TOOLS
Period *Obligations*
 10/01/1983-07/31/1995 FY95: TOTAL: \$1,459,701
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S F LUNDSTROM ARC/K G STEVENS JR. 22-Computer Science
 M J FLYNN ARC/R S LIM
 K B TENNAL

NAG 2-891 Stanford University 1900
 AN INTEGRATED ENVIRONMENT FOR EFFICIENT FORMAL DESGN
 AND VERIFICATION
Period *Obligations*
 03/28/1994-12/31/1995 FY95: \$432,281 TOTAL: \$692,281
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D L DILL ARC/S LAU 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 2963 **Stanford University** **1933**
NEUTRON STARS POPULATIONS IN X-RAYS AND GAMMA RAY S
Period *Obligations*
03/20/1992-08/31/1995 FY95: \$50,000 TOTAL: \$150,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R ROMANI HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAGW 4341 **Stanford University** **1941**
RADIO OCCULTATION STUDIES OF VENUS' ATMOSPHERE WITH
MAGELLAN
Period *Obligations*
03/18/1995-12/31/1995 FY95: \$37,500 TOTAL: \$37,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G L TYLER HQ/J BERGSTRALH 31-Atmos Sci

NAGW 3375 **Stanford University** **1934**
SPACEBORNE INSTRUMENT TECHNOLOGY DEVELOPMENT FOR B
ISTATIC RADAR STUDIES OF THE PLANETS
Period *Obligations*
02/09/1993-03/31/1995 FY95: TOTAL: \$330,938
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G L TYLER HQ/H C BRINTON 19-Phys Sci, NEC

NAGW 4466 **Stanford University** **1942**
RESTORATION AND ARCHIVING OF WIDE BAND WAVE DATA FROM
THE DE-1 AND ISEE-1 SATELLITE
Period *Obligations*
05/04/1995-04/30/1997 FY95: \$34,999 TOTAL: \$34,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
U S INAN HQ/J WILLET 45-Elec Engr

NAGW 3443 **Stanford University** **1935**
INVESTIGATION OF ATMOSPHERIC WAVES ON VENUS
Period *Obligations*
03/10/1993-09/14/1996 FY95: TOTAL: \$79,932
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G L TYLER HQ/J BERGSTRALH 31-Atmos Sci

NAGW 4526 **Stanford University** **1943**
HIGH ENERGY RADIATION FORM ROTATION-POWERED PULSAR
Period *Obligations*
06/16/1995-04/30/1996 FY95: \$27,700 TOTAL: \$27,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R ROMANI HQ/G R RIEGLER 11-Astronomy

NAGW 3489 **Stanford University** **1936**
DEVEL. OF A BROADBAND HIGH ENER. GAMMA-RAY TELE. U SING
SILI. STRIP DETECTORS
Period *Obligations*
05/13/1994-09/30/1996 FY95: \$178,000 TOTAL: \$277,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P F MICHELSON HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAGW 4570 **Stanford University** **1944**
ARCHIVING OF PLANETARY RADIO SCIENCE DATA
Period *Obligations*
06/12/1995-01/31/1996 FY95: \$51,359 TOTAL: \$51,359
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G L TYLER HQ/J BERGSTRALH 11-Astronomy

NAGW 3629 **Stanford University** **1937**
ANALYSES AT HIGH SPETIAL RESOLUTION OF ORGANIC MOL
ECULES IN EXTRATERRESTRIAL SAMPLES
Period *Obligations*
06/03/1993-07/31/1996 FY95: \$63,500 TOTAL: \$153,883
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R ZARE HQ/J BOYCE 32-Geological Sci

NAGW 4738 **Stanford University** **1945**
LIGHTNING INDUCED HEATING OF THE LOWER IONOSPHERE AND
THE MECHANISM OF UPWARD DISCHARGES
Period *Obligations*
09/06/1995-05/31/1996 FY95: \$39,000 TOTAL: \$39,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
U S INAN HQ/M M MELLOTT 13-Physics

NAGW 3702 **Stanford University** **1938**
INFERENCE OF SURFACE PROPERTIES FROM COMPOSITE RAD AR
SCATTERING FUNCTIONS
Period *Obligations*
09/02/1993-06/30/1995 FY95: TOTAL: \$137,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G L TYLER HQ/J T BERGSTRALH 32-Geological Sci

NAGW 4746 **Stanford University** **1946**
THE GAMMA-RAY LARGE AREA SPACE TELESCOPE (GLAST)
Period *Obligations*
09/08/1995-11/30/1996 FY95: \$84,000 TOTAL: \$84,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P E MICHELSON HQ/M KAPLAN 13-Physics
HQ/D W WEEDMAN

NAGW 4212 **Stanford University** **1939**
SUPPORT OF THE ECOSYSTEM PHYSIOLOGY COMPONENT OF THE
IGBP GLOBAL CHANGE AND TERRESTRIAL ECOSYSTEMS
Period *Obligations*
12/16/1994-07/31/1997 FY95: \$271,500 TOTAL: \$271,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H A MOONEY HQ/D E WICKLAND 39-Env Sci, NEC
HQ/A C JANETOS

NAS 2-14308 **Stanford University** **1947**
RESPONSIBLE WORKBENCH - A RESPONSIVE ENVIRONMENT FOR
THE VIRTUAL WIND TUNNUEL
Period *Obligations*
08/31/1995-08/30/1996 FY95: \$94,741 TOTAL: \$94,741
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P HANRAHAN ARC/A VIZIRI 22-Computer Science

NAGW 4262 **Stanford University** **1940**
SURFACE COMPOSITION OF PRIMITIVE ASTEROIDS
Period *Obligations*
01/23/1995-06/30/1996 FY95: \$12,854 TOTAL: \$12,854
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R WAGNER HQ/J RAHE 11-Astronomy

NAS 5-29389 **Stanford University** **1948**
MAMA DETECTORS FOR THE HST IMAGING SPECTROGRAPH
SUPPORT AND DEVELOPMENT
Period *Obligations*
12/15/1986-03/14/1994 FY95: TOTAL: \$3,764,092
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J G TIMOTHY GSFC/D VITAGLIANO 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAS 5-30386 **Stanford University** **1949**
 MICHAELSON DOPPLER IMAGER ISTEP SOHO PROGRAM
Period Obligations
 11/01/1988-11/30/1995 FY95: \$4,815,300 TOTAL: \$58,302,800
Prin. Invest. NASA Tech. Officer CASE Category
 R H SCHERRER GSFC/J GERVIN 13-Physics

NAS 5-30387 **Stanford University** **1950**
 CO-I TO SUPPORT SUMER AND CDS INVESTIGATIONS SOHO
Period Obligations
 11/01/1988-08/15/1995 FY95: TOTAL: \$22,270,239
Prin. Invest. NASA Tech. Officer CASE Category
 J TIMOTHY GSFC/J GERVIN 42-Astro Engr

NAS 5-31726 **Stanford University** **1951**
 EOS - 'BIOSPHERE-ATMOSPHERE INTERACTIONS' STUDY
Period Obligations
 10/24/1991-12/31/1999 FY95: \$133,000 TOTAL: \$682,700
Prin. Invest. NASA Tech. Officer CASE Category
 H MOONEY GSFC/P SELLERS 31-Atmos Sci
 P VITOUSEK

NAS 8-36125 **Stanford University** **1952**
 GRAVITY PROBE B SHUTTLE FLIGHT EXPERIMENT ENGINEERING
 DEVELOPMENT (GP8B) PHASE I DEFINITION
Period Obligations
 03/29/1985-12/31/1995 FY95: \$9,011,776 TOTAL: \$187,975,244
Prin. Invest. NASA Tech. Officer CASE Category
 C W EVERITT MSFC/R ISE 13-Physics
 B W PARKINSON MSFC/R GEVEDEN
 W FAIRBANK

NAS 8-39225 **Stanford University** **1953**
 GRAVITY PROBE B SCIENCE MISSION INTERIM CONTRACT
Period Obligations
 01/18/1995-09/30/1995 FY95: \$34,070,000 TOTAL: \$34,070,000
Prin. Invest. NASA Tech. Officer CASE Category
 C W EVERITT MSFC/R S GEVEDENS 13-Physics
 B PARKINSON MSFC/R ISE

NCA 2-767 **Stanford University** **1954**
 INTERNAL WELD DEFECTS: RESIDUAL STRESS FIELDS AND
 EFFECT ON FATIGUE LIFETIME
Period Obligations
 11/16/1992-11/15/1994 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 D NELSON ARC/H NELSON 46-Mech Engr

NCA 2-768 **Stanford University** **1955**
 STANFORD-AMES GLOBAL CHANGE STUDIES: BIOGEOCHEMICAL
 CYCLES
Period Obligations
 11/16/1992-11/30/1994 FY95: TOTAL: \$28,389
Prin. Invest. NASA Tech. Officer CASE Category
 W G ERNST ARC/P B RUSSELL 39-Env Sci, NEC

NCA 2-807 **Stanford University** **1956**
 INVESTIGATIONS WITH SHEAR STRESS SENSITIVE LIQUID
 CRYSTALS
Period Obligations
 04/02/1993-06/30/1995 FY95: TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J MOFFAT ARC/D C REDA 41-Aero Engr

NCA 2-812 **Stanford University** **1957**
 QUANTITATIVE STUDY OF ENERGY EXCHANGE RATE IN HYPER-
 VELOCITY FLOWS OF SELECTED GASES
Period Obligations
 04/30/1993-05/31/1995 FY95: TOTAL: \$77,475
Prin. Invest. NASA Tech. Officer CASE Category
 D BERSHADER ARC/S P SHARMA 41-Aero Engr
 ARC/W J FEIEREISEN

NCA 2-828 **Stanford University** **1958**
 DIODE LASER-BASED ABSORPTION DIAGNOSTICS FOR MEASUREMENT
 OF H₂O IN SHOCK TUNNEL FLOWS
Period Obligations
 06/29/1993-06/30/1995 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 R K HANSON ARC/J A CAVOLOWSKY 41-Aero Engr
 ARC/G S DEIWERT

NCA 2-829 **Stanford University** **1959**
 DIODE LASER-BASED O₂ ABSORPTION TECHNIQUE FOR MASS FLUX
 MEASUREMENT IN SCRAMJET ENGINES
Period Obligations
 06/29/1993-06/30/1995 FY95: TOTAL: \$77,867
Prin. Invest. NASA Tech. Officer CASE Category
 R K HANSON ARC/J A CAVOLOWSKY 41-Aero Engr
 ARC/G S DEIWERT

NCA 2-830 **Stanford University** **1960**
 AUTOMATIC ALGORITHM GENERATION FOR MAXWELL'S EQUATIONS
Period Obligations
 06/29/1993-09/30/1994 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 R W MACCORMACK ARC/P GOORJIAN 41-Aero Engr

NCC 2-55 **Stanford University** **1961**
 THE RESEARCH AND TRAINING ACTIVITIES FOR THE JOINT
 INSTITUTE FOR AERONAUTICS AND ACOUSTICS
Period Obligations
 12/01/1979-09/30/1995 FY95: \$557,810 TOTAL: \$6,835,811
Prin. Invest. NASA Tech. Officer CASE Category
 L ROBERTS ARC/C A SMITH 41-Aero Engr
 ARC/J D MURPHY

NCC 2-307 **Stanford University** **1962**
 CENTER OF EXCELLENCE IN MODEL-BASED HUMAN
 PERFORMANCE
Period Obligations
 07/01/1984-11/30/1995 FY95: \$80,000 TOTAL: \$2,341,932
Prin. Invest. NASA Tech. Officer CASE Category
 B A WANDELL ARC/A J AHUMADA 69-Psych, NEC
 ARC/A B WATSON

NCC 2-333 **Stanford University** **1963**
 RESEARCH ON CONTROL OF SPACECRAFT MANIPULATOR SYSTEMS
Period Obligations
 11/01/1987-10/31/1995 FY95: \$600,000 TOTAL: \$5,859,799
Prin. Invest. NASA Tech. Officer CASE Category
 R H CANNON ARC/B P HINE 42-Astro Engr
 ARC/H LUM

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCC 2-460 **Stanford University** **1964**
 CENTER FOR TURBULENCE RESEARCH
Period *Obligations*
 12/01/1986-12/31/1995 FY95: \$960,000 TOTAL: \$10,721,323
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P MOIN ARC/M INOUIYE 46-Mech Engr
 W C REYNOLDS ARC/H LOMAX

NCC 2-891 **Stanford University** **1972**
 LAPLACIAN OF GAUSSIAN SIGHT CORRELATION FOR VISUAL SENSING
Period *Obligations*
 03/07/1995-12/31/1995 FY95: \$198,314 TOTAL: \$198,314
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S M ROCK ARC/R E SUDRSA 41-Aero Engr
 ARC/P N SMITH

NCC 2-514 **Stanford University** **1965**
 CONSERVATION OF DESIGN KNOWLEDGE
Period *Obligations*
 12/01/1988-09/30/1995 FY95: \$50,000 TOTAL: \$1,276,814
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L LEIFER ARC/S LAU 22-Computer Science
 ARC/W BROOKS

NCC 2-899 **Stanford University** **1973**
 DEVELOPMENT OF THE TENSORAL COMPUTER LANGUAGE
Period *Obligations*
 03/27/1995-12/31/1995 FY95: \$110,720 TOTAL: \$110,720
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J H FERZIGER ARC/W J FEIEREISEN 22-Computer Science
 E DRESSELHAUS

NCC 2-537 **Stanford University** **1966**
 DEVELOPMENT OF A REUSABLE KNOWLEDGE BASE FOR SPACE APPLICATIONS
Period *Obligations*
 02/01/1988-05/31/1995 FY95: \$100,300 TOTAL: \$2,190,578
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G M HOMSY ARC/S LAU 22-Computer Science
 E A FEIGENBAUM MSFC/M FREEMAN

NCC 2-908 **Stanford University** **1974**
 STUDIES OF PLANETARY RING SYSTEMS
Period *Obligations*
 06/26/1995-08/31/1996 FY95: \$132,762 TOTAL: \$132,762
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A L TYLER ARC/J N CUZZI 11-Astronomy
 M R SHOWALTER

NCC 2-721 **Stanford University** **1967**
 THE STRUCTURE, FACIES AND DEPOSITION OF SILICEOUS S INTER AROUND THERMAL SPRINGS: IMPLICATIONS FOR..
Period *Obligations*
 07/03/1991-06/30/1996 FY95: \$109,442 TOTAL: \$265,508
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D R LOWE ARC/D J DES MARAIS 32-Geological Sci
 ARC/S CHANG

NCC 2-5001 **Stanford University** **1975**
 MEAN VELOCITY AND TURBULENT STRESS NEAR THE WALL IN A THREE-DIMENSIONAL BOUNDARY LAYER
Period *Obligations*
 09/28/1993-09/30/1994 FY95: TOTAL: \$8,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J EATON ARC/D A JOHNSON 41-Aero Engr

NCC 2-777 **Stanford University** **1968**
 COLOR IMAGE PROCESSING FOR FLAT PANEL VISUAL DISPL AY MODLEING
Period *Obligations*
 12/16/1992-10/31/1994 FY95: TOTAL: \$326,212
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G L TYLER ARC/J O LARIMER 29-Math/Cmputer,NEC
 ARC/B R SMITH

NCC 2-5002 **Stanford University** **1976**
 FOUNDATION OF THE BLADE-VORTEX NOISE GENERATION PH ENOMENON: EXPERIMENT AND COMPUTATION
Period *Obligations*
 09/28/1993-09/30/1994 FY95: TOTAL: \$25,079
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D BERSHADER ARC/C TUNG 41-Aero Engr

NCC 2-778 **Stanford University** **1969**
 ADAPTIATION AND PLASTICITY IN BIOLOGICAL SYSTEM
Period *Obligations*
 12/16/1992-08/31/1995 FY95: TOTAL: \$167,104
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M W FELDMAN ARC/M D ROSS 51-Biological Sci

NCC 2-5020 **Stanford University** **1977**
 CONTROLLER DESIGN FOR HELICOPTERS WITH VARIABLE RO TOR SPEED CONTROL
Period *Obligations*
 12/21/1993-06/30/1995 FY95: TOTAL: \$32,375
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S ROCK ARC/R CHEN 41-Aero Engr
 ARC/J SCHROEDER

NCC 2-844 **Stanford University** **1970**
 OBJECT-BASED TASK-LEVEL CONTROL FOR SEMI-AUTOMONOU S HELICOPTER USING GPS
Period *Obligations*
 02/04/1994-12/31/1994 FY95: TOTAL: \$120,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S M ROCK ARC/B SRIDHAR 41-Aero Engr
 ARC/P SMITH

NCC 2-5023 **Stanford University** **1978**
 MODELING THE CHEMISTRY AND PHYSICS OF SULFATE CLOU D CONDENSATION NUCLEI FORMATION IN REMOTE MARINE
Period *Obligations*
 12/21/1993-12/31/1994 FY95: TOTAL: \$21,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L HILDEMAN ARC/R CHATFIELD 31-Atmos Sci

NCC 2-879 **Stanford University** **1971**
 A STUDY OF FATIGUE CRACK GROWTH FROM INTERNAL WELD DEFECTS
Period *Obligations*
 11/04/1994-10/31/1995 FY95: \$56,930 TOTAL: \$56,930
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D V NELSON ARC/R MANCINI 46-Mech Engr
 ARC/T L PANONTIN

NCC 2-5030 **Stanford University** **1979**
 CMEX STANFORD SITE SELECTION PROJECT
Period *Obligations*
 02/03/1994-01/31/1995 FY95: TOTAL: \$39,866
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B LUSIGNAN ARC/G BRIGGS 42-Astro Engr

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-050-774 **Stanford University** **2012**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/16/1991-12/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A B WALKER HQ/F C OWENS 13-Physics

NGT 00-051-308 **Stanford University** **2021**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/23/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B CANTWELL ARC/M MOORE 41-Aero Engr

NGT 00-050-856 **Stanford University** **2013**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 09/19/1991-03/14/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J A LIPA HQ/J K ALEXANDER 13-Physics

NGT 00-051-341 **Stanford University** **2022**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 09/29/1994-08/31/1996 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P SEGALL HQ/S HARADON 46-Mech Engr

NGT 00-050-938 **Stanford University** **2014**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/24/1992-06/30/1994 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 V PETROSIAN HQ/J ALEXANDER 13-Physics

NGT 00-051-344 **Stanford University** **2023**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G M HOMSY HQ/G A LESANE 43-Chem Engr

NGT 00-050-964 **Stanford University** **2015**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/16/1992-09/30/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M J FLYNN HQ/P HUNTER 22-Computer Science

NGT 00-070-182 **Stanford University** **2024**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 08/29/1990-05/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A WALKER HQ/F C OWENS 13-Physics

NGT 00-051-028 **Stanford University** **2016**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/22/1993-06/30/1996 FY95: TOTAL: \$29,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R J MOFFAT ARC/M MOORE 46-Mech Engr

NGT 00-070-249 **Stanford University** **2025**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 08/18/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G TYLER HQ/P HUNTER 45-Elec Engr

NGT 00-051-056 **Stanford University** **2017**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 05/25/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R H CANNON JSC/S GOLDSTEIN 41-Aero Engr

NGT 00-070-277 **Stanford University** **2026**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 06/26/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B CANTWELL ARC/M MOORE 41-Aero Engr

NGT 00-051-153 **Stanford University** **2018**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/25/1993-09/14/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J LIPA HQ/D A HOLLAND 13-Physics

NGT 00-070-284 **Stanford University** **2027**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 06/26/1992-06/30/1996 FY95: \$22,000 TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A B WALKER GSFC/G SOFFEN 13-Physics

NGT 00-051-238 **Stanford University** **2019**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 09/08/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M CAPPELI LERC/F MONTEGANI 46-Mech Engr

NGT 00-070-330 **Stanford University** **2028**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 07/07/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D BERSHADER HQ/D K RUSSELL 41-Aero Engr

NGT 00-051-285 **Stanford University** **2020**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/06/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J OLIGER HQ/D HOLLAND 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-070-340 **Stanford University** **2029**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 06/30/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L TYLER HQ/D K RUSSELL 45-Elec Engr

NGT 00-070-342 **Stanford University** **2030**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 06/29/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R SHACHTER HQ/D K RUSSELL 22-Computer Science

NGT 00-070-348 **Stanford University** **2031**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 08/12/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 O KHATIB HQ/D K RUSSELL 41-Aero Engr

NGT 00-070-361 **Stanford University** **2032**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 08/31/1993-08/31/1995 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J POWELL HQ/D K RUSSELL 46-Mech Engr

NGT 00-070-364 **Stanford University** **2033**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 09/11/1993-09/30/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A WALKER HQ/D K RUSSELL 13-Physics

NGT 00-070-405 **Stanford University** **2034**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 11/07/1994-09/05/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L LEIFER HQ/D K RUSSELL 46-Mech Engr

NGT 00-090-112 **Stanford University** **2035**
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 09/17/1992-08/14/1995 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N LOZANO HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-222 **Stanford University** **2036**
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period *Obligations*
 09/14/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N LOZANO HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-259 **Stanford University** **2037**
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period *Obligations*
 12/19/1994-08/14/1995 FY95: \$12,000 TOTAL: \$12,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N LOZANO HQ/D K RUSSELL 44-Civil Engr

NGT 2-52207 **Stanford University** **2038**
 TASK-LEVEL CONTROL FOR A REDUNDANT MANIPULATOR
Period *Obligations*
 09/14/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R H CANNON ARC/B HINE 41-Aero Engr
 G A HUNT

NGT 2-52208 **Stanford University** **2039**
 INTELLIGENT MACHANISMS AND REHABILITATION ROBOTICS
Period *Obligations*
 09/21/1995-06/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L LEIFER ARC/B HINE 46-Mech Engr
 M J JOHNSON

NGT 2-52209 **Stanford University** **2040**
 A DIRECT NUMERICAL SIMULATION OF TURBULENCE IN A C
 OMPRESSIBLE BOUNDARY LAYER
Period *Obligations*
 09/21/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P W MAC CORMACK ARC/K SHARIFF 41-Aero Engr
 S E GUARONO ARC/N MANSOUR

NGT 5-20412 **Stanford University** **2041**
 A SUMMER PROGRAM OF NASA SUMMER FACULTY FELLOWSHIPS
 \$171,216
Period *Obligations*
 12/16/1969-03/31/1996 FY95: \$568,989 TOTAL: \$7,399,691
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D BERSHADER HQ/A S MCGEE 49-Engr, NEC
 J MAYERS HQ/E T SCHWARTZ

NGT 9-6 **Stanford University** **2042**
 DYNAMIC SIMULATION OF ROBOTIC ENVIRONMENTS
Period *Obligations*
 06/29/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 O KHATIB JSC/D G SOCKOREZ 22-Computer Science

NSG-5131 **Stanford University** **2043**
 SPECTROSCOPY OF COSMIC X RAY SOURCES
Period *Obligations*
 11/15/1976-11/30/1995 FY95: TOTAL: \$3,504,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A B WALKER GSFC/L J EARLY 13-Physics
 J H UNDERWOOD GSFC/R H PLESS

NAG 2-208 **University of California - Berkeley** **2044**
 SPECTROSCOPIC OBSERVATION OF INFRARED LINES NORMAL LY
 OBCURED BY ATMOSPHERIC ABSORPTION
Period *Obligations*
 11/01/1987-10/31/1995 FY95: \$156,000 TOTAL: \$1,987,151
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C H TOWNES ARC/L C HAUGHNEY 11-Astronomy
 R GENZEL

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 2-243 University of California - Berkeley 2045
CONTROL SYSTEMS DESIGN METHODOLOGIES IN COMPUTER A
IDED DESIGN ENVIRONMENT
Period *Obligations*
10/01/1983-12/31/1995 FY95: \$47,485 TOTAL: \$779,204
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S S SASTRY ARC/G MEYER 49-Engr, NEC
C DESOER
E POLAK

NAG 2-572 University of California - Berkeley 2046
THE ROLE OF CALCITE SKELETAL MATRIX PROTEINS IN B
IOMINERALIZATION
Period *Obligations*
05/09/1989-12/31/1994 FY95: TOTAL: \$355,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F H WILT ARC/E M HOLTON 51-Biological Sci

NAG 2-711 University of California - Berkeley 2047
ANTENNA COUPLED MICROBOLOMETER
Period *Obligations*
07/16/1991-10/31/1995 FY95: \$30,000 TOTAL: \$208,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P L RICHARDS ARC/C R MCCREIGHT 13-Physics
ARC/R E MCMURRAY

NAG 2-858 University of California - Berkeley 2048
A SEARCH FOR PURE CARBON CLUSTERS IN THE ISM
Period *Obligations*
08/17/1993-11/30/1994 FY95: TOTAL: \$23,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J SAYKALLY ARC/C D LAUGHLIN 11-Astronomy
ARC/C M GILLESPIE

NAG 2-917 University of California - Berkeley 2049
FIFTH INTERNATIONAL CONFERENCE ON HYDROGEN EFFECTS ON
MATERIAL BEHAVIOR
Period *Obligations*
07/15/1994-09/30/1994 FY95: TOTAL: \$7,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R O RITCHIE ARC/T L PANONTIN 47-Materials Engr

NAG 3-1143 University of California - Berkeley 2050
FLUID INTERFACE BEHAVIOR UNDER LOW-AND ZERO-GRAVIT Y
CONDITIONS
Period *Obligations*
03/29/1980-09/30/1994 FY95: TOTAL: \$267,947
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P CONCUS LERC/M M WEISLOGEL 21-Mathematics

NAG 3-1252 University of California - Berkeley 2051
A FUNDAMENTAL STUDY OF SMOLDERING COMBUSTION IN MIC
ROGRAVITY
Period *Obligations*
03/15/1991-03/13/1996 FY95: \$166,763 TOTAL: \$805,642
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A C LERC/S OLSON 49-Engr, NEC
FERNANDEZ-PELLO
P J PAGNI

NAG 3-1633 University of California - Berkeley 2052
MARANGONI EFFECTS IN BOILING OF BINARY FLUID MIXTU RES
UNDER MICROGRAVITY
Period *Obligations*
06/24/1994-06/23/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
V P CAREY LERC/B S SINGH 46-Mech Engr

NAG 5-696 University of California - Berkeley 2053
A PROPOSAL TO FLY THE EUV/FUV SPECTROMETER ON ORFEUS
FOR ASTRO-SPAS I AND II
Period *Obligations*
12/18/1992-10/31/1995 FY95: \$530,400 TOTAL: \$1,515,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C S BOWYER GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-959 University of California - Berkeley 2054
ELECTRON REFLECTOMETER ADDITION TO THE MAGNETIC FIELDS
INVESTIGATION ON THE MARS OBSERVER MISSION
Period *Obligations*
08/01/1987-12/31/1995 FY95: \$100,000 TOTAL: \$1,150,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R P LIN GSFC/M H ACUNA 13-Physics
C F MCKEE

NAG 5-1230 University of California - Berkeley 2055
STUDIES OF THE HIGH-LATITUDE INTERSTELLA MEDIUM
Period *Obligations*
08/04/1989-10/31/1996 FY95: TOTAL: \$195,090
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C HEILES GSFC/D WEST 11-Astronomy

NAG 5-1318 University of California - Berkeley 2056
RESERACH USING THE COBE SATELLITE
Period *Obligations*
12/14/1989-12/31/1995 FY95: \$110,000 TOTAL: \$1,909,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G F SMOOT GSFC/J MATHER 11-Astronomy

NAG 5-1360 University of California - Berkeley 2057
A STUDY OF THE UNIFORMITY OF THE CATALOG OF GALAXI ES
EXTRACTED FROM THE IRAS DAT
Period *Obligations*
04/12/1990-05/31/1995 FY95: TOTAL: \$240,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J SILK GSFC/D WEST 11-Astronomy

NAG 5-1559 University of California - Berkeley 2058
STEREOSCOPIC OBSERVATIONS OF SOLAR FLARE X-RAY AND
GAMMA-RAY SOURCES
Period *Obligations*
04/17/1991-12/14/1994 FY95: TOTAL: \$109,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K C HURLEY GSFC/J P NORRIS 11-Astronomy
GSFC/D A KNIFFEN

NAG 5-1560 University of California - Berkeley 2059
MAINTAINING THE THIRD INTERPLANETARY NETWORK FOR G
AMMA-RAY BURSTERS
Period *Obligations*
04/17/1991-11/30/1995 FY95: \$99,000 TOTAL: \$297,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K C HURLEV GSFC/J P NORRIS 11-Astronomy
GSFC/D A KNIFFEN

NAG 5-1607 University of California - Berkeley 2060
SCIENCE VERIFICATION AND GUARANTEED-TIME OBSERVATI ONS
WITH THE HST
Period *Obligations*
05/21/1991-10/31/1995 FY95: \$135,300 TOTAL: \$1,127,620
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I KING GSFC/S SOBIESKI 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 5-1727 University of California - Berkeley 2061
 DETECTION OF GAMMA RAY BURSTS AND OPTICAL TRANSIENT PARTS AND NEUTRON STARS
Period *Obligations*
 10/15/1991-01/31/1996 FY95: \$9,400 TOTAL: \$63,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K C HURLEY GSFC/R PETRE 11-Astronomy

NAG 5-2304 University of California - Berkeley 2069
 HIGH SPATIAL RESOLUTION INVESTIGATIONS OF MICROCHANNEL PLATE IMAGERY PROPERTIES OF UV DETECTOR
Period *Obligations*
 07/07/1993-07/14/1996 FY95: TOTAL: \$530,056
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 O H SIEGMUND GSFC/G SONNEBORN 11-Astronomy

NAG 5-1818 University of California - Berkeley 2062
 IS THE X-RAY CONTINUUM FROM RADIO-LOUD QUASARS
Period *Obligations*
 10/15/1991-04/14/1996 FY95: TOTAL: \$110,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H SPINRAD GSFC/R PETRE 11-Astronomy

NAG 5-2351 University of California - Berkeley 2070
 ELECTRON ACCELERATION IN SOLAR FLARES
Period *Obligations*
 08/12/1993-11/30/1995 FY95: \$30,000 TOTAL: \$63,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R P LIN GSFC/J NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-1892 University of California - Berkeley 2063
 SOFT X-RAY SPECTROSCOPY OF INTERMEDIATE POLARS (UC BSSL 1689/92)
Period *Obligations*
 02/10/1992-02/14/1996 FY95: TOTAL: \$29,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S KAHN GSFC/R PETRE 11-Astronomy

NAG 5-2378 University of California - Berkeley 2071
 EUV SPECTROSCOPY OF THE ACCRETION REGION IN MAGNETIC CATAclysmic BINARIES
Period *Obligations*
 09/22/1993-09/30/1996 FY95: TOTAL: \$21,596
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S M KAHN GSFC/R OLIVERSEN 11-Astronomy

NAG 5-1988 University of California - Berkeley 2064
 GLOBAL ANALYSIS OF THE VOYAGER UVS FAR UV AND EUV SPECTRAL CATALOGUE
Period *Obligations*
 06/05/1992-06/14/1994 FY95: TOTAL: \$73,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 CARONE GSFC/D WEST 11-Astronomy

NAG 5-2395 University of California - Berkeley 2072
 A STUDY OF LONG-TERM VARIABILITY IN THE X-RAY EMISSION PROPERTIES OF AM HERCULIS
Period *Obligations*
 10/13/1993-10/14/1995 FY95: \$26,000 TOTAL: \$64,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S M KAHN GSFC/D WEST 11-Astronomy

NAG 5-2009 University of California - Berkeley 2065
 A SUPERNOVA ALERT IN NEARBY IRAS GALAXIES FOR THE GAMMA RAY OBSERVATORY
Period *Obligations*
 07/15/1992-10/14/1995 FY95: \$25,000 TOTAL: \$95,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R D TRIPP GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2405 University of California - Berkeley 2073
 HEAVY ELEMENTS IN HOT DA WHITE DWARFS: A GROUP OF EXCEPTIONAL EUV-SELECTED OBJECTS
Period *Obligations*
 10/22/1993-10/31/1995 FY95: TOTAL: \$129,386
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C S BOWYER GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2015 University of California - Berkeley 2066
 AN IRAS-BASED SEARCH FOR DUSTY LATE WC-TYPE WOLF-RAYET STARS
Period *Obligations*
 07/15/1992-04/14/1994 FY95: TOTAL: \$47,099
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 COHEN GSFC/D WEST 11-Astronomy

NAG 5-2430 University of California - Berkeley 2074
 A SEARCH FOR PULSED RADIO EMISSION FROM UNIDENTIFIED EGRET SOURCES
Period *Obligations*
 11/12/1993-11/30/1994 FY95: TOTAL: \$38,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D C BACKER GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2088 University of California - Berkeley 2067
 SUPERNOVA REMNANT BLAST-WAVE INTERACTIONS WITH INTERSTELLAR CLOUDS: CASE STUDIES FROM CYGNUS LOOP
Period *Obligations*
 09/02/1992-02/14/1997 FY95: \$39,883 TOTAL: \$99,512
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J R GRAHAM GSFC/R PETRE 11-Astronomy

NAG 5-2438 University of California - Berkeley 2075
 ANALYSIS OF COBE DMR SKY MAPS
Period *Obligations*
 11/10/1993-11/14/1994 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J SILK GSFC/D WEST 11-Astronomy

NAG 5-2135 University of California - Berkeley 2068
 HEAVY ELEMENTS ABUNDANCES IN HOT DA WHITE DWARFS: C, N, SI, AND FE
Period *Obligations*
 11/09/1992-01/31/1995 FY95: TOTAL: \$19,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C S BOWYER GSFC/D WEST 11-Astronomy

NAG 5-2452 University of California - Berkeley 2076
 COUPLED DIFFUSION AND CONDENSATION PROBLEMS: IMPLICATIONS FOR WATER VAPOR AND SULFURIC ACID.
Period *Obligations*
 12/13/1993-03/14/1994 FY95: TOTAL: \$15,826
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S BOWYER GSFC/M MUMMA 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 5-2516 University of California - Berkeley 2077
 VARIABILITY IN GASEOUS SHELLS AROUND A STARS
Period Obligations
 02/16/1994-02/28/1995 FY95: TOTAL: \$2,498
Prin. Invest. NASA Tech. Officer CASE Category
 O SIEGMUND GSFC/D WEST 11-Astronomy

NAG 5-2625 University of California - Berkeley 2085
 INVESTIGATION OF THE EFFECT OF THE BREAK-UP OF COM ET
 SHOEMAKER-LEVY 9 ON THE IO PLASMA
Period Obligations
 06/28/1994-06/30/1996 FY95: TOTAL: \$13,917
Prin. Invest. NASA Tech. Officer CASE Category
 R LIEU GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2555 University of California - Berkeley 2078
 STUDIES OF EUV INSTRUMENTATION AND TECHNOLOGIES
Period Obligations
 03/14/1994-08/31/1995 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 R F MALINA GSFC/G SONNEBORN 11-Astronomy

NAG 5-2635 University of California - Berkeley 2086
 TECHNOLOGY DEVELOPMENT FOR HIGH RESOLUTION GAMMA R
 AY SPECTROSCOPY
Period Obligations
 06/28/1994-06/30/1995 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 R P LIN GSFC/B J TEEGARDEN 11-Astronomy

NAG 5-2575 University of California - Berkeley 2079
 EUVE OBSERVATIONS OF GAMMA-RAY BURSTERS
Period Obligations
 04/12/1994-04/14/1995 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 K C HURLEY GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2636 University of California - Berkeley 2087
 A TEST FOR THE HOMOGENEITY OF THE HELIUM IONIZATIO N
 FRACTION IN THE LOCAL ISM
Period Obligations
 07/05/1994-07/14/1996 FY95: TOTAL: \$55,199
Prin. Invest. NASA Tech. Officer CASE Category
 S YENNEZ GSFC/R OLIVERSEN 12-Chemistry

NAG 5-2586 University of California - Berkeley 2080
 FE L-SHELL LINE EMISSIN FROM SEYFERT GALAXIES
Period Obligations
 05/05/1994-11/14/1995 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 S KHAN GSFC/N WHITE 11-Astronomy

NAG 5-2641 University of California - Berkeley 2088
 EUV SPECTROSCOPY OF ANOMALOUS AM HER STARS AND FLARE
 S AND INTRASYSTEM GAS IN V4741 TAURII
Period Obligations
 07/06/1994-07/14/1996 FY95: TOTAL: \$62,900
Prin. Invest. NASA Tech. Officer CASE Category
 O H SIEGMOND GSFC/R J OLIVERSEN 11-Astronomy

NAG 5-2619 University of California - Berkeley 2081
 X-RAY SPECTRA OF RADIO QUASARS AND RELATIVISTIC BE
 AMING
Period Obligations
 06/14/1994-06/14/1995 FY95: TOTAL: \$41,000
Prin. Invest. NASA Tech. Officer CASE Category
 H SPINRAD GSFC/D WEST 11-Astronomy

NAG 5-2683 University of California - Berkeley 2089
 THE CORONAE OF M DWARFS, THE FIP EFFECT AND THE ORIGIN
 OF COSMIC RAYS
Period Obligations
 08/11/1994-08/14/1996 FY95: \$9,427 TOTAL: \$54,427
Prin. Invest. NASA Tech. Officer CASE Category
 J J DRAKE GSFC/R OLLVERSEN 11-Astronomy

NAG 5-2620 University of California - Berkeley 2082
 LOW METALLICITY IN VERY HOT WHITE DWARFS: IMPLICA TION
 ON MASS LOSS PROCESSES IN YOUNG D
Period Obligations
 06/15/1994-06/14/1996 FY95: TOTAL: \$38,964
Prin. Invest. NASA Tech. Officer CASE Category
 J DUPUIS GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2704 University of California - Berkeley 2090
 OBSERVATIONS OF GAMMA RAY BURSTERS
Period Obligations
 08/24/1994-02/29/1996 FY95: \$9,900 TOTAL: \$9,900
Prin. Invest. NASA Tech. Officer CASE Category
 K HURLEY GSFC/N WHITE 11-Astronomy

NAG 5-2623 University of California - Berkeley 2083
 EUV STUDIES OF X-RAY ILLUMINATED DISKS IN INTERMED IATE
 POLARS 2
Period Obligations
 06/28/1994-06/30/1996 FY95: TOTAL: \$16,661
Prin. Invest. NASA Tech. Officer CASE Category
 M HURWITZ GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2718 University of California - Berkeley 2091
 CONTINUED ANALYSIS OF GEOTAIL ELECTRIC FIELD DATA
Period Obligations
 09/07/1994-11/30/1995 FY95: \$88,706 TOTAL: \$95,000
Prin. Invest. NASA Tech. Officer CASE Category
 F S MOZER GSFC/D FAIRFIELD 11-Astronomy

NAG 5-2624 University of California - Berkeley 2084
 COORDINATED HST - EUVE OBSERVATIONS OF YZ CMI
Period Obligations
 06/28/1994-06/30/1996 FY95: TOTAL: \$4,986
Prin. Invest. NASA Tech. Officer CASE Category
 M MATHIODAKIS GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2804 University of California - Berkeley 2092
 THE OCNTRIBUTION OF LOW LUMINOSITY ACTIVE GALAXIES TO
 THE COSMIC X-RAY BACKGROUND
Period Obligations
 12/05/1994-12/14/1995 FY95: \$26,000 TOTAL: \$28,000
Prin. Invest. NASA Tech. Officer CASE Category
 S E DEUSTUA GSFC/D K WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 5-2815 University of California - Berkeley 2093
ANALYSIS OF DATA FROM THE 3-D PLASMA AND ENERGETIC PARTICLE EXPERIMENT ON THE GGS WIND SPACECRAFT
Period Obligations
12/12/1994-12/14/1995 FY95: \$853,300 TOTAL: \$853,300
Prin. Invest. NASA Tech. Officer CASE Category
R P LIN GSFC/K W OGLIVIE 19-Phys Sci, NEC

NAG 5-3002 University of California - Berkeley 2101
COSMOLOGICAL STUDIES OF THE COSMIC MICROWAVE BACKGROUND
Period Obligations
07/14/1995-07/31/1996 FY95: \$56,100 TOTAL: \$56,100
Prin. Invest. NASA Tech. Officer CASE Category
J SILK GSFC/D WEST 11-Astronomy

NAG 5-2819 University of California - Berkeley 2094
THEORETICAL STUDIES OF THERMONUCLEAR PROCESSING AND NONRADIAL OSCILLATIONS OF ACCRETING
Period Obligations
12/12/1994-12/31/1996 FY95: \$122,000 TOTAL: \$122,000
Prin. Invest. NASA Tech. Officer CASE Category
L BILDSTEN GSFC/D WEST 11-Astronomy

NAG 5-3019 University of California - Berkeley 2102
PROBING THE MOLECULAR CONTENT OF HIGH LATITUDE GAS
Period Obligations
07/21/1995-07/31/1996 FY95: \$35,900 TOTAL: \$35,900
Prin. Invest. NASA Tech. Officer CASE Category
M HURWITZ GSFC/D WEST 11-Astronomy

NAG 5-2875 University of California - Berkeley 2095
A SCIENCE INFRASTRUCTURE FOR ACCESS TO EARTH AND SPACE SCIENCE DATA THROUGH THE NATION'S SCIENCE...
Period Obligations
01/19/1995-01/31/1996 FY95: \$350,000 TOTAL: \$350,000
Prin. Invest. NASA Tech. Officer CASE Category
C CHRISTIAN GSFC/F HASLER 99-Multi-Discip

NAG 5-3074 University of California - Berkeley 2103
BURST ARCSECOND IMAGING AND SPECTROSCOPY
Period Obligations
09/25/1995-09/30/1996 FY95: \$12,000 TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
K C HURLEY GSFC/N GEHRELS 11-Astronomy

NAG 5-2900 University of California - Berkeley 2096
ASCA OBSERVATIONS OF OUTBURSTS AND QUIESCENT EMISSION FROM THE BINARY X-RAY PULSAR 0834-430
Period Obligations
03/28/1995-03/14/1996 FY95: \$4,929 TOTAL: \$4,929
Prin. Invest. NASA Tech. Officer CASE Category
D BILDSTEN GSFC/D WHITE 11-Astronomy

NAG 6-10 University of California - Berkeley 2104
SOUNDING ROCKET RESEARCH PROGRAM
Period Obligations
11/01/1980-12/31/1995 FY95: \$5,000 TOTAL: \$3,107,949
Prin. Invest. NASA Tech. Officer CASE Category
C W CARLSON GSFC/L J EARLY 19-Phys Sci, NEC
F S MOZER GSFC/R H PLESS
K A ANDERSON

NAG 5-2952 University of California - Berkeley 2097
IN PURSUIT OF THE FIP EFFECT IN STELLAR CORONAE
Period Obligations
06/06/1995-12/14/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
J DRAKE GSFC/N WHITE 11-Astronomy

NAGW 604 University of California - Berkeley 2105
EXPERIMENTAL STUDIES PERTAINING TO THE NATURE OF THE EARTH'S CORE
Period Obligations
04/15/1984-09/30/1995 FY95: \$90,069 TOTAL: \$880,068
Prin. Invest. NASA Tech. Officer CASE Category
R JEANLOZ HQ/J UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

NAG 5-2978 University of California - Berkeley 2098
SPECTRAL VARIABILITY OF THE EUV EXCESSES OF 1H0419 577 AND MK 478; MULTIFREQUENCY OBSERVATIONS.....
Period Obligations
06/22/1995-06/30/1996 FY95: \$11,276 TOTAL: \$11,276
Prin. Invest. NASA Tech. Officer CASE Category
A FRUSCIONE GSFC/R OLIVERSEN 11-Astronomy

NAGW 681 University of California - Berkeley 2106
DIRECTED SEARCH FOR LASER SIGNALS AT 10 UM
Period Obligations
11/15/1984-11/14/1993 FY95: TOTAL: \$379,000
Prin. Invest. NASA Tech. Officer CASE Category
A L BETZ HQ/J D RUMMEL 13-Physics
HQ/M AVERNER

NAG 5-2993 University of California - Berkeley 2099
IN PURSUIT OF ABUNDANCE ANOMALIES AND THE FIP EFFECT IN LATE-TYPE STELLAR CORONA
Period Obligations
07/13/1995-07/14/1996 FY95: \$43,000 TOTAL: \$43,000
Prin. Invest. NASA Tech. Officer CASE Category
J J DRAKE GSFC/D WEST 11-Astronomy

NAGW 1290 University of California - Berkeley 2107
STUDY OF PHOTOEMISSION CHARACTERISTICS OF INORGANIC PHOTOCATH.
Period Obligations
05/01/1988-04/30/1996 FY95: \$190,000 TOTAL: \$1,604,348
Prin. Invest. NASA Tech. Officer CASE Category
O H SIEGMUND HQ/G C CLAYTON 11-Astronomy

NAG 5-2997 University of California - Berkeley 2100
ANALYSIS OF DATA FROM THE TRANSIENT GAMMA-RAY SPECTROMETER EXPERIMENT ON THE GGS/WIND SPACECRAFT
Period Obligations
07/18/1995-07/31/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
K C HURLEY GSFC/B J TEEGARDEN 11-Astronomy

NAGW 1352 University of California - Berkeley 2108
ROCKET BORNE SUBMILLIMETER WAVE ASTRONOMY
Period Obligations
07/13/1988-11/30/1994 FY95: TOTAL: \$601,600
Prin. Invest. NASA Tech. Officer CASE Category
P L RICHARDS HQ/F C GILLETT 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 1503 University of California - Berkeley 2109
 THE SYSTEMATIC INTERPRETATION OF COSMIC RAY DATA
Period *Obligations*
 12/28/1988-11/30/1996 FY95: \$50,000 TOTAL: \$854,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H J CRAWFORD HQ/W V JONES 13-Physics
 HQ/J D BOHLIN

NAGW 2413 University of California - Berkeley 2117
 DYNAMICS OF POLAR CAP ACCRETION ONTO NEUTRON STARS
Period *Obligations*
 03/29/1991-12/31/1995 FY95: \$23,738 TOTAL: \$515,710
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J ARONS HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 1597 University of California - Berkeley 2110
 SPACE-BORNE INFRARED ASTRONOMY
Period *Obligations*
 12/27/1988-11/30/1994 FY95: TOTAL: \$1,025,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A E LANGE HQ/F C GILLETT 11-Astronomy

NAGW 2452 University of California - Berkeley 2118
 STUDIES OF ENERGETIC ELECTRONS IN SOLAR FLARES
Period *Obligations*
 04/19/1991-06/30/1995 FY95: TOTAL: \$285,565
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K A ANDERSON HQ/W J WAGNER 13-Physics
 HQ/K LANG

NAGW 1795 University of California - Berkeley 2111
 DEVELOPMENT OF SPACE PLASMA MEASUREMENT TECHNIQUES
Period *Obligations*
 06/26/1989-07/31/1995 FY95: TOTAL: \$307,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K A ANDERSON HQ/M M MELLOTT 13-Physics
 HQ/T W PERRY

NAGW 2478 University of California - Berkeley 2119
 MULTI WAVELENGTH STUDIES OF HOT DA WHITE DWARFS
Period *Obligations*
 05/09/1991-04/30/1996 FY95: \$92,000 TOTAL: \$427,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D S FINLEY HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2000 University of California - Berkeley 2112
 HEAT: A HIGH ENERGY ANTIMATTER TELESCOPE
Period *Obligations*
 04/19/1990-10/31/1995 FY95: \$150,000 TOTAL: \$860,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P B PRICE HQ/W V JONES 13-Physics
 HQ/J C LING

NAGW 2516 University of California - Berkeley 2120
 NEW METHODS FOR INVERSION AND ANALYSIS OF SOLAR FR
 EE-OSCILLATION DATA
Period *Obligations*
 07/10/1991-12/31/1995 FY95: TOTAL: \$283,332
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B B STARK HQ/W WAGNER 13-Physics
 HQ/K LANG

NAGW 2029 University of California - Berkeley 2113
 INSTRUMENT DEVELOPMENT AND SCIENTIFIC APPLICATIONS OF
 THE EXTREME ULTRAVIOLET IMAGING TELESCOPE ARR
Period *Obligations*
 04/02/1990-01/31/1996 FY95: \$40,000 TOTAL: \$379,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 O SIEGMUND HQ/G CLAYTON 11-Astronomy

NAGW 2592 University of California - Berkeley 2121
 NAGW-2592/UNIV CA/SOFT X-RAY SPECTROSCOPY OF
 ACCRETION-POWERED SOURCES
Period *Obligations*
 08/07/1991-04/30/1996 FY95: \$154,300 TOTAL: \$574,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S M KAHN HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2104 University of California - Berkeley 2114
 DESIGN STUDIES FOR THE HNC EXPERIMENT ON THE MIR S PACE
 STATION
Period *Obligations*
 06/06/1990-10/31/1995 FY95: \$100,000 TOTAL: \$818,301
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P B PRICE HQ/W V JONES 13-Physics
 HQ/J C LING

NAGW 2640 University of California - Berkeley 2122
 DEVELOPMENT OF HIGH EFFICIENCY MICROCHANNEL PLATE
 DETECTORS W/ HIGH SPATIAL RESOLUTION
Period *Obligations*
 08/20/1991-12/31/1995 FY95: TOTAL: \$250,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 O H SIEGMOND HQ/L KALUZIENSKI 13-Physics

NAGW 2115 University of California - Berkeley 2115
 NAGW-2115/UNIV OF CA @ BERKELEY/A SCINTILLATION IM AGING
 GAS-FILLED HARD X-RAY TELESCOPE (SIGHT)
Period *Obligations*
 06/06/1990-10/31/1995 FY95: \$250,000 TOTAL: \$1,684,890
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B SADOBLET HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAGW 2688 University of California - Berkeley 2123
 HIGH ENERGY ASTROPHYSICS X-RAY ASTRONOMY RESEARCH AND
 ANALYSIS PROGRAM
Period *Obligations*
 08/20/1991-09/30/1996 FY95: TOTAL: \$455,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S M KAHN HQ/L J KALUZIENSKI 11-Astronomy

NAGW 2121 University of California - Berkeley 2116
 FAR INFRARED ALL-SKY SURVEY
Period *Obligations*
 05/18/1990-06/30/1996 FY95: \$127,000 TOTAL: \$575,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P RICHARDS HQ/G LEVY 31-Atmos Sci

NAGW 2722 University of California - Berkeley 2124
 THE DERENDIP III PIGGYBACK SETI PROGRAM
Period *Obligations*
 09/05/1991-12/31/1994 FY95: TOTAL: \$221,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C S BOWYER HQ/J D RUMMEL 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 2763 University of California - Berkeley 2125
 INFRARED LASER SPECTROSCOPY OF CARBON CLUSTERS
Period Obligations
 11/08/1991-10/31/1994 FY95: TOTAL: \$208,458
Prin. Invest. NASA Tech. Officer CASE Category
 R J SAYKALLY HQ/J D RUMMEL 12-Chemistry

NAGW 3154 University of California - Berkeley 2133
 FROM THE MOONS OF JUPITER TO THE MILKY WAY
Period Obligations
 07/30/1992-10/31/1993 FY95: TOTAL: \$4,981
Prin. Invest. NASA Tech. Officer CASE Category
 M COHEN HQ/L LAPIANA 11-Astronomy
 HQ/C J PELLERIN JR

NAGW 2804 University of California - Berkeley 2126
 OBSERVATION, THEORETICAL, AND EXPERIMENTAL COSMOGONY
Period Obligations
 12/13/1991-06/30/1995 FY95: TOTAL: \$260,000
Prin. Invest. NASA Tech. Officer CASE Category
 W WELCH HQ/J A NUTH 11-Astronomy

NAGW 3267 University of California - Berkeley 2134
 NAGW-3267/UNIV CALIF BERKELEY/IMPROVEMENTS TO THE IRAS
 LOW RESOLUTION SPECTROMETER DATABASE
Period Obligations
 11/16/1992-09/14/1994 FY95: TOTAL: \$34,660
Prin. Invest. NASA Tech. Officer CASE Category
 M COHEN HQ/G R RIEGLER 11-Astronomy

NAGW 2883 University of California - Berkeley 2127
 SOME NEW DIRECTIONS IN COMETARY SPECTROSCOPY
Period Obligations
 02/13/1992-07/31/1995 FY95: \$53,000 TOTAL: \$207,945
Prin. Invest. NASA Tech. Officer CASE Category
 H SPINRAD HQ/H C BRINTON 11-Astronomy

NAGW 3429 University of California - Berkeley 2135
 THE PHYSICS OF FLARING ATMOSPHERES
Period Obligations
 03/03/1993-01/13/1996 FY95: \$95,500 TOTAL: \$289,724
Prin. Invest. NASA Tech. Officer CASE Category
 G H FISHER HQ/W J WAGNER 13-Physics
 HQ/G WITHROE

NAGW 2986 University of California - Berkeley 2128
 THE DYNAMICS OF LONG-LIVED PLANETARY VORTICES
Period Obligations
 03/20/1992-12/31/1994 FY95: \$88,340 TOTAL: \$247,527
Prin. Invest. NASA Tech. Officer CASE Category
 P S MARCUS HQ/W L QUAIDE 11-Astronomy

NAGW 3473 University of California - Berkeley 2136
 STUDY OF HIGH TIME RESOLUTION
Period Obligations
 03/01/1993-02/28/1994 FY95: \$20,000 TOTAL: \$101,200
Prin. Invest. NASA Tech. Officer CASE Category
 C A CATTELL HQ/M M MELLOTT 13-Physics
 HQ/G L WITHBROE

NAGW 2991 University of California - Berkeley 2129
 CARBON CLUSTERS AND THEIR RELATIONSHIP TO INTERSTELLAR
 DUST
Period Obligations
 03/20/1992-03/31/1996 FY95: \$170,000 TOTAL: \$410,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J SAYKALLY HQ/L J CAROFF 11-Astronomy

NAGW 3514 University of California - Berkeley 2137
 HISTORICAL STUDIES ON EXTRATERRESTRIAL MATERIALS
Period Obligations
 04/09/1993-12/31/1996 FY95: \$130,000 TOTAL: \$429,569
Prin. Invest. NASA Tech. Officer CASE Category
 K NISHIZUMI HQ/J BOYCE 32-Geological Sci

NAGW 3008 University of California - Berkeley 2130
 STUDY OF IMPACT-WAVE DEPOSITS NEAR THE PROPOSED KT
 BOUNDARY IMPACT CRATER IN YUCATAN
Period Obligations
 03/20/1992-08/31/1994 FY95: TOTAL: \$71,608
Prin. Invest. NASA Tech. Officer CASE Category
 W ALVAREZ HQ/J M BOYCE 32-Geological Sci

NAGW 3595 University of California - Berkeley 2138
 INFRARED SPECTROSCOPY OF PROTOSTELLAR WINDS
Period Obligations
 05/21/1993-03/31/1996 FY95: \$50,000 TOTAL: \$150,127
Prin. Invest. NASA Tech. Officer CASE Category
 F H SHU HQ/J A NUTH III 19-Phys Sci, NEC

NAGW 3027 University of California - Berkeley 2131
 THEORETICAL STUDIES OF X-RAY SPECTROSCOPY OF ACCRETION
 DISKS ASSOCIATED WITH ACTIVE GALACTIC NUCLEI
Period Obligations
 04/03/1992-02/28/1996 FY95: \$55,000 TOTAL: \$165,000
Prin. Invest. NASA Tech. Officer CASE Category
 R I KLEIN HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAGW 3605 University of California - Berkeley 2139
 TRANSDUCTION OF THE GRAVITY SIGNAL IN ROOTS OF CORN
Period Obligations
 06/23/1993-03/31/1995 FY95: TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
 L FELDMAN HQ/T W HALSTEAD 51-Biological Sci

NAGW 3107 University of California - Berkeley 2132
 PHYSICAL AND CHEMICAL EVOLUTION OF PROTOSTELLAR DISKS
Period Obligations
 06/15/1992-05/31/1996 FY95: \$39,620 TOTAL: \$179,074
Prin. Invest. NASA Tech. Officer CASE Category
 S W STAHLER HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3639 University of California - Berkeley 2140
 HIGH EFFICIENCY FAR ULTRAVIOLET PHOTOCATHODES
Period Obligations
 06/04/1993-06/30/1996 FY95: \$45,000 TOTAL: \$135,000
Prin. Invest. NASA Tech. Officer CASE Category
 O H SIEGMUND HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 3664 University of California - Berkeley 2141
ACTIVE GRATING UV SPECTROSCOPY
Period *Obligations*
07/01/1993-03/31/1994 FY95: TOTAL: \$40,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C S BOWYER HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAGW 3769 University of California - Berkeley 2142
ROLE OF BOREAL VEGETATION IN CONTROLLING ECOSYSTEM
PROCESSES AND FEEDBACK TO CLIMATE
Period *Obligations*
09/29/1993-05/31/1996 FY95: \$160,000 TOTAL: \$410,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F S CHAPIN III HQ/D E WICKLAND 39-Env Sci, NEC
G B BONAN HQ/A C JANETOS

NAGW 3802 University of California - Berkeley 2143
THE FIFTH INTERNATIONAL WORKSHOP ON LOW TEMPERATURE
DETECTORS (LTD-5)
Period *Obligations*
10/13/1993-07/28/1994 FY95: TOTAL: \$5,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P B SADOULET HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAGW 3816 University of California - Berkeley 2144
NAGW-3816/UNIV CALIF BERKELEY; ASTROPHYSICAL GAMMA RAY
SPECTROSCOPY W/ THE HI-RESOLUTION GAMMA AND HA
Period *Obligations*
11/18/1993-10/31/1995 FY95: \$295,000 TOTAL: \$495,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R P LIN HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAGW 3819 University of California - Berkeley 2145
NAGW-3819/UNIV CALIF BERKELEY;— DEVELOPMENT OF LOW
REFLECTIVITY MATERIALS AND COATINGS FOR EUV AND FUV
Period *Obligations*
11/30/1993-12/31/1995 FY95: \$43,000 TOTAL: \$86,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
O H SIEGMUND HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAGW 3823 University of California - Berkeley 2146
NAGW-3823/UNIV CALIF BERKELEY; ADVANCED DELAY LINE
DETECTOR TECHNOLOGY; 12/1/93 NEW AWARD
Period *Obligations*
11/30/1993-11/30/1995 FY95: \$85,000 TOTAL: \$170,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M L LAMPTON HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAGW 3827 University of California - Berkeley 2147
GALAXY EVOLUTION
Period *Obligations*
12/17/1993-12/31/1996 FY95: \$35,000 TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J I SILK HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAGW 3845 University of California - Berkeley 2148
UNIV CALIF BERKELEY; NEW VIEWS OF THE GALAXY USING B
STARS
Period *Obligations*
01/14/1994-12/31/1995 FY95: \$83,800 TOTAL: \$168,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B Y WELSH HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAGW 3869 University of California - Berkeley 2149
NITROGEN AND CARBON TRACE GASES/NAGW3869
Period *Obligations*
02/24/1994-10/31/1994 FY95: TOTAL: \$71,472
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P A MATSON HQ/D E WICKLAND 39-Env Sci, NEC
HQ/A C JANETOS

NAGW 3885 University of California - Berkeley 2150
A PILOT PROJECT ON THE INCLUSION OF GRADUATE STUDENTS
OF EDUCATION IN THE DEVELOPMENT AND ASSESSMENT
Period *Obligations*
03/10/1994-02/28/1995 FY95: TOTAL: \$22,579
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C W CARLSON HQ/R A MULKEY 11-Astronomy
HQ/G R RIEGLER

NAGW 3917 University of California - Berkeley 2151
NAGW3917/MONITOR PROGRAM FOR JUPITER AT RADIOWAVELENGTHS
Period *Obligations*
03/29/1994-12/31/1994 FY95: TOTAL: \$33,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I DE PATER HQ/J H RAHE 11-Astronomy

NAGW 3977 University of California - Berkeley 2152
A TEACHER INTERNSHIP AND HARDWARE FOR A MULTIMEDIA CASE
STUDY FOR THE BERKELEY SATELLITE CONNECTION
Period *Obligations*
05/13/1994-04/30/1995 FY95: TOTAL: \$5,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C A CATTELL HQ/M M MELLOTT 13-Physics
HQ/J D BOHLIN

NAGW 3978 University of California - Berkeley 2153
KINETIC ANALYSIS OF LOCALIZED LANGMUIR WAVES IN THE
AURORAL ZONE
Period *Obligations*
05/13/1994-04/30/1996 FY95: \$69,500 TOTAL: \$134,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R P LIN HQ/M M MELLOTT 13-Physics
HQ/J D BOHLIN

NAGW 4095 University of California - Berkeley 2154
LONG DURATION BALLOON-BORNE OBSERVATIONS OF COSMIC
MICROWAVE BACKGROUND ANISOTROPY
Period *Obligations*
08/24/1994-12/31/1995 FY95: \$175,000 TOTAL: \$300,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A E LANGE HQ/L J CAROFF 11-Astronomy

NAGW 4111 University of California - Berkeley 2155
A CONFERENCE ON THE PHYSICS OF THE INTERSTELLAR AND
INTERGALACTIC
Period *Obligations*
08/22/1994-04/30/1995 FY95: TOTAL: \$11,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C F MCKEE HQ/L S LAPIANA 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 4174 University of California - Berkeley 2156
AN INNOVATIVE PARTNERSHIP TO COORDINATE DEVELOP. ON-LINE SPACE STATION LESSON PLANS

<i>Period</i>	<i>Obligations</i>	
10/20/1994-07/31/1995	FY95: \$84,994	TOTAL: \$84,994
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R MALINA	HQ/C MORROW HQ/D W WEEDMAN	11-Astronomy

NAGW 4478 University of California - Berkeley 2164
THE PHYSICS OF ENERGETIC ELECTRONS AND HEATING IN SOLAR FLARES

<i>Period</i>	<i>Obligations</i>	
05/12/1995-04/30/1996	FY95: \$30,000	TOTAL: \$30,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G H FISHER	HQ/W J WAGNER HQ/J D BOHLIN	13-Physics

NAGW 4185 University of California - Berkeley 2157
X-RAY SPECTROSCOPIC LABORATORY ASTROPHYSICS EXPERIMENTS IN SUPPORT OF THE NASA X-RAY ASTRONOMY FLIG

<i>Period</i>	<i>Obligations</i>	
10/31/1994-09/30/1995	FY95: \$190,000	TOTAL: \$190,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S M KAHN	HQ/L J KALUZIENSKI	11-Astronomy

NAGW 4600 University of California - Berkeley 2165
SOLAR WIND EFFECTS ON ATMOSPHERES OF WEAKLY MAGNETIZED—BODIES: MARS, TITAN, AND THE MOON

<i>Period</i>	<i>Obligations</i>	
07/12/1995-04/30/1996	FY95: \$70,000	TOTAL: \$70,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J LUHMANN	HQ/J BERGSTRALH	11-Astronomy

NAGW 4260 University of California - Berkeley 2158
END TO END PROBLEMS IN EOSDIS

<i>Period</i>	<i>Obligations</i>	
01/13/1995-11/30/1995	FY95: \$770,902	TOTAL: \$770,902
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M STONEBRAKER	HQ/R S MCGINNIS	22-Computer Science

NAGW 4645 University of California - Berkeley 2166
THE FORMATION AND MAINTENANCE OF THE ZONAL WINDS OF JUPITER AND SATURN

<i>Period</i>	<i>Obligations</i>	
07/21/1995-04/30/1996	FY95: \$50,000	TOTAL: \$50,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P MARCUS	HQ/J BERGSTRALH	11-Astronomy

NAGW 4265 University of California - Berkeley 2159
VUV ACOUSTO-OPTIC SPECTROSCOPY

<i>Period</i>	<i>Obligations</i>	
01/25/1995-12/31/1995	FY95: \$50,000	TOTAL: \$50,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J EDELSTEIN	HQ/R V STACHNIK HQ/E J WEILER	11-Astronomy

NAGW 4722 University of California - Berkeley 2167
LABORATORY INVESTIGATION OF THE UNIDENTIFIED INFRARED BANDS USING INFRARED SINGLE PHOTON COUNTING

<i>Period</i>	<i>Obligations</i>	
08/29/1995-05/31/1996	FY95: \$59,000	TOTAL: \$59,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R J SAYKALLY	HQ/L J CAROFF HQ/L J CAROLL	11-Astronomy

NAGW 4324 University of California - Berkeley 2160
INVESTIGATIONS OF THE CHICXULUB CRATERING EVENT AND OTHER MAJOR IMPACT EVENTS ON EARTH

<i>Period</i>	<i>Obligations</i>	
02/24/1995-11/30/1995	FY95: \$31,000	TOTAL: \$31,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W ALVAREZ	HQ/H BRINTON	39-Env Sci, NEC

NAGW 4731 University of California - Berkeley 2168
THE LYMAN IMAGING TELESCOPE EXPERIMENT (LITE)

<i>Period</i>	<i>Obligations</i>	
09/12/1995-05/31/1996	FY95: \$50,000	TOTAL: \$50,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
O H SIEGMUND	HQ/R V STACHNIK HQ/E J WEILER	11-Astronomy

NAGW 4423 University of California - Berkeley 2161
CO-INVESTIGATOR PARTICIPATION IN THE MARS-94/96 MISSION STUDIES OF THE MARS-SOLAR WIND INTERACTION

<i>Period</i>	<i>Obligations</i>	
06/02/1995-01/31/1996	FY95: \$15,000	TOTAL: \$15,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J LUHMANN	HQ/J BOYCE	31-Atmos Sci

NAGW 4773 University of California - Berkeley 2169
COSMOLOGICAL HELIUM ISOTOPE EUV FEATURE SPECTROMETER (CHIEFS) AND MINIMAL OPTIC ECHELLE SPECTROMETER

<i>Period</i>	<i>Obligations</i>	
09/16/1995-09/30/1996	FY95: \$75,000	TOTAL: \$75,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M V HURWITZ	HQ/M KAPLAN HQ/D W WEEDMAN	13-Physics

NAGW 4473 University of California - Berkeley 2162
TRANSDUCTION OF THE GRAVITY SIGNAL IN MAIZE ROOTS

<i>Period</i>	<i>Obligations</i>	
05/10/1995-03/31/1998	FY95: \$72,482	TOTAL: \$72,482
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L J FELDMAN	HQ/T K SCOTT	59-Life Sci, NEC

NAGW 4796 University of California - Berkeley 2170
THE SL9 IMPACTS: INVESTIGATION OF THE IMPACT RADIATION AND ATMOSPHERIC PERTURBATIONS

<i>Period</i>	<i>Obligations</i>	
09/25/1995-09/30/1996	FY95: \$25,000	TOTAL: \$25,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
I DE PATER	HQ/E BARKER	99-Multi-Discip

NAGW 4477 University of California - Berkeley 2163
GERMANIUM DETECTOR AND ELECTRONICS DEVELOPMENT FOR THE HIGH ENERGY SOLAR IMAGER (HESI)

<i>Period</i>	<i>Obligations</i>	
05/10/1995-03/31/1996	FY95: \$101,100	TOTAL: \$101,100
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R P LIN	HQ/W J WAGNER HQ/J D BOHLIN	13-Physics

NAS 5-29298 University of California - Berkeley 2171
GSFC EXTREME ULTRAVIOLET INVESTIGATION FOR THE EXTREME ULTRAVIOLET EXPLORER

<i>Period</i>	<i>Obligations</i>	
06/19/1986-03/08/1996	FY95: \$2,500,000	TOTAL: \$46,802,523
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R MALINA	GSFC/A J MILLER	11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAS 5-30180 University of California - Berkeley 2172
 EXTREME ULTRAVIOLET EXPLORER MISSION INVESTIGATION
Period Obligations
 07/17/1987-01/08/1997 FY95: \$2,715,000 TOTAL: \$17,110,982
Prin. Invest. NASA Tech. Officer CASE Category
 D HUNTEN GSFC/A SMITH 11-Astronomy

NCA 2-678 University of California - Berkeley 2181
 FORMATION OF INTERSTELLAR AND COMETARY ICES
Period Obligations
 01/21/1992-10/29/1994 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 I DE PATER ARC/A G TIELENS 11-Astronomy

NAS 5-30241 University of California - Berkeley 2173
 ELECTRIC FIELD INVESTIGATION
Period Obligations
 01/07/1988-09/30/1994 FY95: TOTAL: \$472,706
Prin. Invest. NASA Tech. Officer CASE Category
 F S MOZER GSFC/D GALOPPO 13-Physics

NCA 2-757 University of California - Berkeley 2182
 STUDIES OF MESUR AEROSHELL CONFIGURAITON IN HYPERS ONIC
 RAREFIED FLOWS OF CO2
Period Obligations
 11/24/1992-03/31/1996 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 F C HURLBUT ARC/J A CAVOLOWSKY 41-Aero Engr
 M HOLT
 V P CAREY

NAS 5-30366 University of California - Berkeley 2174
 3-D PLASMA AND ENERGETIC PARTICLE ANALYZER EXPERIMENT
 WIND
Period Obligations
 02/16/1989-06/30/1995 FY95: TOTAL: \$5,051,200
Prin. Invest. NASA Tech. Officer CASE Category
 R LIN GSFC/F WAINSCOTT 13-Physics

NCA 2-826 University of California - Berkeley 2183
 STUDY OF ION-IMPLANTATION IN INTERSTELLAR DUST GRA INS
Period Obligations
 06/29/1993-06/30/1995 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 C MCKEE ARC/A TIELENS 11-Astronomy

NAS 5-30367 University of California - Berkeley 2175
 ELECTRIC FIELD INVESTIGATION FOR POLAR MISSION
Period Obligations
 02/16/1989-11/21/1995 FY95: \$233,600 TOTAL: \$4,970,000
Prin. Invest. NASA Tech. Officer CASE Category
 F S MOZER GSFC/W C ANSELM 13-Physics

NCC 2-86 University of California - Berkeley 2184
 FLIGHT MGMT SYSTEM
Period Obligations
 09/01/1987-12/31/1995 FY95: \$50,000 TOTAL: \$1,819,845
Prin. Invest. NASA Tech. Officer CASE Category
 L STARK ARC/S R ELLIS 99-Multi-Discip

NAS 5-30801 University of California - Berkeley 2176
 ISTP PROJECT'S ELECTRIC FIELDS AND WAVES
Period Obligations
 07/02/1990-12/31/1997 FY95: \$1,537,000 TOTAL: \$5,224,000
Prin. Invest. NASA Tech. Officer CASE Category
 F MOZER GSFC/L CHRISTENSEN 31-Atmos Sci

NCC 2-142 University of California - Berkeley 2185
 DETECTION IDENTIFICATION AND PRECISE LOCATION OF INFRARED
 OBJECTS
Period Obligations
 07/01/1981-05/31/1996 FY95: \$98,500 TOTAL: \$1,187,721
Prin. Invest. NASA Tech. Officer CASE Category
 C E HEILES ARC/F C WITTENBORN 11-Astronomy
 M COHEN ARC/D GOORVITCH

NAS 5-31283 University of California - Berkeley 2177
 FAST AURORAL SNAPSHOT EXPLORER (FAST)
Period Obligations
 01/10/1991-07/31/1995 FY95: \$3,043,029 TOTAL: \$16,502,029
Prin. Invest. NASA Tech. Officer CASE Category
 C W CARLSON GSFC/R ALEMAN 41-Aero Engr

NCC 2-275 University of California - Berkeley 2186
 RESEARCH ON THE APPLICATION OF FUZZY LOGIC TO SYST EMS
 ANALYSIS AND CONTROL
Period Obligations
 11/01/1987-09/30/1995 FY95: \$40,000 TOTAL: \$997,173
Prin. Invest. NASA Tech. Officer CASE Category
 G M HOMSY ARC/S LAU 22-Computer Science

NAS 5-31429 University of California - Berkeley 2178
 SYSTEM DESIGN PHASE OF REFLECTION GRATING ASSEMBLY
Period Obligations
 12/28/1990-09/30/2000 FY95: \$3,675,356 TOTAL: \$9,193,352
Prin. Invest. NASA Tech. Officer CASE Category
 S KAHN GSFC/R DONNELLY 41-Aero Engr

NCC 2-548 University of California - Berkeley 2187
 STAR FORMATION AND THE EVOLUTION OF ELLIPTICAL GALS
Period Obligations
 07/01/1988-01/01/1996 FY95: \$307,326 TOTAL: \$2,106,912
Prin. Invest. NASA Tech. Officer CASE Category
 F H SHU ARC/D J HOLLENBACH 11-Astronomy
 ARC/P CASSER

NAS 5-32698 University of California - Berkeley 2179
 STUDY 'TOOLS FOR PHOTON EVENT DATA'
Period Obligations
 09/28/1994-09/28/1996 FY95: \$140,000 TOTAL: \$140,000
Prin. Invest. NASA Tech. Officer CASE Category
 C CHRISTIAN GSFC/D WEST 11-Astronomy

NAS 5-32795 University of California - Berkeley 2180
 RESEARCH STUDY - ALEXIS DATA CENTER
Period Obligations
 06/16/1995-07/16/1998 FY95: \$44,979 TOTAL: \$44,979
Prin. Invest. NASA Tech. Officer CASE Category
 H W SIEGMUAL GSFC/D WEST 11-Astronomy

NCC 2-550 University of California - Berkeley 2188
 RESEARCH ON COMPUTER SYSTEM BENCHMARKING
Period Obligations
 08/01/1988-09/14/1995 FY95: TOTAL: \$387,819
Prin. Invest. NASA Tech. Officer CASE Category
 A J SMITH ARC/K G STEVENS 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCC 2-757 University of California - Berkeley 2189
TELEPRESENCE AND ITS RELATIONSHIP TO PERFORMANCE
Period Obligations
06/02/1992-01/31/1996 FY95: \$20,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
L STARK ARC/R B WELCH 69-Psych, NEC

NCC 2-5129 University of California - Berkeley 2197
THE EVOLUTION OF THE INTERSTELLAR DUST SIZE DISTRIBUTION
Period Obligations
05/22/1995-06/30/1997 FY95: \$60,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
C F MCKEE LARC/A G TIELENS 11-Astronomy

NCC 2-838 University of California - Berkeley 2190
INTRODUCTION OF INNOVATIVE TECHNIQUES TO REDUCE SATELLITE OPERATIONS COST IN THE EUVE SCIENCE
Period Obligations
01/10/1994-03/31/1995 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
R MALINA ARC/D J KORSMEYER 22-Computer Science

NCC 2-5139 University of California - Berkeley 2198
INORGANIC WATER REPELLENT COATINGS FOR THERMAL PROTECTION INSULATION ON AN AEROSPACE VEHICLE
Period Obligations
06/30/1995-06/14/1996 FY95: \$39,971 TOTAL: \$39,971
Prin. Invest. NASA Tech. Officer CASE Category
D W FUERSTENAU ARC/D CAGLIOSTRO 47-Materials Engr

NCC 2-902 University of California - Berkeley 2191
UTILIZING THE EUVE INNOVATIVE TECHNOLOGY TESTBED TO REDUCE SATELLITE OPERATIONS COST FOR PRESENT...
Period Obligations
05/24/1995-09/30/1995 FY95: \$351,606 TOTAL: \$351,606
Prin. Invest. NASA Tech. Officer CASE Category
R F MALINA ARC/D J KORSMEYER 22-Computer Science

NCC 2-5161 University of California - Berkeley 2199
DESIGN OF INORGANIC WATER REPELLENT COATINGS FOR THERMAL PROTECTION INSULATION ON AN AEROSPACE VEHICLE
Period Obligations
09/11/1995-07/31/1996 FY95: \$39,962 TOTAL: \$39,962
Prin. Invest. NASA Tech. Officer CASE Category
D W FUERSTENAU ARC/D CAGLIOSTRO 47-Materials Engr

NCC 2-909 University of California - Berkeley 2192
HUMAN PERFORMANCE IN COORDINATED HAPTIC-VISUAL VIRTUAL ENVIRONMENTS
Period Obligations
06/26/1995-09/30/1996 FY95: \$285,000 TOTAL: \$285,000
Prin. Invest. NASA Tech. Officer CASE Category
H KAZERAONI ARC/S R ELLIS 46-Mech Engr

NCC 3-329 University of California - Berkeley 2200
EQUILIBRIUM FLUID INTERFACE BETWEEN UNDER LOW- AND ZERO-GRAVITY CONDITIONS
Period Obligations
11/30/1993-01/17/1996 FY95: \$90,000 TOTAL: \$190,023
Prin. Invest. NASA Tech. Officer CASE Category
P CONCUS LERC/M WEISLOGEL 21-Mathematics

NCC 2-5032 University of California - Berkeley 2193
PARALLEL INJECTION INTO A SUPERSONIC BASE FLOW
Period Obligations
02/03/1995-01/31/1996 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
M HOLT ARC/G S DEIWERT 41-Aero Engr

NGR 5-3450 University of California - Berkeley 2201
STUDY OF X-RAY EMISSION FROM GALACTIC AND EXTRAGALACTIC SOURCES WITH EMPHASIS ON SOFT AND
Period Obligations
05/28/1971-10/31/1995 FY95: \$267,000 TOTAL: \$10,563,114
Prin. Invest. NASA Tech. Officer CASE Category
C S BOWYER GSFC/L J EARLY 11-Astronomy
GSFC/R H PLESS

NCC 2-5035 University of California - Berkeley 2194
LOW SPEED MOTION OF A DELTA WING INFLUENCED BY SURFACE AND JET CONTROLS
Period Obligations
02/16/1994-01/31/1996 FY95: \$40,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
M HOLT ARC/T L HOLST 41-Aero Engr
A PACKARD

NGT 00-030-048 University of California - Berkeley 2202
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
09/17/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
M S TORN HQ/D M BUTLER 39-Env Sci, NEC
J HARTE HQ/G S WILSON

NCC 2-5083 University of California - Berkeley 2195
DIAGNOSING ASTRONOMICAL ICES; GAS PHASE CHEMISTRY OF COMETS AND HOT CORES
Period Obligations
07/15/1994-06/30/1996 FY95: \$40,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
I DE PATER ARC/A G TIELENS 11-Astronomy

NGT 00-030-083 University of California - Berkeley 2203
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
09/17/1991-02/28/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
S P ANDERSON HQ/D M BUTLER 39-Env Sci, NEC
W E DIETRICH HQ/G S WILSON

NCC 2-5102 University of California - Berkeley 2196
REMOTE IMAGING AND GIS APPLIED TO SCHISTOSOMIASIS CONTROL
Period Obligations
09/21/1994-09/30/1995 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
R C SPEAR ARC/D L PETERSON 54-Env Biology

NGT 00-030-105 University of California - Berkeley 2204
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
11/02/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D E GRANGER HQ/G ASRAR 32-Geological Sci
HQ/D M BUTLER

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-030-107 University of California - Berkeley 2205
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/21/1992-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A JUELS HQ/G ASRAR 22-Computer Science
 HQ/D M BUTLER

NGT 00-030-289 University of California - Berkeley 2213
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/20/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J HARTE HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-154 University of California - Berkeley 2206
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/02/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S E HOBBIE HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-318 University of California - Berkeley 2214
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/31/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 W E DIETRICH HQ/M BALTUCK 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-165 University of California - Berkeley 2207
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/24/1993-08/31/1996 FY95: \$39,000 TOTAL: \$61,000
Prin. Invest. NASA Tech. Officer CASE Category
 M E POWER HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-327 University of California - Berkeley 2215
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/22/1995-08/31/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J KIRCHNER HQ/M BALTUCK 32-Geological Sci
 HQ/G ASRAR

NGT 00-030-191 University of California - Berkeley 2208
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/27/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W ALVAREZ HQ/G ASRAR 32-Geological Sci
 HQ/D M BUTLER

NGT 00-050-603 University of California - Berkeley 2216
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1990-06/30/1994 FY95: TOTAL: \$63,866
Prin. Invest. NASA Tech. Officer CASE Category
 P L RICHARDS HQ/F C OWENS 13-Physics

NGT 00-030-212 University of California - Berkeley 2209
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/26/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J HARTE HQ/D E WICKLAND 31-Atmos Sci
 HQ/A C JANETOS

NGT 00-050-607 University of California - Berkeley 2217
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1990-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R P LIN HQ/F C OWENS 13-Physics

NGT 00-030-247 University of California - Berkeley 2210
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/02/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 C D'ANTONIO HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-050-613 University of California - Berkeley 2218
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1990-06/30/1994 FY95: TOTAL: \$65,965
Prin. Invest. NASA Tech. Officer CASE Category
 S M KAHN HQ/F C OWENS 13-Physics

NGT 00-030-259 University of California - Berkeley 2211
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/02/1994-08/31/1996 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 F S CHAPIN III HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-050-783 University of California - Berkeley 2219
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/23/1991-06/30/1994 FY95: TOTAL: \$65,932
Prin. Invest. NASA Tech. Officer CASE Category
 G F SMOOT HQ/F C OWENS 13-Physics

NGT 00-030-260 University of California - Berkeley 2212
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/21/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 P A MATSON HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-050-787 University of California - Berkeley 2220
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/10/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S CHAKRABARTI HQ/F C OWENS 13-Physics

NGT 00-050-892 University of California - Berkeley 2221
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/05/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 L A ZADEU JPL/H ASHKENAS 29-Math/Computer, NEC

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-050-913 University of California - Berkeley 2222
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/26/1992-06/30/1994 FY95: TOTAL: \$41,901
Prin. Invest. NASA Tech. Officer CASE Category
 P B PRICE HQ/J ALEXANDER 13-Physics

NGT 00-051-268 University of California - Berkeley 2231
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/17/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A C HQ/G LESANE 46-Mech Engr
 FERNANDEZ-PELLO

NGT 00-050-921 University of California - Berkeley 2223
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/09/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 H SPINRAD HQ/J ALEXANDER 11-Astronomy

NGT 00-051-269 University of California - Berkeley 2232
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/17/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R PACKARD HQ/G LESANE 13-Physics

NGT 00-050-939 University of California - Berkeley 2224
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/15/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J SAYKALLY HQ/J K ALEXANDER 12-Chemistry

NGT 00-051-280 University of California - Berkeley 2233
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/17/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 L FELDMAN HQ/G LESANE 51-Biological Sci

NGT 00-051-030 University of California - Berkeley 2225
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/22/1992-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M HOLT HQ/P HUNTER 46-Mech Engr

NGT 00-051-287 University of California - Berkeley 2234
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/28/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R P LIN HQ/D HOLLAND 13-Physics

NGT 00-051-062 University of California - Berkeley 2226
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/27/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 O H SIEGMUND HQ/D HOLLAND 13-Physics

NGT 00-051-302 University of California - Berkeley 2235
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 F S MOZER HQ/D HOLLAND 13-Physics

NGT 00-051-076 University of California - Berkeley 2227
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A E LANGE HQ/D HOLLAND 13-Physics

NGT 00-051-303 University of California - Berkeley 2236
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/19/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 E HALLER HQ/D HOLLAND 45-Elec Engr

NGT 00-051-082 University of California - Berkeley 2228
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J R GRAHAM HQ/D HOLLAND 11-Astronomy

NGT 00-051-375 University of California - Berkeley 2237
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/05/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 F S MOZER HQ/D HOLLAND 13-Physics

NGT 00-051-191 University of California - Berkeley 2229
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/29/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 F H SHU HQ/D HOLLAND 11-Astronomy

NGT 00-051-377 University of California - Berkeley 2238
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/02/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 G H FISHER HQ/D HOLLAND 13-Physics

NGT 00-051-222 University of California - Berkeley 2230
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/26/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 M K FIRESTONE HQ/A NOVOTNY 51-Biological Sci

NGT 00-051-378 University of California - Berkeley 2239
 GSRP
Period Obligations
 06/08/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J SAYKALLY HQ/D HOLLAND 12-Chemistry

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-051-416 University of California - Berkeley 2240
 GSRP
Period *Obligations*
 08/29/1995-07/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R KRAM HQ/G LESANE 46-Mech Engr

NAG 2-788 University of California - Davis 2248
 GRAVITATIONAL FIELDS AND NEURAL SIGNALING IN THE HIP
 POCAMPUS
Period *Obligations*
 05/29/1992-04/30/1996 FY95: TOTAL: \$145,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M HOROWITZ ARC/C E WADE 51-Biological Sci

NGT 00-070-309 University of California - Berkeley 2241
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 06/22/1993-05/31/1996 FY95: \$22,000 TOTAL: \$63,760
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M HOLT HQ/D K RUSSELL 46-Mech Engr

NAG 2-795 University of California - Davis 2249
 EFFECTS OF CENTRIFUGE DIAMETER AND OPERATION ON RODE
 NT ADAPTION TO CHRONIC CENTRIFUGATION
Period *Obligations*
 08/28/1992-05/01/1996 FY95: \$171,882 TOTAL: \$551,926
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A FULLER ARC/S M HING 59-Life Sci, NEC
 ARC/B J CORBIN

NGT 00-070-310 University of California - Berkeley 2242
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 06/22/1992-05/31/1995 FY95: TOTAL: \$43,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F HURLEUT HQ/D K RUSSELL 46-Mech Engr

NAG 2-801 University of California - Davis 2250
 LIGHT AND GRAVITY EFFECTS ON CIRCADIAN RHYTHMS IN RH
 ESUS MACAQUES'
Period *Obligations*
 09/01/1992-06/30/1995 FY95: TOTAL: \$201,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A FULLER ARC/J VERNIKOS 51-Biological Sci

NGT 00-090-039 University of California - Berkeley 2243
 MESA COMMUNITY COLLEGE PROGRAM
Period *Obligations*
 08/17/1992-07/14/1995 FY95: \$118,527 TOTAL: \$337,379
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D GALLIGANI HQ/M MATEU 99-Multi-Discip

NAG 2-840 University of California - Davis 2251
 HOMEOSTATIC AND CIRCADIAN RESPONSES OF RHESUS MONKEY
 S DURING SPACEFLIGHT
Period *Obligations*
 06/11/1993-01/31/1996 FY95: \$184,904 TOTAL: \$404,903
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J VERNIKOS ARC/C M WINGET 51-Biological Sci

NAG 1-1572 University of California - Davis 2244
 STUDY OF THE MUTUAL INTERACTION BETWEEN A WING WAKE
 AND AN ENCOUNTERING AIRPLANE
Period *Obligations*
 01/27/1994-10/25/1995 FY95: TOTAL: \$44,131
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C VANDAM LARC/J M BRANDON 41-Aero Engr

NAG 2-927 University of California - Davis 2252
 A SYMPOSIUM ON FRONTIERS OF COMPUTATIONAL FLUID DY
 NAMICS
Period *Obligations*
 09/06/1994-09/30/1995 FY95: TOTAL: \$5,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M HAFEZ ARC/M OMURA 41-Aero Engr

NAG 1-1744 University of California - Davis 2245
 NEW NASA RESEARCH GRANT ACTUATOR SATURATION AND
 ADVERSE PILOT-VEHICLE COUP
Period *Obligations*
 07/31/1995-07/31/1996 FY95: \$45,821 TOTAL: \$45,821
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R A HESS LARC/B J BACON 41-Aero Engr
 S A SNELL

NAG 2-944 University of California - Davis 2253
 CNS CONTROL OF RHYTHMS AND HOMEOSTASIS DURING SPACE
 FLIGHT
Period *Obligations*
 12/21/1994-11/30/1995 FY95: \$55,000 TOTAL: \$55,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A FULLER ARC/W E HINDS 51-Biological Sci
 ARC/C M WINGET

NAG 2-587 University of California - Davis 2246
 BIOLOGICAL RHYTHMS AND TEMPERATURE REGULATION IN
 RHESUS MONKEYS DURING SPACEFLIGHT
Period *Obligations*
 07/12/1989-04/30/1995 FY95: TOTAL: \$759,421
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A FULLER ARC/J P CONNOLLY 51-Biological Sci
 ARC/R W BALLARD

NAG 2-983 University of California - Davis 2254
 EFFECTS OF GRAVITY ON INSECT CIRCADIAN RHYTHMICITY
Period *Obligations*
 05/25/1995-11/01/1995 FY95: \$164,128 TOTAL: \$164,128
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T M HOBAN-HIGGINS ARC/C M WINGET 51-Biological Sci
 C A FULLER ARC/G C JAHNS
 G X WASSMER

NAG 2-654 University of California - Davis 2247
 ANALYTICAL HANDLING QUALITIES ASSESSMENT WITH APP
 LICATION TO AEROSPACECRAFT FLIGHT CONTROL
Period *Obligations*
 07/18/1990-09/30/1993 FY95: TOTAL: \$98,548
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R A HESS ARC/D T BERRY 41-Aero Engr

NAG 2-1014 University of California - Davis 2255
 15TH INTERNATIONAL CONFERENCE ON NUMERICAL METHODS IN
 FLUID DYNAMICS
Period *Obligations*
 09/22/1995-10/31/1996 FY95: \$24,500 TOTAL: \$24,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H DWYER ARC/C A SMITH 41-Aero Engr
 ARC/J FLORES

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 2-4003 University of California - Davis 2256
DYNAMICS OF VARIABLE MASS SYSTEMS
Period Obligations
12/01/1993-12/31/1995 FY95: \$74,998 TOTAL: \$149,998
Prin. Invest. NASA Tech. Officer CASE Category
F O EKE ARK/K GUPTA 41-Aero Engr

NAG 8-1054 University of California - Davis 2264
EXTERNAL FORCING IN TROPICAL-EXTRATROPICAL INTER-ACTIONS
Period Obligations
03/17/1994-12/31/1994 FY95: TOTAL: \$31,873
Prin. Invest. NASA Tech. Officer CASE Category
T R NATHAN MSFC/J KAUFMAN 31-Atmos Sci

NAG 3-1558 University of California - Davis 2257
NOVEL FLOW CONFIGURATION FOR THE STUDY OF TURBULEN T FLAME PROPAGATION
Period Obligations
02/08/1994-02/07/1996 FY95: \$74,868 TOTAL: \$149,837
Prin. Invest. NASA Tech. Officer CASE Category
R C ALDREDGE LERC/K J WEILAND 46-Mech Engr

NAG 8-1143 University of California - Davis 2265
THE GLOBAL ATMOSPHERIC RESPONSE TO LOCALIZED LOW FREQUENCY FORCING
Period Obligations
05/24/1995-05/23/1996 FY95: \$38,000 TOTAL: \$38,000
Prin. Invest. NASA Tech. Officer CASE Category
T R NATHAN MSFC/T L MILLER 31-Atmos Sci
MSFC/S H CHOW

NAG 3-1783 University of California - Davis 2258
SYMPOSIUM ON FRONTIER OF COMPUTATIONAL FLUID DYNAM ICS
Period Obligations
08/24/1995-02/23/1996 FY95: \$5,040 TOTAL: \$5,040
Prin. Invest. NASA Tech. Officer CASE Category
P HAFEZ LERC/L A POVINELLI 99-Multi-Discip

NAG 9-825 University of California - Davis 2266
MICROGRAVITY THRESHOLDS FOR ANTI CANCER DRUG PROD.
Period Obligations
08/09/1995-08/15/1996 FY95: \$130,000 TOTAL: \$130,000
Prin. Invest. NASA Tech. Officer CASE Category
D J DURZAN JSC/N PELLIS 56-Medical Sciences

NAG 5-1876 University of California - Davis 2259
THE SUPERNOVA REMNANT KES 79
Period Obligations
01/23/1992-02/14/1994 FY95: TOTAL: \$49,325
Prin. Invest. NASA Tech. Officer CASE Category
R H BECKER GSFC/R PETRE 11-Astronomy

NAGW 903 University of California - Davis 2267
LASER STUDIES OF PHOTODISSOCIATION DYNAMICS
Period Obligations
06/01/1986-11/30/1995 FY95: \$75,000 TOTAL: \$578,999
Prin. Invest. NASA Tech. Officer CASE Category
W M JACKSON HQ/J T BERGSTRALH 31-Atmos Sci
HQ/W L QUAIDE

NAG 5-2421 University of California - Davis 2260
SHOCK HIGH ENERGY EMISSION FROM THE BE-STAR/PULSAR SYSTEM PSR 1259-63
Period Obligations
11/06/1993-11/14/1995 FY95: TOTAL: \$34,860
Prin. Invest. NASA Tech. Officer CASE Category
R H BECKER GSFC/J P NORRIS 11-Astronomy
M TAVANI

NAGW 1119 University of California - Davis 2268
ROLE OF PREBIOTIC AMPHIPHILIC MOLECULES IN EVOLUTION
Period Obligations
06/01/1987-01/31/1995 FY95: TOTAL: \$603,024
Prin. Invest. NASA Tech. Officer CASE Category
D W DEAMER HQ/J D RUMMEL 12-Chemistry

NAG 5-2433 University of California - Davis 2261
USING MID-INFRARED DATA TO TEST CURRENT THEORIES O F GIGAHERTZ PEAKED-SPECTRUM RADIO WAVES
Period Obligations
11/16/1993-11/30/1995 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
R H BECKER GSFC/D WEST 11-Astronomy

NAGW 4016 University of California - Davis 2269
TIME-RESOLVED FTIR EMISSION STUDIES OF RADICAL CHEMISTRY RELEVANT TO THE JOVIAN ATMOSPHERE
Period Obligations
05/25/1994-02/29/1996 FY95: \$40,000 TOTAL: \$78,400
Prin. Invest. NASA Tech. Officer CASE Category
W JACKSON HQ/J H RAHE 12-Chemistry

NAG 5-3001 University of California - Davis 2262
AIRBORNE LASER ALTIMETRIC MONITORING OF THE RAPID EVOLUTION OF TOPOGRAPHY IN LONG VALLEY, CALIF....
Period Obligations
07/14/1995-07/31/1996 FY95: \$65,000 TOTAL: \$65,000
Prin. Invest. NASA Tech. Officer CASE Category
J MINSTER GSFC/H V FREY 32-Geological Sci

NAGW 4390 University of California - Davis 2270
CIRCADIAN RHYTHMS IN RHESUS
Period Obligations
04/03/1995-02/29/1996 FY95: \$238,941 TOTAL: \$238,941
Prin. Invest. NASA Tech. Officer CASE Category
C A FULLER HQ/F SULZMAN 59-Life Sci, NEC

NAG 8-871 University of California - Davis 2263
LIFE CYCLES OF TRANSIENT PLANETARY WAVES
Period Obligations
03/27/1991-12/31/1995 FY95: TOTAL: \$186,827
Prin. Invest. NASA Tech. Officer CASE Category
T R NATHAN MSFC/T L MILLER 31-Atmos Sci

NAGW 4552 University of California - Davis 2271
EFFECT OF GRAVITY ON THE REGULATION OF CIRCADIAN R HYTHMS
Period Obligations
06/28/1995-03/31/1998 FY95: \$132,765 TOTAL: \$132,765
Prin. Invest. NASA Tech. Officer CASE Category
D M MURAKAMI HQ/V SCHNEIDER 59-Life Sci, NEC

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 4626 University of California - Davis 2272
 PREDICTING VEGETATION TYPE AND BIOMASS IN THE SANT A MONICA MOUNTAINS
Period Obligations
 07/18/1995-03/31/1996 FY95: \$74,246 TOTAL: \$74,246
Prin. Invest. NASA Tech. Officer CASE Category
 S L USTIN HQ/D E WICKLAND 39-Env Sci, NEC
 F FONDA-BONARDI HQ/A C JANETOS
 S G CONARD

NAS 5-31359 University of California - Davis 2273
 EOS-BIOSPHERE-ATMOSPHERE INTERACTIONS STUDY
Period Obligations
 11/05/1991-12/31/1999 FY95: \$72,000 TOTAL: \$273,400
Prin. Invest. NASA Tech. Officer CASE Category
 S USTIN GSFC/P SELLERS 31-Atmos Sci

NAS 5-31714 University of California - Davis 2274
 EOS INVESTIGATION - ATMOSPHERIC INFRARED SOUNDER (AIRS) TEAM MEMBER INVESTIGATION
Period Obligations
 02/17/1992-04/30/1995 FY95: TOTAL: \$550,000
Prin. Invest. NASA Tech. Officer CASE Category
 S USTIN GSFC/T BRAKKE 32-Geological Sci

NAS 5-32959 University of California - Davis 2275
 CYCLOTRON BEAM TIME
Period Obligations
 09/18/1995-10/17/1996 FY95: \$17,500 TOTAL: \$17,500
Prin. Invest. NASA Tech. Officer CASE Category
 D CASTANEDA GSFC/K A LABEL 42-Astro Engr

NCA 2-737 University of California - Davis 2276
 COUPLING OF POTENTIAL AND NAVIER-STOKES SOLVERS FOR THE SOLUTION OF ROTOR PERFORMANCE PROBLEMS
Period Obligations
 07/23/1992-04/12/1995 FY95: TOTAL: \$35,056
Prin. Invest. NASA Tech. Officer CASE Category
 M M HAFEZ ARC/F CARADONNA 46-Mech Engr

NCA 2-780 University of California - Davis 2277
 COMPUTATIONAL MODELING OF FEMTOSECOND OPTICAL SOLITONS FROM FULL VECTOR NONLINEAR MAXWELL EQUATIONS
Period Obligations
 01/11/1993-01/14/1995 FY95: TOTAL: \$39,400
Prin. Invest. NASA Tech. Officer CASE Category
 A KNOESEN ARC/P GOORJIAN 45-Elec Engr

NCA 2-837 University of California - Davis 2278
 NUMERICAL STUDY OF FAR FIELD NOISE PROPAGATION OF A ROTOR IN HOVER
Period Obligations
 08/25/1993-10/31/1994 FY95: TOTAL: \$14,000
Prin. Invest. NASA Tech. Officer CASE Category
 J J CHATTOT ARC/F X CARADONNA 41-Aero Engr

NCC 1-163 University of California - Davis 2279
 FLOW PREDICTIONS OVER MULTI-ELEMENT HIGH-LIFT SYSTEMS
Period Obligations
 04/06/1992-12/31/1994 FY95: TOTAL: \$88,201
Prin. Invest. NASA Tech. Officer CASE Category
 C P VAN DAM LARC/L P YIP 41-Aero Engr

NCC 1-207 University of California - Davis 2280
 ANALYSIS AND PREDICTION OF VISCOUS FLOWS ABOUT MULTI-ELEMENT HIGH-LIFT SYSTEMS ON SUBSONIC AIRCRAFT
Period Obligations
 01/06/1995-01/05/1996 FY95: \$59,551 TOTAL: \$59,551
Prin. Invest. NASA Tech. Officer CASE Category
 C P VAN DAM LARC/J H WHITEHEAD 41-Aero Engr
 LARC/L P YIP

NCC 2-99 University of California - Davis 2281
 EFFICIENT CROP PRODUCTION USING UREA AMMONIA NITRITE AND NITRATE IN CLOSED ENVIRONMENTAL LIFE SUP SYS
Period Obligations
 10/01/1980-11/30/1993 FY95: TOTAL: \$947,483
Prin. Invest. NASA Tech. Officer CASE Category
 R C HUFFAKER ARC/R D MACELROY 55-Agriculture Sci
 D W RAINS
 C O QUALSET

NCC 2-819 University of California - Davis 2282
 DEVELOPMENT AND MAINTENANCE OF PERCEPTUAL PROCEDURAL AND MANUAL SKILLS IN AUTOMATED FLIGHT DECKS
Period Obligations
 08/11/1993-12/31/1994 FY95: TOTAL: \$61,320
Prin. Invest. NASA Tech. Officer CASE Category
 R A HESS ARC/S M CASNER 69-Psych, NEC

NCC 2-860 University of California - Davis 2283
 USE OF REMOTE SENSING SURVEILLANCE TO MONITOR ENVIRONMENTAL PARAMETERS ASSOCIATED WITH MOSQUITO
Period Obligations
 06/16/1994-03/31/1996 FY95: \$22,196 TOTAL: \$107,762
Prin. Invest. NASA Tech. Officer CASE Category
 R K WASHINO ARC/D L PETERSON 54-Env Biology

NCC 2-873 University of California - Davis 2284
 NUMERICAL STUDY OF TIP VORTEX FLOWS
Period Obligations
 08/29/1994-07/31/1996 FY95: \$82,110 TOTAL: \$160,333
Prin. Invest. NASA Tech. Officer CASE Category
 M HAFEZ ARC/D KWAK 41-Aero Engr

NCC 2-880 University of California - Davis 2285
 DESIGN OF ADVANCED SUBSONIC TRANSPORTS USING NUMERICAL SOLUTION OF THE FULL POTENTIAL EQUATION
Period Obligations
 12/19/1994-09/30/1995 FY95: \$80,409 TOTAL: \$80,409
Prin. Invest. NASA Tech. Officer CASE Category
 M M HAFEZ ARC/P A GELHAUSEN 41-Aero Engr
 D J KINNEY ARC/K B CARBAJAL

NCC 2-886 University of California - Davis 2286
 EFFECT OF SPACEFLIGHT ON THE DEVELOPMENT OF THE CIRCADIAN TIMING SYSTEM
Period Obligations
 02/06/1995-09/30/1995 FY95: \$314,124 TOTAL: \$314,124
Prin. Invest. NASA Tech. Officer CASE Category
 C A FULLER ARC/D A REISS-BUBENHEIM 51-Biological Sci
 ARC/C M WINGET

NCC 2-905 University of California - Davis 2287
 PERCEPTUAL AND MOTOR RESPONSES TO VISUAL DISPLAYS
Period Obligations
 06/21/1995-08/31/1996 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 R B POST ARC/R B WELCH 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCC 2-5004 University of California - Davis 2288
 PRISMATIC GRID GENERATION AND VALIDATION
Period Obligations
 10/07/1993-09/30/1995 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 J CHATTOT ARC/Y LIU 41-Aero Engr
 M HAFEZ

NCC 2-5054 University of California - Davis 2296
 A MICROFABRICATED PHOTOMETRIC CO2 SENSING SYSTEM; THE IR SOURCE
Period Obligations
 05/19/1994-07/31/1995 FY95: TOTAL: \$39,973
Prin. Invest. NASA Tech. Officer CASE Category
 R L SMITH ARC/J H.NES 59-Life Sci, NEC

NCC 2-5012 University of California - Davis 2289
 PRACTICAL AERODYNAMIC SHAPE OPTIMIZATION BASED ON CONTROL THEORY
Period Obligations
 11/24/1993-11/15/1995 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 M HAFEZ ARC/R HICKS 41-Aero Engr

NCC 2-5061 University of California - Davis 2297
 NUMERICAL SIMULATION OF HELICOPTER ENGINE PLUME IN FORWARD FLIGHT
Period Obligations
 06/03/1994-09/30/1994 FY95: TOTAL: \$7,297
Prin. Invest. NASA Tech. Officer CASE Category
 C VAN DAM ARC/E P DUQUE 41-Aero Engr

NCC 2-5027 University of California - Davis 2290
 NUMERICAL SOLUTION OF THE FULL POTENTIAL EQUATION FOR THE PREDICTION OF TRANSONIC AND SUPERSONIC WAV
Period Obligations
 01/14/1994-12/31/1994 FY95: TOTAL: \$39,998
Prin. Invest. NASA Tech. Officer CASE Category
 M HAFEZ ARC/P A GELHAUSEN 41-Aero Engr

NCC 2-5079 University of California - Davis 2298
 FUNDAMENTAL INVESTIGATION OF THE WATER-PROOFING OF SILICA SURFACES
Period Obligations
 06/30/1994-06/30/1995 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 B J MCCOY ARC/D CAGLIOSTRO 43-Chem Engr

NCC 2-5042 University of California - Davis 2291
 DESIGN METHODOLOGY FOR MULTI-ELEMENT HIGH-LIFT SYSTEMS ON SUBSONIC CIVIL TRANSPORT AIRCRAFT
Period Obligations
 03/18/1994-05/31/1996 FY95: \$40,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 C P VAN DAM ARC/P A GELHAUSEN 41-Aero Engr

NCC 2-5085 University of California - Davis 2299
 GRID ADAPTATION TECHNIQUES FOR PRACTICAL FLOW SIMULATIONS
Period Obligations
 07/28/1994-07/31/1996 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 M HAFEZ ARC/P BUNING 41-Aero Engr

NCC 2-5043 University of California - Davis 2292
 PARALLELIZATION OF A PARABOLIZED NAVIER-STOKES SOLVER FOR PERFECT GAS CALCULATIONS
Period Obligations
 04/11/1994-06/30/1995 FY95: TOTAL: \$38,564
Prin. Invest. NASA Tech. Officer CASE Category
 J J CHATTOT ARC/S L LAWRENCE 41-Aero Engr

NCC 2-5086 University of California - Davis 2300
 ANALYSIS AND CONTROL OF MESH-GENERATED ERRORS
Period Obligations
 07/26/1994-10/14/1995 FY95: TOTAL: \$7,539
Prin. Invest. NASA Tech. Officer CASE Category
 J J CHATTOT ARC/E TU 29-Math/Computer, NEC

NCC 2-5046 University of California - Davis 2293
 LEAF REFLECTANCE PATTERNS RELATING TO PHYLLXERA INFESTATIONS FOR G.R.A.P.E.S.
Period Obligations
 04/20/1994-09/30/1995 FY95: \$35,189 TOTAL: \$62,376
Prin. Invest. NASA Tech. Officer CASE Category
 J GRANETT ARC/J SALUTE 39-Env Sci, NEC
 ARC/C HLAVKA

NCC 2-5090 University of California - Davis 2301
 THERMAL STABILITY OF SURFACE COATINGS ON THERMAL PROTECTION SYSTEMS
Period Obligations
 08/08/1994-08/14/1995 FY95: TOTAL: \$15,367
Prin. Invest. NASA Tech. Officer CASE Category
 Z MUNIR ARC/D CAGLIOSTRO 47-Materials Engr
 B MCCOY

NCC 2-5049 University of California - Davis 2294
 PARALLEL COMPUTATIONS OF WING CONFIGURATIONS
Period Obligations
 05/06/1994-04/30/1996 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 M M HAFEZ ARC/E TU 41-Aero Engr

NCC 2-5134 University of California - Davis 2302
 MAPPING NORTHERN EXPOSURE WITH POLDER: APPLICATION FOR CIRCUMPOLAR
Period Obligations
 06/02/1995-05/31/1997 FY95: \$30,054 TOTAL: \$30,054
Prin. Invest. NASA Tech. Officer CASE Category
 S USTIN ARC/V C VANDERBILT 54-Env Biology

NCC 2-5050 University of California - Davis 2295
 ACCURATE AND EFFICIENT CALCULATIONS OF SONIC BOOM SIGNATURE
Period Obligations
 05/06/1994-04/30/1996 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 M M HAFEZ ARC/E TU 41-Aero Engr

NCC 2-5137 University of California - Davis 2303
 COMPARISON OF COMPUTED AND MEASURED FLOWFIELD ON THE RAH-66 HELICOPTER
Period Obligations
 06/21/1995-09/30/1995 FY95: \$9,425 TOTAL: \$9,425
Prin. Invest. NASA Tech. Officer CASE Category
 C P VAN DAM ARC/E P DUQUE 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCC 2-5154 University of California - Davis 2304
 COMPUTATIONAL MODELING OF ULTRAFAST OPTICLA PULSE
 PROPAGATION IN SEMICONDUCTORS
Period Obligations
 08/21/1995-08/31/1997 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 A KNOESEN ARC/P GOORJIAN 45-Elec Engr

NCC 3-245 University of California - Davis 2305
 COMBUSTION EXPERIMENTS IN REDUCED GRAVITY WITH TWO
 -COMPONENT MISCIBLE DROPLETS
Period Obligations
 12/30/1991-05/17/1996 FY95: \$94,999 TOTAL: \$303,593
Prin. Invest. NASA Tech. Officer CASE Category
 B D SHAW LERC/J B HAGGARD 46-Mech Engr
 LERC/H D ROSS

NCC 3-353 University of California - Davis 2306
 ELECTROHYDRODYNAMIC POOLING IN REDUCED GRAVITY
Period Obligations
 06/29/1994-06/28/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 B D SHAW LERC/F P CHIARAMONTE 46-Mech Engr

NGT 00-030-153 University of California - Davis 2307
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/02/1992-12/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 E C CORDERO HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-030-167 University of California - Davis 2308
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/24/1993-08/31/1996 FY95: TOTAL: \$21,782
Prin. Invest. NASA Tech. Officer CASE Category
 T W FAN HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-200 University of California - Davis 2309
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/26/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 B C WEARE HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-030-300 University of California - Davis 2310
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/11/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 M B PARLANGE HQ/M Y WEI 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-341 University of California - Davis 2311
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/04/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 S L USTIN HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-090-153 University of California - Davis 2312
 UNDERGRADUATED STUDENT RESEARCHERS PROGRAM
Period Obligations
 11/16/1992-08/14/1994 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 R CRIDDLE HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-240 University of California - Davis 2313
 UGSRP
Period Obligations
 01/11/1994-12/14/1994 FY95: TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 R CRIDDLE HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-246 University of California - Davis 2314
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 12/01/1994-08/14/1995 FY95: \$12,000 TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 R CRIDDLE HQ/D K RUSSELL 39-Env Sci, NEC

NAG 1-1515 University of California - Irvine 2315
 THEORETICAL STUDIES OF THE CURRENT AIRCRAFT FLEET'
 EXHAUST IN A 3-D TRACER MODEL AND SCATTERED RAD.
Period Obligations
 06/04/1993-06/03/1996 FY95: \$97,000 TOTAL: \$211,000
Prin. Invest. NASA Tech. Officer CASE Category
 M J PRATHER LARC/W L GROSE 31-Atmos Sci
 LARC/E E REMSBERG

NAG 1-1533 University of California - Irvine 2316
 TRACE GAS ANALYSIS FROM THE DC-8 AIRCRAFT: DATA ANALYSIS
 FOR PEM-WEST B NLPN 93-419
Period Obligations
 07/19/1993-03/31/1996 FY95: \$85,001 TOTAL: \$436,076
Prin. Invest. NASA Tech. Officer CASE Category
 F S ROWLAND LARC/J W DREWRY 31-Atmos Sci
 D R BLAKE LARC/J M HOELL

NAG 1-1619 University of California - Irvine 2317
 SPRAY ATOMIZATION AND DEPOSITION PROCESSING OF AL-LI AND
 AL-MG STRUCTURAL MATERIALS
Period Obligations
 05/24/1994-05/23/1996 FY95: \$54,328 TOTAL: \$159,071
Prin. Invest. NASA Tech. Officer CASE Category
 E J LAVERNIA LARC/W D BREWER 47-Materials Engr
 LARC/D M ROYSTER

NAG 1-1644 University of California - Irvine 2318
 PEM-EAST AND PEM-CENTRAL 1996 CANISTER FABRICATION
Period Obligations
 09/30/1994-08/31/1996 FY95: \$150,000 TOTAL: \$250,000
Prin. Invest. NASA Tech. Officer CASE Category
 F S ROWLAND LARC/J W DREWRY 31-Atmos Sci
 D R BLAKE LARC/J M HOELL

NAG 1-1729 University of California - Irvine 2319
 EXPERIMENTAL INVESTIGATION OF VARIABLE-DENSITY, VA
 RIABLE-MACH NUMBER COFLOWING JETS
Period Obligations
 05/24/1995-05/23/1996 FY95: \$27,000 TOTAL: \$27,000
Prin. Invest. NASA Tech. Officer CASE Category
 D PAMAMOSCHOV LARC/J M SEINER 41-Aero Engr
 LARC/M K PONON

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 2-555 University of California - Irvine 2320
EFFECTS OF ZERO GRAVITY EXPOSURE ON THE OXIDATIVE CAPACITY OF SKELETAL MUSCLE FIBER-TYPES
Period *Obligations*
10/15/1988-11/30/1995 FY95: \$49,268 TOTAL: \$937,351
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K M BALDWIN ARC/A D MANDEL 51-Biological Sci
ARC/C M WINGET

NAG 3-1605 University of California - Irvine 2327
EFFECTS OF GRAVITY ON SHEARED AND NON SHEARED TURBULENT NONPREMIXED FLAMES
Period *Obligations*
05/23/1994-05/22/1996 FY95: \$108,794 TOTAL: \$218,207
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S E ELGHOBASHI LERC/H D ROSS 46-Mech Engr
K K NOMURA

NAG 2-942 University of California - Irvine 2321
NEURAL-THYROID INTERACTION ON SKELETAL ISOMYOSIA EXPRESSION IN OG (ZERO GRAVITY)
Period *Obligations*
12/22/1994-11/30/1995 FY95: \$89,424 TOTAL: \$89,424
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K M BALDWIN ARC/W E HINDS 51-Biological Sci
ARC/C M WINGET

NAG 5-1840 University of California - Irvine 2328
THE EFFECT OF CLIMATE ON THE STORAGE AND TURNOVER OF CARBON IN SOIL
Period *Obligations*
12/02/1991-12/31/1993 FY95: TOTAL: \$206,819
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S TRUMBORE GSFC/L WALTER 39-Env Sci, NEC

NAG 2-970 University of California - Irvine 2322
PARTICIPATION IN THE NASA STRAT MISSION
Period *Obligations*
03/16/1995-12/31/1995 FY95: \$93,470 TOTAL: \$93,470
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D W TOOHEY ARC/E P CONDON 31-Atmos Sci

NAG 5-2257 University of California - Irvine 2329
STRUCTURE AND DYNAMICS OF THE CORONAL MAGNETIC FIELD
Period *Obligations*
04/27/1993-04/30/1996 FY95: \$261,257 TOTAL: \$657,014
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G V HOVEN GSFC/T J BIRMINGHAM 13-Physics
GSFC/J D BOHLIN

NAG 2-976 University of California - Irvine 2323
MEASUREMENTS OF CIO AND BRO IN SUPPORT OF THE SESAME
Period *Obligations*
03/27/1995-12/31/1995 FY95: \$54,494 TOTAL: \$54,494
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D W TOOHEY ARC/E P CONDON 31-Atmos Sci

NAG 5-2306 University of California - Irvine 2330
INPUT, ACCUMULATION AND TURNOVER OF CARBON IN BOREAL FOREST SOILS
Period *Obligations*
07/01/1993-07/14/1996 FY95: \$195,048 TOTAL: \$426,048
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S TRUMBORE GSFC/F G HALL 39-Env Sci, NEC
GSFC/P SELLERS

NAG 3-627 University of California - Irvine 2324
IGNITION AND FLAME SPREAD OF LIQUID FUEL POOLS IN REDUCED GRAVITY
Period *Obligations*
03/04/1985-02/27/1997 FY95: \$94,394 TOTAL: \$861,381
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W A SIRIGNANO LERC/H D ROSS 49-Engr, NEC
LERC/R SACKSTEDGR

NAG 5-2561 University of California - Irvine 2331
A METHODOLOGY FOR PERFORMANCE EVALUATION OF SUPERCOMPUTERS
Period *Obligations*
03/15/1994-09/30/1995 FY95: TOTAL: \$45,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I D SHERSON GSFC/J E DORBAND 45-Elec Engr
GSFC/J R FISCHER

NAG 3-1110 University of California - Irvine 2325
DETAILED STUDIES OF THE QUICK MIXING REGION IN RICH BURN LOW-NOX COMBUSTION
Period *Obligations*
01/04/1990-04/16/1996 FY95: \$100,778 TOTAL: \$700,930
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G S SAMUELSEN LERC/J D HOLDEMAN 41-Aero Engr
J J VALENTINI
W A SOWA

NAG 5-2724 University of California - Irvine 2332
TROPOPAUSE MIXING AND CHEMISTRY: THE IMPACT OF NOX INJECTIONS
Period *Obligations*
09/21/1994-10/31/1995 FY95: \$46,954 TOTAL: \$50,428
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J PRATHER GSFC/R W STEWART 31-Atmos Sci

NAG 3-1124 University of California - Irvine 2326
DETAILED STUDIES OF DOME REGION FUEL/AIR MIXING IN RICH AND LEAN BURN LOW-NOX COMBUSTION
Period *Obligations*
01/04/1990-04/10/1996 FY95: \$100,000 TOTAL: \$761,711
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G S SAMUELSEN LERC/R R TALINA 41-Aero Engr
J J VALENTINI
W A SONA

NAG 5-2780 University of California - Irvine 2333
STUDIES OF LOWER STRATOSPHERIC PHOTOCHEMISTRY AND TRANSPORT USING COMBINED UARS AND IN SITU DATASETS
Period *Obligations*
11/07/1994-11/14/1995 FY95: \$93,968 TOTAL: \$93,968
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D W TOOHEY GSFC/C H JACKMAN 31-Atmos Sci

NAG 5-2917 University of California - Irvine 2334
CHEMICAL TRANSPORT MODELS: A GENERAL INTERFACE WITH GLOBAL CIRCULATION MODELS
Period *Obligations*
03/17/1995-03/31/1996 FY95: \$72,000 TOTAL: \$72,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J PRATHER GSFC/R W STEWART 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 8-1082 University of California - Irvine 2335
 UNDERCOOLING LIMITS IN MOLTEN SEMICONDUCTORS AND METALS STRUCTURE AND SUPERHEATING DEPENDENCIES
Period Obligations
 10/03/1994-09/30/1995 FY95: \$27,300 TOTAL: \$27,300
Prin. Invest. NASA Tech. Officer CASE Category
 F G SHI MSFC/D WATRING 45-Elec Engr
 W K RHIM

NAG 9-725 University of California - Irvine 2336
 SUPERVISORY CONTROLLED TELEROBOTIC SYSTEM
Period Obligations
 04/07/1994-04/01/1996 FY95: TOTAL: \$148,326
Prin. Invest. NASA Tech. Officer CASE Category
 G L LONG JSC/L H LI 49-Engr, NEC

NAGW 452 University of California - Irvine 2337
 LATITUDINAL GRADIENTS IN TROPOSPHERIC CONCENTRATIONS OF SELECTED HOLOCARBONS AND HYDROCARBONS
Period Obligations
 04/27/1983-01/14/1996 FY95: \$220,243 TOTAL: \$2,187,034
Prin. Invest. NASA Tech. Officer CASE Category
 D R BLAKE HQ/M J KURYLO 31-Atmos Sci

NAGW 2260 University of California - Irvine 2338
 OBSERVATIONAL CONSTRAINTS AND EVOLUTIONARY MODELS FOR THE STRUCTURE, PROPERTIES AND TIMESCALES
Period Obligations
 05/22/1991-11/30/1993 FY95: TOTAL: \$59,904
Prin. Invest. NASA Tech. Officer CASE Category
 S P RUDEN HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2487 University of California - Irvine 2339
 HEAT: HIGH ENERGY ANTIMATTER TELESCOPE
Period Obligations
 06/10/1991-12/31/1995 FY95: \$50,000 TOTAL: \$245,201
Prin. Invest. NASA Tech. Officer CASE Category
 S W BARWICK HQ/W V JONES 13-Physics
 HQ/J C LING

NAGW 2655 University of California - Irvine 2340
 LABORATORY SIMULATION OF MAGNETOSPHERIC FIELD ALIGNED CURRENTS
Period Obligations
 09/16/1991-05/31/1994 FY95: TOTAL: \$260,000
Prin. Invest. NASA Tech. Officer CASE Category
 N ROSTOKER HQ/M M MELLOTT 13-Physics
 HQ/J D BOHLIN

NAGW 2738 University of California - Irvine 2341
 GROUND-BASED TRACE GAS MEASUREMENTS IN CONJUNCTION WITH DC-8 TRACE-A MISSION
Period Obligations
 09/25/1991-09/14/1994 FY95: TOTAL: \$299,138
Prin. Invest. NASA Tech. Officer CASE Category
 F S ROWLAND HQ/A C JANETOS 39-Env Sci, NEC
 HQ/R T WATSON

NAGW 3053 University of California - Irvine 2342
 NAGW-3053/UNIV CA @ IRVINE/PROCESSES CONTROLLING METHANE AND OTHER TRACE GAS FLUXES FROM TUNDRA
Period Obligations
 04/17/1992-06/30/1994 FY95: TOTAL: \$153,000
Prin. Invest. NASA Tech. Officer CASE Category
 W S REEBURGH HQ/A C JANETOS 39-Env Sci, NEC
 HQ/D E WICKLAND

NAGW 3163 University of California - Irvine 2343
 NAGW-3163/UNIV CA @ IRVINE/3-D MODELING OF TROPOSPHERIC AND STRATOSPHERIC CHEMISTRY
Period Obligations
 08/14/1992-04/30/1996 FY95: \$205,121 TOTAL: \$409,473
Prin. Invest. NASA Tech. Officer CASE Category
 M J PRATHER HQ/J A KAYE 31-Atmos Sci
 HQ/R E MURPHY

NAGW 4415 University of California - Irvine 2344
 MECHANISMS OF MICROGRAVITY EFFECTON VASCULAR FUNCTION
Period Obligations
 05/01/1995-01/31/1998 FY95: \$157,293 TOTAL: \$157,293
Prin. Invest. NASA Tech. Officer CASE Category
 R E PURDY HQ/F SULZMAN 59-Life Sci, NEC

NAGW 4471 University of California - Irvine 2345
 MECHANICAL AND MOLECULAR STIMULI FOR NORMALIZING MUSCLE MASS DURING UNLOADING
Period Obligations
 05/15/1995-02/14/1998 FY95: \$143,140 TOTAL: \$143,140
Prin. Invest. NASA Tech. Officer CASE Category
 G R ADAMS HQ/T K SCOTT 59-Life Sci, NEC

NAS 1-19155 University of California - Irvine 2346
 HALOE SCIENTIFIC INVESTIGATIONS
Period Obligations
 05/01/1990-09/30/1997 FY95: \$121,000 TOTAL: \$471,000
Prin. Invest. NASA Tech. Officer CASE Category
 R CICERONE LARC/L E MAULDRIN 19-Phys Sci, NEC
 LARC/J M RUSSELL

NAS 3-27094 University of California - Irvine 2347
 ENVIRONMENTAL TESTING OF MATERIALS
Period Obligations
 02/22/1994-02/21/1996 FY95: TOTAL: \$351,442
Prin. Invest. NASA Tech. Officer CASE Category
 G S SAMUELSON LERC/N S JACOBSON 49-Engr, NEC
 J C EARTHMAN LERC/J L SMIALEK
 E J LAVERNAN

NCC 3-412 University of California - Irvine 2348
 DETAILED STUDIES OF THE QUICK MIXING IN RICH BURY LOW-NOX ANULAR CONFIGURATION
Period Obligations
 04/13/1995-04/12/1996 FY95: \$130,000 TOTAL: \$130,000
Prin. Invest. NASA Tech. Officer CASE Category
 G S SAMUELSEN LERC/J D HOLDEMAN 41-Aero Engr

NCC 7-3 University of California - Irvine 2349
 MICROFABRICATION TRAINING AND EDUCATION
Period Obligations
 08/15/1994-08/15/1997 FY95: \$1,000,000 TOTAL: \$1,000,000
Prin. Invest. NASA Tech. Officer CASE Category
 R D NELSON JPL/R A DEMOCH 49-Engr, NEC
 G P LI

NGT 00-030-067 University of California - Irvine 2350
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/06/1991-08/31/1994 FY95: TOTAL: \$86,000
Prin. Invest. NASA Tech. Officer CASE Category
 M B DECKER HQ/D M BUTLER 39-Env Sci, NEC
 G L HUNT HQ/G S WILSON

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-030-161 University of California - Irvine 2351
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/24/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D W TOOHEY HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NAG 1-833 University of California - Los Angeles 2359
 OPTIMAL STRUCTURAL DESIGN AND COMPOSITE HELICOPTER
 ROTOR BLADES WITH STRAIGHT AND SWEPT TIPS
Period Obligations
 11/16/1987-10/15/1994 FY95: TOTAL: \$317,294
Prin. Invest. NASA Tech. Officer CASE Category
 P P FRIEDMANN LARC/H M ADELMAN 41-Aero Engr
 LARC/J I PRITCHARD

NGT 00-030-163 University of California - Irvine 2352
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/24/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J CICERONE HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NAG 1-1068 University of California - Los Angeles 2360
 ELECTROPHYSIOLOGICAL CORRELATES OF SYSTEM CONTROL
 PERFORMANCE DURING TASK UNDERLOAD; MEASUREMENT
Period Obligations
 11/08/1989-11/02/1994 FY95: TOTAL: \$516,133
Prin. Invest. NASA Tech. Officer CASE Category
 M B STERMAN LARC/R COMSTOCK 69-Psych, NEC

NGT 00-030-304 University of California - Irvine 2353
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/31/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 S C TAYLER HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NAG 1-1126 University of California - Los Angeles 2361
 INVESTIGATION OF HIGH ALTITUDE AIRCRAFT PLUMES AND
 CORTAILS: PHYSICAL AND CHEMICAL PROCESSES
Period Obligations
 04/16/1990-09/30/1995 FY95: \$20,000 TOTAL: \$459,000
Prin. Invest. NASA Tech. Officer CASE Category
 B V SANKAR LERC/L R POOLE 31-Atmos Sci

NGT 00-050-932 University of California - Irvine 2354
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/17/1992-09/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S P RUDEN ARC/M MOORE 13-Physics

NAG 1-1256 University of California - Los Angeles 2362
 OPTIMIZATION ROBUST GUIDANCE OF HYPERSONIC CRUISE
 VEHICLES - FDP
Period Obligations
 05/30/1991-10/31/1994 FY95: TOTAL: \$132,816
Prin. Invest. NASA Tech. Officer CASE Category
 J L SPEYER LARC/D D MOERDER 42-Astro Engr
 LARC/W T SUIT

NGT 00-070-352 University of California - Irvine 2355
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 09/02/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D RICHARDSON HQ/D K RUSSELL 22-Computer Science

NAG 1-1428 University of California - Los Angeles 2363
 PROBLEMS WITH DIFFERENT TIME SCALES
Period Obligations
 04/07/1992-09/30/1994 FY95: TOTAL: \$79,473
Prin. Invest. NASA Tech. Officer CASE Category
 H O KREISS LARC/T B GATSKI 41-Aero Engr

NGT 00-090-071 University of California - Irvine 2356
 GSRP/UMF
Period Obligations
 09/24/1992-08/14/1995 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 F HERMES HQ/D RUSSELL 99-Multi-Discip

NAG 2-477 University of California - Los Angeles 2364
 A STUDY OF AEROMECHANICAL PROBLEMS WITH ACTIVE CON
Period Obligations
 08/01/1987-09/30/1994 FY95: TOTAL: \$286,141
Prin. Invest. NASA Tech. Officer CASE Category
 P FRIEDMANN ARC/S A JACKLIN 41-Aero Engr

NGT 00-090-173 University of California - Irvine 2357
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/25/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 F HERMES HQ/D K RUSSELL 99-Multi-Discip

NAG 2-485 University of California - Los Angeles 2365
 DATA ANALYSIS FOR THE PIONEER VENUS ELECTRIC
 FIELDDETECTOR
Period Obligations
 12/01/1987-09/30/1995 FY95: TOTAL: \$1,157,545
Prin. Invest. NASA Tech. Officer CASE Category
 R J STRANGEWAY ARC/R O FIMMEL 11-Astronomy
 ARC/R A CRAIG

NGT 00-090-271 University of California - Irvine 2358
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 01/09/1995-08/14/1996 FY95: \$72,000 TOTAL: \$72,000
Prin. Invest. NASA Tech. Officer CASE Category
 F HERMES HQ/D K RUSSELL 45-Elec Engr

NAG 2-501 University of California - Los Angeles 2366
 ANALYSIS OF MAGNETIC FIELD DATA FROM THE PIONEER VENUS
 ORBITER
Period Obligations
 10/30/1987-09/30/1993 FY95: TOTAL: \$2,292,052
Prin. Invest. NASA Tech. Officer CASE Category
 C RUSSELL ARC/L E LASHER 11-Astronomy
 ARC/R O FIMMEL

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 2-717 University of California - Los Angeles 2367
FRENCH RHESUS PROJECT
Period *Obligations*
 06/21/1991-12/31/1995 FY95: \$139,964 TOTAL: \$1,134,234
Prin. Invest. NASA Tech. Officer CASE Category
 V R EDGERTON ARC/C M WINGET 51-Biological Sci
 R R ROY
 J A HODGSON

NAG 3-1584 University of California - Los Angeles 2375
SCIENCE PLANNING FOR THR TROPIX MISSION
Period *Obligations*
 03/25/1994-03/24/1996 FY95: \$50,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 C T RUSSELL LERC/J M HICKMAN 19-Phys Sci, NEC

NAG 2-799 University of California - Los Angeles 2368
INFRARED POLARIZATION STUDY OF THE GALACTIC CENTER ARC
Period *Obligations*
 08/27/1992-09/30/1996 FY95: \$31,000 TOTAL: \$59,000
Prin. Invest. NASA Tech. Officer CASE Category
 M R MORRIS ARC/C D LAUGHLIN 11-Astronomy
 ARC/C M GILLESPIE

NAG 3-1646 University of California - Los Angeles 2376
SCIENCE PLANNING FOR SOLAR ELECTRIC PLANETARY MISS IONS
Period *Obligations*
 07/08/1994-07/07/1995 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 C T RUSSELL LERC/J M HICKMAN 19-Phys Sci, NEC

NAG 2-822 University of California - Los Angeles 2369
MULTIOBJECTIVE OPTIMIZATION OF HYBRID REGENERATIVE LIFE SUPPORT ECHNOLOGIES
Period *Obligations*
 12/18/1992-05/31/1995 FY95: TOTAL: \$149,627
Prin. Invest. NASA Tech. Officer CASE Category
 V MANOUSIOUTHAKIS ARC/J W FISCHER 56-Medical Sciences
 ARC/E C DUNSKY

NAG 5-713 University of California - Los Angeles 2377
ESTIMATION THEORY SATELLITE DATA ASSIMILATION AND ATMOSPHERIC PREDICTABILITY
Period *Obligations*
 09/15/1985-04/30/1996 FY95: \$100,000 TOTAL: \$1,103,999
Prin. Invest. NASA Tech. Officer CASE Category
 M GHIL GSFC/J PFAENDTNER 31-Atmos Sci

NAG 2-835 University of California - Los Angeles 2370
PROPOSAL FOR FUNDAMENTAL VALIDATION STUDIES AND EXPANSION OF THE CAPABILITIES OF THE 2GHAS COMPUTE
Period *Obligations*
 05/20/1993-10/31/1995 FY95: TOTAL: \$24,932
Prin. Invest. NASA Tech. Officer CASE Category
 P P FRIEDMAN ARC/M J RUTKOWSKI 41-Aero Engr

NAG 5-789 University of California - Los Angeles 2378
NUMERICAL MODELING OF THE GLOBAL ATMOSPHERE
Period *Obligations*
 06/01/1986-10/31/1993 FY95: TOTAL: \$658,141
Prin. Invest. NASA Tech. Officer CASE Category
 A ARAKAWA GSFC/M SUAREZ 31-Atmos Sci

NAG 3-451 University of California - Los Angeles 2371
THIN FILM TEMPERATURE SENSORS
Period *Obligations*
 07/05/1983-01/11/1995 FY95: TOTAL: \$942,038
Prin. Invest. NASA Tech. Officer CASE Category
 R F BUNSHAH LERC/R HOLANDA 47-Materials Engr
 LERC/W D WILLIAMS

NAG 5-863 University of California - Los Angeles 2379
DATA ANALYSIS OF THE CHARGED COMPOSITION EXPLORER PLASMA WAVES EXPERIMENT
Period *Obligations*
 11/15/1986-04/14/1994 FY95: TOTAL: \$353,598
Prin. Invest. NASA Tech. Officer CASE Category
 R J STRONGWAY GSFC/S A CURTIS 13-Physics
 GSFC/M H ACUNA

NAG 3-1325 University of California - Los Angeles 2372
EVALUATION OF THE EFFECT OF MICROALLOYING ON CLEAV AGE OF MONOCRYST NIA1 USING A MINI DISK-BEND TEST
Period *Obligations*
 02/07/1992-03/06/1996 FY95: \$25,000 TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 A J ARDELL LERC/R D NORBE 47-Materials Engr
 LERC/M V NATHAL

NAG 5-1100 University of California - Los Angeles 2380
THEORETICAL TECHNOLOGY RESEARCH FOR THE ISTP
Period *Obligations*
 11/01/1988-10/31/1995 FY95: \$380,000 TOTAL: \$2,558,105
Prin. Invest. NASA Tech. Officer CASE Category
 M A ABDALLA GSFC/S A CURTIS 13-Physics
 GSFC/M H ACUNA

NAG 3-1419 University of California - Los Angeles 2373
MICROGRAVITY FOAM STRUCTURE AND RHEOLOGY
Period *Obligations*
 12/15/1992-12/31/1995 FY95: \$150,000 TOTAL: \$250,000
Prin. Invest. NASA Tech. Officer CASE Category
 D DURIAN LERC/J GLASGOW 47-Materials Engr
 LERC/R ANSARI

NAG 5-1166 University of California - Los Angeles 2381
CALIBRATION OF MAGNETICALLY INDUCED SOLAR VELOCITY
Period *Obligations*
 07/15/1989-01/31/1996 FY95: \$80,000 TOTAL: \$474,000
Prin. Invest. NASA Tech. Officer CASE Category
 R K ULRICH GSFC/A I POLAND 11-Astronomy

NAG 3-1456 University of California - Los Angeles 2374
STABILIZATION OF THERMOCAPILLARY CONVECTION BY MEA NS OF NONPLANAR FLOW OSCILLATIONS
Period *Obligations*
 02/22/1993-05/04/1996 FY95: \$80,000 TOTAL: \$240,020
Prin. Invest. NASA Tech. Officer CASE Category
 R E KELLY LERC/R L THOMPSON 46-Mech Engr

NAG 5-1167 University of California - Los Angeles 2382
PARTICIPATION IN CLUSTER MAGNETOMETER CONSORTIU
Period *Obligations*
 07/15/1989-07/14/1996 FY95: \$60,000 TOTAL: \$543,054
Prin. Invest. NASA Tech. Officer CASE Category
 M G KIVELSON GSFC/M ACUNA 13-Physics

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 5-1309 University of California - Los Angeles 2383
COBE DATA ANALYSIS AND ATTITUDE VALIDATION
Period *Obligations*
11/15/1989-12/31/1995 FY95: \$92,050 TOTAL: \$660,792
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E L WRIGHT GSFC/J MATHER 11-Astronomy

NAG 5-2140 University of California - Los Angeles 2391
ULTRAVIOLET SPECTRA OF THE COMPLETE 12-MICRON SEYF ERT
1 GALAXY SAMPLE
Period *Obligations*
11/23/1992-03/31/1995 FY95: TOTAL: \$18,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M A MALKAN GSFC/D WEST 11-Astronomy

NAG 5-1480 University of California - Los Angeles 2384
MAGNETOSPHERIC MHD AND KINETIC PROCESSES
Period *Obligations*
11/19/1990-04/30/1994 FY95: TOTAL: \$774,623
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M ASHOUR-ABDALLA GSFC/T J BIRMINGHAM 13-Physics

NAG 5-2178 University of California - Los Angeles 2392
STUDIES OF THE INTERSTELLAR MEDIUM WITH THE GHRS
Period *Obligations*
01/11/1993-01/14/1996 FY95: \$52,800 TOTAL: \$158,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M A JURA GSFC/A SMITH 11-Astronomy

NAG 5-1529 University of California - Los Angeles 2385
STUDIES OF THE LOBES OF THE MAGNETOTAL USING ISEE ,
AMPTE, AND IMP DATA
Period *Obligations*
04/08/1991-04/14/1994 FY95: TOTAL: \$157,708
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M G KIVELSON GSFC/G D BULLOCK 19-Phys Sci, NEC

NAG 5-2224 University of California - Los Angeles 2393
DEVELOPMENT OF AN EARTH SYSTEM MODEL: ATMOSPHERE/
OCEAN DYNAMICS AND TRACERS CHEMISTRY
Period *Obligations*
02/25/1993-11/30/1995 FY95: \$595,000 TOTAL: \$1,530,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C R MECHOSO GSFC/J R FISCHER 31-Atmos Sci
A ARAKAWA
R P TURCO

NAG 5-1530 University of California - Los Angeles 2386
STUDIES OF FLOWS IN MAGNETOTAL
Period *Obligations*
04/08/1991-04/14/1994 FY95: TOTAL: \$132,976
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J WALKER GSFC/G D BULLOCK 19-Phys Sci, NEC

NAG 5-2225 University of California - Los Angeles 2394
DATA ANALYSIS AND KNOWLEDGE DISCOVERY IN GEOPHYSIC AL
DATABASES
Period *Obligations*
03/01/1993-11/30/1995 FY95: \$271,000 TOTAL: \$702,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R MUNTZ GSFC/J R FISCHER 22-Computer Science

NAG 5-1719 University of California - Los Angeles 2387
PSPC SPECTRA OF X-RAY LUMINOUS 'NORMAL' GALAXIES
Period *Obligations*
08/13/1991-11/30/1996 FY95: \$4,000 TOTAL: \$111,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M A MALKAN GSFC/R PETRE 11-Astronomy

NAG 5-2417 University of California - Los Angeles 2395
DETECTING NEW EXTRAGALACTIC HIGH-ENERGY GAMMA-RAY
SOURCES: NATURE OF THE 100 MEV EMISSION FROM...
Period *Obligations*
11/06/1993-11/14/1995 FY95: \$48,227 TOTAL: \$83,227
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M A MALKIN GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-1799 University of California - Los Angeles 2388
AN INTENSIVE STUDY OF THE VARIABLE PLANETARY NEBUL AE
Period *Obligations*
10/30/1991-09/30/1995 FY95: TOTAL: \$37,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L H ALLER GSFC/D WEST 11-Astronomy

NAG 5-2591 University of California - Los Angeles 2396
NUMERICAL MODELING OF THE GLOBAL ATMOSPHERE
Period *Obligations*
05/12/1994-05/14/1996 FY95: \$100,000 TOTAL: \$200,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A ARAKAWA GSFC/M SUAREZ 31-Atmos Sci

NAG 5-1845 University of California - Los Angeles 2389
VOLCANIC CLOUD DISPERSION CHEMISTRY AND MICROPHYSI CS:
AN ANALYSIS OF THE E1 CHICHON ERUPTION
Period *Obligations*
12/12/1991-02/28/1995 FY95: TOTAL: \$125,880
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R P TURCO GSFC/L S WALTER 32-Geological Sci

NAG 5-2653 University of California - Los Angeles 2397
STELLAR AND CIRCUMSTELLAR STRUCTURES IN ALGOL BINARIES
Period *Obligations*
07/27/1994-07/31/1996 FY95: \$15,000 TOTAL: \$45,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J PLAVEC GSFC/D WEST 11-Astronomy

NAG 5-1967 University of California - Los Angeles 2390
MAGNETOMETER DATA PRESERVATIONS AND MAGNETIC RECOR
D MICROFICHE
Period *Obligations*
05/06/1992-06/14/1994 FY95: TOTAL: \$221,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C RUSSELL GSFC/G BULLOCK 19-Phys Sci, NEC

NAG 5-2723 University of California - Los Angeles 2398
SUBSONIC AIRCRAFT EMISSIONS IMPACTS ON UPPER
TROPOSPHERIC MICROPHYSICS AND CHEMISTRY
Period *Obligations*
09/25/1994-10/31/1995 FY95: \$82,577 TOTAL: \$82,577
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R P TURCO GSFC/R W STEWART 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 5-2749 University of California - Los Angeles 2399
 SPATIALLY RESOLVED AND INTEGRATED INDICES OF SOLAR AND
 STELLAR ACTIVITY
Period *Obligations*
 10/06/1994-10/14/1996 FY95: \$77,718 TOTAL: \$77,718
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R K ULRICH GSFC/C H JACKMAN 31-Atmos Sci

NAGW 1021 University of California - Los Angeles 2407
 GENERAL CIRCULATION OF THE SOUTHERN HEMISPHERE
 STRATOSPHERE
Period *Obligations*
 05/01/1987-06/30/1998 FY95: \$69,200 TOTAL: \$791,003
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C R MECHOSO HQ/R D MCPETERS 31-Atmos Sci
 HQ/M J PRATHER

NAG 5-2953 University of California - Los Angeles 2400
 THE HIDDEN OCEAN ON THE TOP OF THE COVE AND THE
 GEOMAGNETIC SECULAR VARIATION
Period *Obligations*
 06/07/1995-06/14/1996 FY95: \$70,000 TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S I BREGINSKY GSFC/P TAYLOR 19-Phys Sci, NEC

NAGW 1570 University of California - Los Angeles 2408
 LABORATORY MODELING OF MAGNETOSPHERIC PARTICLE
 ACCELERATIONS
Period *Obligations*
 12/21/1988-02/28/1995 FY95: TOTAL: \$442,228
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R L STENZEL HQ/M M MELLOTT 13-Physics
 HQ/T W PERRY

NAG 5-3012 University of California - Los Angeles 2401
 EXTENDING ROSAT LIGHT CURVES OF ECLIPTIC POLE AGN
 FORMATION AND GALAXY EVOLUTION
Period *Obligations*
 07/18/1995-07/31/1996 FY95: \$49,600 TOTAL: \$49,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M A MALKAN GSFC/D WEST 11-Astronomy

NAGW 1874 University of California - Los Angeles 2409
 DYNAMICAL STUDIES OF THE ATMOSPHERES OF VENUS, JUPITER,
 URANUS AND IO
Period *Obligations*
 01/03/1990-10/31/1995 FY95: \$55,001 TOTAL: \$404,340
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G SCHUBERT HQ/J BERGSTRAHL 11-Astronomy

NAG 9-87 University of California - Los Angeles 2402
 STUDY-PRISTINE LUNAR ROCKS + GENESIS
Period *Obligations*
 02/01/1984-03/01/1994 FY95: TOTAL: \$855,539
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P H WARREN JSC/I D BROWNE 19-Phys Sci, NEC
 G W KALLEMEYN

NAGW 2047 University of California - Los Angeles 2410
 AN INVESTIGATION OF THE STRUCTURE AND MOTION OF THE
 JOVIAN MAGNETOSPHERE
Period *Obligations*
 05/05/1990-03/31/1996 FY95: \$38,500 TOTAL: \$199,608
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K K KHURANA HQ/M M MELLOTT 13-Physics
 HQ/T PERRY

NAG 9-814 University of California - Los Angeles 2403
 USE OF MICROGRAVITY
Period *Obligations*
 08/01/1995-07/31/1996 FY95: \$210,000 TOTAL: \$210,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E DIRKSEN JSC/N PELLIS 51-Biological Sci

NAGW 2054 University of California - Los Angeles 2411
 SUBSTORM DYNAMICS IN THE NEAR-EARTH MAGNETOSPHERE
Period *Obligations*
 05/05/1990-03/31/1996 FY95: \$81,000 TOTAL: \$347,726
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R MCPHERRON HQ/M M MELLOTT 13-Physics
 HQ/T PERRY

NAGW 80 University of California - Los Angeles 2404
 RESEARCH ON THEORETICAL STUDIES OF EXTRAGALACTIC
 GRAINS
Period *Obligations*
 10/01/1980-09/30/1993 FY95: TOTAL: \$372,623
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M A JURA HQ/F C GILLETT 11-Astronomy
 HQ/N W BOGESS

NAGW 2063 University of California - Los Angeles 2412
 MARS POLAR SURFACE AND SUBSURFACE PROPERTIES
Period *Obligations*
 04/10/1990-09/30/1994 FY95: TOTAL: \$160,998
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D A PAIGE HQ/J M BOYCE 32-Geological Sci

NAGW 87 University of California - Los Angeles 2405
 STUDIES OF PLASMA ENVIRONMENT OF JUPITER AND SATURN
Period *Obligations*
 07/01/1980-08/19/1994 FY95: TOTAL: \$617,122
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R M THORNE HQ/J T BERGSTRAHL 31-Atmos Sci
 HQ/W L QUAIDE

NAGW 2085 University of California - Los Angeles 2413
 DYNAMICS OF THE ORIGIN OF THE SOLAR SYSTEM
Period *Obligations*
 07/23/1990-10/31/1995 FY95: \$42,800 TOTAL: \$239,401
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W H KAULA HQ/T A MAXWELL 32-Geological Sci

NAGW 472 University of California - Los Angeles 2406
 THEORETICAL STUDIES IN SUPPORT OF A SOLAR SEISMOLOGY
 MISSION
Period *Obligations*
 06/01/1983-12/31/1996 FY95: \$196,000 TOTAL: \$1,812,174
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R ULRICH HQ/J D BOHLIN 13-Physics
 HQ/D S SPICER

NAGW 2086 University of California - Los Angeles 2414
 THERMAL AND DYNAMICAL PROCESSES IN THE EVOLUTION OF
 PLANETS AND SATELLITES
Period *Obligations*
 05/14/1990-09/30/1995 FY95: \$49,399 TOTAL: \$254,447
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G SCHUBERT HQ/T A MAXWELL 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 2147 University of California - Los Angeles 2415
 NAGW-2147/UNIV OF CA @ LOS ANGELES/PAEOBIOLOGIC STUDIES
 OF THE ANTIQUITY AND PRECAMBIAN EVOLUTION

<i>Period</i>	<i>Obligations</i>	
07/13/1990-06/30/1996	FY95: \$73,506	TOTAL: \$435,513
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J W SCHOPF	HQ/J D RUMNEL	32-Geological Sci
	HQ/S W FOGLEMAN	

NAGW 2226 University of California - Los Angeles 2416
 UNUSUAL PROPERTIES OF MARTIAN SEASONAL FROST DEPOSITS

<i>Period</i>	<i>Obligations</i>	
02/27/1991-10/31/1993	FY95:	TOTAL: \$120,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D A PAIGE	HQ/T A MAXWELL	32-Geological Sci

NAGW 2243 University of California - Los Angeles 2417
 NAGW-2243/UNIV CA @ LOS ANGELES/METEORITIC CLUSES
 REGARDING NEBULAR AND ASTEROIDAL TEMPERATURES

<i>Period</i>	<i>Obligations</i>	
06/13/1991-12/31/1996	FY95: \$40,000	TOTAL: \$175,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J T WASSON	HQ/J A NUTH	19-Phys Sci, NEC

NAGW 2269 University of California - Los Angeles 2418
 FRAGMENTATION IN STLLAR COLLAPSE

<i>Period</i>	<i>Obligations</i>	
05/21/1991-10/31/1995	FY95: \$15,000	TOTAL: \$179,998
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W M KAULA	HQ/J A NUTH	19-Phys Sci, NEC

NAGW 2270 University of California - Los Angeles 2419
 A SEARCH FOR BROWN DWARFS AND HIGH MASS PLANETS

<i>Period</i>	<i>Obligations</i>	
12/07/1990-10/31/1995	FY95: \$48,600	TOTAL: \$232,200
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B M ZUCKERMAN	HQ/J A NUTH	19-Phys Sci, NEC

NAGW 2384 University of California - Los Angeles 2420
 MARS 94 SEISMOLOGY PARTICIPATION

<i>Period</i>	<i>Obligations</i>	
06/17/1991-07/31/1997	FY95:	TOTAL: \$100,599
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P M DAVIS	HQ/W QUAIDE	19-Phys Sci, NEC

NAGW 2546 University of California - Los Angeles 2421
 THEORY OF GEODYNAMO AND SECULAR VARIATION

<i>Period</i>	<i>Obligations</i>	
08/20/1991-05/31/1994	FY95:	TOTAL: \$209,865
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P ROBERTS	HQ/A J ANDERSON	32-Geological Sci
	HQ/R E MURPHY	

NAGW 2573 University of California - Los Angeles 2422
 CO-INVESTIGATOR PARTICIPATION IN THE MARS '94 MISS ION:
 STUDIES OF THE MARTIAN MAGNETIC FIELD

<i>Period</i>	<i>Obligations</i>	
08/22/1991-01/31/1996	FY95: \$15,000	TOTAL: \$172,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C T RUSSELL	HQ/W L QUAIDE	19-Phys Sci, NEC

NAGW 2575 University of California - Los Angeles 2423
 CO-INVESTIGATOR PARTICIPATION IN THE MARS '94 MISS ION
 STUDIES: TOPSIDE SOUNDER AND MAGNETOMETER

<i>Period</i>	<i>Obligations</i>	
08/02/1991-01/31/1995	FY95:	TOTAL: \$70,126
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J LUHMANN	HQ/W L QUAIDE	19-Phys Sci, NEC

NAGW 2620 University of California - Los Angeles 2424
 DISRUPTION OF TAIL CURRENT BY KINETIC DRIFT-BALLOO NING
 MODES AT SUBSTORM BREAK-UP

<i>Period</i>	<i>Obligations</i>	
08/02/1991-05/31/1994	FY95:	TOTAL: \$167,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R PELLAT	HQ/M M MELLOTT	13-Physics
	HQ/J D BOHLIN	

NAGW 2646 University of California - Los Angeles 2425
 NAGW-2646/UNIV CA/THREE-DIMENSIONAL NUMERICAL SIMU
 LATIONS OF LITHOSPHERE AND MANTLE DYNAMICS

<i>Period</i>	<i>Obligations</i>	
08/19/1991-06/30/1995	FY95: \$93,000	TOTAL: \$349,986
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G SCHUBERT	HQ/M BALTUCK	32-Geological Sci
	HQ/B J MALCOLM	

NAGW 2842 University of California - Los Angeles 2426
 CONTAINERLESS CAPILLARY WAVE TURBULENCE

<i>Period</i>	<i>Obligations</i>	
01/17/1992-11/30/1995	FY95: \$64,000	TOTAL: \$319,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S J PUTTERMAN	HQ/B M CARPENTER	13-Physics
M BARMATZ		

NAGW 2848 University of California - Los Angeles 2427
 MHD STUDIES OF THE MAGNETOSHEATH AND THE MAGNETOPA
 USE

<i>Period</i>	<i>Obligations</i>	
01/24/1992-03/31/1995	FY95:	TOTAL: \$198,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C C WU	HQ/M M MELLOTT	13-Physics
	HQ/J D BOHLIN	

NAGW 2853 University of California - Los Angeles 2428
 THEORETICAL MODELING OF THE RESPONSE OF THE THERMO
 SPHERE TO GEOMAGNETIC PROCESSES

<i>Period</i>	<i>Obligations</i>	
03/13/1992-04/30/1995	FY95: \$83,000	TOTAL: \$237,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R P TURCO	HQ/D L REASONER	13-Physics
	HQ/J D BOHLIN	

NAGW 2886 University of California - Los Angeles 2429
 STUDY OF THE INTERACTION OF THE SOLAR WIND WITH NE
 PTUNE

<i>Period</i>	<i>Obligations</i>	
02/20/1992-09/30/1994	FY95:	TOTAL: \$112,352
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C T RUSSELL	HQ/W L QUAIDE	19-Phys Sci, NEC

NAGW 2997 University of California - Los Angeles 2430
 FINITE ELEMENT MODELING OF ANDEAN TECTONICS

<i>Period</i>	<i>Obligations</i>	
03/17/1992-12/31/1995	FY95:	TOTAL: \$124,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W M KAULA	HQ/R E MURPHY	32-Geological Sci
	HQ/D M BUTLER	

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 3042 University of California - Los Angeles 2431
NAGW-3042/UNIV CA @ LOS ANGELES/GLOBAL DYNAMIC MODELING OF SPACE-GEODETTIC DATA

<i>Period</i>	<i>Obligations</i>	
04/16/1992-12/31/1994	FY95:	TOTAL: \$183,338
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P BIRD	HQ/R E MURPHY	32-Geological Sci
	HQ/D M BUTLER	

NAGW 3064 University of California - Los Angeles 2432
NAGW-3064/UNIV CA @ LOS ANGELES/ISOTOPIC TRACERS OF INTERSTELLAR CHEMISTRY IN METEORITIC ORGANIC

<i>Period</i>	<i>Obligations</i>	
05/04/1992-05/31/1996	FY95: \$29,000	TOTAL: \$114,890
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J F KERRIDGE	HQ/J A NUTH	19-Phys Sci, NEC

NAGW 3115 University of California - Los Angeles 2433
NAGW-3115/UNIV CA/ISO KEY PROJECT: DUST DEBRIS AROUND SOLAR MASS STARS

<i>Period</i>	<i>Obligations</i>	
07/27/1992-09/30/1995	FY95: \$130,000	TOTAL: \$269,819
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E E BECKLIN	HQ/L J CAROFF	11-Astronomy

NAGW 3132 University of California - Los Angeles 2434
DYNAMICS OF OUTER SOLAR SYSTEM ORIGIN AND EVOLUTION

<i>Period</i>	<i>Obligations</i>	
07/14/1992-05/31/1996	FY95: \$70,000	TOTAL: \$170,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
NEWMAN	HQ/J A NUTH	19-Phys Sci, NEC

NAGW 3190 University of California - Los Angeles 2435
PLASMA PHYSICS OF PLANETARY MAGNETOSPHERES

<i>Period</i>	<i>Obligations</i>	
08/28/1992-12/31/1994	FY95:	TOTAL: \$177,412
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D D BARBOSA	HQ/E C WHIPPLE	13-Physics
	HQ/J D BOHLIN	

NAGW 3308 University of California - Los Angeles 2436
NAGW-3308/UCLA/PRISTINE IGNEOUS ROCKS AND THE GENESIS OF EARLY PLANETARY CRUSTS

<i>Period</i>	<i>Obligations</i>	
12/22/1992-12/14/1995	FY95: \$125,987	TOTAL: \$371,372
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P H WARREN	HQ/H C BRINTON	32-Geological Sci

NAGW 3349 University of California - Los Angeles 2437
ISOTOPIC ANALYSIS OF LIGHT ELEMENTS

<i>Period</i>	<i>Obligations</i>	
01/13/1993-11/30/1994	FY95:	TOTAL: \$41,200
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J F KERRIDGE	HQ/H C BRINTON	13-Physics

NAGW 3426 University of California - Los Angeles 2438
ASSESSMENT OF ION SCAVENGING PROCESSES AT VENUS AND THEIR EVOLUTIONARY SIGNIFICANCE

<i>Period</i>	<i>Obligations</i>	
02/24/1993-06/30/1996	FY95:	TOTAL: \$79,418
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J G LUHMAN	HQ/J T BERGSTRALH	31-Atmos Sci

NAGW 3468 University of California - Los Angeles 2439
DEFINITION AND DEVELOPMENT OF A PROTOTYPE MARS SEISMIC STATION

<i>Period</i>	<i>Obligations</i>	
04/09/1993-05/31/1996	FY95: \$100,000	TOTAL: \$300,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P M DAVIS	HQ/H C BRINTON	19-Phys Sci, NEC

NAGW 3476 University of California - Los Angeles 2440
OBL. WAV. IN HOT MAG. PLAS. MOD. BY A GEN. LOR. (K APPA)DIS.

<i>Period</i>	<i>Obligations</i>	
03/27/1993-03/31/1996	FY95: \$77,000	TOTAL: \$220,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R M THORNE	HQ/E C WHIPPLE	13-Physics
	HQ/G L WITHBROE	

NAGW 3477 University of California - Los Angeles 2441
STRUCTURE AND DISSIPATION IN COLLISIONLESS SHOCKS

<i>Period</i>	<i>Obligations</i>	
03/29/1993-01/31/1996	FY95: \$73,700	TOTAL: \$211,050
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C T RUSSELL	HQ/F C WHIPPLE	13-Physics
	HQ/G L WITHBROE	

NAGW 3484 University of California - Los Angeles 2442
COLDSPOTS AND HOTSPOTS QUANTITATIVE INVESTIGATIONS OF VENUS TECTONICS

<i>Period</i>	<i>Obligations</i>	
03/27/1993-05/31/1996	FY95: \$17,997	TOTAL: \$107,397
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D L BINDSCHADLER	HQ/J T BERGSTRALH	32-Geological Sci

NAGW 3492 University of California - Los Angeles 2443
AN INVEST. OF THE INDUCED MAG. OF VENUS AND ITS INTER. WITH THE SOLAR WIND

<i>Period</i>	<i>Obligations</i>	
03/27/1992-03/14/1995	FY95:	TOTAL: \$87,600
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C T RUSSELL	HQ/J T BERGSTRALH	31-Atmos Sci

NAGW 3497 University of California - Los Angeles 2444
PLASMA WAVES IN THE MAGNETOSHEATH OF VENUS

<i>Period</i>	<i>Obligations</i>	
04/06/1993-03/14/1995	FY95:	TOTAL: \$84,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R J STRANGWAY	HQ/J T BERGSTRALH	31-Atmos Sci

NAGW 3535 University of California - Los Angeles 2445
DIFFERENTIATED METEORITES AND THE COMPONENTS OF CHONDRITES

<i>Period</i>	<i>Obligations</i>	
04/22/1993-01/31/1996	FY95: \$191,176	TOTAL: \$542,638
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J WASSON	HQ/J BOYCE	32-Geological Sci

NAGW 3546 University of California - Los Angeles 2446
VENUS: DYNAMICS OF ITS INTERIOR, SURFACE AND LOWER ATMOSPHERE

<i>Period</i>	<i>Obligations</i>	
04/22/1993-03/31/1995	FY95:	TOTAL: \$129,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G SCHUBERT	HQ/J T BERGSTRALH	32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 3590 University of California - Los Angeles 2447
ASYMMETRIC AURORAL PROCESSES ON THE GIANT PLANETS
Period *Obligations*
05/20/1993-03/31/1996 FY95: \$55,000 TOTAL: \$157,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R THORNE HQ/H C BRINTON 19-Phys Sci, NEC

NAGW 3955 University of California - Los Angeles 2455
GLOBAL MAGNETOSPHERIC ION DYNAMICS
Period *Obligations*
04/21/1994-01/31/1995 FY95: TOTAL: \$25,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R RICHARD HQ/E C WHIPPLE 13-Physics
HQ/J D BOHLIN

NAGW 3661 University of California - Los Angeles 2448
SOME STUDIES OF THE MACRO AND MICRO STRUCTURE OF THE
VENUSIAN BOW SHOCK AND THE IONOSPHERE
Period *Obligations*
06/16/1993-05/31/1995 FY95: TOTAL: \$103,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K K KHURANA HQ/J T BERGSTRALH 31-Atmos Sci

NAGW 3974 University of California - Los Angeles 2456
A STUDY OF CURRENTS IN THE MIDDLE AND OUTER MAGNET
OSPHERE
Period *Obligations*
05/10/1994-04/30/1997 FY95: \$52,500 TOTAL: \$102,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C T RUSSELL HQ/E C WHIPPLE 13-Physics
HQ/J D BOHLIN

NAGW 3671 University of California - Los Angeles 2449
STRATOSPHERIC HETEROGENEOUS CHEMISTRY AND MICROPHY
SICS: MODEL, DEVELOPMENT, VALIDATION AND APPLICAT
Period *Obligations*
06/30/1993-06/30/1996 FY95: \$115,000 TOTAL: \$337,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R TURCO HQ/J A KAYE 31-Atmos Sci

NAGW 3993 University of California - Los Angeles 2457
AN INTERNATIONAL SYMPOSIUM ON A CRITIQUE OF THE SO URCES
OF DARK MATTER IN THE UNIVERSE
Period *Obligations*
05/23/1994-02/14/1995 FY95: TOTAL: \$9,646
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D B CLINE HQ/J CAROFF 11-Astronomy

NAGW 3725 University of California - Los Angeles 2450
DEVELOPMENT OF A MARS EXO BIOLOGY EXPLORATION STRAT
EGY
Period *Obligations*
08/26/1993-06/30/1995 FY95: TOTAL: \$70,630
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J F KERRIDGE HQ/J D RUMMEL 39-Env Sci, NEC

NAGW 4063 University of California - Los Angeles 2458
SOLAR WIND EFFECTS ON ATMOSPHERES OF WEAKLY MAGNET
IZED BODIES: MARS, TITAN AND THE MOON
Period *Obligations*
06/28/1994-04/30/1995 FY95: TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J LUHMANN HQ/J BERGSTRALH 31-Atmos Sci

NAGW 3829 University of California - Los Angeles 2451
NAGW-3829/UCLA/PRESENT TECTONIC RATE IN ASIA
Period *Obligations*
12/09/1993-10/31/1994 FY95: TOTAL: \$12,211
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J VILLASENOR HQ/M BALTUCK 32-Geological Sci

NAGW 4112 University of California - Los Angeles 2459
DEVELOPMENT OF HIGH RESOLUTION-HIGH SENSITIVITY ION
MICROPROBE FACILITY FOR COSMOCHEMICAL
Period *Obligations*
08/17/1994-05/31/1996 FY95: \$79,999 TOTAL: \$159,998
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K D MCKEEGAN HQ/P ROGERS 32-Geological Sci

NAGW 3857 University of California - Los Angeles 2452
UCLA; MARS POLAR PATHFINDER ADVANCED MISSION STUDY
Period *Obligations*
01/31/1994-05/31/1994 FY95: TOTAL: \$90,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D PAIGE HQ/M KICZA 31-Atmos Sci

NAGW 4115 University of California - Los Angeles 2460
RECENT LIQUID WATER ON MARS
Period *Obligations*
08/16/1994-03/31/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D A PAIGE HQ/M MEYER 31-Atmos Sci

NAGW 3915 University of California - Los Angeles 2453
INTEGRATING DATA ANALYSIS VISUALIZATION AND DATA MGM T
IN A HETEROGENEOUS DISTRIBUTED ENVIRONMENT
Period *Obligations*
04/11/1994-01/31/1996 FY95: \$138,000 TOTAL: \$263,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R R MUNTZ HQ/G H MUCKLOW 22-Computer Science
HQ/J H BREDECAMP

NAGW 4130 University of California - Los Angeles 2461
RELATIONSHIP OF BURSTY BULK FLOW EVENTS AND SUBSTO
RMS
Period *Obligations*
09/21/1994-09/30/1997 FY95: \$29,000 TOTAL: \$57,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F V CORONITI HQ/E C WHIPPLE 13-Physics
HQ/J D BOHLIN

NAGW 3948 University of California - Los Angeles 2454
A STUDY OF FLOWS AND BOUNDARY LAYERS IN THE MAGNET
OSHEATH AND OUTER MAGNETOSPHERE
Period *Obligations*
04/20/1994-03/31/1997 FY95: \$26,500 TOTAL: \$51,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C T RUSSELL HQ/E C WHIPPLE 13-Physics
HQ/J D BOHLIN

NAGW 4223 University of California - Los Angeles 2462
DEVELOPMENTAL GENES AND THE CAMBRIAN RADIATION
Period *Obligations*
12/19/1994-09/30/1996 FY95: \$191,900 TOTAL: \$191,900
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D JACOBS HQ/M MEYER 51-Biological Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 4242 University of California - Los Angeles 2463
 INTEGRATING DISTRIBUTED OBJECT MANAGEMENT TECH AND
 EOSDIS
Period *Obligations*
 01/10/1995-11/30/1995 FY95: \$598,992 TOTAL: \$598,992
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R MUNTZ HQ/R S MCGINNIS 22-Computer Science

NAGW 4770 University of California - Los Angeles 2471
 IS THE HIGH MULTIPLICITY OF T TAURI STARS IN TAURUS TYPICAL?
 A POTENTIAL PROBLEM FOR PLANETARY FOR
Period *Obligations*
 09/16/1995-06/30/1996 FY95: \$39,503 TOTAL: \$39,503
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A CHEZ HQ/P G ROGERS 11-Astronomy

NAGW 4254 University of California - Los Angeles 2464
 UNIVERSITY ADVANCE DESIGN PROGRAM
Period *Obligations*
 01/13/1995-10/09/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R X MEYER HQ/A S MCGEE 49-Engr, NEC

NAG10-52 University of California - Los Angeles 2472
 A POROUS GROWTH SYSTEM
Period *Obligations*
 09/30/1988-02/28/1996 FY95: TOTAL: \$578,621
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W L BERRY KSC/W M KNOTT 55-Agriculture Sci

NAGW 4327 University of California - Los Angeles 2465
 RESEARCH IN PLANETARY POLAR PROCESSES
Period *Obligations*
 02/24/1995-09/30/1995 FY95: \$33,000 TOTAL: \$33,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D PAIGE HQ/H BRINTON 32-Geological Sci

NAS 1-19956 University of California - Los Angeles 2473
 SAGE II SCIENTIFIC INVESTIGATIONS
Period *Obligations*
 04/12/1993-04/15/1996 FY95: \$85,000 TOTAL: \$260,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R P TURCO LARC/G L MADDREA 31-Atmos Sci
 LARC/L R POOLE

NAGW 4532 University of California - Los Angeles 2466
 THE ROLE OF THIN CURRENT SHEETS IN PLASMA SHEET CO
 NVECTION AND DISRUPTION
Period *Obligations*
 06/06/1995-02/28/1998 FY95: \$72,700 TOTAL: \$72,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P L PRITCHETT HQ/R A HOFFMAN 13-Physics
 HQ/J D BOHLIN

NAS 3-25975 University of California - Los Angeles 2474
 RISK BASED SPACECRAFT FIRE SAFETY EXPERIMENTS/CONC EPT
 DEVELOPMENT PHASE B
Period *Obligations*
 04/23/1991-08/15/1994 FY95: TOTAL: \$581,077
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G E APOSTOLAKIS LERC/R FRIEDMAN 46-Mech Engr
 I CATTON LERC/S E WASHINGTON

NAGW 4541 University of California - Los Angeles 2467
 GLOBAL MHD SIMULATIONS OF MESOSCALE STRUCTURES AT THE
 MAGNETOSPHERIC BOUNDARY
Period *Obligations*
 05/26/1995-04/30/1998 FY95: \$58,500 TOTAL: \$58,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J BERCHEM HQ/R A HOFFMAN 13-Physics
 HQ/J D BOHLIN

NAS 5-30373 University of California - Los Angeles 2475
 MAGNETIC FIELD INVESTIGATION FOR POLAR SPACECRAFT
Period *Obligations*
 04/12/1989-11/21/1995 FY95: \$560,782 TOTAL: \$3,286,082
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C T RUSSELL GSFC/D CROSBY 11-Astronomy

NAGW 4543 University of California - Los Angeles 2468
 DEVELOPMENT OF A MODEL FOR THE NIGHT SIDE MAGNETOP
 AUSE USING GLOBAL SIMULATIONS
Period *Obligations*
 05/26/1995-04/30/1998 FY95: \$62,600 TOTAL: \$62,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J RAEDER HQ/R A HOFFMAN 13-Physics
 HQ/R A BOHLIN

NAS 9-18773 University of California - Los Angeles 2476
 RELATIONSHIP OF LONG-TERM ELECTROMYOGRAPHIC ACTIVI TY
 TO MUSCLE ATROPHY AND PERFORMANCE
Period *Obligations*
 10/27/1992-04/01/1997 FY95: \$350,000 TOTAL: \$886,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R EGGERTON JSC/A PLAZA 51-Biological Sci

NAGW 4553 University of California - Los Angeles 2469
 STUDIES OF THE INTRINSIC COMPLEXITIES OF MAGNETOTA IL ION
 DISTRIBUTIONS: THEORY AND OBSERVATION
Period *Obligations*
 05/30/1995-04/30/1998 FY95: \$80,800 TOTAL: \$80,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M ASHOUR-ABDALLA HQ/R HOFFMAN 13-Physics

NAS 9-19400 University of California - Los Angeles 2477
 FLIGHT EXPERIMENT/CORRELATION OF DISCONJUGATE EYE
 TORSION WITH THE TIME COURSE OF SPACE ADAP SYNDROM
Period *Obligations*
 07/31/1995-06/30/1996 FY95: \$140,000 TOTAL: \$140,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C MARKHAM JSC/A L LEE 59-Life Sci, NEC

NAGW 4615 University of California - Los Angeles 2470
 OPERATION OF THE PLANETARY PLASMA INTERACTIONS NODE
 OF THE PLANETARY DATA SYSTEM
Period *Obligations*
 08/02/1995-03/30/1996 FY95: \$250,150 TOTAL: \$250,150
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R WALKER HQ/J BERGSTRALH 11-Astronomy

NASW 4891 University of California - Los Angeles 2478
 BASIC RESEARCH ON LOW VELOCITY BOILING HEAT TRX AND 2
 PHASE PRESSURE DROP EXPERIMENTS IN SPACE
Period *Obligations*
 05/12/1994-02/11/1995 FY95: \$265 TOTAL: \$91,866
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 V K DHIR HQ/A DOUGHERTY 19-Phys Sci, NEC

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCA 2-689 University of California - Los Angeles 2479
 DYNAMICAL MODELLING OF A JOVIAN CUMULUS
Period Obligations
 03/02/1992-03/31/1994 FY95: TOTAL: \$17,996
Prin. Invest. NASA Tech. Officer CASE Category
 G SCHUBERT ARC/C R STOKER 13-Physics

NGT 00-030-238 University of California - Los Angeles 2487
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/02/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R P TURCO HQ/R A SCHIFFER 31-Atmos Sci
 HQ/G ASRAR

NCC 2-374 University of California - Los Angeles 2480
 LABORATORY FOR FLIGHT-SYSTEMS RESEARCH
Period Obligations
 10/01/1987-12/31/1995 FY95: \$1,300,000 TOTAL: \$7,312,661
Prin. Invest. NASA Tech. Officer CASE Category
 A V BALAKRISHNAN ARC/K W ILIFF 49-Engr, NEC

NGT 00-030-334 University of California - Los Angeles 2488
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/07/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R P TURCO HQ/R A SCHIFFER 31-Atmos Sci
 HQ/G ASRAR

NCC 2-535 University of California - Los Angeles 2481
 MUSCLE FEASIBILITY FOR RHESUS
Period Obligations
 06/01/1988-09/30/1994 FY95: TOTAL: \$1,042,449
Prin. Invest. NASA Tech. Officer CASE Category
 V R EDGERTON ARC/J P CONNOLLY 51-Biological Sci
 R R ROY ARC/R W BALLARD
 J H HODGSON

NGT 00-050-807 University of California - Los Angeles 2489
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/20/1991-09/30/1995 FY95: TOTAL: \$65,780
Prin. Invest. NASA Tech. Officer CASE Category
 I S MCLEAN HQ/J K ALEXANDER 11-Astronomy

NCC 2-804 University of California - Los Angeles 2482
 PSYCHOPHYSIOLOGY OF HUMANS IN SPACE
Period Obligations
 06/03/1993-09/14/1995 FY95: \$195,000 TOTAL: \$576,619
Prin. Invest. NASA Tech. Officer CASE Category
 P S COWINGS ARC/A R HARGENS 59-Life Sci, NEC

NGT 00-051-000 University of California - Los Angeles 2490
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 10/30/1992-09/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D A PAIGE HQ/J K ALEXANDER 13-Physics

NCC 2-826 University of California - Los Angeles 2483
 ADVANCING THE SIENCE EXPERIENCES OF YOUNG CHILDREN (2-5 YEARS)
Period Obligations
 09/16/1993-02/14/1995 FY95: \$127,025 TOTAL: \$338,998
Prin. Invest. NASA Tech. Officer CASE Category
 R GELMAN ARC/L C SHELTER 69-Psych, NEC
 L TRAVIS ARC/K W ILIFF
 L WATROUS

NGT 00-051-148 University of California - Los Angeles 2491
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/28/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W GEKELMAN HQ/D HOLLAND 13-Physics

NCC 2-869 University of California - Los Angeles 2484
 DEVELOPMENT OF AN EFFICACIOUS EXERCISE AS A COUNTRE R MEASURE OF MUSCLE ATROPHY
Period Obligations
 07/11/1994-06/30/1995 FY95: TOTAL: \$69,931
Prin. Invest. NASA Tech. Officer CASE Category
 V R EDGERTON ARC/R E GRINDELAND 56-Medical Sciences
 R R ROY
 J A HODGSON

NGT 00-051-173 University of California - Los Angeles 2492
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/19/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 P P FRIEDMAN ARC/M MOORE 41-Aero Engr

NGT 00-030-079 University of California - Los Angeles 2485
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/17/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A TABAZADEH HQ/D M BUTLER 31-Atmos Sci
 R TURCO HQ/G S WILSON

NGT 00-051-175 University of California - Los Angeles 2493
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/18/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 V R EDGERTON ARC/M MOORE 56-Medical Sciences

NGT 00-030-148 University of California - Los Angeles 2486
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/27/1992-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S M ANDERSON HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-051-273 University of California - Los Angeles 2494
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D A PAUGE JPL/C HIX 32-Geological Sci

NGT 00-051-417 University of California - Los Angeles 2495
 GSRP
Period Obligations
 08/29/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 C A FULLER HQ/G LESANE 56-Medical Sciences

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NSG-5272 University of California - Los Angeles 2496
 PROBLEMS OF MASS LOSS AND MASS TRANSFER IN CLOSE BINARY SYSTEMS
Period *Obligations*
 05/01/1978-04/30/1995 FY95: TOTAL: \$336,410
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M J PLAVEC GSFC/D WEST 11-Astronomy
 C D KEYES

NAG 5-2027 University of California - Riverside 2497
 COMPTTEL STUDY OF NEUTRONS AND GAMMA RAYS FROM SOLAR FLARES
Period *Obligations*
 07/17/1992-11/30/1994 FY95: TOTAL: \$191,044
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T J O'NEILL GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2044 University of California - Riverside 2498
 SPECTRAL AND TIME VARIABILITY STUDIES OF ACCRETING MEDIUM ENERGY GAMMA RAY SOURCES WITH THE COMPTTEL.
Period *Obligations*
 07/28/1992-01/31/1996 FY95: \$30,000 TOTAL: \$115,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A D ZYCH GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2824 University of California - Riverside 2499
 SEARCH FOR GAMMA-RAY EMISSION FROM STARBURST GALAXIES NGC 253 AND M51
Period *Obligations*
 12/14/1994-12/14/1995 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D BHATTACHARYA GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2825 University of California - Riverside 2500
 OSSE MAPPING OF DIFFUSE GALACTIC GAMMA-RAY EMISSION
Period *Obligations*
 12/14/1994-12/14/1995 FY95: \$15,495 TOTAL: \$15,495
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 O T TUMER GSFC/J P NORRIS 11-Astronomy
 W R PURCELL GSFC/N WHITE

NAG 5-3008 University of California - Riverside 2501
 ANALYSIS OF M82 X-RAY DATA OBTAINED BY GINGA THE MAGNETIC CYCLE IN AR LACERTAE
Period *Obligations*
 07/14/1995-07/31/1996 FY95: \$13,476 TOTAL: \$13,476
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D BHATTACHARYA GSFC/D WEST 11-Astronomy

NAG 8-956 University of California - Riverside 2502
 PROTEIN CRYSTALLIZATION EXPERIMENT
Period *Obligations*
 05/13/1993-09/30/1995 FY95: \$50,000 TOTAL: \$297,017
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A MCPHERSON MSFC/B J HERRON 12-Chemistry

NAG 8-957 University of California - Riverside 2503
 ADVANCED LIQUID-LIQUID DIFFUSION INSTRUMENT FOR PROTEIN CRYSTAL GROWTH
Period *Obligations*
 05/04/1993-09/30/1995 FY95: \$425,000 TOTAL: \$882,722
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A MCPHERSON MSFC/B J HERRON 12-Chemistry

NAG 8-1164 University of California - Riverside 2504
 MACRINIKEYKAR CRYSTAL GROWTH
Period *Obligations*
 09/13/1995-06/29/1996 FY95: \$170,000 TOTAL: \$170,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A J MALKIN GSFC/M L PUSEY 19-Phys Sci, NEC
 GSFC/W W WITYEROW

NAGW 1996 University of California - Riverside 2505
 UCR GAMMA RAY ASTRONOMY PROGRAM
Period *Obligations*
 02/27/1990-11/30/1995 FY95: \$270,000 TOTAL: \$1,335,849
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A ZYCH HQ/L J KALUZIENSKI 11-Astronomy
 R S WHITE

NAGW 4184 University of California - Riverside 2506
 NON-ENZYMATIC OLIGOMERIZATION MONONUCLEOTIDES USING NON-STANDARD OLIGONUCLEOTIDE TEMPLATES
Period *Obligations*
 10/28/1994-06/30/1996 FY95: \$66,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C SWITZER HQ/M MEYER 51-Biological Sci

NAS 8-39763 University of California - Riverside 2507
 CRYSTAL GROWTH FLIGHT APPARATUS
Period *Obligations*
 10/30/1992-12/31/1995 FY95: \$1,564,642 TOTAL: \$3,442,150
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A MCPHERSON MSFC/R KING 51-Biological Sci

NCC 8-80 University of California - Riverside 2508
 ENHANCED DEWAR PROGRAM
Period *Obligations*
 05/26/1995-05/31/1996 FY95: \$150,000 TOTAL: \$150,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A MCPHERSON MSFC/R KING 51-Biological Sci

NGT 00-070-261 University of California - Riverside 2509
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
 05/15/1992-06/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 O A CHADWICK JPL/H ASHKENAS 55-Agriculture Sci

NAG 1-1051 University of California - San Diego 2510
 MONOLITH CATALYSTS FOR CLOSED-CYCLE CARBON DIOXIDE LASERS D
Period *Obligations*
 08/16/1989-03/31/1994 FY95: TOTAL: \$120,293
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R K HERZ LARC/D R SCHRYSER 43-Chem Engr
 LARC/L J ROSE

NAG 1-1193 University of California - San Diego 2511
 SUPERSONIC MIXING LAYERS WITH AND WITHOUT COMBUSTION
Period *Obligations*
 10/22/1990-06/30/1994 FY95: TOTAL: \$82,211
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P A LIBBY LARC/T B GATSKI 41-Aero Engr
 F A WILLIAMS LARC/J P DRUMMOND

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 1-1259 University of California - San Diego 2512
A STUDY OF CLOUD RADIATIVE FORCING AND FEEDBACK - FDP
Period Obligations
04/19/1991-04/07/1996 FY95: \$173,251 TOTAL: \$748,036
Prin. Invest. NASA Tech. Officer CASE Category
V RAMANATHAN LARC/B A WIELICKI 32-Geological Sci
LARC/J W YOUNGBLOOD

NAG 2-934 University of California - San Diego 2520
RADIATIVE EFFECTS OF ATMOSPHERIC AEROSOLS
Period Obligations
09/27/1994-04/30/1995 FY95: TOTAL: \$95,000
Prin. Invest. NASA Tech. Officer CASE Category
F P VALERO ARC/P PILEWSKIE 31-Atmos Sci
ARC/M V KLUG

NAG 1-1445 University of California - San Diego 2513
EXTENSION-BEND-TWIST-SHEAR COUPLING BEHAVIOR OF
PRETWISTED ADVANCED COMPOSITE BEAMS
Period Obligations
08/03/1992-12/31/1995 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
J B KOSMATKA LARC/R C LAKE 41-Aero Engr

NAG 2-977 University of California - San Diego 2521
BIOCHEMICAL ASSESSMENT OF STRESS IN CARDIAC TISSUE
Period Obligations
05/25/1995-01/31/1996 FY95: \$20,273 TOTAL: \$20,273
Prin. Invest. NASA Tech. Officer CASE Category
L L BRUNTON ARC/W E HINDS 51-Biological Sci
ARC/C M WINGET

NAG 1-1516 University of California - San Diego 2514
THE INTERACTION OF A SHOCK WITH SHEARED TURBULENCE NLPN
93-415
Period Obligations
06/29/1993-06/30/1996 FY95: \$25,000 TOTAL: \$97,260
Prin. Invest. NASA Tech. Officer CASE Category
S SARKAR LARC/J DRUMMOND 41-Aero Engr

NAG 3-1081 University of California - San Diego 2522
SCIENTIFIC SUPPORT FOR A PROPOSED SPACE SHUTTLE DR OPLET
BURNING EXPERIMENT
Period Obligations
11/01/1989-01/14/1995 FY95: TOTAL: \$362,510
Prin. Invest. NASA Tech. Officer CASE Category
F A WILLIAMS LERC/H D ROSS 49-Engr, NEC

NAG 1-1535 University of California - San Diego 2515
A HYBRID SIMULATION OF THE ACOUSTIC RADIATION FROM GRID
TURBULENCE
Period Obligations
09/20/1993-09/30/1995 FY95: \$30,000 TOTAL: \$94,246
Prin. Invest. NASA Tech. Officer CASE Category
S SARKAR LARC/W E ZORUMSKI 41-Aero Engr

NAG 3-1243 University of California - San Diego 2523
VAPOR-PRESSURE PUMPED HEAT-TRANSFER LOOP
Period Obligations
03/08/1991-10/24/1993 FY95: \$28 TOTAL: \$82,860
Prin. Invest. NASA Tech. Officer CASE Category
K O LUND LERC/K W BAKER 46-Mech Engr
LERC/M O DUSTIN

NAG 2-153 University of California - San Diego 2516
PIONEER 10 AND 11 DATA ANALYSIS
Period Obligations
01/01/1982-09/30/1996 FY95: \$170,000 TOTAL: \$1,834,842
Prin. Invest. NASA Tech. Officer CASE Category
W FILLIUS ARC/L E LASHER 19-Phys Sci, NEC
ARC/J R PHILLIPS

NAG 3-1248 University of California - San Diego 2524
HIGH-PRESSURE COMBUSTION OF BINARY-FUEL DROPLETS
Period Obligations
03/12/1991-12/14/1994 FY95: TOTAL: \$130,000
Prin. Invest. NASA Tech. Officer CASE Category
F A WILLIAMS LERC/H D ROSS 46-Mech Engr

NAG 2-653 University of California - San Diego 2517
ADAPTATION OF SKELETAL MUSCLE TO SPACEFLIGHT: CO SMOS
RHESUS PROJECT
Period Obligations
07/02/1990-10/31/1993 FY95: TOTAL: \$231,344
Prin. Invest. NASA Tech. Officer CASE Category
S FOWLER ARC/J P CONNOLLY 51-Biological Sci
ARC/R W BALLARD

NAG 3-1689 University of California - San Diego 2525
HIGH PRESSURE COMBUSTION OF BINARY FUEL SPRAYS
Period Obligations
12/28/1994-12/27/1995 FY95: \$27,000 TOTAL: \$27,000
Prin. Invest. NASA Tech. Officer CASE Category
F A WILLIAMS LERC/H D ROSS 46-Mech Engr

NAG 2-714 University of California - San Diego 2518
ADAPTIVE RESPONSE OF SLOW AND FAST SKELETAL MUSCLE IN
THE MONKEY TO SPACEFLIGHT: RHESUS PROJECT
Period Obligations
06/27/1991-03/31/1996 FY95: \$97,334 TOTAL: \$373,843
Prin. Invest. NASA Tech. Officer CASE Category
S BODINE-FOWLER ARC/C M WINGET 51-Biological Sci

NAG 5-236 University of California - San Diego 2526
EFFECTS OF GLOBAL TROPICAL WEATHER SATELLITE DATA ON
PREDICABILITY OF PLANETARY WAVES
Period Obligations
05/15/1982-09/30/1993 FY95: TOTAL: \$775,713
Prin. Invest. NASA Tech. Officer CASE Category
R C SOMERVILLE GSFC/M SUAREZ 31-Atmos Sci
J ROADS

NAG 2-873 University of California - San Diego 2519
A DISTRIBUTED COGNITION FIELD ANALYSIS OF THE USE OF TWO
ATC AUTOMATION TOOLS
Period Obligations
09/20/1993-09/30/1996 FY95: \$70,000 TOTAL: \$145,695
Prin. Invest. NASA Tech. Officer CASE Category
E L HUTCHINS ARC/K H OLSON 62-Social Aspects
ARC/T J DAVIS

NAG 5-1492 University of California - San Diego 2527
PHYSICS OF BOUNDARIES AND THEIR INTERACTION IN SPACE
PLASMAS
Period Obligations
01/08/1991-12/31/1995 FY95: \$310,000 TOTAL: \$1,412,570
Prin. Invest. NASA Tech. Officer CASE Category
N OMIDI GSFC/T J BIRMINGHAM 13-Physics
K B QUEST

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 5-1597 University of California - San Diego 2528
THEORETICAL CALCULATIONS OF SOLAR FLARE NEUTRONS AND
GAMMA RAYS TO SUPPORT GRO OBSERVATIONS
Period Obligations
05/09/1991-09/30/1996 FY95: \$131,213 TOTAL: \$410,472
Prin. Invest. NASA Tech. Officer CASE Category
R E LINGENFELTER GSFC/J NORRIS 11-Astronomy
GSFC/D A KNIFFEN

NAG 5-1630 University of California - San Diego 2529
GUARANTEED TIME OBSERVATIONS SUPPORT FOR FAINT OBJECT
SPECTROGRAPH (FOS) ON HST
Period Obligations
06/24/1991-10/31/1995 FY95: \$3,008,500 TOTAL: \$13,115,223
Prin. Invest. NASA Tech. Officer CASE Category
R HARMS GSFC/S SOBIESKI 11-Astronomy

NAG 5-1858 University of California - San Diego 2530
GUARANTEED TIME OBSERVATIONS OF THE HIGH RESOLUTION
N/SPECTROGRAPH OF THE HUBBLE SPACE TELESCOPE
Period Obligations
01/03/1992-11/14/1995 FY95: \$165,000 TOTAL: \$609,640
Prin. Invest. NASA Tech. Officer CASE Category
E BEAVER GSFC/A SMITH 11-Astronomy

NAG 5-1910 University of California - San Diego 2531
SPACE GEODETIC DETECTORS OF TECTONIC SIGNALS
Period Obligations
02/21/1992-02/29/1996 FY95: \$65,000 TOTAL: \$241,968
Prin. Invest. NASA Tech. Officer CASE Category
J B MINSTER GSFC/B G BILLS 32-Geological Sci

NAG 5-1914 University of California - San Diego 2532
PROGRAM FOR CONTINUED DEVELOPMENT AND USE OF OCEAN
ACOUSTIC/GPS GEODETIC TECHNIQUES
Period Obligations
02/26/1992-02/29/1996 FY95: \$150,000 TOTAL: \$670,000
Prin. Invest. NASA Tech. Officer CASE Category
F N SPIESS GSFC/B G BILLS 32-Geological Sci

NAG 5-1917 University of California - San Diego 2533
PERMANENT GPS GEODETIC ARRAY IN SOUTHERN CALIFORNIA
Period Obligations
04/20/1992-04/30/1996 FY95: \$129,000 TOTAL: \$498,000
Prin. Invest. NASA Tech. Officer CASE Category
Y BOCK GSFC/B G BILLS 32-Geological Sci

NAG 5-1932 University of California - San Diego 2534
A FLINN STATION AT PINON FLAT OBSERVATORY
Period Obligations
03/04/1992-03/14/1996 FY95: \$40,000 TOTAL: \$160,000
Prin. Invest. NASA Tech. Officer CASE Category
D C AGNEW GSFC/B G BILLS 32-Geological Sci

NAG 5-1977 University of California - San Diego 2535
SEARCH FOR THE X-RAY COUNTERPART OF THE 5 MARCH 1979
GAMMA RAY BURST
Period Obligations
05/04/1992-05/14/1994 FY95: TOTAL: \$17,984
Prin. Invest. NASA Tech. Officer CASE Category
R E ROTHSCHILD GSFC/R PETRE 11-Astronomy

NAG 5-1995 University of California - San Diego 2536
THE MEAN HIGH ENERGY X SPECTRUM OF ACTIVE GALACTIC
NUCLEI
Period Obligations
06/12/1992-06/14/1994 FY95: TOTAL: \$50,279
Prin. Invest. NASA Tech. Officer CASE Category
Y REPHAELI GSFC/D WEST 11-Astronomy

NAG 5-2059 University of California - San Diego 2537
THE SPECTRAL ENERGY DISTRIBUTION OF HIGH-REDSHIFT QUASARS
OBSERVED WITH ROSAT AND THE HST
Period Obligations
08/05/1992-08/14/1995 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
R D COHEN GSFC/R PETRE 11-Astronomy

NAG 5-2127 University of California - San Diego 2538
THE X-RAY TO IR CONTINUUM OF PG 1522+101
Period Obligations
10/28/1992-01/31/1996 FY95: TOTAL: \$10,817
Prin. Invest. NASA Tech. Officer CASE Category
R D COHEN GSFC/D WEST 11-Astronomy

NAG 5-2197 University of California - San Diego 2539
AN INVESTIGATION OF INTERCLUSTER GAS IN SUPERCLUSTERS
CORES
Period Obligations
03/01/1993-02/28/1994 FY95: TOTAL: \$8,666
Prin. Invest. NASA Tech. Officer CASE Category
Y REPHAELI GSFC/R PETRE 11-Astronomy

NAG 5-2236 University of California - San Diego 2540
OSSE MEASUREMENTS OF THE COMA CLUSTER
Period Obligations
04/08/1993-04/14/1996 FY95: \$10,000 TOTAL: \$49,772
Prin. Invest. NASA Tech. Officer CASE Category
Y REPHAELI GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2238 University of California - San Diego 2541
OBSERVATIONAL AND MODELING STUDIES OF CLOUDS AND THE
HYDROLOGICAL CYCLE
Period Obligations
04/09/1993-04/14/1996 FY95: \$75,000 TOTAL: \$220,000
Prin. Invest. NASA Tech. Officer CASE Category
R SOMERVILLE GSFC/M J SUAREZ 11-Astronomy

NAG 5-2288 University of California - San Diego 2542
ISOTOPIC COMPOSITION OF METHANE PRODUCED AND CONSUMED
IN BOREAL ECOSYSTEMS
Period Obligations
06/22/1993-06/30/1996 FY95: \$80,000 TOTAL: \$190,000
Prin. Invest. NASA Tech. Officer CASE Category
M WAHLEN GSFC/F G HALL 39-Env Sci, NEC
GSFC/P SELLERS

NAG 5-2333 University of California - San Diego 2543
ORBITAL GAMMA RAY INSTRUMENT FOR PLANETARY MISSIONS
Period Obligations
07/27/1993-07/31/1994 FY95: TOTAL: \$9,964
Prin. Invest. NASA Tech. Officer CASE Category
J R ARNOLD GSFC/J I TROMBKA 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 5-2479 University of California - San Diego 2544
 THE NATURE OF EMISSION FROM X-RAY LUMINOUS GALAXIE S
Period *Obligations*
 01/14/1994-07/31/1995 FY95: TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D GRUBER GSFC/N WHITE 11-Astronomy

NAG 5-5025 University of California - San Diego 2552
 LABORATORY INVESTIGATIONS OF THE OCEAN SURFACE
 ROUGHNESS STURCTURES: THEIR GENERATION AND EVOLUTION
Period *Obligations*
 07/07/1994-07/07/1995 FY95: TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B JAEHNE GSFC/S R LONG 33-Oceanography
 GSFC/N E HUANG

NAG 5-2517 University of California - San Diego 2545
 THE NATURE OF X-RAY EMISSION FROM NARROW-LINE RADI O
 GALAXIES
Period *Obligations*
 02/21/1994-03/14/1996 FY95: \$26,339 TOTAL: \$41,339
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R D COHEN GSFC/N WHITE 11-Astronomy

NAG 8-1120 University of California - San Diego 2553
 JOVE
Period *Obligations*
 12/21/1994-05/31/1996 FY95: \$50,999 TOTAL: \$50,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A STURZ MSFC/F SIX 33-Oceanography
 S C GRAY

NAG 5-2741 University of California - San Diego 2546
 HIGH ENERGY SPECTRA OF HIGH REDSHIFT QSOS
Period *Obligations*
 10/14/1994-04/14/1996 FY95: \$18,000 TOTAL: \$18,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D BAND GSFC/N WHITE 11-Astronomy

NAG 9-33 University of California - San Diego 2554
 HISTORCL STDYS EXTRATERRESTRIAL MATERIAL
Period *Obligations*
 02/01/1983-06/01/1994 FY95: TOTAL: \$1,447,790
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J R ARNOLD JSC/I D BROWNE 12-Chemistry

NAG 5-2811 University of California - San Diego 2547
 THEORETICAL STUDIES IN GAMMA-RAY ASTROPHYSICS
Period *Obligations*
 12/08/1994-10/31/1996 FY95: \$138,000 TOTAL: \$138,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R E LINGENFELTER GSFC/D WEST 11-Astronomy

NAG 9-49 University of California - San Diego 2555
 INVESTIGATE EXTRATERRESTRIL MATERIALS
Period *Obligations*
 02/01/1988-03/01/1994 FY95: TOTAL: \$2,590,859
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G W LUGMAIR JSC/I D BROWNE 32-Geological Sci

NAG 5-2965 University of California - San Diego 2548
 IMAGING OF IE0657-56: A DISTANT CLUSTER WITH A
 GRAVITATIONAL ARC
Period *Obligations*
 06/12/1995-12/14/1996 FY95: \$4,678 TOTAL: \$4,678
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W TUCKER GSFC/R PETRE 11-Astronomy

NAG 9-271 University of California - San Diego 2556
 PULMONARY FUNCTION DURING MICROGRAVITY
Period *Obligations*
 03/11/1988-09/30/1995 FY95: TOTAL: \$281,132
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J B WEST JSC/J B CHARLES 56-Medical Sciences

NAG 5-2967 University of California - San Diego 2549
 MAIN GEOMAGNETIC FIELD MODELS FROM ORSTD AND MAGSAT
 DATA VIA A RIGOROUS GENERAL INVERSE THEORY
Period *Obligations*
 06/13/1995-06/30/1996 FY95: \$39,610 TOTAL: \$39,610
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G E BACKUS GSFC/P T TAYLOR 32-Geological Sci

NAG 9-706 University of California - San Diego 2557
 CALIF SPACE GRANT STUDENT TRAINING PROGRAM IN
 DEVELOPING A RESEARCH AND EDUCATIONAL DATABASE OF
 EARTH
Period *Obligations*
 11/29/1993-07/01/1994 FY95: TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S K RIDE JSC/D E PITTS 19-Phys Sci, NEC

NAG 5-2968 University of California - San Diego 2550
 CORE AND CRUSTAL GEOMAGNETIC FIELD MONITORING USING
 ORSTD AND MAGSAT DATA
Period *Obligations*
 06/13/1995-06/30/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C CONSTABLE GSFC/P TAYLOR 32-Geological Sci

NAGW 449 University of California - San Diego 2558
 HIGH RESOLUTION GAMMA-RAY SPECTROSCOPY OF COSMIC
 SOURCES
Period *Obligations*
 03/15/1983-10/31/1996 FY95: \$782,005 TOTAL: \$10,814,860
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J L MATTESON HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAG 5-3062 University of California - San Diego 2551
 THE HISTORY OF BARYONS
Period *Obligations*
 09/22/1995-09/14/1996 FY95: \$70,000 TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G M FULLER GSFC/D WEST 11-Astronomy

NAGW 897 University of California - San Diego 2559
 NO COST EXTENSION UNDER THE ELIMINATION OF UNNECESSARY
 ADMIN
Period *Obligations*
 02/11/1991-09/30/1994 FY95: TOTAL: \$195,187
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J B WEST HQ/R J WHITE 51-Biological Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 1031 University of California - San Diego 2560
RUST MINERALS AS TEMPLATES FOR ORGANIC MOLECULES
Period *Obligations*
01/01/1987-12/31/1995 FY95: \$88,760 TOTAL: \$779,566
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G ARRHENIUS HQ/J D RUMMEL 51-Biological Sci

NAGW 1150 University of California - San Diego 2561
USE OF GENERALIZED ADIABETIC THEORY TO STUDY
MAGNETOSPHERIC
Period *Obligations*
09/09/1987-09/30/1994 FY95: TOTAL: \$426,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E C WHIPPLE HQ/M M MELLOTT 13-Physics
HQ/T W PERRY

NAGW 1502 University of California - San Diego 2562
SMALL BODIES IN THE SOLAR SYSTEM COMETS
Period *Obligations*
11/14/1988-11/30/1994 FY95: TOTAL: \$470,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D A MENDIS HQ/J T BERGSTRALH 11-Astronomy

NAGW 1806 University of California - San Diego 2563
A KINETIC STUDY OF THE SOLAR WIND COMA INTERACTION
Period *Obligations*
07/11/1989-08/31/1995 FY95: \$16,500 TOTAL: \$329,639
Prin. Invest. *NASA Tech. Officer* *CASE Category*
N OMIDI HQ/M M MELLOTT 13-Physics
HQ/T W PERRY

NAGW 1952 University of California - San Diego 2564
RESEARCH ON CLIMATE AND OCEAN DYNAMICS USING ERS-1
OBSERVATIONS
Period *Obligations*
02/07/1990-05/31/1995 FY95: \$40,000 TOTAL: \$210,132
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T P BARNETT HQ/G S LAGERLOEF 31-Atmos Sci
HQ/W S WILSON

NAGW 1970 University of California - San Diego 2565
THEORETICAL STUDIES IN GAMMA-RAY ASTROPHYSICS
Period *Obligations*
01/05/1990-04/30/1995 FY95: TOTAL: \$449,661
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E LINGENFELTER HQ/L J KALUZIENSKI 11-Astronomy

NAGW 2002 University of California - San Diego 2566
HELIOS PHOTOMETER CHARACTERIZATION OF INTERPLANETARY
STRUCTURES
Period *Obligations*
05/04/1990-02/28/1995 FY95: TOTAL: \$270,940
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B V JACKSON HQ/W V JONES 13-Physics
HQ/J C LING

NAGW 2034 University of California - San Diego 2567
GLOBAL ATMOSPHERIC GASES EXPERIMENT (GAGE)
Period *Obligations*
07/16/1990-01/31/1996 FY95: \$429,131 TOTAL: \$2,559,247
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R F WEISS HQ/M J KURYLO 31-Atmos Sci
HQ/M J PRATHER

NAGW 2119 University of California - San Diego 2568
NAGW-2119/UNIV OF CALIF @ SAN DIEGO/QSO ABSORPTION AND
GALAXY EVOLUTION FROM REDSHIFT ZERO TO FOUR
Period *Obligations*
05/30/1990-12/31/1994 FY95: TOTAL: \$883,822
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A M WOLFE HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 2251 University of California - San Diego 2569
NAGW-2251/UNIV CA/ISOTOPIC FRACTIONATION PROCESSES
DURING PRE-SOLAR GRAIN FORMATION
Period *Obligations*
05/23/1991-10/31/1995 FY95: \$38,576 TOTAL: \$184,576
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M H THIEMENS HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2252 University of California - San Diego 2570
NAGW-2252/UNIV OF CA @ SAN DIEGO/DUST AND PLASMA
EFFECTS IN THE FORMATION OF SOLAR SYSTEMS
Period *Obligations*
03/11/1991-04/30/1995 FY95: TOTAL: \$130,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A MENDIS HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2542 University of California - San Diego 2571
CARBON AND HYDROGEN ISOTOPE COMPOSITION AND 14C
CONCENTRATION IN METHANE FROM SOURCES
Period *Obligations*
10/28/1991-06/30/1994 FY95: TOTAL: \$303,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M WAHLEN HQ/A C JANETOS 31-Atmos Sci
HQ/D E WICKLAND

NAGW 2577 University of California - San Diego 2572
SURFACE CHEMICAL COMPOSITION DETERMINATION FROM THE
MARS '94 GAMMA RAY PROJECT
Period *Obligations*
08/12/1991-06/30/1995 FY95: \$15,000 TOTAL: \$76,260
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R ARNOLD HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2609 University of California - San Diego 2573
PRODUCTION AND PROPAGATION OF SOLAR FLARE CHARGED
PARTICLE SECONDARY
Period *Obligations*
07/15/1991-02/28/1995 FY95: TOTAL: \$105,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E LINGENFELTER HQ/W V JONES 13-Physics
HQ/J C LING

NAGW 2618 University of California - San Diego 2574
ELECTRON DYNAMICS AND TRANSPORT PROPERTIES AT PLASMA
DISCONTINUITIES
Period *Obligations*
07/18/1991-05/31/1996 FY95: \$47,300 TOTAL: \$237,073
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D KRAUSS-VARBAN HQ/M M MELLOTT 13-Physics
HQ/J D BOHLIN

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 2774 University of California - San Diego 2575
 OCEAN COLOR REMOTE SENSING DURING THE 1992 RACER C
 AMPAIGN USING THE AIRBORNE POLDER INST.
Period Obligations
 11/15/1991-12/31/1993 FY95: TOTAL: \$272,004
Prin. Invest. NASA Tech. Officer CASE Category
 R FROUIN HQ/B G MITCHELL 33-Oceanography
 HQ/D E WICKLAND

NAGW 3035 University of California - San Diego 2582
 NAGW-3035/UNIV CA @ SAN DIEGO/GLOBAL GEODYNAMIC
 APPLICATIONS OF SATELLITE ALTIMETRY
Period Obligations
 04/17/1992-12/31/1994 FY95: TOTAL: \$218,000
Prin. Invest. NASA Tech. Officer CASE Category
 D T SANDWELL HQ/R E MURPHY 32-Geological Sci
 HQ/D M BUTLER

NAGW 2881 University of California - San Diego 2576
 THE CHEMISTRY OF EARLY SELF-REPLICATING SYSTEMS
Period Obligations
 02/26/1992-12/31/1995 FY95: \$942,000 TOTAL: \$3,751,000
Prin. Invest. NASA Tech. Officer CASE Category
 S L MILLER HQ/R J WHITE 59-Life Sci, NEC

NAGW 3127 University of California - San Diego 2583
 MID-IRREDIR OBSERVATIONAL AND THEORETICAL STUDIES O F
 STAR FORMATION AND EARLY SOLAR SYSTEMS
Period Obligations
 07/15/1992-05/31/1995 FY95: TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 B JONES HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2946 University of California - San Diego 2577
 EXPERIMENTAL MEASUREMENT AND THEORETICAL MODELLING OF
 MICROWAVE SCATTERING
Period Obligations
 03/06/1992-12/31/1994 FY95: TOTAL: \$264,428
Prin. Invest. NASA Tech. Officer CASE Category
 W K MELVILLE HQ/J S THEON 33-Oceanography

NAGW 3128 University of California - San Diego 2584
 USE OF DZCS DATA IN MODELING OCEAN SEASONAL THERMO
 LINE
Period Obligations
 07/24/1992-04/30/1996 FY95: \$45,000 TOTAL: \$298,124
Prin. Invest. NASA Tech. Officer CASE Category
 P NIILER HQ/R E MURPHY 33-Oceanography
 HQ/J A KAYE

NAGW 2964 University of California - San Diego 2578
 ANALYSIS OF LONG-TERM CLOUD COVER, RADIATIVE FLUXE S,
 AND SEA SURFACE TEMPERATURES IN THE EASTERN
Period Obligations
 03/20/1992-12/31/1995 FY95: \$168,697 TOTAL: \$642,351
Prin. Invest. NASA Tech. Officer CASE Category
 J J SIMPSON HQ/J C DODGE 33-Oceanography
 HQ/R A SCHIFFER

NAGW 3285 University of California - San Diego 2585
 NAGW-3285/SCRIPPS INST. OF OCEANOGRAPHY/ISOTOPIC,
 CHEMICAL, AND MINERALOGICAL INVESTIGATIONS
Period Obligations
 11/27/1992-11/30/1995 FY95: \$322,283 TOTAL: \$928,498
Prin. Invest. NASA Tech. Officer CASE Category
 G W LUGMAIR HQ/H C BRINTON 32-Geological Sci

NAGW 2966 University of California - San Diego 2579
 GEOMAGNETIC FIELD MODELS INCORPORATING PHYSICAL CO
 NSTRAINTS ON THE SECULAR VARIATION
Period Obligations
 03/11/1992-12/31/1993 FY95: TOTAL: \$145,424
Prin. Invest. NASA Tech. Officer CASE Category
 C CONSTABLE HQ/A J ANDERSON 32-Geological Sci
 HQ/N B DOUGLAS

NAGW 3428 University of California - San Diego 2586
 FRAGMENTARY SOLAR SYSTEM HISTORY
Period Obligations
 03/01/1993-12/31/1995 FY95: \$120,000 TOTAL: \$357,003
Prin. Invest. NASA Tech. Officer CASE Category
 K MARTI HQ/H C BRINTON 32-Geological Sci

NAGW 2967 University of California - San Diego 2580
 HYDROMAGNETIC CONDITIONS NEAR THE CORE-MANTLE BOUN
 DARY
Period Obligations
 03/10/1992-03/14/1994 FY95: TOTAL: \$82,000
Prin. Invest. NASA Tech. Officer CASE Category
 G BACKUS HQ/R E MURPHY 32-Geological Sci
 HQ/D M BUTLER

NAGW 3498 University of California - San Diego 2587
 NAGW-3498/UNIV CALIF SAN DIEGO/INVERSION SCHEMES P
 ARAMETER DATA
Period Obligations
 04/29/1993-12/31/1995 FY95: \$135,000 TOTAL: \$330,535
Prin. Invest. NASA Tech. Officer CASE Category
 R FROUIN HQ/M BALTUCK 33-Oceanography
 HQ/R C HARRISS

NAGW 2987 University of California - San Diego 2581
 ASSESSMENT OF ANTHROPOGENIC AND CLIMATE IMPACTS ON
 THE GLOBAL CARBON CYCLE
Period Obligations
 03/20/1992-06/30/1996 FY95: \$140,000 TOTAL: \$650,000
Prin. Invest. NASA Tech. Officer CASE Category
 C D KEELING HQ/R E MURPHY 39-Env Sci, NEC
 HQ/D M BUTLER

NAGW 3503 University of California - San Diego 2588
 UNIV CALIF SAN DIEGO/ANALYSIS OF TRENCH/OUTER RISE
 TOPOGRAPHY ON VENUS
Period Obligations
 04/12/1993-03/31/1995 FY95: TOTAL: \$96,012
Prin. Invest. NASA Tech. Officer CASE Category
 D T SANDWELL HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3551 University of California - San Diego 2589
 METEORITIC SULFUR ISOTOPIC ANALYSIS
Period Obligations
 04/23/1993-02/29/1996 FY95: \$42,000 TOTAL: \$162,807
Prin. Invest. NASA Tech. Officer CASE Category
 M THIEMANS HQ/J BOYCE 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 3795 University of California - San Diego 2590
 NAGW-3795/UNIV CALIF SAN DIEGO/PHYCOERYTHRIN CONTA INING
 PHYTOPLANKTON TO REMOTELY SENSED SIGNALS
Period Obligations
 11/18/1993-05/31/1996 FY95: \$45,000 TOTAL: \$110,000
Prin. Invest. NASA Tech. Officer CASE Category
 M VERNET HQ/D E WICKLAND 33-Oceanography
 R ITURRIAGA HQ/A C JANETOS

NAGW 3896 University of California - San Diego 2591
 NAGW-3896/B SCRIPPS INST. OF OCEAN. 'GLOBAL SURF.
 ULTRAVIOLET RADIATION CLIMATOL..' 36-MONTHS
Period Obligations
 03/16/1994-03/31/1997 FY95: \$103,595 TOTAL: \$223,595
Prin. Invest. NASA Tech. Officer CASE Category
 D LUBIN HQ/A KAYE 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 3932 University of California - San Diego 2592
 LARGE AND SMALL SCALES IN GEOMAGNETIC FIELD MODELING
Period Obligations
 04/08/1994-01/31/1996 FY95: \$76,082 TOTAL: \$149,645
Prin. Invest. NASA Tech. Officer CASE Category
 C CONSTABLE HQ/M BALTUCK 32-Geological Sci

NAGW 3975 University of California - San Diego 2593
 EVOLUTION OF WAVE SPECTRA AND ION DISTRIBUTIONS IN THE
 MAGNETOSHEATH
Period Obligations
 06/10/1994-04/30/1997 FY95: \$47,800 TOTAL: \$92,800
Prin. Invest. NASA Tech. Officer CASE Category
 M E MCKEAN HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAGW 4018 University of California - San Diego 2594
 THEORETICAL STUDIES OF MAGNETOSPHERIC TEARING
Period Obligations
 06/01/1994-05/31/1997 FY95: \$42,000 TOTAL: \$82,000
Prin. Invest. NASA Tech. Officer CASE Category
 K B QUEST HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAGW 4073 University of California - San Diego 2595
 TIME SERIES MID-IR IMAGING OF JUPITER DURING COMET 1993E
 IMPACT
Period Obligations
 07/15/1994-06/30/1996 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 B JONES HQ/J H RAHE 11-Astronomy

NAGW 4238 University of California - San Diego 2596
 NOBEL GAS SYSTEMATICS IN PLANETARY ATMOSPHERES:
 SIMULATION OF FRACTIONATION MECHANISMS USING ION
Period Obligations
 01/11/1995-09/30/1996 FY95: \$70,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
 K MARTI HQ/J BERGSTRALH 31-Atmos Sci

NAGW 4264 University of California - San Diego 2597
 THE SOLAR WIND INTERACTION WITH COMETS AND OTHER N
 ON-MAGNETIZED BODIES
Period Obligations
 01/20/1995-11/30/1995 FY95: \$60,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 A MENDIS HQ/J BERSTARALH 31-Atmos Sci
 K FLAMMER

NAGW 4311 University of California - San Diego 2598
 BOUNDS ON LITHOSPHERIC THICKNESS ON VENUS FROM MAG
 ELLAN GRAVITY AND TOPOGRAPHY DATA
Period Obligations
 02/13/1995-08/06/1995 FY95: TOTAL: \$0
Prin. Invest. NASA Tech. Officer CASE Category
 C JOHNSON HQ/H BRINTON 11-Astronomy

NAGW 4372 University of California - San Diego 2599
 PULMONARY DEPOSITION OF AEROSOLS IN MICROGRAVITY
Period Obligations
 03/31/1995-02/14/1998 FY95: \$181,508 TOTAL: \$181,508
Prin. Invest. NASA Tech. Officer CASE Category
 G K PRISK HQ/F SULZMAN 59-Life Sci, NEC

NAGW 4422 University of California - San Diego 2600
 THE ORION PHENOMENON: PARTICLE FLUENCES IN THE EAR LY
 SOLAR NEBULA
Period Obligations
 06/02/1995-10/31/1995 FY95: \$50,267 TOTAL: \$50,267
Prin. Invest. NASA Tech. Officer CASE Category
 K MARTI HQ/P G ROGERS 11-Astronomy

NAGW 4497 University of California - San Diego 2601
 COSMOLOGICAL CENSUS OF BARYON DENSITY IONIZATION AND
 ABUNDANCE
Period Obligations
 05/16/1995-04/30/1996 FY95: \$80,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 D TYTLER HQ/G R RIEGLER 11-Astronomy

NAGW 4548 University of California - San Diego 2602
 MICROGRAVITY IN VITRO MODEL OF BONE: FLOW EFFECTS
Period Obligations
 06/30/1995-02/28/1996 FY95: \$54,732 TOTAL: \$54,732
Prin. Invest. NASA Tech. Officer CASE Category
 J A FRANGOS HQ/V THORNE 51-Biological Sci

NAGW 4684 University of California - San Diego 2603
 RADIATIVE EFFECTS OF AEROSOLS
Period Obligations
 08/16/1995-07/31/1996 FY95: \$134,560 TOTAL: \$134,560
Prin. Invest. NASA Tech. Officer CASE Category
 F J VALERO HQ/R A SCHIFFER 11-Astronomy

NAGW 4726 University of California - San Diego 2604
 APPLICATION AND DEVELOPMENT OF ADVANCED IMAGE RECO
 NSTRUCTION ALGORITHMS FOR NASA ASTROPHYSICS DATA
Period Obligations
 08/28/1995-07/31/1997 FY95: \$146,699 TOTAL: \$146,699
Prin. Invest. NASA Tech. Officer CASE Category
 R C PUETTER HQ/D A HOLLAND 22-Computer Science
 HQ/J H BREDEKAMP

NAGW 4777 University of California - San Diego 2605
 IMPROVED ESTIMATES OF CLEAR SKY LONGWAVE FLUX AND
 APPLICATION TO THE TROPICAL GREENHOUSE EFFECT
Period Obligations
 09/16/1995-09/14/1999 FY95: \$30,478 TOTAL: \$30,478
Prin. Invest. NASA Tech. Officer CASE Category
 W COLLINS HQ/R A SCHIFFER 33-Oceanography

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAS 5-30720 University of California - San Diego 2606
HIGH ENERGY X-RAY TIMING EXPERIMENT FOR XTE PROJECT
Period Obligations
11/01/1989-09/30/1997 FY95: \$1,172,600 TOTAL: \$25,737,961
Prin. Invest. NASA Tech. Officer CASE Category
R E ROTHSCHILD GSFC/W D DAVIS 11-Astronomy

NAS 5-32069 University of California - San Diego 2607
SCANNING AND POINTING DATA PRODUCTS
Period Obligations
11/02/1992-11/01/1995 FY95: TOTAL: \$74,500
Prin. Invest. NASA Tech. Officer CASE Category
D E GRUBER GSFC/D WEST 22-Computer Science

NAS 5-33019 University of California - San Diego 2608
GLRS SCIENCE TEAM MEMBER STUDY
Period Obligations
10/05/1989-12/31/1995 FY95: \$105,000 TOTAL: \$288,000
Prin. Invest. NASA Tech. Officer CASE Category
J B MINSTER GSFC/G SOFFEN 39-Env Sci, NEC

NAS 8-36081 University of California - San Diego 2609
R (SD)
Period Obligations
06/01/1984-04/30/1997 FY95: \$347,000 TOTAL: \$3,941,749
Prin. Invest. NASA Tech. Officer CASE Category
J L MATTESON MSFC/G J FISHMAN 11-Astronomy

NAS 9-16037 University of California - San Diego 2610
LIFE SCI FLT EXPER PULMONARY FUNCTION
Period Obligations
01/17/1980-06/01/1995 FY95: TOTAL: \$6,821,085
Prin. Invest. NASA Tech. Officer CASE Category
J B WEST JSC/C M BUNTIN 59-Life Sci, NEC

NAS 9-18764 University of California - San Diego 2611
STUDIES OF PULMONARY FUNCTION IN WEIGHTLESSNESS
Period Obligations
10/02/1992-01/31/1997 FY95: \$1,165,000 TOTAL: \$1,775,112
Prin. Invest. NASA Tech. Officer CASE Category
J B WEST JSC/V ELLERBE 59-Life Sci, NEC

NAS 9-19209 University of California - San Diego 2612
SLEEP AND RESPIRATION IN MICROGRAVITY
Period Obligations
10/06/1994-09/30/1995 FY95: \$46,373 TOTAL: \$46,373
Prin. Invest. NASA Tech. Officer CASE Category
J B WEST JSC/S SAWYER 59-Life Sci, NEC

NASW 4507 University of California - San Diego 2613
RESEARCH STUDY ENTITLED, THE RESEARCH DEVELOPMENT AND
TECHNOLOGY TRANSFER OF NEURAL NETWORK-BASED
Period Obligations
07/11/1990-07/10/1994 FY95: TOTAL: \$747,212
Prin. Invest. NASA Tech. Officer CASE Category
P M CHAU HQ/L D CAUDILL 49-Engr, NEC

NCA 2-791 University of California - San Diego 2614
AN INVESTIGATION OF THE MICROPHYSICAL PROPERTIES AND
CLIMATIC IMPACT OF TROPICAL CIRRUS ANVILS
Period Obligations
02/12/1993-03/19/1995 FY95: TOTAL: \$79,402
Prin. Invest. NASA Tech. Officer CASE Category
V RAMANTHAN ARC/B TOON 31-Atmos Sci

NCC 2-591 University of California - San Diego 2615
DISTRIBUTED COGNITION IN AVIATION
Period Obligations
03/10/1989-07/31/1995 FY95: TOTAL: \$858,742
Prin. Invest. NASA Tech. Officer CASE Category
D A NORMAN ARC/E A PALMER 62-Social Aspects
E L HUTCHINIS ARC/R R HOFSTRAND

NCC 2-792 University of California - San Diego 2616
A PILOT'S LANDING ASSISTANCE SYSTEM
Period Obligations
04/22/1993-07/31/1996 FY95: \$80,000 TOTAL: \$240,000
Prin. Invest. NASA Tech. Officer CASE Category
R JAIN ARC/P N SMITH 22-Computer Science
ARC/V H CHENG

NCC 2-820 University of California - San Diego 2617
MULTIDIMENSIONAL NUMERICAL MODELING OF CIRRUS CLOUDS
Period Obligations
08/16/1993-06/30/1995 FY95: TOTAL: \$50,446
Prin. Invest. NASA Tech. Officer CASE Category
P J FLATAU ARC/D L WESTPHAL 31-Atmos Sci
ARC/O B TOON

NCC 2-852 University of California - San Diego 2618
EXERCISE WITHIN LBNP TO PRODUCE ARTIFICIAL GRAVITY
Period Obligations
04/21/1994-11/30/1995 FY95: \$339,395 TOTAL: \$429,395
Prin. Invest. NASA Tech. Officer CASE Category
A R HARGENS ARC/R D RODRIGUES 56-Medical Sciences

NCC 2-888 University of California - San Diego 2619
NEUROMUSCULAR DEVELOPMENT AND REGULATION OF MYOSIN
EXPRESSION
Period Obligations
02/16/1995-10/14/1996 FY95: \$316,220 TOTAL: \$316,220
Prin. Invest. NASA Tech. Officer CASE Category
S C BODINE-FOWLER ARC/D A REISS-BUBENHEIM 51-Biological Sci
R L LIEBER ARC/C M WINGET

NCC 3-309 University of California - San Diego 2620
PASSIVE VIBRATION REDUCTION OF ADVANCED COMPOSITE
PRETWISTED PLATES USING INTEGRAL DAMPING MATERIALS
Period Obligations
05/28/1993-10/31/1995 FY95: \$49,687 TOTAL: \$74,687
Prin. Invest. NASA Tech. Officer CASE Category
J B KOSMATKA LERC/O MEHMER 46-Mech Engr
LERC/G STEFKO

NCC 3-407 University of California - San Diego 2621
SCIENTIFIC SUPPORT FOR A PROPOSED SPACE SHUTTLE DROPLET
BURNING EXPERIMENT
Period Obligations
02/28/1995-02/27/1996 FY95: \$90,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
F A WILLIAMS LERC/H D ROSS 49-Engr, NEC

NCC 5-48 University of California - San Diego 2622
BIO-OPTICAL DATABASES IN SUPPORT OF SEAWIFS ALGORITHM
DEVELOPMENT
Period Obligations
07/08/1992-12/31/1994 FY95: TOTAL: \$159,566
Prin. Invest. NASA Tech. Officer CASE Category
B G MITCHELL GSFC/C R MCCLAIN 33-Oceanography
GSFC/S B HOOKER

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-040-005 University of California - San Diego 2623
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
 10/02/1989-01/31/1998 FY95: \$620,278 TOTAL: \$2,663,278
Prin. Invest. NASA Tech. Officer CASE Category
 J ARNOLD HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-050-854 University of California - San Diego 2624
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/04/1991-08/31/1994 FY95: TOTAL: \$63,334
Prin. Invest. NASA Tech. Officer CASE Category
 T HAYWARD HQ/F C OWENS 33-Oceanography

NGT 00-050-935 University of California - San Diego 2625
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/21/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 K QUEST HQ/J K ALEXANDER 13-Physics

NGT 00-051-060 University of California - San Diego 2626
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/27/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D A MENDIS HQ/D HOLLAND 13-Physics

NGT 00-051-274 University of California - San Diego 2627
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A M SCHNEIDER JPL/C HIX 49-Engr, NEC

NGT 00-070-317 University of California - San Diego 2628
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 06/30/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A SCHNEIDER HQ/D K RUSSELL 49-Engr, NEC

NAG 2-779 University of California - San Francisco 2629
 NEURAL MECHANISMS BY WICH GRAVITATIONAL STIMULI AND
 STRESS AFFECT THE SECRETION OF RENIN AND OTHER
Period Obligations
 04/16/1992-01/31/1995 FY95: TOTAL: \$174,600
Prin. Invest. NASA Tech. Officer CASE Category
 I A REID ARC/C E WADE 51-Biological Sci
 L C KEIL

NAG 2-981 University of California - San Francisco 2630
 MICROGRAVITY EFFECTS ON BONE CELL GENE EXPRESSION
Period Obligations
 05/24/1995-02/14/1996 FY95: \$126,586 TOTAL: \$126,586
Prin. Invest. NASA Tech. Officer CASE Category
 M HUGHES-FULFORD ARC/C M WINGET 51-Biological Sci
 ARC/G C JAHNS

NAG 9-603 University of California - San Francisco 2631
 ADVANCING METHODS OF BONE MINERAL DENSITY AND
 STRUCTURE ASSESSMENT
Period Obligations
 06/01/1992-06/01/1995 FY95: TOTAL: \$238,800
Prin. Invest. NASA Tech. Officer CASE Category
 H K GENANT JSC/V S SCHNEIDER 56-Medical Sciences

NAG 9-689 University of California - San Francisco 2632
 EFFECTS OF DISUSE AND RELOADING ON SUBCHONDRAL
 TRABECULAR BONE IN THE ADULT GREYHOUND DOG
Period Obligations
 05/12/1993-06/01/1996 FY95: TOTAL: \$161,948
Prin. Invest. NASA Tech. Officer CASE Category
 N E LANE JSC/L TAGGART 56-Medical Sciences

NAG 9-812 University of California - San Francisco 2633
 EXPANSION AND DIFFERENTIATION OF CELLS
Period Obligations
 09/19/1995-11/29/1995 FY95: \$185,000 TOTAL: \$185,000
Prin. Invest. NASA Tech. Officer CASE Category
 B BHATNAGAR JSC/N PELLIS 51-Biological Sci

NAGW 1244 University of California - San Francisco 2634
 MECHANISM OF CONTROL OF BONE GROWTH BY
 PROSTAGLANDINS
Period Obligations
 12/28/1987-12/31/1995 FY95: \$122,329 TOTAL: \$679,058
Prin. Invest. NASA Tech. Officer CASE Category
 M H FULFORD HQ/T W HALSTEAD 51-Biological Sci

NAGW 4386 University of California - San Francisco 2635
 MOLECULAR ANALYSIS OF HZE DAMAGE IN TRANSGENIC MICE
Period Obligations
 04/14/1995-02/14/1998 FY95: \$153,990 TOTAL: \$153,990
Prin. Invest. NASA Tech. Officer CASE Category
 L H LUTZE-MANN HQ/F M SULZMAN 59-Life Sci, NEC

NAGW 4625 University of California - San Francisco 2636
 ROLE OF INTEGRINS IN MECHANICAL LOADING OF OSTEOBL
 ASTS
Period Obligations
 07/11/1995-06/30/1998 FY95: \$161,771 TOTAL: \$161,771
Prin. Invest. NASA Tech. Officer CASE Category
 R K GIBBUS HQ/V SCHNEIDER 56-Medical Sciences

NAS 9-16227 University of California - San Francisco 2637
 LIFE SCI EXPR/MINERAL LOSS/EXCRETION
Period Obligations
 10/21/1980-07/01/1995 FY95: \$17,000 TOTAL: \$1,578,697
Prin. Invest. NASA Tech. Officer CASE Category
 C D ARMAUD JSC/K E NEWKIRK 59-Life Sci, NEC

NAS 9-18769 University of California - San Francisco 2638
 SLS-3 FLIGHT EXPERIMENT
Period Obligations
 10/20/1992-03/31/1997 FY95: \$400,000 TOTAL: \$610,814
Prin. Invest. NASA Tech. Officer CASE Category
 C CANN JSC/V ELLERBE 51-Biological Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAS 9-19411 University of California - San Francisco 2639
CREW MEMBER AND CREW GROUND INTRACOATIONS DURING NASA/
MIR
Period *Obligations*
09/22/1995-09/30/1998 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D KANAS JSC/J VILLARREAL 59-Life Sci, NEC

NCC 2-5147 University of California - San Francisco 2647
COMPUTER MODELING OF THE THERMAL CONDUCTIVITY OF C
OMETARY ICE
Period *Obligations*
07/19/1995-07/31/1996 FY95: \$39,819 TOTAL: \$39,819
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A POHORILLE ARC/T E BUNCH 19-Phys Sci, NEC
ARC/D F BLAKE

NCA 2-792 University of California - San Francisco 2640
PARALLEL ALGORITHMS FOR THE SIMULATION OF PROTOBIO
LOGICAL MEMBRANES
Period *Obligations*
02/16/1993-06/30/1994 FY95: TOTAL: \$39,993
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A POHORILLE ARC/S CHANG 12-Chemistry

NAG 1-1376 University of California - Santa Barbara 2648
STRUCTURAL QUALIFICATION OF COMPOSITE AIRFRAMES
Period *Obligations*
02/13/1992-09/30/1995 FY95: TOTAL: \$214,505
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K T KEDWARD LARC/J H STARNES 41-Aero Engr
LARC/M J SHUART

NCC 2-589 University of California - San Francisco 2641
GRAVITY AND SKELETAL GROWTH
Period *Obligations*
03/15/1989-12/31/1995 FY95: \$149,860 TOTAL: \$1,574,534
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E M HOLTON ARC/S B ARNAUD 51-Biological Sci

NAG 2-930 University of California - Santa Barbara 2649
MECHANICAL PAROPERTIES OF AEROGELS
Period *Obligations*
09/26/1994-12/31/1995 FY95: TOTAL: \$50,243
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F MILESTEIN ARC/D J RASKY 47-Materials Engr

NCC 2-597 University of California - San Francisco 2642
BONE CALCIUM AND SPACEFLIGHT
Period *Obligations*
05/15/1989-06/30/1995 FY95: TOTAL: \$236,711
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C E CANN ARC/E M HOLTON 51-Biological Sci

NAG 3-894 University of California - Santa Barbara 2650
THEORETICAL DAMAGE MECHANICS FOR METAL-METAL
COMPOSITES
Period *Obligations*
04/12/1988-12/31/1993 FY95: TOTAL: \$369,795
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F A LECKIE LERC/S M ARNOLD 46-Mech Engr

NCC 2-764 University of California - San Francisco 2643
FLUDROCORTISONE: ROLE IN CENTRAL REGULATION OF FL UID
BALANCE
Period *Obligations*
06/17/1992-03/31/1995 FY95: TOTAL: \$251,073
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M F DALLMAN ARC/J VERNIKOS 56-Medical Sciences

NAG 5-917 University of California - Santa Barbara 2651
SURFACE CLIMATE PARAMETERS W/SATELLITE AND TERRAIN DATA
FIFE
Period *Obligations*
06/01/1987-06/30/1994 FY95: TOTAL: \$476,893
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J DOZIER GSFC/B CHOUDHURY 39-Env Sci, NEC
F DAVIS GSFC/F HALL

NCC 2-772 University of California - San Francisco 2644
MOLECULAR SELF-ORGANIZATION AND THE ORIGIN OF LIFE:
FORMATION AND FUNCTIONS OF PROTOCELLS
Period *Obligations*
10/16/1992-09/30/1996 FY95: \$143,985 TOTAL: \$413,536
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A POHORILLE ARC/S CHANG 12-Chemistry

NAG 5-2485 University of California - Santa Barbara 2652
DEVELOPMENT OF A GENERAL-PURPOSE RADIATIVE TRANSFER
MODEL ON PARALLEL COMPUTING ARCHITECTURES
Period *Obligations*
02/04/1994-02/14/1996 FY95: \$30,000 TOTAL: \$60,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
Z WAN GSFC/J R FISCHER 22-Computer Science

NCC 2-846 University of California - San Francisco 2645
EFFECTS OF HYPOGRAVITY ON OSTEOBLAST DIFFERENTIATION
Period *Obligations*
03/22/1994-12/31/1995 FY95: \$37,943 TOTAL: \$75,886
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R K GLOBUS ARC/E M HOLTON 51-Biological Sci

NAG 8-929 University of California - Santa Barbara 2653
R/S SUPPORT OF THE WETNET PROGRAM
Period *Obligations*
07/27/1992-02/28/1995 FY95: TOTAL: \$153,646
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J E ESTES MSFC/M GOODMAN 39-Env Sci, NEC

NCC 2-5073 University of California - San Francisco 2646
PARALLEL ALGORITHMS FOR THE SIMULATION OF PROTOBIO
LOGICAL MEMBRANES
Period *Obligations*
06/30/1994-08/31/1995 FY95: TOTAL: \$39,996
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A POHORILLE ARC/S CHANG 12-Chemistry

NAGW 290 University of California - Santa Barbara 2654
SHIP AND SATELLITE BIO-OPTICAL RESEARCH IN THE CALIFORNIA
BIGHT
Period *Obligations*
02/01/1982-01/31/1996 FY95: \$180,000 TOTAL: \$3,526,840
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R C SMITH HQ/M R LEWIS 33-Oceanography
K S BAKER HQ/W S WILSON

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

**NAGW 1062 University of California - Santa Barbara 2655
ADVANCED RADIOMETER DEVELOPMENT**

<i>Period</i>	<i>Obligations</i>	
07/01/1987-09/30/1995	FY95: \$170,000	TOTAL: \$1,133,205
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P M LUBIN	HQ/F C GILLETT	11-Astronomy
	HQ/E J WEILER	

**NAGW 1743 University of California - Santa Barbara 2656
REMOTE SENSING INFORMATION SCIENCES RESEARCH GROUP**

<i>Period</i>	<i>Obligations</i>	
05/16/1989-09/30/1996	FY95: \$1,246,033	TOTAL: \$5,848,474
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J E ESTES	HQ/A J TUYAHOV	99-Multi-Discip
T R SMITH		
J L STAR		

**NAGW 1948 University of California - Santa Barbara 2657
NONMARINE STROMATOLITES AND THE SEARCH FOR PAST LIFE ON MARS**

<i>Period</i>	<i>Obligations</i>	
05/01/1990-11/30/1995	FY95: \$5,996	TOTAL: \$219,159
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S M AWRAMIK	HQ/J D RUMMEL	32-Geological Sci

**NAGW 2061 University of California - Santa Barbara 2658
SOLAR SYSTEM PHYSICS**

<i>Period</i>	<i>Obligations</i>	
04/10/1990-09/30/1995	FY95: \$85,000	TOTAL: \$454,200
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S J PEALE	HQ/T A MAXWELL	13-Physics

**NAGW 2188 University of California - Santa Barbara 2659
THE GAMMA-RAY ARC-MINUTE TELESCOPE IMAGING SYSTEM (GRATIS)**

<i>Period</i>	<i>Obligations</i>	
08/09/1990-03/31/1994	FY95:	TOTAL: \$270,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P LUBIN	HQ/L KALNZIENSKI	13-Physics

**NAGW 2460 University of California - Santa Barbara 2660
GLOBAL AIR-SEA ENERGY AND WATER EXCHANGES: A SCIENTIFIC CONTRIBUTION TO WETNET**

<i>Period</i>	<i>Obligations</i>	
04/12/1991-09/30/1994	FY95:	TOTAL: \$549,810
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C GAUTIER	HQ/J C DODGE	31-Atmos Sci

**NAGW 2602 University of California - Santa Barbara 2661
HYDROLOGY, HYDROCHEMICAL MODELING, AND REMOTE SENSING IN SEASONALLY SNOW-COVERED ALPINE DRAINAGE**

<i>Period</i>	<i>Obligations</i>	
08/06/1991-12/31/1995	FY95: \$926,173	TOTAL: \$3,999,221
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J DOZIER	HQ/G ASRAR	39-Env Sci, NEC
	HQ/W S WILSON	

**NAGW 2724 University of California - Santa Barbara 2662
BIOGEOCHEMISTRY OF DISSOLVED GASES IN THE PANTANAL WETLAND OF BRAZIL**

<i>Period</i>	<i>Obligations</i>	
09/10/1991-12/31/1995	FY95:	TOTAL: \$360,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J MELACK	HQ/A C JANETOS	39-Env Sci, NEC
	HQ/D E WICKLAND	

**NAGW 2840 University of California - Santa Barbara 2663
NONLINEAR DROP DYNAMICS AND CHAOTIC PHENOMENA**

<i>Period</i>	<i>Obligations</i>	
01/17/1992-11/30/1995	FY95: \$61,000	TOTAL: \$295,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L G LEAL	HQ/B M CARPENTER	13-Physics

**NAGW 3145 University of California - Santa Barbara 2664
SOLAR RADIATION PENETRATION, MODELING GLOBAL OCEAN CLIMATE AND SATELLITE OCEAN COLOR IMAGERY**

<i>Period</i>	<i>Obligations</i>	
08/11/1992-07/31/1996	FY95: \$185,000	TOTAL: \$626,300
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D A SIEGEL	HQ/R E MURPHY	33-Oceanography
	HQ/J A KAYE	

**NAGW 3180 University of California - Santa Barbara 2665
NAGW-3180/UNIV CA @ SANTA BARBARA/GLOBAL SURFACE SOLAR IRRADIANCE ESTIMATIONS FROM SATELLITE DATA**

<i>Period</i>	<i>Obligations</i>	
09/23/1992-01/31/1996	FY95: \$50,000	TOTAL: \$330,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C GAUTIER	HQ/J C DODGE	31-Atmos Sci

**NAGW 3325 University of California - Santa Barbara 2666
THE SUPERFLUID TRANSITION OF 4HE IN THE PRESENCE OF A HEAT CURRENT**

<i>Period</i>	<i>Obligations</i>	
12/31/1992-12/31/1995	FY95: \$130,000	TOTAL: \$390,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G AHLERS	HQ/M C LEE	13-Physics

**NAGW 3350 University of California - Santa Barbara 2667
GEOPHYSICAL MODELING AND ANALYSIS OF SATELLITE ALTIMETRY GRAVITY AND MAGNETIC DATA**

<i>Period</i>	<i>Obligations</i>	
01/15/1993-12/31/1996	FY95: \$99,306	TOTAL: \$298,225
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P M LUBIN	HQ/R E MURPHY	13-Physics
A J ANDERSON	HQ/B CHAO	

**NAGW 3888 University of California - Santa Barbara 2668
UNIV CALIF SANTA BARBARA; IMPLEMENTING AND APPLYING A MODELING AND DATABASE SYSTEM IN SUPPORT OF EOS**

<i>Period</i>	<i>Obligations</i>	
03/03/1994-04/30/1996	FY95: \$218,000	TOTAL: \$487,593
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T R SMITH	HQ/G H MUCKLOW	22-Computer Science
	HQ/H BREDECAMP	

**NAGW 3951 University of California - Santa Barbara 2669
FULLY AUTOMATED REGISTRATION AND COMPOSITE GENERATIONS**

<i>Period</i>	<i>Obligations</i>	
04/25/1994-12/31/1996	FY95: \$136,000	TOTAL: \$249,833
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
	HQ/G H MUCKLOW	22-Computer Science
	HQ/J H BREDECAMP	

**NAGW 4051 University of California - Santa Barbara 2670
CRYOGENIC LOW NOISE MICROWAVE RECEIVER DEVELOPMENT FOR COSMIC BACKGROUND RADIATION MEASUREMENTS**

<i>Period</i>	<i>Obligations</i>	
06/22/1994-02/29/1996	FY95: \$80,000	TOTAL: \$160,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P M LUBIN	HQ/L J CAROFF	11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 4352 University of California - Santa Barbara 2671
FLOODPLAIN AND RIVER DYNAMICS IN THREE LARGE SOUTH AMERICAN RIVERS

<i>Period</i>	<i>Obligations</i>	
03/18/1995-01/31/1997	FY95: \$66,640	TOTAL: \$66,640
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J M MELACK	HQ/D E WICKLAND	39-Env Sci, NEC
C J WILLMOTT	HQ/A C JANETOS	
C J VOROSMARTY		

NAS 5-31370 University of California - Santa Barbara 2672
EOS INVESTIGATION

<i>Period</i>	<i>Obligations</i>	
12/23/1991-12/14/2001	FY95: \$435,000	TOTAL: \$1,158,902
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Z WAN	GSFC/H OSEROFF	33-Oceanography

NAS 5-31374 University of California - Santa Barbara 2673
EOS INVESTIGATION - ATMOSPHERIC INFRARED SOUNDER (AIRS) TEAM MEMBER INVESTIGATION

<i>Period</i>	<i>Obligations</i>	
03/04/1992-12/14/2001	FY95: \$168,000	TOTAL: \$530,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C GAUTIER	GSFC/E KRIENS	39-Env Sci, NEC

NAS 5-31710 University of California - Santa Barbara 2674
EOS INVESTIGATION/HIRIS TEAM MEMBER

<i>Period</i>	<i>Obligations</i>	
09/17/1992-09/30/1996	FY95:	TOTAL: \$138,850
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D DOZLER	GSFC/T BRAKKE	32-Geological Sci

NAS 5-31713 University of California - Santa Barbara 2675
EOS INVESTIGATION/HIRIS TEAM MEMBER

<i>Period</i>	<i>Obligations</i>	
02/25/1992-06/30/1996	FY95:	TOTAL: \$337,849
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J M MELACK	GSFC/T BRAKE	31-Atmos Sci

NCC 2-63 University of California - Santa Barbara 2676
INVESTIGATE EFFECT OF SURFACE IMPURITIES ADSORPTION KINETICS OF HYDROGEN CHEMISORBED IRON

<i>Period</i>	<i>Obligations</i>	
04/01/1980-12/31/1994	FY95:	TOTAL: \$1,453,317
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M R SHANABARGER	ARC/T L PANONTI	47-Materials Engr

NCC 5-49 University of California - Santa Barbara 2677
AUGMENTATION OF THE BERMUDA BIO-OPTICS PROGRAM IN SUPPORT OF THE SEAWIFS SATELLITE MISSION

<i>Period</i>	<i>Obligations</i>	
07/22/1992-03/31/1996	FY95: \$55,000	TOTAL: \$235,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D A SIEGEL	GSFC/C R MCCLAIN	33-Oceanography
	GSFC/S B HOOKER	

NGT 00-030-138 University of California - Santa Barbara 2678
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/21/1992-08/31/1994	FY95:	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A HICKE	HQ/G ASRAR	31-Atmos Sci
	HQ/M BUTLER	

NGT 00-030-141 University of California - Santa Barbara 2679
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/23/1992-08/31/1995	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S A GARVER	HQ/G ASRAR	33-Oceanography
	HQ/D M BUTLER	

NGT 00-030-145 University of California - Santa Barbara 2680
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/23/1992-08/31/1995	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A GERSHUNOV	HQ/G ASRAR	39-Env Sci, NEC
	HQ/D M BUTLER	

NGT 00-030-159 University of California - Santa Barbara 2681
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/30/1992-08/31/1995	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Y CHEN	HQ/G ASRAR	22-Computer Science
	HQ/D M BUTLER	

NGT 00-030-204 University of California - Santa Barbara 2682
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/26/1993-08/31/1996	FY95: \$44,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H COUCLELIS	HQ/G ASRAR	39-Env Sci, NEC
	HQ/D M BUTLER	

NGT 00-030-267 University of California - Santa Barbara 2683
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/20/1994-08/31/1997	FY95: \$44,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J M MELACK	HQ/A C JANETOS	39-Env Sci, NEC
	HQ/G ASRAR	

NGT 00-030-339 University of California - Santa Barbara 2684
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/22/1995-08/31/1996	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S GAINES	HQ/G ASRAR	33-Oceanography
R SCHMIDT		

NGT 00-051-264 University of California - Santa Barbara 2685
GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/14/1994-06/30/1997	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G AHLERS	HQ/G LESANE	13-Physics

NGT 00-051-342 University of California - Santa Barbara 2686
GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/08/1994-06/30/1997	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L G LEAL	HQ/G A LESANE	43-Chem Engr

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-051-381 University of California - Santa Barbara 2687
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/15/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P LUBIN HQ/D A HOLLAND 13-Physics

NAG 5-2843 University of California - Santa Cruz 2695
RADIATION TRANSPORT AND MULTIDIMENSIONAL HYDRODYN
MICS IN SUPERNOVAE
Period *Obligations*
12/14/1994-03/31/1997 FY95: \$216,000 TOTAL: \$216,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S E WOOSLEY GSFC/D WEST 11-Astronomy

NAG 2-813 University of California - Santa Cruz 2688
ARE THER HIDDEN SUPERNOVAE?
Period *Obligations*
12/15/1992-09/30/1996 FY95: \$83,921 TOTAL: \$384,782
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M RANK ARC/C D LAUGHLIN 11-Astronomy
J D BREGMAN ARC/C M GILLESPIE

NAG 5-2984 University of California - Santa Cruz 2696
MOUNTAIN SCALE EROSION AND THE POTENTIAL FOR
EROSIONALLY DRIVEN UPLIFT
Period *Obligations*
07/07/1995-07/14/1996 FY95: \$32,011 TOTAL: \$32,011
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R S ANDERSON GSFC/H V FREY 19-Phys Sci, NEC

NAG 2-991 University of California - Santa Cruz 2689
TOOLS FOR ANALYSIS AND VISUALIZATION OF LARGE TIME-V
ARYING CFD DATA SETS
Period *Obligations*
07/25/1995-07/31/1996 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J WILHELMS ARC/A VAZIRI 22-Computer Science
A . VAN GELDER ARC/M G YAMASAKI

NAG 5-3005 University of California - Santa Cruz 2697
ZCAPE: A COUPLED TECTONIC-GEOMORPHIC LANDSCAPE
EVOLUTION MODEL
Period *Obligations*
07/14/1995-07/31/1996 FY95: \$37,000 TOTAL: \$37,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R ANDERSON GSFC/H V FREY 32-Geological Sci

NAG 5-750 University of California - Santa Cruz 2690
VISCOELASTIC DEFORMATION NEAR ACTIVE PLATE MARGINS
Period *Obligations*
03/15/1986-11/30/1995 FY95: TOTAL: \$319,833
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S N WARD GSFC/H V FREY 32-Geological Sci

NAG 5-3059 University of California - Santa Cruz 2698
DYNAMICAL PROCESSES AROUND MASSIVE BLACK HOLES IN
GALACTIC MUCLEI
Period *Obligations*
10/02/1995-09/14/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D N LIN GSFC/D WEST 11-Astronomy

NAG 5-1916 University of California - Santa Cruz 2691
TOWARD AN AGE CALIBRATION OF MG II CHROMOSPHERIC E
MISSION IN F.G.K. DWARF STARS
Period *Obligations*
02/26/1992-02/28/1994 FY95: TOTAL: \$0
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G H SMITH GSFC/D WEST 11-Astronomy

NAG 5-3060 University of California - Santa Cruz 2699
INTERSTELLAR GAS AND DUST IN ELLIPTICAL GALAXIES
Period *Obligations*
09/15/1995-09/14/1996 FY95: \$59,000 TOTAL: \$59,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W G MATTHEWS GSFC/D WEST 11-Astronomy

NAG 5-2073 University of California - Santa Cruz 2692
HYDRODYNAMICS OF SUPERNOVAE AND IMPLICATIONS FOR G
AMMA-RAY ASTROPHYSICS
Period *Obligations*
08/25/1992-09/30/1994 FY95: TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M HERANT GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-3061 University of California - Santa Cruz 2700
TESTING INFLATION AND DARK MATTER WITH MATTER WITH NEW
DATA, MODELS AND METHODS
Period *Obligations*
09/06/1995-09/14/1996 FY95: \$110,000 TOTAL: \$110,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R PRIMACK GSFC/D WEST 11-Astronomy

NAG 5-2262 University of California - Santa Cruz 2693
CROSS-CORRELATION OF DIFFUSE X-RAY BACKGROUND WITH RICH
CLUSTER FLUX
Period *Obligations*
05/04/1993-05/14/1994 FY95: TOTAL: \$7,339
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R PRIMACK GSFC/K M JAHODA 11-Astronomy
M GROSS

NAG 8-932 University of California - Santa Cruz 2701
SCIENCE EVALUTAION AND CONCEPTS FOR UV-IR SPACE
TELESCOPES
Period *Obligations*
08/06/1992-08/23/1995 FY95: TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G D ILLINGWORTH MSFC/M E NEIN 11-Astronomy

NAG 5-2808 University of California - Santa Cruz 2694
GAMMA-RAY BURST RECURRENCE
Period *Obligations*
12/01/1994-12/14/1995 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G BLUMENTHAL GSFC/J P NORRIS 11-Astronomy
D H HARTMAN GSFC/N WHITE

NAGW 590 University of California - Santa Cruz 2702
STRUCTURE OF SATURN'S RING: COLLISION PROPERTIES OF
WATER-ICE PARTICLES
Period *Obligations*
02/01/1984-12/31/1994 FY95: TOTAL: \$339,780
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F BRIDGES HQ/J R UNDERWOOD 32-Geological Sci
D N LIN HQ/J M BOYCE

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 2422 University of California - Santa Cruz 2703
STRUCTURE AND EVOLUTION OF ASTROPHYSICAL DISKS

<i>Period</i>	<i>Obligations</i>	
05/24/1991-06/30/1995	FY95: \$30,290	TOTAL: \$658,452
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L E HERNQUIST	HQ/G S KUTTER	11-Astronomy
	HQ/G R RIEGLER	

NAGW 4456 University of California - Santa Cruz 2711
EFFECTS OF EU ORIONIS OUTBURSTS ON PROPLANETARY DISKS

<i>Period</i>	<i>Obligations</i>	
05/02/1995-04/30/1997	FY95: \$38,773	TOTAL: \$38,773
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P BODENHEIMER	HQ/P G ROGERS	11-Astronomy

NAGW 2525 University of California - Santa Cruz 2704
RADIATION TRANSPORT IN SUPERNOVAE AND RELATED PHENOMENA

<i>Period</i>	<i>Obligations</i>	
05/29/1991-03/31/1995	FY95:	TOTAL: \$327,382
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S E WOOSLEY	HQ/G S KUTTER	11-Astronomy
	HQ/G R RIEGLER	

NAGW 4499 University of California - Santa Cruz 2712
THE PROPERTIES OF INTERSTELLAR DUST GRAINS IN CIRRUUS CLOUDS

<i>Period</i>	<i>Obligations</i>	
05/24/1995-04/30/1996	FY95: \$26,500	TOTAL: \$26,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P GUHATHAKURTA	HQ/G R RIEGLER	11-Astronomy

NAGW 3105 University of California - Santa Cruz 2705
COSMOLOGICAL IMPLICATIONS OF THE EFFECTS OF X-RAY CLUSTERS ON THE COSMIC MICROWAVE

<i>Period</i>	<i>Obligations</i>	
06/16/1992-06/30/1995	FY95: \$18,000	TOTAL: \$54,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G R BLUMENTHAL	HQ/L J KALUZIENSKI	11-Astronomy
	HQ/A N BUNNER	

NCA 2-746 University of California - Santa Cruz 2713
DYNAMICAL STUDIES OF THE OUTER SOLAR SYSTEM

<i>Period</i>	<i>Obligations</i>	
08/12/1992-08/31/1994	FY95:	TOTAL: \$80,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P BODENHEIMER	ARC/J N CUZZI	11-Astronomy

NAGW 3408 University of California - Santa Cruz 2706
PROTOPLANETARY FORMATION AND THE FU ORIONIS OUTBURST

<i>Period</i>	<i>Obligations</i>	
03/01/1993-02/28/1995	FY95: \$45,000	TOTAL: \$90,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P H BODENHEIMER	HQ/J A NUTH	19-Phys Sci, NEC

NCC 2-534 University of California - Santa Cruz 2714
TOWARDS A SELF REPLICATING CHEMICAL SYSTEM BASED ON CYTIDYLIC AND GUANYLIC ACIDS

<i>Period</i>	<i>Obligations</i>	
01/15/1988-01/14/1996	FY95: \$99,840	TOTAL: \$605,657
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A KANAVARIOTI	ARC/S CHANG	12-Chemistry
C F BERNASCONI		

NAGW 3599 University of California - Santa Cruz 2707
WAVE PROPAGATION IN THE PRIMORDIAL SOLAR NEBULA

<i>Period</i>	<i>Obligations</i>	
06/17/1993-05/31/1996	FY95: \$30,000	TOTAL: \$60,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D LIN	HQ/J A NUTH III	19-Phys Sci, NEC

NCC 2-649 University of California - Santa Cruz 2715
THEORETICAL AND OBSERVATIONAL STUDIES OF STAR AND PLANET FORMATION AND PRECURSOR SCIENCE FOR SIRTIF

<i>Period</i>	<i>Obligations</i>	
10/16/1989-01/01/1996	FY95: \$221,161	TOTAL: \$1,504,846
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P H BODENHEIMER	ARC/D J HOLLENBACH	11-Astronomy
	ARC/M W WERNER	

NAGW 3988 University of California - Santa Cruz 2708
DYNAMICAL EVOLUTION AND THE GROWTH OF PLANETISMALS

<i>Period</i>	<i>Obligations</i>	
05/04/1994-05/31/1996	FY95: \$30,000	TOTAL: \$62,400
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D LIN	HQ/P ROGERS	11-Astronomy

NCC 2-717 University of California - Santa Cruz 2716
VOLUME VISUALIZATION FOR COMPUTATIONAL FLUID DYNAMICS

<i>Period</i>	<i>Obligations</i>	
06/05/1991-03/14/1996	FY95:	TOTAL: \$260,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J WILHELMS	ARC/A VAZIRI	22-Computer Science
	ARC/J HULQUIST	

NAGW 4037 University of California - Santa Cruz 2709
ISO DEEP SURVEY KEY PROJECT

<i>Period</i>	<i>Obligations</i>	
06/03/1994-04/30/1995	FY95:	TOTAL: \$35,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D KOO	HQ/CAROFF	11-Astronomy

NCC 2-928 University of California - Santa Cruz 2717
LIVING IN SPACE OR LOW GRAVITY ENVIRONMENTS

<i>Period</i>	<i>Obligations</i>	
09/12/1995-08/31/1996	FY95: \$20,016	TOTAL: \$20,016
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B BRIDGEMAN	ARC/R B WELCH	69-Psych, NEC

NAGW 4213 University of California - Santa Cruz 2710
NUMERICAL STUDY OF THE BERKNER SHELF POLYNIA

<i>Period</i>	<i>Obligations</i>	
12/20/1994-09/30/1995	FY95: \$80,000	TOTAL: \$80,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D SMITH	HQ/J S THEON	54-Env Biology

NCC 2-5005 University of California - Santa Cruz 2718
GAS AND DISSIPATION IN ASTROPHYSICAL DISKS

<i>Period</i>	<i>Obligations</i>	
10/13/1993-09/30/1994	FY95:	TOTAL: \$40,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L HERNQUIST	ARC/B SMITH	11-Astronomy
T S CAMERON	ARC/D HOLLENBACH	

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCC 2-5013 University of California - Santa Cruz 2719
REDUCTION TECHNIQUES FOR FIELD ROTATED IR IMAGES
Period Obligations
11/24/1993-04/14/1995 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
D R RANK ARC/J BREGMAN 11-Astronomy

NAG 9-727 University of San Francisco 2728
PASSIVE SPACE RADIATION DOSIMETRY FOR STS-60
Period Obligations
05/10/1994-04/01/1995 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
E V BENTON JSC/G BADHWAR 11-Astronomy

NCC 2-5044 University of California - Santa Cruz 2720
THE EFFECT OF THE QUATION OF STAT EON THE EVOLUTIO N
OF THE GIANT PLANETS
Period Obligations
04/11/1994-03/31/1995 FY95: TOTAL: \$23,150
Prin. Invest. NASA Tech. Officer CASE Category
P BODENHEIMER ARC/J B POLLACK 11-Astronomy

NAGW 4154 University of San Francisco 2729
HIGH LET PASSIV SPACE
Period Obligations
09/21/1994-07/31/1996 FY95: TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
E U BENTON HQ/F SULZMAN 56-Medical Sciences

NCC 2-5143 University of California - Santa Cruz 2721
AMPLIFICATION OF ARCHAEBACTERIAL PROTON-ATPASE GEN ES
Period Obligations
06/30/1995-07/31/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
R A BOGOMOLNI ARC/L I HOCHSTEIN 51-Biological Sci

NCC 2-893 University of San Francisco 2730
ENVIRONMENTAL RADIATION MEASUREMENTS ON THE MIR SP ACE
STATION
Period Obligations
03/27/1995-03/31/1996 FY95: \$200,000 TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
E V BENTON ARC/C M WINGET 51-Biological Sci
A L FRANK ARC/G C JAHNS
R P KEEGAN

NGT 00-050-855 University of California - Santa Cruz 2722
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/16/1991-02/28/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
L HERNQUIST HQ/F C OWENS 11-Astronomy

NAGW 2378 Santa Clara University 1873
BIOLOGICAL IMPLICATIONS OF THE MARS 94 MISSION
Period Obligations
04/05/1991-12/31/1995 FY95: TOTAL: \$82,836
Prin. Invest. NASA Tech. Officer CASE Category
H P KLEIN HQ/J D RUMMEL 51-Biological Sci

NGT 00-051-220 University of California - Santa Cruz 2723
GRAD STUDENT RESEARCHERS PROGRAM
Period Obligations
04/25/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
R S ANDERSON HQ/A NOVOTNY 32-Geological Sci

NAGW 4245 Santa Clara University 1874
INCREASING MATHEMATICS AND SCIENCE ACHIEVEMENT
Period Obligations
01/11/1995-12/31/1995 FY95: \$88,140 TOTAL: \$88,140
Prin. Invest. NASA Tech. Officer CASE Category
L MAHON ARC/L SHAWNEE 99-Multi-Discip
ARC/B L WHITE

NGT 00-070-337 University of California - Santa Cruz 2724
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
06/30/1993-06/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
R HUGHEY HQ/D K RUSSELL 49-Engr, NEC

NCC 2-644 Santa Clara University 1875
PARALLEL PROCESSING FOR SCIENTIFIC COMPUTATIONS
Period Obligations
09/20/1989-06/14/1994 FY95: TOTAL: \$233,513
Prin. Invest. NASA Tech. Officer CASE Category
H S ALKHATIB ARC/K G STEVENS JR. 22-Computer Science

NGT 00-090-178 University of California - Santa Cruz 2725
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
D KLIGER HQ/M A JONES 13-Physics

NCC 2-841 Santa Clara University 1876
MACHINE-VISION AIDS FOR IMPROVED FLIGHT OPERATIONS
Period Obligations
01/27/1994-10/14/1995 FY95: \$82,934 TOTAL: \$162,997
Prin. Invest. NASA Tech. Officer CASE Category
P K MENON ARC/B SRIDHAR 41-Aero Engr
ARC/V H CHENG

NAG 8-282 University of San Francisco 2726
LDEF EXPERIMENT
Period Obligations
02/02/1993-02/01/1995 FY95: TOTAL: \$120,446
Prin. Invest. NASA Tech. Officer CASE Category
E V BENTON MSFC/T A PARNELL 13-Physics
MSFC/J W WATTS

NCC 2-5019 Santa Clara University 1877
ROBUST NONLINEAR CONTROL SYSTEM DESIGN METHODS
Period Obligations
12/02/1993-11/14/1995 FY95: \$40,001 TOTAL: \$80,001
Prin. Invest. NASA Tech. Officer CASE Category
P K MENON ARC/V H CHENG 41-Aero Engr

NAG 9-235 University of San Francisco 2727
HIGH-LET SPACE RADIATION DOSIMETRY/ASTRO
Period Obligations
06/01/1987-05/01/1995 FY95: TOTAL: \$1,187,200
Prin. Invest. NASA Tech. Officer CASE Category
E V BENTON JSC/D S NACHTWEY 13-Physics

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NCC 2-5068 Santa Clara University 1878
 ADVANCED METHODS OF STRUCTURAL AND TRAJECTORY ANALYSES FOR TRANSPORT AIRCRAFT
Period Obligations
 06/03/1994-09/30/1995 FY95: \$39,498 TOTAL: \$58,256
Prin. Invest. NASA Tech. Officer CASE Category
 M D ARDEMA ARC/H MIURA 41-Aero Engr
 ARC/M MOORE

NAG 3-1615 University of Southern California 2735
 AERODYNAMICS, UNSTEADY, KINETIC AND HEAT LOSS EFFECTS ON THE DYNAMICS AND STRUCTURE OF WEAKLY-BURNING
Period Obligations
 06/15/1994-06/14/1996 FY95: \$73,294 TOTAL: \$149,967
Prin. Invest. NASA Tech. Officer CASE Category
 F N EGOLFPOULOS LERC/H D ROSS 46-Mech Engr

NCC 2-5069 Santa Clara University 1879
 ADVANCES IN HYPERSONIC VEHICLE SYNTHESIS WITH APPLICATION TO STUDIES OF ADVANCED THERMAL PROTECTION
Period Obligations
 06/16/1994-09/30/1995 FY95: \$39,498 TOTAL: \$63,092
Prin. Invest. NASA Tech. Officer CASE Category
 M D ARDEMA ARC/J V BOWLES 41-Aero Engr
 ARC/S R RICCIHELLO

NAG 3-1619 University of Southern California 2736
 INTERACTION OF HELE-SHAW FLOWS WITH DIRECTIONAL SOLIDIFICATION: NUMERICAL INVESTIGATION OF NONLINEAR
Period Obligations
 06/16/1994-06/15/1996 FY95: \$50,981 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 E MEIBURG LERC/A CHAIT 47-Materials Engr
 LERC/M ZLATKOWSKI

NCC 2-5082 Santa Clara University 1880
 HIGH PERFORMANCE AND LOW-COST COMPUTING PLATFORMS BASED ON SCI
Period Obligations
 07/15/1994-03/31/1995 FY95: TOTAL: \$39,589
Prin. Invest. NASA Tech. Officer CASE Category
 Q LI ARC/T GRANT 22-Computer Science

NAG 3-1621 University of Southern California 2737
 THE INTERACTIVE DYNAMICS OF CONVECTION, LOW, AND DIRECTIONAL SOLIDIFICATION
Period Obligations
 06/16/1994-06/15/1996 FY95: \$57,862 TOTAL: \$105,201
Prin. Invest. NASA Tech. Officer CASE Category
 T MAXWORTHY LERC/A CHAIT 47-Materials Engr
 LERC/M ZLATKOWSKI

NCC 2-5120 Santa Clara University 1881
 THE SIMULATION OF REAL-TIME SCALABLE COHERENT INTERFACE
Period Obligations
 03/17/1995-12/15/1995 FY95: \$24,500 TOTAL: \$24,500
Prin. Invest. NASA Tech. Officer CASE Category
 Q LI ARC/T GRANT 22-Computer Science

NAG 3-1653 University of Southern California 2738
 STUDIES OF RADIATION DRIVEN AND BUOYANCY DRIVEN FLUID FLOWS AND TRANSPORT
Period Obligations
 07/19/1994-07/18/1996 FY95: \$51,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 P D RONNEY LERC/B S SINGH 46-Mech Engr

NAG 2-146 University of Southern California 2731
 PIONEER 10/11 DATA ANALYSIS OF THE ULTRAVIOLET PHOTOMETRY EXPERIMENT
Period Obligations
 10/01/1981-01/31/1996 FY95: \$180,137 TOTAL: \$2,672,170
Prin. Invest. NASA Tech. Officer CASE Category
 D JUDGE ARC/L E LASHER 13-Physics
 ARC/J R PHILLIPS

NAG 5-1296 University of Southern California 2739
 DETERMINATION OF THE EFFECTIVE TEMPERATURE SURFACE GRAVITIES
Period Obligations
 09/15/1989-02/14/1996 FY95: TOTAL: \$200,830
Prin. Invest. NASA Tech. Officer CASE Category
 G J PETERS GSFC/D WEST 11-Astronomy

NAG 2-864 University of Southern California 2732
 COORDINATION OF EVOLVING CONVENTIONS ENABLING SHARING OF KNOWLEDGE
Period Obligations
 08/06/1993-01/08/1995 FY95: \$209,538 TOTAL: \$914,996
Prin. Invest. NASA Tech. Officer CASE Category
 S LAU ARC/P E FRIEDLAND 22-Computer Science

NAG 5-2219 University of Southern California 2740
 IMPLEMENTATION OF HELIOSEISMIC DATA REDUCTION AND DIAGNOSTIC TECHNIQUES ON MASSIVELY PARALLEL ARCHITECTURE
Period Obligations
 02/25/1993-11/30/1995 FY95: \$10,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 E RHODES GSFC/J FISCHER 11-Astronomy

NAG 3-1523 University of Southern California 2733
 STUDIES OF PREMIXED LAMINAR AND TURBULENT FLAMES AT MICROGRAVITY
Period Obligations
 09/09/1993-01/08/1996 FY95: \$259,174 TOTAL: \$538,176
Prin. Invest. NASA Tech. Officer CASE Category
 P D RONNEY LERC/K J WEILAND 46-Mech Engr

NAG 5-2292 University of Southern California 2741
 A SURVEY OF EUV EMISSION IN NEARBY STARS
Period Obligations
 06/11/1993-10/31/1996 FY95: \$74,841 TOTAL: \$106,085
Prin. Invest. NASA Tech. Officer CASE Category
 G J PETERS GSFC/R OLIVERSON 11-Astronomy

NAG 3-1611 University of Southern California 2734
 FLOW AND AMBIENT ATMOSPHERE EFFECTS ON FLAME SPREAD AT MICROGRAVITY
Period Obligations
 06/01/1994-05/31/1996 FY95: \$70,205 TOTAL: \$137,551
Prin. Invest. NASA Tech. Officer CASE Category
 P D RONNEY LERC/S C OLSON 46-Mech Engr
 LERC/H D ROSS

NAG 5-2313 University of Southern California 2742
 LONG-TERM FUV FLUX AND WIND VARIABILITY IN BINARY STARS AND MULTI-WAVELENGTH OBS. AT EQUATOR-ON
Period Obligations
 07/12/1993-07/14/1996 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 G J PETERS GSFC/R OLIVERSON 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAG 5-2951 University of Southern California 2743
TECTONIC CONTROLS ON LANDSCAPE DEVELOPMENT: A CASE STUDY OF THE SAN BERNARDINO AND SAN GABRIEL..

<i>Period</i>	<i>Obligations</i>	
06/07/1995-06/14/1996	FY95: \$58,900	TOTAL: \$58,900
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D W BURBANK	GSFC/H V FREY	19-Phys Sci, NEC

NAGW 3063 University of Southern California 2751
A HIGHLY STABLE SEMICONDUCTOR DIODE SPECTROMETER FOR SOLAR SYSTEM INVESTIGATIONS

<i>Period</i>	<i>Obligations</i>	
04/28/1992-07/31/1995	FY95:	TOTAL: \$263,757
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D L JUDGE	HQ/W J WAGNER	31-Atmos Sci
	HQ/J D BOHLIN	

NAG 5-5018 University of Southern California 2744
ROCKET UNDERFLIGHTS FOR SOHO CROSS-CALIBRATION AND SOLAR ATMOSPHERE INVESTIGATIONS

<i>Period</i>	<i>Obligations</i>	
02/28/1994-02/29/1996	FY95: \$240,634	TOTAL: \$474,896
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D J JUDGE	GSFC/L J EARLY	13-Physics
	GSFC/R H PLESS	

NAGW 3149 University of Southern California 2752
GLOBAL CLIMATOLOGY

<i>Period</i>	<i>Obligations</i>	
07/24/1992-04/30/1995	FY95:	TOTAL: \$180,798
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R C DUGDALE	HQ/R E MURPHY	33-Oceanography
F P WILKERSON	HQ/J A KAYE	

NAGW 13 University of Southern California 2745
THREE DIMENSIONAL OBSERVATIONAL STUDY OF SOLAR 5 MINUTE OSCILLATIONS

<i>Period</i>	<i>Obligations</i>	
01/01/1980-02/28/1997	FY95: \$206,600	TOTAL: \$2,401,846
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E J RHODES	HQ/J D BOHLIN	13-Physics
	HQ/S KANE	

NAGW 3378 University of Southern California 2753
GROUND BASED STUDIES OF THERMOCAPILLARY FLOWS IN LEVITATED DROPS

<i>Period</i>	<i>Obligations</i>	
02/24/1993-03/31/1996	FY95: \$70,000	TOTAL: \$210,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S S SADHAL	HQ/B C CARPENTER	46-Mech Engr

NAGW 163 University of Southern California 2746
3 MONTH NCE UNDER NEW CLAUSE

<i>Period</i>	<i>Obligations</i>	
04/01/1981-10/31/1995	FY95: \$30,000	TOTAL: \$713,735
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D L JUDGE	HQ/K FOX	31-Atmos Sci
L BROADFOOT	HQ/W L QUAIDE	
J KUNC		

NAGW 3520 University of Southern California 2754
DEVELOPMENT OF A NEW TYPE OF EUV/UV FILTER FOR PLANETARY MAGNETOSPHERE IMAGING IN ENA FLUXES

<i>Period</i>	<i>Obligations</i>	
04/30/1993-04/30/1996	FY95: \$79,996	TOTAL: \$208,324
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M GRUNTMAN	HQ/E C WHIPPLE	11-Astronomy
	HQ/J D BOHLIN	

NAGW 1924 University of Southern California 2747
PHOTON ABSORPTION AND EMISSION STUDIES OF ATMOSPHERIC GASES

<i>Period</i>	<i>Obligations</i>	
02/06/1990-09/30/1996	FY95: \$112,620	TOTAL: \$577,878
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D L JUDGE	HQ/J BERGSTRALH	11-Astronomy

NAGW 3547 University of Southern California 2755
QUANTITATIVE CHARACTERIZATION OF THE SMALL SCALE FRACTURE PATTERNS

<i>Period</i>	<i>Obligations</i>	
04/23/1993-06/30/1995	FY95:	TOTAL: \$103,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C G SAMMIS	HQ/J T BERGSTRALH	32-Geological Sci

NAGW 2235 University of Southern California 2748
NAGW-2235/UNIV. OF SOUTHERN CALIF @ LOS ANGELES/ BASIN SEDIMENT TRANSPORT ON MARS

<i>Period</i>	<i>Obligations</i>	
03/11/1991-12/31/1993	FY95:	TOTAL: \$89,634
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D S GORSLINE	HQ/T A MAXWELL	32-Geological Sci

NAGW 3574 University of Southern California 2756
ANALYSIS OF PHOTOSYNTHETIC RATE AND BIO-OPTICAL COMPONENTS FROM OCEAN COLOR IMAGERY

<i>Period</i>	<i>Obligations</i>	
05/30/1993-02/28/1996	FY95: \$150,347	TOTAL: \$425,900
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D A KIEFER	HQ/D E WICKLAND	33-Oceanography
	HQ/A C JANETOS	

NAGW 2834 University of Southern California 2749
NAGW-2834/UNIV SOUTHERN CA/A STUDY OF THE IO TORUS

<i>Period</i>	<i>Obligations</i>	
01/17/1992-12/31/1995	FY95: \$90,001	TOTAL: \$248,024
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D E SHEMANSKY	HQ/W L QUAIDE	11-Astronomy

NAGW 3762 University of Southern California 2757
APPLICATION OF DIGITAL ELEVATION AND REMOTELY SENSED DATA TO NEOTECTONICS

<i>Period</i>	<i>Obligations</i>	
09/23/1993-06/30/1996	FY95: \$88,453	TOTAL: \$132,119
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D BURBANK	HQ/M BALTUCK	32-Geological Sci
E PAYLOR		

NAGW 2902 University of Southern California 2750
GEOLOGICAL MAPPING OF ARGENTINA PLANITIA

<i>Period</i>	<i>Obligations</i>	
02/10/1992-12/31/1994	FY95:	TOTAL: \$25,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D S GORSLINE	HQ/J M BOYCE	32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NAGW 3763 University of Southern California 2758
CONTRIBUTION OF PHYCOERYTHRIN-CONTAINING PHYTOPLANKTON TO REMOTELY SENSE SIGNALS IN THE OCEAN
Period *Obligations*
09/29/1993-02/28/1996 FY95: \$45,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R ITURRIAGA HQ/D E WICKLAND 33-Oceanography
M VERNET HQ/A C JANETOS

NCC 2-910 University of Southern California 2766
INDIVIDUAL DIFFERENCES IN THE STRATEGIC MANAGEMENT OF WORKLOAD FOR AIR CARRIER PILOTS
Period *Obligations*
06/26/1995-03/31/1996 FY95: \$77,622 TOTAL: \$77,622
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D L DAMOS ARC/E A PALMER 49-Engr, NEC
ARC/M G SHAFTO

NAGW 3905 University of Southern California 2759
OUTER PLANET UPPER ATMOSPHERE
Period *Obligations*
03/23/1994-12/31/1995 FY95: \$60,000 TOTAL: \$120,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D SHEMANSKY HQ/J BERGSTRALH 31-Atmos Sci

NCC 2-4002 University of Southern California 2767
APPLICATION OF H-INFINITY OPTIMAL CONTROL TECH
Period *Obligations*
12/01/1992-12/01/1994 FY95: TOTAL: \$45,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E A JONCKHEERE ARC/F B BURCHAM 44-Civil Engr

NAGW 3949 University of Southern California 2760
OPTICAL MEASUREMENTS FROM MOORINGS IN SUPPORT OF SEA WIFS
Period *Obligations*
04/26/1994-03/31/1996 FY95: \$150,000 TOTAL: \$329,077
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T D DICKEY HQ/A C JANETOS 33-Oceanography
M STRAMSKA

NGT 00-030-108 University of Southern California 2768
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/21/1992-12/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R M KUDELA HQ/G ASRAR 33-Oceanography
HQ/D M BUTLER

NAGW 4380 University of Southern California 2761
THEORETICAL STUDY OF INTERPLANETARY DUST AS A SOURCE OF SOLAR WIND PICKUP IONS
Period *Obligations*
03/31/1995-03/31/1996 FY95: \$28,756 TOTAL: \$28,756
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M GRUNTMAN HQ/W V JONES 13-Physics
HQ/J D BOHLIN

NGT 00-030-180 University of Southern California 2769
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
08/25/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T DICKEY HQ/G ASRAR 99-Multi-Discip
HQ/D M BUTLER

NASW 4680 University of Southern California 2762
NASW-4680/UNIV SOUTHERN CA/NASA RTTC LOCATED IN THE FAR WEST REGION OF THE U.S.
Period *Obligations*
12/20/1991-12/31/1995 FY95: \$1,059,041 TOTAL: \$4,439,041
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R STARK HQ/F E PENARANDA 99-Multi-Discip

NGT 00-030-237 University of Southern California 2770
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/10/1994-08/31/1997 FY95: \$43,958 TOTAL: \$43,958
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D A KIEFER HQ/A C JANETOS 33-Oceanography
HQ/G ASRAR

NCC 2-538 University of Southern California 2763
RESEARCH ON SOAR
Period *Obligations*
04/01/1988-12/31/1993 FY95: TOTAL: \$482,542
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P ROSENBLUM ARC/P FRIEDLAND 22-Computer Science
ARC/P D LAIRD

NGT 00-051-358 University of Southern California 2771
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P D RONNEY HQ/G A LESANE 46-Mech Engr

NCC 2-539 University of Southern California 2764
CENTER FOR EXPERIMENTAL RESEARCH IN PARALLEL ALGORITHMS, SOFTWARE, AND SYSTEMS
Period *Obligations*
05/01/1988-05/31/1996 FY95: TOTAL: \$5,316,893
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D W MIZELL ARC/H LUM 22-Computer Science
ARC/D B MCKELLAR

NGT 00-070-290 University of Southern California 2772
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
08/14/1992-08/31/1996 FY95: \$44,000 TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G A BEKEY GSFC/H ASKHENES 22-Computer Science

NCC 2-812 University of Southern California 2765
EVALUATION OF THE EFFECTS OF CREW RESOURCE MANAGEMENT TRAINING IN AIRLINE MAINTENANCE
Period *Obligations*
07/16/1993-12/31/1994 FY95: TOTAL: \$69,977
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J C TAYLOR ARC/B G KANKI 62-Social Aspects
ARC/J M ORASANU

NGT 00-090-142 University of Southern California 2773
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period *Obligations*
11/02/1992-08/14/1995 FY95: TOTAL: \$36,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L YATES HQ/D K RUSSELL 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
CALIFORNIA (Continued)**

NGT 00-090-171 University of Southern California 2774
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/27/1993-08/14/1996 FY95: \$16,000 TOTAL: \$28,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L YATES HQ/D K RUSSELL 99-Multi-Discip

NSG-5108 University of Southern California 2775
 ROCKET EXPERIMENTS TO MEASURE THE SOLAR SPECTRAL
 PROFILE AND INTENSITY
Period *Obligations*
 04/01/1976-10/31/1995 FY95: \$194,990 TOTAL: \$2,650,408
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D L JUDGE GSFC/L J EARLY 13-Physics
 H S OGAWA GSFC/R H PLESS

NSG-5422 University of Southern California 2776
 A COMPARATIVE STUDY OF THE LAR ULTRAVIOLET SPECTRA OF
 BE STARS
Period *Obligations*
 10/15/1979-01/31/1996 FY95: TOTAL: \$357,240
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G J PETERS GSFC/D WEST 11-Astronomy
 R S POLIDAN
 J R PERCY

COLORADO

NAG 2-849 Colorado School of Mines 2777
 APPLICATIONS OF ELECTRONIC STRUCTURE THEORY TO THE
 DESING OF HIGH TEMPERATURE MATERIALS
Period *Obligations*
 06/17/1993-06/30/1994 FY95: TOTAL: \$104,516
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M EBERHART ARC/S R LANGHOFF 13-Physics

NAG 3-1409 Colorado School of Mines 2778
 THE EFFECTS OF MICROGRAVITY ON VAPOR PHASE SINTERING
Period *Obligations*
 01/05/1993-12/17/1995 FY95: \$154,353 TOTAL: \$416,407
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D READY LERC/T K GLASGOW 47-Materials Engr
 LERC/R ASTHANA

NAG 3-1628 Colorado School of Mines 2779
 COMBUSTION OF PTIE: THE EFFECTS OF GRAVITY ON ULT RAFINE
 PARTICLE GENERATION
Period *Obligations*
 06/24/1994-06/23/1998 FY95: \$116,191 TOTAL: \$225,091
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J T MCKINNON LERC/R FRIEDMAN 43-Chem Engr
 LERC/H D ROSS

NAG 3-1698 Colorado School of Mines 2780
 STUDY OF COMBUSTION SYNTHESIS OF CERAMIC-METAL
 COMPOSITE MATERIALS UNDER MICROGRAVITY CONDITIONS - P
Period *Obligations*
 01/19/1995-01/18/1996 FY95: \$120,000 TOTAL: \$120,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J J MOORE LERC/S GOKOGLU 47-Materials Engr

NCC 3-215 Colorado School of Mines 2781
 A FUNDAMENTAL STUDY OF THE COMBUSTION SYNTHESIS OF
 CERAMIC-METAL COMPOSITE MATS UNDER MICROGRAV COND
Period *Obligations*
 05/09/1991-01/18/1995 FY95: TOTAL: \$367,969
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J J MOORE LERC/T K GLASGOW 47-Materials Engr
 D G WIRTH
 J B HOLT

NCC 3-289 Colorado School of Mines 2782
 THE SYNERGISTIC EFFECT OF CERAMIC MATERIALS SYNTHESIS
 USING VAPRO-ENHANCED REACT SINT UNDER MICROGR
Period *Obligations*
 01/06/1993-12/31/1995 FY95: \$125,000 TOTAL: \$375,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J J MOORE LERC/E S NELSON 47-Materials Engr
 LERC/T GLASGOW

NAG 1-1137 Colorado State University 2783
 THE DIURNAL AND SEASONAL RESPONSE OF BOUNDARY- LAYER
 CLOUDS TO SOLAR WARMING
Period *Obligations*
 05/23/1990-06/07/1995 FY95: TOTAL: \$268,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D A RANDALL LARC/T OWENS 31-Atmos Sci
 LARC/T L OWENS

NAG 1-1146 Colorado State University 2784
 OBSERVATIONS OF UPPER AND MIDDLE TROPOSPHERIC CLOUDS.
Period *Obligations*
 05/29/1990-11/30/1995 FY95: \$1 TOTAL: \$861,349
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S K COX LARC/T OWENS 31-Atmos Sci
 J M DAVIS LARC/T L OWENS

NAG 1-1266 Colorado State University 2785
 AN INTERDISCIPLINARY SCIENCE INVESTIGATION OF CLOUDS AND
 THE EARTH'S RADIANT ENERGY SYSTEM-CERES
Period *Obligations*
 05/06/1991-05/02/1996 FY95: \$149,999 TOTAL: \$557,773
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D A RANDALL LARC/B A WIELICKI 31-Atmos Sci
 LARC/J W YOUNGBLOOD

NAG 1-1461 Colorado State University 2786
 REUSE METRICS FOR OBJECT ORIENTED SOFTWARE NLPN 92-821
Period *Obligations*
 12/04/1992-12/01/1995 FY95: \$35,000 TOTAL: \$124,997
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M BIEMAN LARC/K A SMITH 22-Computer Science
 LARC/W H BRYANT

NAG 1-1701 Colorado State University 2787
 INTERACTIONS OF THE CLOUDY ARCTIC BOUNDARY LAYER WITH
 VARIABLE SURFACE CONDITIONS AND LARGE-SCALE
Period *Obligations*
 04/10/1995-04/30/1996 FY95: \$74,999 TOTAL: \$74,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D A RANDALL LARC/D S MCDUGAL 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 1-1702 Colorado State University 2788
 A NEW APPROACH TO THE REMOTE SENSING OF CIRRUS CLOUD
 PARAMETERS USING SUBMILLIMETER RADIOMETER
Period Obligations
 05/08/1995-05/07/1996 FY95: \$43,000 TOTAL: \$43,000
Prin. Invest. NASA Tech. Officer CASE Category
 G L STEPHENS LARC/D S MCDUGAL 31-Atmos Sci
 K F EVANS

NAG 1-1703 Colorado State University 2789
 LARGE EDDY SIMULATION OF CIRRUS CLOUDS
Period Obligations
 04/24/1995-04/30/1996 FY95: \$34,500 TOTAL: \$34,500
Prin. Invest. NASA Tech. Officer CASE Category
 W R COTTON LARC/D S MCDUGAL 31-Atmos Sci

NAG 1-1704 Colorado State University 2790
 RELATIVE SIGNIFICANCE OF MIDDLE AND UPPER TROPOSPHERIC
 CLOUDS
Period Obligations
 03/21/1995-03/31/1996 FY95: \$148,000 TOTAL: \$148,000
Prin. Invest. NASA Tech. Officer CASE Category
 S K COX LARC/D S MCDUGAL 31-Atmos Sci
 J M DAVIS

NAG 2-924 Colorado State University 2791
 MEASUREMENTS OF ICE NUCLEATING AEROSOLS IN THE UPP ER
 TROPOSPHERE AND LOWER STRATOSPHERE
Period Obligations
 08/10/1994-02/29/1996 FY95: \$106,332 TOTAL: \$151,900
Prin. Invest. NASA Tech. Officer CASE Category
 S M KREIDENWEISS ARC/E P CONDON 31-Atmos Sci
 ARC/O B TOOM

NAG 3-776 Colorado State University 2792
 SPACE PLASMA CONTRACTOR RESEARCH
Period Obligations
 01/20/1987-05/31/1995 FY95: TOTAL: \$673,494
Prin. Invest. NASA Tech. Officer CASE Category
 P J WILBUR LERC/J C KOLECKI 42-Astro Engr
 J E CARON LERC/C K PURVIS

NAG 3-1206 Colorado State University 2793
 ADVANCED ELECTRIC PROPULSION RESEARCH
Period Obligations
 01/03/1991-11/30/1995 FY95: TOTAL: \$233,099
Prin. Invest. NASA Tech. Officer CASE Category
 P J WILBUR LERC/V K RAWLIN 13-Physics

NAG 3-1520 Colorado State University 2794
 DISCRETE-LAYER PIEZOELECTRIC PLATE AND SHELL MODELS FOR
 ACTIVE TIP-CLEARANCE CONTROL
Period Obligations
 08/31/1993-08/24/1994 FY95: TOTAL: \$30,008
Prin. Invest. NASA Tech. Officer CASE Category
 P R HEYLIGER LERC/D A HOPKINS 46-Mech Engr
 LERC/J M PEREIRA

NAG 3-1700 Colorado State University 2795
 SPACE-PLASMA CONTRACTOR RESEARCH
Period Obligations
 01/26/1995-01/25/1996 FY95: \$69,998 TOTAL: \$69,998
Prin. Invest. NASA Tech. Officer CASE Category
 P J WILBUR LERC/J GALOFARO 46-Mech Engr

NAG 5-1058 Colorado State University 2796
 HYDROLOGICAL CLOUD STUDIES
Period Obligations
 07/15/1988-08/31/1996 FY95: \$85,000 TOTAL: \$670,806
Prin. Invest. NASA Tech. Officer CASE Category
 D RANDALL GSFC/W WISCOMBE 31-Atmos Sci

NAG 5-1592 Colorado State University 2797
 RESEARCH IN SUPPORT OF A MICROWAVE PRECIPITATION
 RETRIEVAL ALGORITHM FOR TRMM
Period Obligations
 05/20/1991-05/31/1994 FY95: TOTAL: \$306,434
Prin. Invest. NASA Tech. Officer CASE Category
 G L STEPHENS GSFC/R ADLER 31-Atmos Sci

NAG 5-1653 Colorado State University 2798
 WATER AND CLIMATE
Period Obligations
 06/24/1991-03/31/1996 FY95: TOTAL: \$285,000
Prin. Invest. NASA Tech. Officer CASE Category
 D RANDALL GSFC/D STARR 31-Atmos Sci

NAG 5-2078 Colorado State University 2799
 NUMERICAL MODEL ESTIMATION OF AREA AVERAGED SURFAC E
 FLUXES DURING FIFE
Period Obligations
 08/25/1992-08/31/1994 FY95: TOTAL: \$310,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A PIELKE GSFC/F G HALL 39-Env Sci, NEC
 T J LEE GSFC/P SELLERS

NAG 5-2302 Colorado State University 2800
 MODELING BIOSPHERE-ATMOSPHERE INTERACTIONS AT VARI OUS
 SCALES IN SUPPORT OF BOREAS
Period Obligations
 06/30/1993-06/30/1996 FY95: \$115,000 TOTAL: \$180,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A PIELKE GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P SELLERS

NAG 5-2692 Colorado State University 2801
 GROUND TRUTH RESEARCH AND ALGORITHM DEVELOPMENT IN
 SUPPORT OF TRMM
Period Obligations
 08/26/1994-08/31/1996 FY95: \$110,000 TOTAL: \$232,000
Prin. Invest. NASA Tech. Officer CASE Category
 S A RUTLEDGE GSFC/O THIELE 31-Atmos Sci

NAG 8-890 Colorado State University 2802
 MICROWAVE RADIATIVE TRANSFER STUDIES OF PRECIPITA- TION
Period Obligations
 09/06/1991-02/17/1995 FY95: TOTAL: \$285,575
Prin. Invest. NASA Tech. Officer CASE Category
 V N BRINGI MSFC/R E HOOD 31-Atmos Sci
 J VIVEKANANDAN

NAG 8-981 Colorado State University 2803
 WATER VAPOR STUDY OVER THE GLOBAL OCEANS IN COMPAR
 ISION WITH CLIMATE MODEL SIMULATIONS
Period Obligations
 08/04/1993-06/30/1995 FY95: TOTAL: \$164,000
Prin. Invest. NASA Tech. Officer CASE Category
 G L STEPHENS MSFC/F R ROBERTSON 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 9-576 Colorado State University 2804
 CHEMICAL STUDIES OF LUNAR SIMULANTS AND REGOLITH AS
 PLANT GROWTH MEDIA
Period Obligations
 03/23/1992-10/01/1995 FY95: TOTAL: \$109,304
Prin. Invest. NASA Tech. Officer CASE Category
 W L LINDSAY JSC/D L HENNINGER 55-Agriculture Sci

NAS 1-19951 Colorado State University 2812
 SCIENCE SUPPORT TO THE LITE SCIENCE TEAM
Period Obligations
 07/20/1993-07/19/1996 FY95: \$59,999 TOTAL: \$114,999
Prin. Invest. NASA Tech. Officer CASE Category
 D RANDALL LARC/G L MADDREA 31-Atmos Sci

NAG 9-583 Colorado State University 2805
 RADIOBIOLOGICAL STUDIES
Period Obligations
 05/22/1990-03/01/1995 FY95: TOTAL: \$170,750
Prin. Invest. NASA Tech. Officer CASE Category
 J METT JSC/D MORRISON 56-Medical Sciences

NAS 3-26410 Colorado State University 2813
 ACTS PROPAGATION EXPERIMENTS
Period Obligations
 05/19/1993-12/31/1995 FY95: \$51,165 TOTAL: \$206,165
Prin. Invest. NASA Tech. Officer CASE Category
 V N BRINGI LERC/R J GUNDERMAN 41-Aero Engr

NAGW 2069 Colorado State University 2806
 INFLATABLE STRUCTURES FOR A LUNAR BASE
Period Obligations
 04/27/1990-03/31/1996 FY95: TOTAL: \$337,702
Prin. Invest. NASA Tech. Officer CASE Category
 M E CRISWELL HQ/G I JOHNSTON 46-Mech Engr
 P S NOWAK

NAS 5-31730 Colorado State University 2814
 EOS - BIOSPHERE - ATMOSPHERE INTERACTION' STUDY
Period Obligations
 10/18/1991-12/31/1999 FY95: \$200,000 TOTAL: \$786,000
Prin. Invest. NASA Tech. Officer CASE Category
 D RANDALL GSFC/P SELLERS 31-Atmos Sci

NAGW 2662 Colorado State University 2807
 USING MULTI-SENSOR DATA TO MODEL FACTORS LIMITING
 CARBON BALANCE IN GLOBAL ARID AND SEMIARID LANDS
Period Obligations
 08/22/1991-03/31/1996 FY95: \$446,079 TOTAL: \$2,608,869
Prin. Invest. NASA Tech. Officer CASE Category
 D S SCHIMEL HQ/R E MURPHY 39-Env Sci, NEC
 HQ/W S WILSON

NAS 9-18735 Colorado State University 2815
 SPACELAB LIFE SCIENCES (SLS-2) MISSION SUPPORT
Period Obligations
 06/24/1992-01/01/1994 FY95: TOTAL: \$243,252
Prin. Invest. NASA Tech. Officer CASE Category
 M J FETTMAN JSC/K NEWKIRK 59-Life Sci, NEC

NAGW 2700 Colorado State University 2808
 NAGW-2700/COLORADO STATE UNIV/GLOBAL ANALYSIS OF T HE
 EARTH ENERGY BUDGET AND WATER CYCLE USING SATELL
Period Obligations
 09/16/1991-08/31/1995 FY95: TOTAL: \$425,550
Prin. Invest. NASA Tech. Officer CASE Category
 T H HAAR HQ/J C DODGE 31-Atmos Sci
 HQ/A J TUYAHOV

NCC 2-877 Colorado State University 2816
 RESEARCHING NEW RELATIONSHIPS BETWEEN GOVERNMENT,
 INDUSTRY AND THE EDUCATION COMMUNITY
Period Obligations
 09/30/1994-12/31/1995 FY95: \$205,206 TOTAL: \$495,937
Prin. Invest. NASA Tech. Officer CASE Category
 G R COULTER ARC/K A SOUZA 99-Multi-Discip
 ARC/P DYAL

NAGW 3957 Colorado State University 2809
 RADIOBIOLOGICAL STUDIES
Period Obligations
 04/25/1994-06/30/1996 FY95: \$90,000 TOTAL: \$180,000
Prin. Invest. NASA Tech. Officer CASE Category
 J T LETT HQ/F M SULZMAN 56-Medical Sciences

NCC 2-907 Colorado State University 2817
 A CRITICAL ANALYSIS OF EDUCATION AND SCIENCE COMMUNI
 CATION PROGRAMS IN THE SPACE LIFE SCIENCES
Period Obligations
 07/17/1995-06/30/1996 FY95: \$442,323 TOTAL: \$442,323
Prin. Invest. NASA Tech. Officer CASE Category
 R W PHILLIPS ARC/R A GRYMES 59-Life Sci, NEC

NAGW 4122 Colorado State University 2810
 STUDIES OF THE EARTH ENERGY BUDGET AND WATER CYCLE
 USING SATELLITE OBSERVATIONS AND MODEL ANALYSES
Period Obligations
 09/08/1994-08/31/1995 FY95: TOTAL: \$81,439
Prin. Invest. NASA Tech. Officer CASE Category
 G C CAMPBELL HQ/J C DODGE 31-Atmos Sci
 HQ/R A SCHIFFER

NGT 00-030-046 Colorado State University 2818
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/06/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 T J GREENWALD HQ/D M BUTLER 31-Atmos Sci
 G L STEPHENS HQ/G S WILSON

NAG10-148 Colorado State University 2811
 GROUND-BASED STUDY OF GRAVITY CHANGES ARABIDOPSIS
Period Obligations
 11/10/1994-11/14/1995 FY95: \$99,806 TOTAL: \$99,806
Prin. Invest. NASA Tech. Officer CASE Category
 A S REDDY KSC/W M KNOTT 55-Agriculture Sci
 W Z SADEH
 D L MYKLES

NGT 00-030-064 Colorado State University 2819
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/30/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C W LANDSEA HQ/D M BUTLER 31-Atmos Sci
 W M GRAY HQ/G S WILSON

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NGT 00-030-099 Colorado State University 2820
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/21/1992-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C A DEMOTT HQ/G ASRAR 32-Geological Sci
 HQ/J S THEON

NGT 00-030-268 Colorado State University 2828
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/04/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 S A RUTLEDGE HQ/J S THEON 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-106 Colorado State University 2821
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/21/1992-12/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 T L JENSEN HQ/G ASRAR 32-Geological Sci
 HQ/D M BUTLER

NGT 00-030-274 Colorado State University 2829
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/04/1994-08/31/1995 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 M GOSS HQ/E LUCIER 22-Computer Science
 HQ/G ASRAR

NGT 00-030-144 Colorado State University 2822
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/02/1992-12/31/1995 FY95: \$19,650 TOTAL: \$63,650
Prin. Invest. NASA Tech. Officer CASE Category
 V B BROWN HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-050-848 Colorado State University 2830
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/25/1991-06/30/1994 FY95: TOTAL: \$62,892
Prin. Invest. NASA Tech. Officer CASE Category
 M THOMPSON HQ/F C OWENS 45-Elec Engr

NGT 00-030-147 Colorado State University 2823
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/21/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A KNAFF HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-050-929 Colorado State University 2831
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/29/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W Z SADEH HQ/J K ALEXANDER 44-Civil Engr

NGT 00-030-150 Colorado State University 2824
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/21/1992-11/30/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A S DENNING HQ/G ASRAR 32-Geological Sci
 HQ/D M BUTLER

NGT 00-051-419 Colorado State University 2832
 GSRP
Period Obligations
 08/29/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R W GOTSHALL HQ/G LESANE 56-Medical Sciences

NGT 00-030-190 Colorado State University 2825
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/25/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R H JOHNSON HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-070-373 Colorado State University 2833
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/22/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 W Z SADEH HQ/D K RUSSELL 44-Civil Engr

NGT 00-030-231 Colorado State University 2826
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/04/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 W R COTTON HQ/J S THEON 39-Env Sci, NEC
 HQ/G ASRAR

NAG 1-756 University of Colorado - Boulder 2836
 COMPUTATIONAL METHODS AND SOFTWARE SYSTEMS FOR
 DYNAMICS AND CONTROL OF LARGE SPACE STRUCTURES
Period Obligations
 04/10/1987-08/30/1994 FY95: TOTAL: \$913,303
Prin. Invest. NASA Tech. Officer CASE Category
 K C PARK LARC/G L GILES 46-Mech Engr
 C A FELIPPA LARC/W J STROUD

NGT 00-030-252 Colorado State University 2827
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/04/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J K DETHING HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NAG 1-998 University of Colorado - Boulder 2837
 GLOBAL SURFACE-BASED CLOUD OBSERVATIONS FOR ISCCP
Period Obligations
 05/25/1989-06/30/1994 FY95: TOTAL: \$381,367
Prin. Invest. NASA Tech. Officer CASE Category
 J LONDON LARC/T OWENS 31-Atmos Sci
 S G WARREN LARC/T L OWENS

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 1-1161 University of Colorado - Boulder 2838
 A NUMERICAL INVESTIGATION OF ROUGHNESS EFFECTS ON
 BOUNDARY LAYER TRANSITION.
Period *Obligations*
 07/05/1990-05/31/1995 FY95: TOTAL: \$163,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S BIRINGEN LARC/C L STREETT 41-Aero Engr
 LARC/A KUMAR

NAG 1-1200 University of Colorado - Boulder 2839
 COMPUTATIONAL METHODS FOR CONTROL-STRUCTURE INTER-
 ACTION ANALYSIS
Period *Obligations*
 11/29/1990-09/30/1994 FY95: TOTAL: \$198,162
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K C PARK LARC/W K BELVIN 49-Engr, NEC
 C A FELIPPA

NAG 1-1355 University of Colorado - Boulder 2840
 OBSERVATIONAL AND MODELING STUDIES OF RADIATIVE CH
 EMICAL AND DYNAMICAL INTERACTIONS IN THE EARTH AT
Period *Obligations*
 12/18/1991-12/31/1995 FY95: \$112,500 TOTAL: \$448,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M L SALBY LARC/W L GROSE 31-Atmos Sci
 LARC/E E REMSBERG

NAG 1-1390 University of Colorado - Boulder 2841
 CHARACTERIZATION OF LAMINATED COMPOSITE TUBES US ING
 ULTRASONIC GUIDED WAVES
Period *Obligations*
 02/13/1992-01/22/1994 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W P RODGERS LARC/W H PROSSER 46-Mech Engr

NAG 1-1391 University of Colorado - Boulder 2842
 HIGH PERFORMANCE SUBSTRUCTURING ALGORITHMS FOR
 MASSIVELY PARALLEL ARCHITECTURES
Period *Obligations*
 02/13/1992-07/19/1995 FY95: \$25,000 TOTAL: \$244,498
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C FARHAT LARC/R E GILLIAN 46-Mech Engr
 LARC/J M HOUSNER

NAG 1-1440 University of Colorado - Boulder 2843
 HF RADAR GROUND TRUTH SUPPORT OF UARS WIND
 MEASUREMENTS IN HAWAII
Period *Obligations*
 05/21/1992-06/30/1995 FY95: TOTAL: \$169,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D C FRITTS LARC/J G WELLS 31-Atmos Sci

NAG 1-1472 University of Colorado - Boulder 2844
 NUMERICAL SIMULATION OF SHOCK TURBULENT BOUNDARY
 LAYER INTERACTION
Period *Obligations*
 12/30/1992-08/14/1994 FY95: TOTAL: \$60,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S BIRINGEN LARC/W E ZORUMSKI 41-Aero Engr

NAG 1-1483 University of Colorado - Boulder 2845
 CONCEPTUAL DESIGN AND ANALYSIS OF BATTEN ACTUATED
 DEPLOYABLE TRUSSES
Period *Obligations*
 02/25/1993-08/24/1995 FY95: TOTAL: \$88,932
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M M MIKULAS LARC/H G BUSH 46-Mech Engr
 K C PARK

NAG 1-1490 University of Colorado - Boulder 2846
 EXPERIMENTAL ADAPTIVE CONTROL OF SELF-ACTUATED
 PRECISION DEPLOYABLE SPACE STRUCTURES
Period *Obligations*
 02/25/1993-02/24/1994 FY95: TOTAL: \$106,905
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L D PETERSON LARC/H G BUSH 46-Mech Engr
 K C PARK

NAG 1-1491 University of Colorado - Boulder 2847
 IONOSPHERIC CALIBRATION FOR SINGLE FREQUENCY ALTIMETER
 MEASUREMENTS
Period *Obligations*
 02/25/1993-02/29/1996 FY95: \$50,000 TOTAL: \$100,001
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G H BORN LARC/S J KZETZBERG 33-Oceanography
 W SCHREINER LARC/J W JOHNSON

NAG 1-1506 University of Colorado - Boulder 2848
 SCIENTIFIC POTENTIAL OF SIMULTANEOUS TOPEX FOLLOW-ON AND
 GEOSAT FOLLOW-ON MISSIONS
Period *Obligations*
 04/22/1993-02/28/1995 FY95: TOTAL: \$24,851
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G H BORN LARC/S J KATZBERG 33-Oceanography
 J W JOHNSON LARC/J W JOHNSON

NAG 1-1581 University of Colorado - Boulder 2849
 INVESTIGATION OF OPERATIONAL PROBLEMS ASSOCIATED W ITH
 FLIGHT MODE ANNUNCIATION
Period *Obligations*
 03/24/1994-12/31/1995 FY95: TOTAL: \$294,356
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P G POLSON LARC/M T PALMER 69-Psych, NEC
 LARC/P C SCHUTTE

NAG 1-1642 University of Colorado - Boulder 2850
 EFFECT OF SMEARED ORTHOTROPIC STIFFNESS PROPERTIES ON
 THE FLAW SENSITIVITY OF STIFFENED PANELS
Period *Obligations*
 09/01/1994-01/31/1996 FY95: \$34,119 TOTAL: \$52,028
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M M MIKULAS LARC/J H STARNES 41-Aero Engr
 LARC/W B FICHTER

NAG 1-1700 University of Colorado - Boulder 2851
 ANALYSIS AND DESIGN METHODOLOGY FOR SMALL SPACECRA
 FT
Period *Obligations*
 04/20/1995-04/19/1996 FY95: \$267,208 TOTAL: \$267,208
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M MUKULAS LARC/M D RHODES 41-Aero Engr
 K C PARK LARC/W K BELVIN
 R SU

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 1-1708 University of Colorado - Boulder 2852
APPLICATION OF LES TO UNDERSTANDING AND PARAMETER-IZING THE ARCTIC CLOUDY BOUNDARY LAYER
Period *Obligations*
04/20/1995-04/30/1996 FY95: \$132,000 TOTAL: \$132,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J CURRY LARC/D S MCDUGAL 31-Atmos Sci
W COTTON

NAG 1-1738 University of Colorado - Boulder 2853
GPS FOR RENDEZVOUS NAVIGATION INSIDE AND OUTSIDE THE CONSTELLATION
Period *Obligations*
07/13/1995-05/31/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P AXELRAD LARC/J GARRISON 42-Astro Engr

NAG 2-753 University of Colorado - Boulder 2854
AIRBORNE ASTROMONY WITH 100UM-400UM HETERODYE SPECTROMETER
Period *Obligations*
01/29/1992-08/31/1995 FY95: \$190,000 TOTAL: \$802,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A L BETZ ARC/C D LAUGHLIN 11-Astronomy
ARC/C M GILLESPIE JR.

NAG 2-760 University of Colorado - Boulder 2855
HETEROGENEOUS CHEMISTRY RELATED TO STRATOSPHERIC AIRCRAFT: MICROPHYSICAL AND CHEMICAL PROPERTIES....
Period *Obligations*
02/24/1992-08/31/1995 FY95: TOTAL: \$377,227
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M A TOLBERT ARC/E CONDON 31-Atmos Sci
ARC/O B TOON

NAG 2-761 University of Colorado - Boulder 2856
ANALYTICAL ELECTRON MICROSCOPIC ANALYSIS OF SUBMICRON AEROSOL PARTICLES
Period *Obligations*
02/24/1992-03/31/1994 FY95: TOTAL: \$64,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J SHERIDAN ARC/E CONDON 31-Atmos Sci
ARC/O B TOON

NAG 2-827 University of Colorado - Boulder 2857
MASSIVELY PARALLEL AND SCALABLE IMPLICIT TIME INTEGRATION ALGORITHMS FOR STRUCTURAL DYNAMICS
Period *Obligations*
03/24/1993-12/31/1995 FY95: \$74,228 TOTAL: \$207,994
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C FARHAT ARC/A C WOOD 41-Aero Engr
ARC/E BARSZCZ

NAG 2-861 University of Colorado - Boulder 2858
VENUS COMPOSITION PROBE DISCOVERY MISSION
Period *Obligations*
07/28/1993-06/30/1996 FY95: \$39,999 TOTAL: \$134,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L W ESPOSITO ARC/L E LASHER 11-Astronomy
ARC/G S HUBBARD

NAG 2-862 University of Colorado - Boulder 2859
A TOOLKIT FOR ACTIVE OBJECT-ORIENTED DATABASES WITH APPLICATION TO INTEROPERABILITY
Period *Obligations*
07/29/1993-02/29/1996 FY95: \$238,401 TOTAL: \$559,105
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R KING ARC/S LAU 22-Computer Science

NAG 2-916 University of Colorado - Boulder 2860
SYMPOSIUM ON THE DIFFUSE INTERSTELLAR BANDS
Period *Obligations*
07/13/1994-02/29/1996 FY95: TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T P SNOW ARC/A G TIELENS 11-Astronomy

NAG 2-953 University of Colorado - Boulder 2861
PHYSICAL AND CHEMICAL CHARACTERIZATION OF PARTICLES IN THE UPPER TROPOSPHERE AND LOWER STRATOSPHERE.....
Period *Obligations*
12/23/1994-11/30/1995 FY95: \$103,360 TOTAL: \$103,360
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J SHERIDAN ARC/E P CONDON 31-Atmos Sci
ARC/O B TOON

NAG 2-989 University of Colorado - Boulder 2862
SOFIA SCIENCE WORKING GROUP
Period *Obligations*
06/21/1995-05/31/1996 FY95: \$13,172 TOTAL: \$13,172
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M SHULL ARC/E F ERICKSON 11-Astronomy

NAG 3-1094 University of Colorado - Boulder 2863
INTERFACIAL PHENOMENA IN MULTILAYERED FLUID SYSTEMS
Period *Obligations*
12/14/1989-01/03/1996 FY95: \$136,000 TOTAL: \$1,062,865
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J N KOSTER LERC/M E HILL 19-Phys Sci, NEC

NAG 3-1257 University of Colorado - Boulder 2864
IGNITION AND COMBUSTION OF BULK METALS IN A MICROGRAVITY ENVIRONMENT
Period *Obligations*
03/11/1991-12/19/1994 FY95: TOTAL: \$279,990
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M C BRANCH LERC/R FRIEDMAN 46-Mech Engr
J W DAILY
H DINDI

NAG 3-1277 University of Colorado - Boulder 2865
MICROPHYSICS OF CLOSE APPROACH AND FILM DRAINAGE AND RUPTURE DURING DROP COALESCENCE
Period *Obligations*
04/14/1991-05/13/1995 FY95: TOTAL: \$237,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R H DAVIS LERC/J A SALZMAN 49-Engr, NEC

NAG 3-1389 University of Colorado - Boulder 2866
PHASE SEGREGATION DUE TO SIMULTANEOUS MIGRATION AND COALESCENCE
Period *Obligations*
11/23/1992-12/31/1995 FY95: \$40,000 TOTAL: \$120,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R H DAVIS LERC/J A SALZMAN 43-Chem Engr

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 3-1410 University of Colorado - Boulder 2867
 MODELING AND NEW EXPERIMENT DEFINITION FOR THE VIBRATION ISOLATION BOX EXPERIMENT SYSTEM
Period Obligations
 01/25/1993-01/14/1996 FY95: \$40,000 TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
 R L SANI LERC/J A SALZMAN 19-Phys Sci, NEC

NAG 5-985 University of Colorado - Boulder 2875
 SIMULTANEOUS MULTIWAVELENGTHS STUDY OF SPEEDY MIC AND ORIGIN OF HYDROGEN BALMER EMISSION
Period Obligations
 09/01/1987-01/31/1995 FY95: TOTAL: \$236,000
Prin. Invest. NASA Tech. Officer CASE Category
 A BROWN GSFC/Y KONDO 11-Astronomy

NAG 3-1425 University of Colorado - Boulder 2868
 HIGH PERFORMANCE PARALLEL ANALYSIS OF COUPLED PROBLEMS FOR AIRCRAFT PROPULSION
Period Obligations
 12/23/1992-12/31/1995 FY95: \$60,000 TOTAL: \$235,000
Prin. Invest. NASA Tech. Officer CASE Category
 C FILIPPA LERC/C C CHAMIS 41-Aero Engr
 C H FARHAT
 K C PARK

NAG 5-1715 University of Colorado - Boulder 2876
 PARTICIPATION IN THE VERSION O EFFORT FOR THE EOS GROUND SYSTEM PROJECT
Period Obligations
 08/13/1991-12/31/1993 FY95: TOTAL: \$255,013
Prin. Invest. NASA Tech. Officer CASE Category
 W EMERY GSFC/H K RAMAPRIYAN 39-Env Sci, NEC

NAG 3-1566 University of Colorado - Boulder 2869
 COMPUTATIONAL FLUID DYNAMICS BASED ON THE METHOD OF SPACE-TIME CONSERVATION ELEMENT AND SOLUTION ELEMENT
Period Obligations
 02/03/1994-02/02/1996 FY95: \$42,000 TOTAL: \$77,940
Prin. Invest. NASA Tech. Officer CASE Category
 C Y CHOW LERC/S C CHANG 41-Aero Engr

NAG 5-1792 University of Colorado - Boulder 2877
 CORONAL STARS IN THE ROSAT WFC SURVEY
Period Obligations
 10/27/1991-10/31/1994 FY95: TOTAL: \$83,989
Prin. Invest. NASA Tech. Officer CASE Category
 A R BROWN GSFC/R PETRE 11-Astronomy

NAG 3-1600 University of Colorado - Boulder 2870
 STUDIES OF FREELY SUSPENDED LIQUID CRYSTALS BUBBLE S
Period Obligations
 05/17/1994-05/16/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 N A CLARK LERC/J S LING 13-Physics

NAG 5-1853 University of Colorado - Boulder 2878
 GODDARD HIGH RESOLUTION SPECTROGRAPH (GHR) INCLUDING ACTIVITIES AS A GHR GUARANTEED TIME OBSERV.
Period Obligations
 01/02/1992-11/14/1995 FY95: \$398,000 TOTAL: \$1,464,952
Prin. Invest. NASA Tech. Officer CASE Category
 J C BRANDT GSFC/A SMITH 11-Astronomy

NAG 3-1616 University of Colorado - Boulder 2871
 THREE DIMENSIONAL FLOW OF MICROGRAVITY DIFFUSION FLAME
Period Obligations
 06/16/1994-06/15/1998 FY95: \$100,000 TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
 J R HERTZBERG LERC/H D ROSS 46-Mech Engr

NAG 5-1857 University of Colorado - Boulder 2879
 PSC OBSERVATIONS FOR A COMPLETE, FLUX-LIMITED SAMPLE OF X-RAY SELECTED BL LACERTAE OBJECTS
Period Obligations
 01/02/1992-01/31/1994 FY95: TOTAL: \$62,900
Prin. Invest. NASA Tech. Officer CASE Category
 J T STOCKE GSFC/R PETRE 11-Astronomy

NAG 3-1685 University of Colorado - Boulder 2872
 IGNITION AND COMBUSTION OF BULK METALS IN A MICROGRAVITY ENVIRONMENT
Period Obligations
 11/22/1994-11/21/1995 FY95: \$112,474 TOTAL: \$112,474
Prin. Invest. NASA Tech. Officer CASE Category
 M C BRANCH LERC/R FRIEDMAN 46-Mech Engr
 LERC/H D ROSS

NAG 5-1879 University of Colorado - Boulder 2880
 THE SHADOWING EFFECT OF THE MAGELLANIC BRIDGE ON THE EXTRAGALACTIC X-RAY BACKGROUND
Period Obligations
 02/10/1992-08/14/1995 FY95: TOTAL: \$106,042
Prin. Invest. NASA Tech. Officer CASE Category
 Q WANG GSFC/R PETRE 11-Astronomy

NAG 5-199 University of Colorado - Boulder 2873
 INTERNATIONAL ULTRAVIOLET EXPERIMENT STUDIES
Period Obligations
 07/15/1981-01/31/1995 FY95: TOTAL: \$575,504
Prin. Invest. NASA Tech. Officer CASE Category
 T R AYRES GSFC/D WEST 11-Astronomy
 S L HAWLEY
 A BROWN

NAG 5-1887 University of Colorado - Boulder 2881
 ANALYSIS OF THE SUCCESSFUL DECEMBER 1991 COORDINATED ROSAT HST, IUE AND VLA CAMPAIGN TO OBSERVE AR.
Period Obligations
 01/27/1992-08/14/1995 FY95: TOTAL: \$51,896
Prin. Invest. NASA Tech. Officer CASE Category
 J L LINSKY GSFC/R PETRE 11-Astronomy

NAG 5-898 University of Colorado - Boulder 2874
 ROCKET INVESTIGATION OF THE ROLE OF NITRIC OXIDE IN THE LOWER THERMOSPHERE
Period Obligations
 03/22/1993-01/31/1996 FY95: \$185,879 TOTAL: \$590,388
Prin. Invest. NASA Tech. Officer CASE Category
 C A BARTH GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-1908 University of Colorado - Boulder 2882
 APPLICATION OF GPS TO CRUSTAL DEFORMATION STUDIES IN CALIFORNIA
Period Obligations
 02/20/1992-02/29/1996 FY95: \$56,000 TOTAL: \$212,000
Prin. Invest. NASA Tech. Officer CASE Category
 K LARSON GSFC/B G BILLS 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 5-2014 University of Colorado - Boulder 2883
 IN IMAGING STUDY OF THE GALACTIC DIFFUSE X-RAY BAC
 KGROUND NEAR THE GALACTIC PLAN
Period Obligations
 07/01/1992-06/30/1995 FY95: TOTAL: \$60,558
Prin. Invest. NASA Tech. Officer CASE Category
 Q WANG GSFC/D WEST 11-Astronomy

NAG 5-2274 University of Colorado - Boulder 2891
 THE CAPELLA DICHOTOMY: PARADIGM LOST?
Period Obligations
 05/26/1993-05/31/1995 FY95: TOTAL: \$75,491
Prin. Invest. NASA Tech. Officer CASE Category
 T R AYRES GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2026 University of Colorado - Boulder 2884
 MODELING THE GAMMA-RAY SPECTRA OF ACTIVE GALACTIC
 NUCLEI
Period Obligations
 07/08/1992-12/31/1995 FY95: \$6,925 TOTAL: \$116,925
Prin. Invest. NASA Tech. Officer CASE Category
 M C BEGELMAN GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2283 University of Colorado - Boulder 2892
 OBSERVATIONS OF G191-B2A
Period Obligations
 06/10/1993-06/14/1996 FY95: TOTAL: \$65,614
Prin. Invest. NASA Tech. Officer CASE Category
 J C GREEN GSFC/R OLIVERSON 11-Astronomy

NAG 5-2075 University of Colorado - Boulder 2885
 AN ALL-SKY SURVEY OF ACTIVE BINARY STARS
Period Obligations
 08/25/1992-06/30/1995 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 J LINSKY GSFC/R PETRE 11-Astronomy

NAG 5-2287 University of Colorado - Boulder 2893
 RELATIONSHIP BETWEEN NON-METHANE HYDROCARBON EMISS
 ION AND LEAF CARBON BALANCE IN THE BOREAL FOREST.
Period Obligations
 06/14/1993-06/14/1996 FY95: \$33,800 TOTAL: \$178,800
Prin. Invest. NASA Tech. Officer CASE Category
 R K MONSON GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P SELLERS

NAG 5-2122 University of Colorado - Boulder 2886
 INTRINSIC C IV ABSORPTION IN PG-QSOS AND SEYFERT G
 ALAXIES
Period Obligations
 10/28/1992-03/31/1996 FY95: TOTAL: \$23,000
Prin. Invest. NASA Tech. Officer CASE Category
 J M SHULL GSFC/D WEST 11-Astronomy

NAG 5-2319 University of Colorado - Boulder 2894
 VOYAGER OBSERVATIONS OF FAR-ULTRAVIOLET SPECTRAL F
 EATURES DUE TO INTERSTELLAR H2 AND DU
Period Obligations
 07/14/1993-07/14/1994 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 T P SNOW GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2143 University of Colorado - Boulder 2887
 CATCHING IT IN THE ACT: PREDICTABLE DECLINES IN V 854
 CENTAURI AND UV EXTINCTION PROPERTIES OF DUST.
Period Obligations
 11/23/1992-01/31/1995 FY95: TOTAL: \$88,500
Prin. Invest. NASA Tech. Officer CASE Category
 G C CLAYTON GSFC/D WEST 11-Astronomy

NAG 5-2332 University of Colorado - Boulder 2895
 MEASURING ATTITUDE WITH A GRADIOMETER
Period Obligations
 07/27/1993-09/30/1994 FY95: TOTAL: \$39,983
Prin. Invest. NASA Tech. Officer CASE Category
 G BORN GSFC/S KENT 49-Engr, NEC

NAG 5-2147 University of Colorado - Boulder 2888
 SPECTROSCOPY OF OF/WN STAR IN M33
Period Obligations
 12/14/1992-01/31/1995 FY95: TOTAL: \$11,500
Prin. Invest. NASA Tech. Officer CASE Category
 P S CONTI GSFC/D WEST 11-Astronomy

NAG 5-2353 University of Colorado - Boulder 2896
 THE ROLE OF FAULT SEGMENTATION IN EARTHQUAKE DYNAM
 ICS WITH APPLICATION TO STRIKE FAULTS IN CALIF.
Period Obligations
 08/12/1993-08/14/1996 FY95: \$70,000 TOTAL: \$188,000
Prin. Invest. NASA Tech. Officer CASE Category
 J B RUNDLE GSFC/B G BILLS 32-Geological Sci

NAG 5-2256 University of Colorado - Boulder 2889
 GLOBAL-SCALE TURBULENT SOLAR CONVECTION COUPLED TO
 ROTATION AND MAGNETIC FIELDS
Period Obligations
 04/27/1993-04/30/1996 FY95: \$260,000 TOTAL: \$655,000
Prin. Invest. NASA Tech. Officer CASE Category
 J T MOORE GSFC/T J BIRMINGHAM 13-Physics
 GSFC/J D BOHLIN

NAG 5-2372 University of Colorado - Boulder 2897
 THERMAL AND NON-THERMAL RADIATION FROM TWO COMAE S
 TARS
Period Obligations
 09/21/1993-03/31/1996 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 M GUDEL GSFC/R PETRE 11-Astronomy

NAG 5-2259 University of Colorado - Boulder 2890
 CONTEMPORANEOUS EUVE AND GHRs OBSERVATIONS OF THE
 OUTER ATMOSPHERIC STRUCTURE OF RS CVN
Period Obligations
 04/30/1993-04/30/1996 FY95: \$40,400 TOTAL: \$120,537
Prin. Invest. NASA Tech. Officer CASE Category
 A BROWN GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2383 University of Colorado - Boulder 2898
 THE SEARCH FOR EXTRA-SOLAR OORT CLOUDS
Period Obligations
 09/29/1993-09/30/1994 FY95: TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 J BALLY GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 5-2387 University of Colorado - Boulder 2899
OBSERVATIONAL AND THEORETICAL STUDIES OF WOLF-RAYE T
STAR ATMOSPHERES
Period *Obligations*
10/06/1993-10/14/1996 FY95: TOTAL: \$40,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P S CONTI GSFC/D WEST 11-Astronomy

NAG 5-2551 University of Colorado - Boulder 2907
TIDES, PLANETARY WAVES AND EDDY FORCING OF THE MEAN
MLT CIRCULATION FOR THE TIMED SCIENCE WORKING..
Period *Obligations*
03/15/1994-12/31/1994 FY95: TOTAL: \$58,497
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M FORBES GSFC/B CAMPBELL 31-Atmos Sci

NAG 5-2451 University of Colorado - Boulder 2900
TAKING TEMPERATURES IN A CORONAL NURSERY
Period *Obligations*
12/06/1993-06/14/1995 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T R AYRES GSFC/R PETRE 11-Astronomy

NAG 5-2576 University of Colorado - Boulder 2908
ENERGY TRANSFER IN THE THERMOSPHERE AND MESOSPHERE -
A THEORY/MODELING INTERDISCIPLINARY SCIENTIST.
Period *Obligations*
04/21/1994-01/31/1995 FY95: TOTAL: \$58,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S C SOLOMON GSFC/B CAMPBELL 11-Astronomy

NAG 5-2489 University of Colorado - Boulder 2901
THE LINE OF SIGHT TO HD 206267
Period *Obligations*
01/04/1994-01/14/1995 FY95: TOTAL: \$1,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J C GREEN GSFC/D WEST 11-Astronomy

NAG 5-2577 University of Colorado - Boulder 2909
EOSDIS VO IMS TIREKICKER ACTIVITIES AND SYSTEM PRO
TOTYPING
Period *Obligations*
04/21/1994-08/31/1996 FY95: \$176,000 TOTAL: \$286,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W J EMERY GSFC/K R MCDONALD 22-Computer Science

NAG 5-2470 University of Colorado - Boulder 2902
A STUDY OF RADIO CONTINUUM LOOP I ABSORPTION NEAR THE
3C273 SIGHT LINE
Period *Obligations*
01/04/1994-01/14/1996 FY95: TOTAL: \$2,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G S BURKS GSFC/D WEST 11-Astronomy

NAG 5-2579 University of Colorado - Boulder 2910
PARTICIPATION IN THE EARTH PROBE TOMS MISSION
Period *Obligations*
04/21/1994-04/30/1996 FY95: TOTAL: \$68,357
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D RUSCH GSFC/J R HERMAN 31-Atmos Sci

NAG 5-2514 University of Colorado - Boulder 2903
MULTI-WAVEBAND VARIABILITY CONSTRAINTS ON THE CENTRAL
ENGINE IN NGC 4151
Period *Obligations*
02/09/1994-02/28/1995 FY95: TOTAL: \$11,448
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M SHULL GSFC/J P NORRIS 11-Astronomy
G REICHERT GSFC/N WHITE

NAG 5-2584 University of Colorado - Boulder 2911
NEOTECTONICS OF THE AFAR DEPRESSION RIFT SYSTEMS
Period *Obligations*
04/28/1994-04/30/1995 FY95: \$14,605 TOTAL: \$25,505
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R BILHAM GSFC/D J HARDING 32-Geological Sci

NAG 5-2525 University of Colorado - Boulder 2904
X-RAY AND UV OBSERVATIONS OF AN X-RAY PULSAR IN A STELLAR
WIND
Period *Obligations*
02/21/1994-08/14/1995 FY95: TOTAL: \$18,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A MCCRAY GSFC/R PETRE 11-Astronomy

NAG 5-2592 University of Colorado - Boulder 2912
X-RAY SPECTRA OF BAL-QUASARS
Period *Obligations*
05/12/1994-11/14/1995 FY95: TOTAL: \$13,753
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M BEGELMAN GSFC/N WHITE 11-Astronomy

NAG 5-2530 University of Colorado - Boulder 2905
CORONAL TEMPERATURE AND EMISSION MEASURE DISTRIBUTIONS
FOR ACTIVE SUPERGIANT BETA DRA
Period *Obligations*
02/24/1994-03/14/1997 FY95: \$20,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A BROWN GSFC/N WHITE 11-Astronomy

NAG 5-2596 University of Colorado - Boulder 2913
THE PHYSICS OF MASSIVE O-STARS IN DIFFERENT PARENT
GALAXIES: THE MAGELLANIC CLOUDS
Period *Obligations*
05/23/1994-05/31/1995 FY95: TOTAL: \$5,216
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C D GARMANY GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2550 University of Colorado - Boulder 2906
A THEORETICAL AND OBSERVATIONAL STUDY OF LARGE AND
SMALL SCALE DYNAMICS IN THE MESOSCALE AND ...
Period *Obligations*
03/15/1994-12/31/1994 FY95: TOTAL: \$58,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D C FRITTS GSFC/B CAMPBELL 31-Atmos Sci

NAG 5-2597 University of Colorado - Boulder 2914
DUST CONDENSATION - ADP
Period *Obligations*
05/18/1994-05/31/1995 FY95: TOTAL: \$5,992
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I R LITTLE-MARENIN GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 5-2610 University of Colorado - Boulder 2915
AN ULTRAVIOLET SPECTROPHOTOMETRIC CENSUS OF B SUPE
RGIANTS IN THE SMC
Period *Obligations*
06/15/1994-09/14/1995 FY95: TOTAL: \$14,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C GARMANY GSFC/D WEST 11-Astronomy

NAG 5-2753 University of Colorado - Boulder 2923
UNDERSTANDING THE LATITUDE STRUCTURE OF NITRIC OXIDE IN
THE MESOSPHERE AND LOWER THERMOSPHERE
Period *Obligations*
10/14/1994-10/14/1995 FY95: \$75,636 TOTAL: \$75,636
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T J FULLER-ROWELL GSFC/C H JACKMAN 31-Atmos Sci

NAG 5-2616 University of Colorado - Boulder 2916
GALAXY CLUSTER MASSES AT MODERATE REDSHIFT
Period *Obligations*
06/15/1994-12/14/1995 FY95: TOTAL: \$0
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E ELLINGSON GSFC/R PETRE 11-Astronomy

NAG 5-2786 University of Colorado - Boulder 2924
STUDIES OF TIDAL AND PLANETARY WAVE VARIABILITY IN THE
MIDDLE ATMOSPHERE USING UARS AND CORRELATIVE
Period *Obligations*
11/14/1994-11/14/1995 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D C FRITTS GSFC/C H JACKMAN 31-Atmos Sci

NAG 5-2633 University of Colorado - Boulder 2917
SOLAR TERRESTRIAL ENERGY PROGRAM (STEP) SCIENTIST
COORDINATOR
Period *Obligations*
06/28/1994-10/31/1995 FY95: TOTAL: \$45,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D N BAKER GSFC/J A SLAVIN 11-Astronomy

NAG 5-2797 University of Colorado - Boulder 2925
DYNAMICS OF LARGE SCALE STRUCTURE FROM REDSHIFT SP
ACE
Period *Obligations*
11/18/1994-11/30/1996 FY95: \$90,000 TOTAL: \$90,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A J HAMILTON GSFC/D WEST 11-Astronomy

NAG 5-2634 University of Colorado - Boulder 2918
CLEMENTINE-SCIENCE TEAM MEMBER
Period *Obligations*
06/28/1994-12/31/1995 FY95: TOTAL: \$47,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D N BAKER GSFC/J A SLAVIN 11-Astronomy

NAG 5-2828 University of Colorado - Boulder 2926
ASTEROSEISMOLOGY OF WHITE DWARF STARS
Period *Obligations*
12/07/1994-12/14/1995 FY95: \$18,162 TOTAL: \$18,162
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C HANSEN GSFC/D WEST 11-Astronomy

NAG 5-2664 University of Colorado - Boulder 2919
CEPPAD AND CAMMICE SCIENCE TEAM ACTIVITY SUPPORT
Period *Obligations*
08/01/1994-09/30/1995 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D N BAKER GSFC/M ACUNA 13-Physics

NAG 5-2891 University of Colorado - Boulder 2927
DEBUNKING THE MYTH OF TWO-TEMPERATURE CORONAE FOR
RS CVN SYSTEMS USING CONTEMPRANEOUS HIGH
Period *Obligations*
02/17/1995-02/29/1996 FY95: \$66,652 TOTAL: \$66,652
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J L LINSKY GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2671 University of Colorado - Boulder 2920
THE IMPACT OF PRECIPITATION ON THE TROPICAL OCEAN:
APPLICATION TO TRMM
Period *Obligations*
08/09/1994-08/14/1996 FY95: \$55,000 TOTAL: \$214,728
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J WEBSTER GSFC/W CHAO 31-Atmos Sci
J A CURRY

NAG 5-2977 University of Colorado - Boulder 2928
ABSOLUTE GRAVITY/GPS MEASUREMENTS IN GREENLAND
Period *Obligations*
06/16/1995-06/30/1996 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J WAHR GSFC/H J ZWALLY 11-Astronomy

NAG 5-2681 University of Colorado - Boulder 2921
SAMPEX DATA ANALYSIS
Period *Obligations*
08/08/1994-02/29/1996 FY95: \$75,000 TOTAL: \$192,186
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D N BAKER GSFC/J A SLAVIN 31-Atmos Sci

NAG 5-3006 University of Colorado - Boulder 2929
UV SPECTRA OF ACTIVE GALAXIES FORMATION AND GALAXY
EVOLUTION
Period *Obligations*
07/14/1995-07/31/1996 FY95: \$46,957 TOTAL: \$46,957
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J W SHULL GSFC/D WEST 11-Astronomy

NAG 5-2750 University of Colorado - Boulder 2922
1)THE DYNAMIC CORONAE OF ACTIVE DME STARS; 2)THE MYTH
OF TWO-TEMPERATURE OF CORONAE ACTIVE STARTS
Period *Obligations*
10/05/1994-04/14/1996 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J LINSKY GSFC/N WHITE 11-Astronomy

NAG 5-3007 University of Colorado - Boulder 2930
SYSTEMATIC ANALYSIS OF COOL STELLAR WINDS EXTRACT- ING
THE COSMOLOGICAL PARAMETERS
Period *Obligations*
07/26/1995-07/31/1996 FY95: \$32,000 TOTAL: \$32,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J L LINSKY GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 5-3038 University of Colorado - Boulder 2931
GROUND-BASED SOLAR OBSERVATIONS IN SUPPORT OF SOHO
Period *Obligations*
07/31/1995-08/14/1996 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A KIPLINGER GSFC/A I POLAND 11-Astronomy

NAG 5-3054 University of Colorado - Boulder 2932
AIRBORNE LASER ALTIMETRIC MONITORING OF THE RAPID
EVOLUTION OF TOPOGRAPHY IN THE LONG VALLEY, CA CAL
Period *Obligations*
08/21/1995-08/31/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J B RUNDLE GSFC/H V FREY 19-Phys Sci, NEC

NAG 5-3072 University of Colorado - Boulder 2933
FRACTURE MORPHOLOGY AND NEOTECTONICS OF THE AFAR
DEPRESSION
Period *Obligations*
09/25/1995-09/30/1996 FY95: \$13,180 TOTAL: \$13,180
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R BILHAM GSFC/D J HARDING 32-Geological Sci

NAG 5-5014 University of Colorado - Boulder 2934
COORDINATED STUDIES OF EQUATORIAL MESOSPHERIC AND
LOWER THERMOSPHERIC DYNAMICS BY ROCKET AND CADRE
Period *Obligations*
05/27/1993-12/31/1995 FY95: \$20,000 TOTAL: \$80,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D C FRITTS GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-5020 University of Colorado - Boulder 2935
HIGH RESOLUTION X-RAY SPECTROSCOPY FROM SOUNDING
ROCKETS
Period *Obligations*
03/11/1994-10/31/1995 FY95: \$180,018 TOTAL: \$350,018
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W C CASH GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-5021 University of Colorado - Boulder 2936
SOLAR IRRADIANCE AND THERMOSPHERIC AIRGLOW ROCKET
EXPERIMENTS
Period *Obligations*
04/04/1994-03/31/1996 FY95: \$63,347 TOTAL: \$123,597
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S C SOLOMON GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-5027 University of Colorado - Boulder 2937
ENERGY TRANSFER IN THE THERMOSPHERE AND MESOSPHERE
FUNDING FOR A ONE-YEAR EFFORT IN BASIC RESEARCH
Period *Obligations*
03/03/1995-03/31/1996 FY95: \$44,998 TOTAL: \$44,998
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S C SOLOMON GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-5028 University of Colorado - Boulder 2938
TIDES, PLANETARY WAVES, AND EDDY FORCING OF THE MEAN
MLT CIRCULATION FOR THE TIMED SCIENCE...
Period *Obligations*
03/03/1995-12/31/1995 FY95: \$48,193 TOTAL: \$48,193
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J FORBES GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-5029 University of Colorado - Boulder 2939
A THEORETICAL AND OBSERVATIONAL STUDY OF LARGE AND
SMALL SCALE DYNAMICS IN THE MESOSCALE AND LOWER...
Period *Obligations*
03/03/1995-12/31/1995 FY95: \$45,000 TOTAL: \$45,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D FRITTS GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 8-190 University of Colorado - Boulder 2940
GEOPHYSICAL FLUID FLOW EXPERIMENTS ON THE UNITED STATES
MICROGRAVITY LABORATORY USML-2
Period *Obligations*
04/25/1991-09/06/1994 FY95: TOTAL: \$207,945
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J HART MSFC/J KAUFMAN 13-Physics
J TOOMRE

NAG 8-244 University of Colorado - Boulder 2941
LOW ORDER DECENTRAKIZED CONTROL OF LARGE AEROSPACE
STRUCTURES
Period *Obligations*
08/10/1992-08/31/1994 FY95: TOTAL: \$72,277
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J BALAS MSFC/A P BUKLEY 49-Engr, NEC
MSFC/G MYERS

NAG 8-253 University of Colorado - Boulder 2942
COHERENT LIDAR DESIGN AND PERFORMANCE VERIFICATION
Period *Obligations*
11/13/1992-01/12/1996 FY95: \$45,000 TOTAL: \$224,024
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R G FREHLICH MSFC/M J KAVAVA 13-Physics
MSFC/W D JONES

NAG 8-882 University of Colorado - Boulder 2943
ANALYSIS OF THE U S AIR FORCE DEFENSE METEOROLOGIC
ALSTAELLITE PROGRAM IMAGERY FOR GLOBAL LIGHTING
Period *Obligations*
05/15/1991-05/15/1995 FY95: TOTAL: \$310,156
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G R SCHARFEN MSFC/H J CHRISTIAN 31-Atmos Sci

NAG 8-945 University of Colorado - Boulder 2944
BIOLOGICAL PARTICLES RESEARCH
Period *Obligations*
01/21/1993-01/31/1996 FY95: \$80,000 TOTAL: \$336,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R H DAVIS MSFC/T Y MILLER 43-Chem Engr
M LOEWENBERG
P TODD

NAG 8-1048 University of Colorado - Boulder 2945
ULTRAVIOLET EXTINCTION AND POLARIZATION OF INTER- STELLAR
DUST IN THE LARGE MAGELLANIC CLOUD
Period *Obligations*
03/15/1994-02/28/1996 FY95: \$51,571 TOTAL: \$101,855
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G C CLAYTON MSFC/J OWEN 31-Atmos Sci
J GREEN

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 8-1062 University of Colorado - Boulder 2946
 SOLUTOCAPILLARY CONVECTION EFFECTS ON POLYMERIC
 MEMBRANE MORPHOLOGY
Period *Obligations*
 06/23/1994-06/30/1996 FY95: \$55,000 TOTAL: \$105,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W B KRANTZ MSFC/J P DOWNEY 47-Materials Engr
 P W TODD

NAG 8-1077 University of Colorado - Boulder 2947
 SCIENTIFIC SUPPORT OF THE GOEPHYSICAL FLUID FLOW
 EXPERIMENTS
Period *Obligations*
 04/01/1994-10/31/1994 FY95: TOTAL: \$24,048
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J E HART MSFC/J W KAUFMAN 41-Aero Engr

NAG 8-1091 University of Colorado - Boulder 2948
 JOVE
Period *Obligations*
 09/12/1994-05/31/1996 FY95: TOTAL: \$5,063
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T SNOW MSFC/F SIX 11-Astronomy

NAG 8-1093 University of Colorado - Boulder 2949
 ANALYSIS OF USAF DEFENSE METEOROLOGICAL SATELLITE
 PROGRAM DATA FOR GLOBAL LIGHTING
Period *Obligations*
 11/16/1994-11/15/1996 FY95: \$164,001 TOTAL: \$164,001
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G S SCHARFEN MSFC/S J GOODMAN 31-Atmos Sci
 MSFC/H J CHRISTIAN

NAG 8-1135 University of Colorado - Boulder 2950
 CERAMIC MATRIX COMPOSITES STUDY
Period *Obligations*
 03/27/1995-03/14/1996 FY95: \$57,078 TOTAL: \$57,078
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W ROGERS MSFC/S STOYANOF 49-Engr, NEC

NAG 8-1165 University of Colorado - Boulder 2951
 PREPARATION AND ANALYSIS OF RNA CRYSTALS
Period *Obligations*
 09/22/1995-06/30/1996 FY95: \$175,000 TOTAL: \$175,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P TODD GSFC/A D SHIELDS 51-Biological Sci
 C KUNDROT GSFC/D C CARTER
 S SCHULTZ

NAG 9-407 University of Colorado - Boulder 2952
 ESTIMATING AND MODELING THE BACKGROUND ORBITAL DEBRIS
 POPULATION
Period *Obligations*
 10/01/1989-10/01/1995 FY95: TOTAL: \$38,420
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R CULP JSC/D KESSLER 41-Aero Engr

NAG 9-768 University of Colorado - Boulder 2953
 ORBITAL DEBRIS OPTICAL SIGNATURE TESTS
Period *Obligations*
 09/27/1994-03/31/1996 FY95: TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R CULP JSC/G CRESS 43-Chem Engr

NAGW 766 University of Colorado - Boulder 2954
 THEORY OF SPECTRA FORMATION IN ASTROPHYSICAL SYSTEMS
Period *Obligations*
 07/15/1985-01/31/1996 FY95: \$138,350 TOTAL: \$2,594,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M SCHULL HQ/G C CLAYTON 11-Astronomy
 HQ/A N BUNNER

NAGW 771 University of Colorado - Boulder 2955
 REMOTE SENSING ANALYSIS OF MARS
Period *Obligations*
 06/01/1985-10/31/1996 FY95: \$54,000 TOTAL: \$385,405
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B JAKOSKY HQ/J R UNDERWOOD 32-Geological Sci
 HQ/J M BOYCE

NAGW 1105 University of Colorado - Boulder 2956
 TELECOMMUNICATIONS POLICY, TRENDS AND TECHNOLOGY
Period *Obligations*
 06/01/1987-12/31/1993 FY95: TOTAL: \$897,868
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R BYERLY HQ/J W KIERIER 99-Multi-Discip
 F S BARNES
 D JUNE

NAGW 1110 University of Colorado - Boulder 2957
 ALGORITHM VALIDATION FOR ALONG TRACK SCANNING
 RADIOMETER
Period *Obligations*
 06/01/1987-04/30/1996 FY95: \$115,000 TOTAL: \$1,013,488
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W J EMERY HQ/G S LAGERLOEF 33-Oceanography
 HQ/W S WILSON

NAGW 1124 University of Colorado - Boulder 2958
 ALTIMETRY DATA ASSIMILATION AND NUMERICAL OCEAN
 MODELING
Period *Obligations*
 07/01/1987-03/31/1994 FY95: TOTAL: \$897,848
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G BORN HQ/G S LAGERLOEF 33-Oceanography
 R LEBEN HQ/W S WILSON

NAGW 1176 University of Colorado - Boulder 2959
 MAGNETOTAIL PARTICLE DYNAMICS AND AURORAL
Period *Obligations*
 09/22/1987-06/30/1995 FY95: TOTAL: \$431,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T W SPEISER HQ/M M MELLOTT 13-Physics
 HQ/T W PERRY

NAGW 1197 University of Colorado - Boulder 2960
 CENTER FOR THE COMMERCIAL DEVELOPMENT
Period *Obligations*
 10/14/1987-10/31/1995 FY95: \$2,330,000 TOTAL: \$12,360,146
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M LUTTGES HQ/W A ORAN 59-Life Sci, NEC
 J BERRYMAN HQ/A VILLAMIL

NAGW 1387 University of Colorado - Boulder 2961
 EVOLUTION OF LARGE SCALE PLASMA STRUCTURES IN COMETS
Period *Obligations*
 08/04/1988-03/31/1996 FY95: \$50,000 TOTAL: \$454,667
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J C BRANDT HQ/J H RAHE 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAGW 1388 University of Colorado - Boulder 2962
 CENTER FOR SPACE CONSTRUCTION
Period *Obligations*
 07/20/1988-10/31/1995 FY95: \$390,000 TOTAL: \$10,145,542
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G W MORGANTHALER HQ/M S HIRSCHBEIN 49-Engr, NEC
 S STURE HQ/S C HARTMAN

NAGW 2158 University of Colorado - Boulder 2970
 NAGW-2158/UNIV OF COLORADO/APPLICATION OF MULTISPE
 CTRAL SATELLITE DATA IN POLAR SURFACE ENERGY FLUX
Period *Obligations*
 07/13/1990-03/31/1996 FY95: \$75,131 TOTAL: \$1,007,296
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K STEFFEN HQ/R H THOMAS 33-Oceanography
 HQ/W S WILSON

NAGW 1462 University of Colorado - Boulder 2963
 MAX 91 COORDINATION AND STUDIES OF SOLAR ACTIVITY
Period *Obligations*
 10/05/1988-01/31/1998 FY95: \$56,000 TOTAL: \$391,639
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A L KIPLINGER HQ/J D BOHLIN 13-Physics
 HQ/S KANE

NAGW 2248 University of Colorado - Boulder 2971
 NAGW-2248/UNIV COLORADO @ BOULDER/DYNAMICS OF
 PLANETESIMALS AND KUIPER COMET BELT
Period *Obligations*
 03/11/1991-12/31/1995 FY95: \$73,670 TOTAL: \$267,871
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G R STEWART HQ/J A NUTH 19-Phys Sci, NEC

NAGW 1479 University of Colorado - Boulder 2964
 THEORETICAL ASTROPHYSICS OF COSMIC ULTRAVIOLET AND
 X-RAY
Period *Obligations*
 11/09/1988-12/31/1994 FY95: TOTAL: \$355,493
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M SHULL HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAGW 2318 University of Colorado - Boulder 2972
 SPATIAL AND TEMPORAL STUDIES OF MARTIAN DUST TRANS
 PORT
Period *Obligations*
 12/28/1990-12/31/1994 FY95: TOTAL: \$129,420
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S W LEE HQ/T A MAXWELL 32-Geological Sci

NAGW 1843 University of Colorado - Boulder 2965
 STUDIES OF GLOBAL SEA LEVEL AND ICE SHEET VOLUME
 CHANGES
Period *Obligations*
 10/02/1989-12/31/1993 FY95: TOTAL: \$144,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J WAHR HQ/N B DOUGLAS 39-Env Sci, NEC
 HQ/M BALTUCK

NAGW 2438 University of Colorado - Boulder 2973
 NAGW-2438/UNIV COLORADO/LABORATORY STUDIES OF LOW
 TEMPERATURE RATE COEFFICIENTS: THE ATMOSPHERIC
Period *Obligations*
 05/23/1991-12/31/1997 FY95: \$153,000 TOTAL: \$360,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S R LEONE HQ/J T BERGSTRALH 11-Astronomy

NAGW 1942 University of Colorado - Boulder 2966
 TEMPORAL VARIATIONS OF THE GEOPOTENTIAL
Period *Obligations*
 04/26/1990-12/31/1995 FY95: \$92,000 TOTAL: \$286,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J WAHR HQ/M BALTUCK 19-Phys Sci, NEC

NAGW 2484 University of Colorado - Boulder 2974
 A COMPREHENSIVE ANALYSIS OF IO'S TORUS AND ATMOSPHE
 RE
Period *Obligations*
 05/23/1991-01/31/1997 FY95: \$56,671 TOTAL: \$251,785
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N M SCHNEIDER HQ/W QUAIDE 11-Astronomy

NAGW 1944 University of Colorado - Boulder 2967
 SEQUENTIAL ESTIMATION OF REGIONAL STATION POSITION S FOR
 HIGH TEMPORAL RESOLUTION
Period *Obligations*
 04/26/1990-08/14/1995 FY95: \$49,875 TOTAL: \$182,846
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G ROSBOROUGH HQ/M BALTUCK 19-Phys Sci, NEC

NAGW 2488 University of Colorado - Boulder 2975
 AEROSOL PROPERTIES OF RADIATIVE ENERGY BALANCE OF
 NEPTUNE
Period *Obligations*
 08/07/1991-12/31/1993 FY95: TOTAL: \$98,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W R PRYOR HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 1994 University of Colorado - Boulder 2968
 NAGW-1994/UNIV OF COLORADO/STUDY OF THE SOLAR CORONO
 USING RADIO AND SPACE OBSERVATIONS
Period *Obligations*
 03/01/1990-04/30/1996 FY95: \$36,956 TOTAL: \$444,343
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G A DULK HQ/J D BOHLIN 13-Physics
 HQ/S KANE

NAGW 2492 University of Colorado - Boulder 2976
 IMAGING AND SPECTROSCOPY OF TO'S TOURS AND ATMOSPHE
 RE
Period *Obligations*
 07/25/1991-03/31/1996 FY95: \$70,078 TOTAL: \$263,078
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N M SCNEIDER HQ/J H RAHE 11-Astronomy

NAGW 2116 University of Colorado - Boulder 2969
 NAGW-2116/UNIV OF COLORADO/THERMOSPHERIC AIRGLOW
 MODEL DEVELOPMENT
Period *Obligations*
 05/29/1990-09/30/1995 FY95: TOTAL: \$257,658
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S C SOLOMON HQ/M M MELLOTT 13-Physics
 HQ/T PERRY

NAGW 2598 University of Colorado - Boulder 2977
 NAGW-2598/UNIV COLORADO/PARAMETERIZATION AND SEALING
 OF ARCTIC ICE CONDITIONS IN THE CONTEXT OF ICE-AT
Period *Obligations*
 07/22/1991-03/31/1994 FY95: TOTAL: \$257,620
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R G BARRY HQ/R H THOMAS 39-Env Sci, NEC

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAGW 2651 University of Colorado - Boulder 2978
 A STUDY OF THE EARTH'S LOWER MANTLE AND UPPER CORE
 UTILIZING GEOMAGNETIC AND EARTH ROTATION DATA
Period *Obligations*
 07/24/1991-06/30/1994 FY95: TOTAL: \$93,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F BAGENAL HQ/M BALTUCK 32-Geological Sci

NAGW 2904 University of Colorado - Boulder 2986
 ATMOSPHERIC DIAGNOSTICS AND MODELLING FOR STELLAR
 CHROMOSPHERES AND CORONAL
Period *Obligations*
 02/19/1992-12/31/1993 FY95: TOTAL: \$110,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A BROWN HQ/R STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 2675 University of Colorado - Boulder 2979
 BL LACERTAE OBJECTS
Period *Obligations*
 08/20/1991-04/30/1996 FY95: \$95,100 TOTAL: \$432,900
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J T STOCKE HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2948 University of Colorado - Boulder 2987
 SEA ICE MOTIONS IN THE CENTRAL ARCTIC PACK ICE AS INFERRED
 FROM AVHRR IMAGERY
Period *Obligations*
 03/03/1992-12/31/1994 FY95: TOTAL: \$233,864
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W EMERY HQ/R A SCHIFFER 33-Oceanography
 J A MASLANIK HQ/D M BUTLER

NAGW 2706 University of Colorado - Boulder 2980
 INVERSE SEQUENTIAL PROCEDURES FOR THE MONITORING O F
 TIME SERIES
Period *Obligations*
 09/23/1992-09/30/1995 FY95: TOTAL: \$25,087
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 U RADOK HQ/R A SCHIFFER 39-Env Sci, NEC
 HQ/D M BUTLER

NAGW 2954 University of Colorado - Boulder 2988
 BIB PHOTOCONDUCTIVE MIXERS
Period *Obligations*
 03/03/1992-04/15/1996 FY95: \$81,000 TOTAL: \$315,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A L BETZ HQ/L J CAROFF 11-Astronomy

NAGW 2731 University of Colorado - Boulder 2981
 NAGW-2731/UNIV COLORADO/COLLABORATIVE RESEARCH:
 SCALING THEORIES OF HYDROLOGY, HYDRAULICS
Period *Obligations*
 09/20/1991-12/31/1994 FY95: TOTAL: \$203,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 V K GUPTA HQ/G ASRAR 39-Env Sci, NEC
 E C MEMIRE

NAGW 2968 University of Colorado - Boulder 2989
 MAGNETOTAIL MODELING AND SIMULATION: COMPARISON T O
 OBSERVATIONS
Period *Obligations*
 03/20/1992-12/31/1995 FY95: TOTAL: \$169,547
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 I DOXAS HQ/M M MELLOTT 13-Physics
 HQ/J D BOHLIN

NAGW 2754 University of Colorado - Boulder 2982
 STUDY OF THE LARGE SCALE SOLAR CORONA W/SSM CORONA
 GRAPH/ POLARIMETER DATA
Period *Obligations*
 11/01/1991-03/31/1994 FY95: TOTAL: \$98,565
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F BAGENAL HQ/W J WAGNER 13-Physics
 HQ/K LANG

NAGW 2985 University of Colorado - Boulder 2990
 EFFECT OF GLACIAL AND POLAR ICE ON SPACE GEODETIC
 OBSERVATIONS
Period *Obligations*
 03/16/1992-01/31/1996 FY95: TOTAL: \$55,558
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M WAHR HQ/R E MURPHY 32-Geological Sci
 HQ/D M BUTLER

NAGW 2825 University of Colorado - Boulder 2983
 SME NITRIC OXIDE DATA
Period *Obligations*
 01/03/1992-09/30/1995 FY95: TOTAL: \$187,988
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C BARTH HQ/D L REASONER 13-Physics
 HQ/J D BOHLIN

NAGW 2995 University of Colorado - Boulder 2991
 MICROWAVE SPECTROSCOPIC STDS OF PLANETARY ATMOSPHE
 RE
Period *Obligations*
 03/20/1992-02/28/1995 FY95: TOTAL: \$164,317
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R T CLANCY HQ/W L QUAIDE 11-Astronomy

NAGW 2851 University of Colorado - Boulder 2984
 NAGW-2851/UNIV COLORADO/AN INVESTIGATION OF THE
 IMPORTANCE OF AURORAL PRECIPITATION ON THE SOLAR
Period *Obligations*
 01/31/1992-03/31/1994 FY95: TOTAL: \$84,445
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T J ROWELL HQ/D L REASONER 13-Physics
 HQ/J D BOHLIN

NAGW 3016 University of Colorado - Boulder 2992
 RELATIVE PROTONS AND THE HIGH-ENERGY SPECTRA OF AG NS
Period *Obligations*
 03/20/1992-03/31/1995 FY95: TOTAL: \$90,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M C BEGELMAN HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAGW 2900 University of Colorado - Boulder 2985
 THEORETICAL ANALYSIS OF SPECTRA OF SUPERNOVAE
Period *Obligations*
 02/19/1992-12/31/1996 FY95: \$49,000 TOTAL: \$229,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R MCCRAY HQ/R STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 3034 University of Colorado - Boulder 2993
 THE CORE-MANTLE BOUNDARY AND THE ROTATION OF THE E
 ARTH
Period *Obligations*
 04/03/1992-12/31/1994 FY95: TOTAL: \$111,550
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M WAHR HQ/R E MURPHY 32-Geological Sci
 HQ/D M BUTLER

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAGW 3047 University of Colorado - Boulder 2994
ANALYSIS OF GLOBAL CLOUD IMAGERY FROM MULTIPLE SAT
ELLITES

<i>Period</i>	<i>Obligations</i>	
04/17/1992-01/31/1996	FY95: \$85,580	TOTAL: \$335,580
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M L SALBY	HQ/J C DODGE	31-Atmos Sci
	HQ/R A SCHIFFER	

NAGW 3192 University of Colorado - Boulder 2995
NAGW-3192/UNIV COLORADO/PULSATION, SHOCKS, MASS LOSS
AND DUST: ATMOSPHERES OF LONG PERIOD VARIABLES

<i>Period</i>	<i>Obligations</i>	
09/17/1992-06/30/1996	FY95: \$192,525	TOTAL: \$380,736
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E BRUGEL	HQ/G R RIEGLER	11-Astronomy

NAGW 3196 University of Colorado - Boulder 2996
NAGW-3196/UNIV COLORADO/A DIRECTED SEARCH FOR
EXTRATERRESTRIAL LASER SIGNALS

<i>Period</i>	<i>Obligations</i>	
08/21/1992-06/30/1996	FY95:	TOTAL: \$151,700
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A L BETZ	HQ/J D RUMMEL	11-Astronomy

NAGW 3224 University of Colorado - Boulder 2997
NAGW-3224/UNIV COLORADO @ BOULDER/AUTOMATIC AVHRR
IMAGE NAVIGATION SOFTWARE

<i>Period</i>	<i>Obligations</i>	
10/27/1992-10/14/1993	FY95:	TOTAL: \$19,415
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W EMERY	HQ/M M MAIDEN	39-Env Sci, NEC
	HQ/D M BUTLER	

NAGW 3355 University of Colorado - Boulder 2998
NAGW-3355/UNIV COLORADO @ BOULDER/DUST PLASMA
INTERACTION

<i>Period</i>	<i>Obligations</i>	
01/27/1993-02/28/1996	FY95: \$52,500	TOTAL: \$180,960
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M HORANYI	HQ/E C WHIPPLE	13-Physics
	HQ/G WITHROE	

NAGW 3370 University of Colorado - Boulder 2999
AN ULTRAVIOLET IMAGING SPECTROMETER FOR THE PLUTO/
CHARO MISSION

<i>Period</i>	<i>Obligations</i>	
02/05/1993-05/31/1996	FY95: \$108,521	TOTAL: \$389,179
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W A MCCLINTOCK	HQ/H C BRINTON	19-Phys Sci, NEC

NAGW 3437 University of Colorado - Boulder 3000
ICE SUR. TEMP. RETR. FR. AVHRR, ATSR, AND PASS. MI CR. SATE.
DATA;ALG. DEVE. AND APPL.

<i>Period</i>	<i>Obligations</i>	
03/10/1993-03/31/1996	FY95:	TOTAL: \$257,688
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J KEY	HQ/R H THOMAS	39-Env Sci, NEC
J MASLANIK	HQ/R A SCHIFFER	

NAGW 3482 University of Colorado - Boulder 3001
UNIV COLORADO BOULDER/EVOLUTION OF THE ATMOSPHERE AND
SURFACE OF VENUS

<i>Period</i>	<i>Obligations</i>	
04/08/1993-03/31/1995	FY95:	TOTAL: \$68,800
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D H GRINSPOON	HQ/J T BERGSTRALH	31-Atmos Sci

NAGW 3485 University of Colorado - Boulder 3002
INVESTIGATION OF DYNAMICAL AND CHEMICAL BEHAVIOR O F
THE LOWER STRATOSPHERE AND INTERACTIONS

<i>Period</i>	<i>Obligations</i>	
06/16/1993-05/31/1996	FY95: \$140,000	TOTAL: \$335,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M L SALBY	HQ/J A KAYE	31-Atmos Sci

NAGW 3530 University of Colorado - Boulder 3003
AN INVEN. OF THE MID. STR. OF GEO. STORM EFF. IN T HE
THEM. ION.

<i>Period</i>	<i>Obligations</i>	
04/22/1993-02/29/1996	FY95: \$66,558	TOTAL: \$188,763
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M CODRESCU	HQ/M M MELLOTT	13-Physics
	HQ/G L WITHBROE	

NAGW 3554 University of Colorado - Boulder 3004
TOWARD A THEORY OF BROAD ABSORPTION LINE QSO'S

<i>Period</i>	<i>Obligations</i>	
04/29/1993-11/30/1995	FY95: \$30,000	TOTAL: \$60,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M C BEGELMAN	HQ/H R MILLER	11-Astronomy
	HQ/E J WEILER	

NAGW 3584 University of Colorado - Boulder 3005
THEORETICAL STUDIES OF THE DISTRIBUTION AND EVALUATION
OF WATER IN THE ATMOSPHERE OF VENUS

<i>Period</i>	<i>Obligations</i>	
05/12/1993-05/14/1996	FY95: \$50,000	TOTAL: \$150,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D H GRINSPOON	HQ/M C BRINTON	19-Phys Sci, NEC

NAGW 3593 University of Colorado - Boulder 3006
HIGH RESOLUTION SPECTROSCOPY WITH HOLOGRAPHIC GRAT
INGS

<i>Period</i>	<i>Obligations</i>	
05/20/1993-12/31/1995	FY95: \$45,000	TOTAL: \$135,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J C GREEN	HQ/R STACHNIK	11-Astronomy
	HQ/E WEILER	

NAGW 3600 University of Colorado - Boulder 3007
COMPARISON OF INTERPLANETARY AND INTERSTELLAR GRAI NS

<i>Period</i>	<i>Obligations</i>	
06/09/1993-05/31/1996	FY95: \$22,672	TOTAL: \$56,586
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T P SNOW	HQ/J A NUTH III	19-Phys Sci, NEC

NAGW 3667 University of Colorado - Boulder 3008
EXPLORATIONS IN SCIENCE AND ASTRONOMY EDUCATION

<i>Period</i>	<i>Obligations</i>	
06/25/1993-04/30/1995	FY95:	TOTAL: \$244,936
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J BENNETT	HQ/C MORROW	11-Astronomy
	HQ/G P NEWTON	

NAGW 3768 University of Colorado - Boulder 3009
DEVELOPMENT AND PRODUCTION OF SSM/I GRIDDED BRIGHT
NESS TEMP AND GEOPHYSICAL PRODS FOR PATHFINDER

<i>Period</i>	<i>Obligations</i>	
09/23/1993-09/30/1996	FY95: \$120,000	TOTAL: \$180,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R ARMSTRONG	HQ/M E MAIDEN	33-Oceanography
	HQ/D M BUTLER	

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAGW 3790 University of Colorado - Boulder 3010
 GEOSTATISTICAL STRUCTURE ANALYSIS AND HIGH RESOLUTION MAPPING
Period *Obligations*
 10/06/1993-08/31/1995 FY95: \$89,003 TOTAL: \$113,403
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 U C HERZFELD HQ/R H THOMAS 39-Env Sci, NEC
 HQ/J S THEON

NAGW 3997 University of Colorado - Boulder 3018
 DETERMINATION AND APPLICATIONS OF SATELLITE-DERIVED ATMOSPHERIC WATER CHARACTERISTICS
Period *Obligations*
 05/14/1994-03/31/1996 FY95: \$136,512 TOTAL: \$262,925
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J A CURRY HQ/J C DODGE 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 3838 University of Colorado - Boulder 3011
 NAGW-3838/B UNIV. COLORADO: 'WHAT DRIVES THE OUTFLOW IN BROAD ABSORPTION LINE QSO'S?'
Period *Obligations*
 12/21/1993-03/31/1996 FY95: TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M C BEGELMAN HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 4064 University of Colorado - Boulder 3019
 SUBARCSECOND IMAGING OF THE SOLAR CORONA IN THE 0.5-2.0 KEV BANDPASS
Period *Obligations*
 07/21/1994-06/30/1996 FY95: \$150,000 TOTAL: \$300,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D J GALLAGHER HQ/W J WAGNER 13-Physics

NAGW 3868 University of Colorado - Boulder 3012
 NAGW-3868/B UNIV. OF CO/BOULDER 'COMPREHENSIVE ASSESSMENT OF NASA'S PERSPEC. FROM SPACE POSTER PROJECT'
Period *Obligations*
 02/14/1994-11/14/1994 FY95: TOTAL: \$30,701
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J BENNETT HQ/M V PHELPS 99-Multi-Discip

NAGW 4082 University of Colorado - Boulder 3020
 CHONRULE FORMATION IN LIGHTNING
Period *Obligations*
 07/14/1994-05/31/1996 FY95: \$38,000 TOTAL: \$63,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M HORANYI HQ/P ROGERS 11-Astronomy

NAGW 3887 University of Colorado - Boulder 3013
 UNIV COLORADO; GEOMETRY AND GRAPHICS SOFTWARE FOR PLANETARY SCIENCE OBSERVATIONS
Period *Obligations*
 03/03/1994-03/15/1996 FY95: \$82,000 TOTAL: \$164,966
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K E SIMMONS HQ/G H MUCKLOW 22-Computer Science
 HQ/J H BREDECAMP

NAGW 4145 University of Colorado - Boulder 3021
 JMEX/SAC-D DEFINITION STUDY
Period *Obligations*
 09/28/1994-09/30/1996 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N SCHNEIDER HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAGW 3898 University of Colorado - Boulder 3014
 NAGW-3898/B UNIV. OF COLORADO/BOUL 'PLANETARIUM ALL SKIES' 12-MONTH AWARD
Period *Obligations*
 03/30/1994-04/30/1995 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A HAMILTON HQ/R A MULKEY 11-Astronomy
 HQ/G R RIEGLER

NAGW 4146 University of Colorado - Boulder 3022
 ESTIMATION AND ANALYSIS OF PRECIPITATION OVER THE TROPICAL PACIFIC
Period *Obligations*
 09/28/1994-06/30/1997 FY95: TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S AVERY HQ/J C DODGE 31-Atmos Sci
 J CURRY HQ/R A SCHIFFER

NAGW 3919 University of Colorado - Boulder 3015
 NAGW-3919/B UNIV. COLORADO/BOULDER 'INTERNET ACCESS TO GOES-AND GAC AVHRRR DATA' 24-MO MULTI YR AWR
Period *Obligations*
 04/21/1994-03/31/1996 FY95: \$250,000 TOTAL: \$400,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W EMERY HQ/J C DODGE 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 4205 University of Colorado - Boulder 3023
 CONTINUING THE EOSDIS TESTBED DATA SYSTEM
Period *Obligations*
 11/09/1994-06/30/1995 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W EMERY HQ/M E MAIDEN 22-Computer Science

NAGW 3961 University of Colorado - Boulder 3016
 DYNAMICAL MODELS OF SOLAR SYSTEM FORMATION AND EVOLUTION
Period *Obligations*
 05/10/1994-02/28/1997 FY95: \$52,000 TOTAL: \$104,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G STEWART HQ/R WILLIAMS 32-Geological Sci

NAGW 4230 University of Colorado - Boulder 3024
 TOOLS AND TECHNIQUES FOR AUTOMATING THE ANALYSIS OF EOSDIS DATA
Period *Obligations*
 01/20/1995-12/31/1995 FY95: \$464,343 TOTAL: \$464,343
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W EMERY HQ/R S MCGINNIS 22-Computer Science

NAGW 3995 University of Colorado - Boulder 3017
 THE EVOLUTION OF THE MARTIAN ATMOSPHERE
Period *Obligations*
 05/14/1994-02/28/1997 FY95: \$64,904 TOTAL: \$124,904
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B JAKOSKY HQ/J BERGSTRALH 31-Atmos Sci

NAGW 4267 University of Colorado - Boulder 3025
 LABORATORY STUDIES OF THE VISIBLE SPECTROSCOPY AND CHEMISTRY OF POLYCYCLIC AROMATIC HYDROCARBONS
Period *Obligations*
 01/25/1995-12/31/1995 FY95: \$80,000 TOTAL: \$80,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T SNOW HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAGW 4271 University of Colorado - Boulder 3026
 THE FABRICATION OF ULTRA-LIGHT HOLOGRAPHIC GRATING S
Period Obligations
 01/31/1995-12/31/1996 FY95: \$49,000 TOTAL: \$49,000
Prin. Invest. NASA Tech. Officer CASE Category
 J C GREEN HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 4495 University of Colorado - Boulder 3034
 THERMOSPHERIC AIRGLOW MODEL VALIDATION
Period Obligations
 05/16/1995-03/31/1996 FY95: \$28,000 TOTAL: \$28,000
Prin. Invest. NASA Tech. Officer CASE Category
 S C SOLOMON HQ/J D BOHLIN 13-Physics

NAGW 4373 University of Colorado - Boulder 3027
 FORMATION OF THE MOON FROM AN IMPACT GENERATED DEBRIS
 DISK
Period Obligations
 03/31/1995-12/31/1995 FY95: \$45,000 TOTAL: \$45,000
Prin. Invest. NASA Tech. Officer CASE Category
 L ESPOSITO HQ/P G ROGERS 31-Atmos Sci

NAGW 4529 University of Colorado - Boulder 3035
 THE FUNDAMENTAL PHYSICAL PROCESSES PRODUCING AND
 CONTROLLING STELLAR CORONAL TRANSITIONS REGION
Period Obligations
 05/30/1995-04/30/1996 FY95: \$133,900 TOTAL: \$133,900
Prin. Invest. NASA Tech. Officer CASE Category
 T AYRES HQ/G R RIEGLER 11-Astronomy

NAGW 4402 University of Colorado - Boulder 3028
 GENERATION AND APPLICATION OF AVHRR - DERIVED ICE MOTIONS
 FOR THE ARCTIC
Period Obligations
 04/14/1995-02/28/1998 FY95: \$90,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
 J MASLANIK HQ/R H THOMAS 39-Env Sci, NEC
 W EMERY HQ/M BALTUCK

NAGW 4579 University of Colorado - Boulder 3036
 THE POPULATION OF SMALL COMETS: OPTIMUM TECHNIQUE S
 FOR DETECTION
Period Obligations
 06/28/1995-06/30/1996 FY95: \$63,499 TOTAL: \$63,499
Prin. Invest. NASA Tech. Officer CASE Category
 J BRANDT HQ/E BARKER 11-Astronomy

NAGW 4451 University of Colorado - Boulder 3029
 NATURAL OSCILLATIONS OF THE THERMOSPHERE IONOSPHERE
 SYSTEM
Period Obligations
 04/28/1995-04/30/1998 FY95: \$63,020 TOTAL: \$63,020
Prin. Invest. NASA Tech. Officer CASE Category
 J M FORBES HQ/J D BOHLIN 13-Physics

NAGW 4585 University of Colorado - Boulder 3037
 MODELING MONITORING AND FAULT DIAGNOSIS OF SPACECRAF
 T AIR CONTAMINANTS
Period Obligations
 07/05/1995-05/31/1996 FY95: \$115,536 TOTAL: \$115,536
Prin. Invest. NASA Tech. Officer CASE Category
 W F RAMIREZ HQ/G SCHMIDT 59-Life Sci, NEC

NAGW 4453 University of Colorado - Boulder 3030
 NONLINEAR WAVES AND PARTICLE HEATING IN THE AURORAL
 IONOSPHERE
Period Obligations
 04/28/1995-05/31/1998 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 M V GOLDMAN HQ/J D BOHLIN 13-Physics

NAGW 4590 University of Colorado - Boulder 3038
 EXTERNALLY ILLUMINATED PROTO-PLANETARY DISKS
Period Obligations
 07/12/1995-03/31/1996 FY95: \$50,318 TOTAL: \$50,318
Prin. Invest. NASA Tech. Officer CASE Category
 J BALLY HQ/P G ROGERS 19-Phys Sci, NEC

NAGW 4454 University of Colorado - Boulder 3031
 INFRARED LINE EMISSION FROM MOLECULAR GAS HEATED X-RAYS
 AND ENERGETIC ELECTRONS
Period Obligations
 04/28/1995-04/30/1998 FY95: \$79,700 TOTAL: \$79,700
Prin. Invest. NASA Tech. Officer CASE Category
 P MALONEY HQ/G R RIEGLER 11-Astronomy

NAGW 4591 University of Colorado - Boulder 3039
 SYMPOSIUM ON HYDRODYNAMIC DIFFUSION
Period Obligations
 06/23/1995-02/28/1996 FY95: \$7,000 TOTAL: \$7,000
Prin. Invest. NASA Tech. Officer CASE Category
 R DAVIS HQ/ 43-Chem Engr

NAGW 4475 University of Colorado - Boulder 3032
 ATMOS NITRIC OXIDE DATA ANALYSIS
Period Obligations
 05/15/1995-03/31/1996 FY95: \$33,000 TOTAL: \$33,000
Prin. Invest. NASA Tech. Officer CASE Category
 C A BARTH HQ/J D BOHLIN 13-Physics

NAGW 4673 University of Colorado - Boulder 3040
 X-RAY EMISSION FROM PRE-MAIN-SEQUENCE STARS - TEST ING
 THE SOLAR ANALOGY
Period Obligations
 08/10/1995-05/31/1996 FY95: \$88,000 TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 J LINSKY HQ/G R RIEGLER 11-Astronomy

NAGW 4484 University of Colorado - Boulder 3033
 SPECTRAL AND TEMPORAL PROPERTIES OF BLACK HOLE CAN
 DIDATES
Period Obligations
 05/12/1995-04/30/1996 FY95: \$70,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
 M NOWAK HQ/G R RIEGLER 11-Astronomy

NAGW 4689 University of Colorado - Boulder 3041
 SATELLITE REMOTE SENSING OF ECOSYSTEM STRUCTURAL AND
 FUNCTIONAL CHANGES: INTEGRATING SPECTRAL MIXTURE
Period Obligations
 08/10/1995-07/31/1998 FY95: \$105,000 TOTAL: \$105,000
Prin. Invest. NASA Tech. Officer CASE Category
 C WESSMAN HQ/G ASRAR 39-Env Sci, NEC

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAGW 4725 University of Colorado - Boulder 3042
 THE INTERSTELLAR MEDIUM IN THREE DIMENSIONS
Period Obligations
 08/28/1995-08/31/1997 FY95: \$34,137 TOTAL: \$34,137
Prin. Invest. NASA Tech. Officer CASE Category
 T P SNOW HQ/R A STACHNIK 11-Astronomy

NAS 5-31860 University of Colorado - Boulder 3050
 RESEARCH SOFTWARE DEVELOPMENT UNDER NRA 91-OSSA-19
 ADP PROGRAM.
Period Obligations
 09/30/1992-09/29/1995 FY95: TOTAL: \$265,000
Prin. Invest. NASA Tech. Officer CASE Category
 B DOMIK GSFC/R J OLIVERSON 11-Astronomy

NAGW 4742 University of Colorado - Boulder 3043
 POLAR GEOPHYSICAL PRODUCTS DERIVED FROM AVHRR
Period Obligations
 09/08/1995-06/30/1998 FY95: \$154,313 TOTAL: \$154,313
Prin. Invest. NASA Tech. Officer CASE Category
 J A MASLANIK HQ/M E MAIDEN 39-Env Sci, NEC

NAS 5-32392 University of Colorado - Boulder 3051
 OPERATION OF SNOW AND ICE DISTRIBUTED ACTIVE ARCHIVE
 CENTER.
Period Obligations
 04/19/1993-01/31/1998 FY95: \$2,303,713 TOTAL: \$5,879,713
Prin. Invest. NASA Tech. Officer CASE Category
 R G BARRY GSFC/G HUNOLT 42-Astro Engr

NAGW 4743 University of Colorado - Boulder 3044
 GENERATION OF LEVEL 3 SSM/I BRIGHTNESS TEMPERATURE S
 FOR THE PERIOD 1978-1988
Period Obligations
 09/08/1995-06/30/1998 FY95: \$100,001 TOTAL: \$100,001
Prin. Invest. NASA Tech. Officer CASE Category
 R L AMSTRONG HQ/M E MAIDEN 39-Env Sci, NEC

NAS 5-32568 University of Colorado - Boulder 3052
 PHASE B-INVESTIGATION - TIMED INSTRUMENT - TONE
Period Obligations
 09/15/1993-09/30/1994 FY95: TOTAL: \$210,000
Prin. Invest. NASA Tech. Officer CASE Category
 D W RUSCH GSFC/B CAMPBELL 31-Atmos Sci

NAGW 4755 University of Colorado - Boulder 3045
 RADARSAT ANTARCTIC MAPPING PROJECT
Period Obligations
 09/21/1995-06/30/1998 FY95: \$7,254 TOTAL: \$7,254
Prin. Invest. NASA Tech. Officer CASE Category
 R BARRY HQ/M E MAIDEN 39-Env Sci, NEC
 T SCAMBOIS HQ/D M BUTLER

NAS 8-31958 University of Colorado - Boulder 3053
 STUDY OF GEOPHYSICAL FLUID DYNAMICS WITH ELECTRO -
 HYDRODYNAMICS POLARIZATION FORCES.
Period Obligations
 03/26/1976-09/30/1996 FY95: TOTAL: \$2,918,718
Prin. Invest. NASA Tech. Officer CASE Category
 J E HART MSFC/G HALL 19-Phys Sci, NEC
 J TOOMRE MSFC/G H FICHTL

NAGW 4772 University of Colorado - Boulder 3046
 STUDIES OF A LASER INTERFEROMETER SPACE ANTENNA (L ISA)
Period Obligations
 09/16/1995-08/31/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 P L BENDER HQ/M KAPLAN 13-Physics
 HQ/D W WEEDMAN

NAS 8-38779 University of Colorado - Boulder 3054
 MECHANICS OF GRANULAR MATERIALS MICROGRAVITY
Period Obligations
 09/24/1992-09/30/1997 FY95: \$170,000 TOTAL: \$1,097,200
Prin. Invest. NASA Tech. Officer CASE Category
 S STURE MSFC/G E HALL 47-Materials Engr

NAS 5-27263 University of Colorado - Boulder 3047
 PERFORM A STUDY OF THE RESPONSE OF UPPER ATMOSPHERE
 PARAMETERS TO VARIATIONS IN SOLAR ACTIVITY
Period Obligations
 07/07/1982-01/31/1996 FY95: \$129,117 TOTAL: \$1,105,974
Prin. Invest. NASA Tech. Officer CASE Category
 J LONDON GSFC/C REBER 31-Atmos Sci

NASW 4873 University of Colorado - Boulder 3055
 NEW AWARD FOR INSTEP PROGRAM PHASE A
Period Obligations
 06/27/1994-03/31/1995 FY95: TOTAL: \$113,185
Prin. Invest. NASA Tech. Officer CASE Category
 L D PETERSON HQ/A B DOUGHERTY 42-Astro Engr
 M S LAKE

NAS 5-31711 University of Colorado - Boulder 3048
 EOS INVESTIGATION: HIGH-RESOLUTION IMAGING SPECTROMETER
 (HIRIS)-TEAM LEADER
Period Obligations
 02/24/1992-12/31/1995 FY95: TOTAL: \$1,123,545
Prin. Invest. NASA Tech. Officer CASE Category
 A GOETZ GSFC/H BLODGET 31-Atmos Sci

NASW 4879 University of Colorado - Boulder 3056
 BASIC RESEARCH ON MODULAR ISOLATION MICROGRAVITY
 EXPERIMENT
Period Obligations
 05/12/1994-02/11/1995 FY95: TOTAL: \$108,047
Prin. Invest. NASA Tech. Officer CASE Category
 D LAWRENCE HQ/J LANDERS 41-Aero Engr

NAS 5-31715 University of Colorado - Boulder 3049
 HIGH RESOLUTION IMAGING SPECTROMETER (HIRIS)
 INVESTIGATION
Period Obligations
 01/14/1992-12/31/1995 FY95: TOTAL: \$560,036
Prin. Invest. NASA Tech. Officer CASE Category
 C WESSMAN GSFC/T BRAKE 31-Atmos Sci

NCC 1-143 University of Colorado - Boulder 3057
 A STUDY OF THE VARIATION OF NITROGEN DIOXIDE USING SME
 AND SAGE DATA.
Period Obligations
 06/07/1990-12/31/1993 FY95: TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 D W RUSCH LARC/J M ZAWODNY 31-Atmos Sci
 G E THOMAS

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NCC 2-842 University of Colorado - Boulder 3058
HIGH SPATIAL RESOLUTION SURFACE MODELS FROM THE IN
TEGRATION OF REPEAT LOW RESOLUTION SATELLITE....
Period *Obligations*
01/27/1994-09/30/1995 FY95: \$94,500 TOTAL: \$189,525
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W J EMERY ARC/P E FRIEDLAND 22-Computer Science

NCC 2-904 University of Colorado - Boulder 3059
COMPREHENSION BASED ANALYSIS OF AUTOFLIGHT SYSTEM
INTERFACES
Period *Obligations*
06/28/1995-06/30/1996 FY95: \$77,189 TOTAL: \$77,189
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P G POLSON ARC/E A PALMER 49-Engr, NEC
ARC/M SHAFTO

NCC 2-5014 University of Colorado - Boulder 3060
A COMPUTATIONAL STUDY OF FLUID-STRUCTURE COUPLING IN
JUNCTURE FLOWS
Period *Obligations*
12/21/1993-12/31/1995 FY95: \$40,000 TOTAL: \$80,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S BIRINGEN ARC/T HOLST 41-Aero Engr

NCC 2-5067 University of Colorado - Boulder 3061
OPTICAL DESIGN OF PLANT CANOPY ARCHITEC. MEASUREME NT
INSTRUMENT AND FABRICATION OF TWO DIMENSIONAL...
Period *Obligations*
06/08/1994-05/31/1996 FY95: TOTAL: \$14,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B J VAN ARC/V C VANDERBILT 45-Elec Engr
ZEGHBROECK

NCC 3-210 University of Colorado - Boulder 3062
FLUID DYNAMICS AND SOLIDIFICATION OF METALLIC MELTS:
SURFACE TENSION GRADIENT EFFECTS
Period *Obligations*
03/06/1991-09/30/1994 FY95: TOTAL: \$258,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J KOSTER LERC/F P CHIARAMONTE 47-Materials Engr

NCC 3-272 University of Colorado - Boulder 3063
OFF AXIS DRAG OF DENDRITE FRAGMENTS AT LOW REYNOLD S
NUMBER
Period *Obligations*
07/15/1992-08/31/1994 FY95: TOTAL: \$28,199
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P D WEIDMAN LERC/H C DEGROH 47-Materials Engr
LERC/T GLASGOW

NCC 5-67 University of Colorado - Boulder 3064
A STUDY OF GPS MEASUREMENT ERRORS DUE TO NOISE AND
MULTIPATH INTERFERENCE
Period *Obligations*
04/14/1994-07/14/1995 FY95: TOTAL: \$24,957
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P AXELRAD GSFC/S KANT 41-Aero Engr
P MACDORAN

NCCW 37 University of Colorado - Boulder 3065
UNIV COLORADO DISTRIBUTION AND AUTOMATION TECHNOLOGY
ADVANCEMENT
Period *Obligations*
02/17/1994-08/31/1996 FY95: \$154,643 TOTAL: \$200,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R R HANSEN HQ/R A GUALDONI 41-Aero Engr

NGT 00-010-033 University of Colorado - Boulder 3066
CENTER FOR SPACE CONSTRUCTION GRADUATE TRAINING
PROGRAM
Period *Obligations*
12/22/1994-10/31/1997 FY95: \$328,165 TOTAL: \$328,165
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R SU HQ/V BITTINGER 41-Aero Engr

NGT 00-030-060 University of Colorado - Boulder 3067
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
09/16/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L CHEN HQ/D M BUTLER 31-Atmos Sci
J LONDON HQ/G S WILSON

NGT 00-030-095 University of Colorado - Boulder 3068
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
09/06/1991-05/31/1994 FY95: TOTAL: \$43,430
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T SEASTEDT HQ/D BUTLER 39-Env Sci, NEC

NGT 00-030-102 University of Colorado - Boulder 3069
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/30/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T P HARTSELL HQ/G ASRAR 31-Atmos Sci
HQ/D M BUTLER

NGT 00-030-131 University of Colorado - Boulder 3070
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/21/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J MILLS HQ/G ASRAR 33-Oceanography
HQ/D M BUTLER

NGT 00-030-132 University of Colorado - Boulder 3071
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/21/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A M MIDDLEBROOK HQ/G ASRAR 33-Oceanography
HQ/D M BUTLER

NGT 00-030-133 University of Colorado - Boulder 3072
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/30/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R VILLALBA HQ/G ASRAR 39-Env Sci, NEC
HQ/D M BUTLER

NGT 00-030-139 University of Colorado - Boulder 3073
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/30/1992-08/31/1994 FY95: TOTAL: \$40,219
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J GOSNELL HQ/G ASRAR 39-Env Sci, NEC
HQ/D M BUTLER

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NGT 00-030-175 University of Colorado - Boulder 3074
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A F GOETZ HQ/G ASRAR 32-Geological Sci
 HQ/D M BUTLER

NGT 00-030-266 University of Colorado - Boulder 3082
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/29/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D WALKER HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-187 University of Colorado - Boulder 3075
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M SALBY HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-030-285 University of Colorado - Boulder 3083
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/29/1994-08/31/1996 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A CURRY HQ/R A SCHIFFER 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-205 University of Colorado - Boulder 3076
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D J HOFMANN HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-030-290 University of Colorado - Boulder 3084
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/14/1994-08/31/1995 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A HICKE HQ/R A SCHIFFER 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-206 University of Colorado - Boulder 3077
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A R RAVISHANKARA HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-030-322 University of Colorado - Boulder 3085
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/31/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J OVERPECK HQ/G ASRAR 39-Env Sci, NEC
 HQ/M BALTUCK

NGT 00-030-207 University of Colorado - Boulder 3078
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G H BORN HQ/G ASRAR 39-Env Sci, NEC

NGT 00-030-353 University of Colorado - Boulder 3086
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/31/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 M A TOLBERT HQ/R A SCHIFFER 31-Atmos Sci
 HQ/G ASRAR

NGT 00-030-210 University of Colorado - Boulder 3079
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R K MONSON HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-040-008 University of Colorado - Boulder 3087
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
 10/19/1989-01/31/1998 FY95: \$454,666 TOTAL: \$2,322,666
Prin. Invest. NASA Tech. Officer CASE Category
 E R HANSEN HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-030-261 University of Colorado - Boulder 3080
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/29/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J COLE HQ/A C JANETOS 33-Oceanography
 HQ/G ASRAR

NGT 00-050-660 University of Colorado - Boulder 3088
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/11/1990-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 T P SNOW HQ/F C OWENS 13-Physics

NGT 00-030-265 University of Colorado - Boulder 3081
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/29/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 V VAIDA HQ/R A SCHIFFER 31-Atmos Sci
 HQ/G ASRAR

NGT 00-050-709 University of Colorado - Boulder 3089
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1991-12/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M M KULAS HQ/F C OWENS 42-Astro Engr

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NGT 00-050-728 University of Colorado - Boulder 3090
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1991-07/27/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A F GOETZ HQ/F C OWNES 19-Phys Sci, NEC

NGT 00-050-923 University of Colorado - Boulder 3099
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/22/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M TOLBERT HQ/J ALEXANDER 12-Chemistry

NGT 00-050-759 University of Colorado - Boulder 3091
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/20/1991-06/30/1995 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 G BORN HQ/F C OWNES 42-Astro Engr

NGT 00-050-934 University of Colorado - Boulder 3100
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/18/1992-06/31/1996 FY95: \$7,832 TOTAL: \$73,832
Prin. Invest. NASA Tech. Officer CASE Category
 C BARTH GSFC/J DURNING 42-Astro Engr

NGT 00-050-809 University of Colorado - Boulder 3092
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 P S CONTI HQ/J ALEXANDER 11-Astronomy

NGT 00-050-954 University of Colorado - Boulder 3101
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/11/1992-06/30/1995 FY95: TOTAL: \$61,000
Prin. Invest. NASA Tech. Officer CASE Category
 L D PETERSON MSFC/F SIX 41-Aero Engr

NGT 00-050-872 University of Colorado - Boulder 3093
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/15/1992-08/16/1996 FY95: \$22,000 TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 R CULP JSC/S GOLDSTEIN 41-Aero Engr

NGT 00-050-955 University of Colorado - Boulder 3102
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 01/01/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W C CASH HQ/J K ALEXANDER 13-Physics

NGT 00-050-887 University of Colorado - Boulder 3094
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 04/28/1992-08/14/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G H BAM JPL/H ASHKENAS 41-Aero Engr

NGT 00-050-958 University of Colorado - Boulder 3103
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/17/1992-08/19/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 E ZWIBEL HQ/J K ALEXANDER 13-Physics

NGT 00-050-899 University of Colorado - Boulder 3095
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/28/1992-06/30/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A MCCRAY GSFC/G SOFFEN 13-Physics

NGT 00-050-985 University of Colorado - Boulder 3104
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1992-07/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S BIRINGEN LARC/E PRIOR 41-Aero Engr

NGT 00-050-909 University of Colorado - Boulder 3096
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/29/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J T STOCKE HQ/J ALEXANDER 31-Atmos Sci

NGT 00-051-034 University of Colorado - Boulder 3105
 GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
 07/07/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D E SMITH GSFC/G SOFFEN 41-Aero Engr

NGT 00-050-915 University of Colorado - Boulder 3097
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/30/1992-07/01/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W HAY HQ/J ALEXANDER 33-Oceanography

NGT 00-051-040 University of Colorado - Boulder 3106
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/05/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R R LEBEN JPL/C HIX 41-Aero Engr

NGT 00-050-916 University of Colorado - Boulder 3098
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/29/1992-08/14/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 F BAGENAL HQ/J ALEXANDER 13-Physics

NGT 00-051-091 University of Colorado - Boulder 3107
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/25/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 N M SCHNEIDER HQ/D HOLLAND 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NGT 00-051-128 University of Colorado - Boulder 3108
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/14/1993-08/22/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
R LEBEN HQ/G LESANE 41-Aero Engr

NGT 00-051-283 University of Colorado - Boulder 3117
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/07/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
J GREEN HQ/D HOLLAND 11-Astronomy

NGT 00-051-135 University of Colorado - Boulder 3109
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/19/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
M A TOLBERT HQ/G LESANE 12-Chemistry

NGT 00-051-291 University of Colorado - Boulder 3118
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/28/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
J STOCKE HQ/D HOLLAND 11-Astronomy

NGT 00-051-141 University of Colorado - Boulder 3110
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/13/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
G BORN HQ/G LESANE 41-Aero Engr

NGT 00-051-294 University of Colorado - Boulder 3119
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/26/1994-06/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
D H GRINSPOON ARC/M MOORE 11-Astronomy

NGT 00-051-179 University of Colorado - Boulder 3111
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/02/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
J N KOSTER MSFC/B SWINFORD 41-Aero Engr

NGT 00-051-297 University of Colorado - Boulder 3120
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/28/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
G W MORGENTHALER HQ/D HOLLAND 41-Aero Engr

NGT 00-051-206 University of Colorado - Boulder 3112
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/06/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
R FREHLICH MSFC/F SIX 45-Elec Engr

NGT 00-051-373 University of Colorado - Boulder 3121
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/30/1994-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
R LEBEN HQ/A NOVOTING 42-Astro Engr

NGT 00-051-224 University of Colorado - Boulder 3113
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/26/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
M A TOLBERT HQ/A NOVOTNY 31-Atmos Sci

NGT 00-051-380 University of Colorado - Boulder 3122
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/06/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
T P SNOW HQ/D HOLLAND 11-Astronomy

NGT 00-051-227 University of Colorado - Boulder 3114
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/16/1994-08/23/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
P AXELRAD GSFC/G SOFFEN 41-Aero Engr

NGT 00-051-398 University of Colorado - Boulder 3123
GRADUATE STUDENT RESEARCHERS PROGRAMS
Period Obligations
07/07/1995-08/14/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
D M ETTER HQ/A NOVOTNY 45-Elec Engr

NGT 00-051-257 University of Colorado - Boulder 3115
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/14/1994-08/23/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
A MICHELSON LARC/L EVANS 45-Elec Engr

NGT 00-051-415 University of Colorado - Boulder 3124
GSRP
Period Obligations
08/29/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
M TOLBERT HQ/A NOVOTNY 12-Chemistry

NGT 00-051-271 University of Colorado - Boulder 3116
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
B M ARGROW GSFC/G SOFFEN 41-Aero Engr

NGT 00-051-420 University of Colorado - Boulder 3125
GSRP
Period Obligations
09/16/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
R SIE JPL/C HIX 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NGT 00-051-421 University of Colorado - Boulder 3126
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
09/13/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P TODD HQ/G LESANE 41-Aero Engr

NGT 00-070-242 University of Colorado - Boulder 3127
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
06/25/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M W LUTTGES HQ/F C OWENS 41-Aero Engr

NGT 00-070-266 University of Colorado - Boulder 3128
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
05/15/1992-06/30/1996 FY95: \$22,000 TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G W ROSBOROUGH HQ/D K RUSSELL 41-Aero Engr

NGT 00-070-291 University of Colorado - Boulder 3129
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
07/01/1992-06/30/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C E FOSHA HQ/J T LYNCH 45-Elec Engr

NGT 00-070-301 University of Colorado - Boulder 3130
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
11/27/1992-07/31/1995 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D G MEYER LERC/F MONTEGRANI 45-Elec Engr

NGT 00-070-389 University of Colorado - Boulder 3131
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
08/23/1994-06/30/1997 FY95: \$44,000 TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D CULP HQ/D K RUSSELL 33-Oceanography

NGT 3-52306 University of Colorado - Boulder 3132
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/31/1995-08/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R H DAVIS LERC/L SHAW 43-Chem Engr

NGT 5-5 University of Colorado - Boulder 3133
TIDAL WAVELENGTHS FROM ALONG TRACK ALTIMETRY AND
IMPLICATIONS FOR GRIDGING TIDAL SOLUTIONS
Period *Obligations*
06/22/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G H BORN GSFC/G A SOFFEN 39-Env Sci, NEC
GSFC/R S NEREM

NSG-5300 University of Colorado - Boulder 3134
RESEARCH OF STELLAR WIND VARIABILITY IN ALPHA CAM USING
ULTRAVIOLET DATA FROM IUE
Period *Obligations*
09/15/1978-08/31/1994 FY95: TOTAL: \$825,940
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T P SNOW JR GSFC/D WEST 11-Astronomy
C L JOSEPH
E B JENKINS

NSG-5303 University of Colorado - Boulder 3135
ULTRAVIOLET MEASUREMENTS WITH HIGH SPECTRAL
RESOLUTION
Period *Obligations*
09/15/1978-11/30/1995 FY95: \$495,875 TOTAL: \$5,958,764
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T P SNOW JR. GSFC/L J EARLY 11-Astronomy
W E MCCLINTOCK GSFC/R H PLESS
W C CASH

NAG 1-1444 University of Colorado - Denver 3136
ADAPTIVE CONTROL STRATEGIES FOR FLEXIBLE ROBOTIC ARM
Period *Obligations*
07/13/1992-01/31/1996 FY95: TOTAL: \$44,639
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J T BIALASIEWICZ LARC/D I SOLOWAY 45-Elec Engr

NAG 1-1537 University of Colorado - Denver 3137
IMPLICIT AND MULTIGRID DIRECT NUMERICAL SIMULATION OF
BOUNDARY-LAYER TRANSITION AND 3-D GENERAL GEO
Period *Obligations*
07/28/1993-07/27/1994 FY95: TOTAL: \$36,983
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C LIU LARC/R D JOSLIN 41-Aero Engr

NAG 1-1651 University of Colorado - Denver 3138
IMPLICIT AND MULTIGRID METHOD FOR IMPROVING VOR-3D I
CODE
Period *Obligations*
10/28/1994-10/31/1995 FY95: \$49,763 TOTAL: \$49,763
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C LIU LARC/C H LIU 41-Aero Engr
R A SWEET

NAG 9-612 Univ. of Colorado Health Science Center 2834
ROLE OF PERIPHERAL BLOOD MONOCYTES IN MEDIATING AND
CELL HYPORESPONSIVENESS DURING HUMAN STRESS
Period *Obligations*
06/15/1992-05/01/1995 FY95: TOTAL: \$182,830
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R T MEEHAN JSC/C F SAMS 56-Medical Sciences
JSC/H LANE

NAGW 3850 Univ. of Colorado Health Science Center 2835
UNIV COLORADO HEALTH SCI CTR; ROLE OF PERIPHERAL B LOOD
MONOCYTES IN MDEIATING T CELL
Period *Obligations*
01/11/1994-12/31/1994 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R T MEEHAN HQ/J H STOKLOSA 59-Life Sci, NEC

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NAG 1-1336 University of Denver 3139
UNIVERSITY OF DENVER CORRELATIVE MEASUREMENTS IN
SUPPORT OF THE UARS
Period Obligations
09/04/1991-04/30/1995 FY95: TOTAL: \$854,241
Prin. Invest. NASA Tech. Officer CASE Category
D G MURCRAY LARC/J G WELLS 31-Atmos Sci
H E ROCHE

NCC 1-48 University of Denver 3147
COLLABORATIVE STUDY OF HIGH RESOLUTION INFRARED
ATMOSPHERIC SPECTRA
Period Obligations
11/26/1980-11/30/1996 FY95: \$85,000 TOTAL: \$635,705
Prin. Invest. NASA Tech. Officer CASE Category
A GOLDMAN LARC/C P RINSLAND 31-Atmos Sci
D G MURCRAY LARC/R K SEALS

NAG 2-351 University of Denver 3140
INFRARED MEASUREMENTS OF ATMOSPHERIC CONSTITUENTS
Period Obligations
12/12/1985-04/30/1996 FY95: \$349,575 TOTAL: \$4,004,393
Prin. Invest. NASA Tech. Officer CASE Category
D G MURCRAY ARC/E P CONDON 31-Atmos Sci

NCC 2-782 University of Denver 3148
AEROSOL MEASUREMENTS FROM THE ER-2 IN SPADE II AND A
SHOME: UPGRADE OF THE FOCUSED CAVITY AEROSOL ...
Period Obligations
02/18/1993-12/31/1995 FY95: \$266,000 TOTAL: \$680,000
Prin. Invest. NASA Tech. Officer CASE Category
J C WILSON ARC/E CONDON 31-Atmos Sci

NAG 3-1609 University of Denver 3141
MICROGRAVITY HEAT TRANSFER MECHANISMS IN THE NUCLE ATE
POOL BOILING ANDD CRITICAL HEAT FLUX REIMES
Period Obligations
05/24/1994-07/09/1996 FY95: \$49,954 TOTAL: \$99,925
Prin. Invest. NASA Tech. Officer CASE Category
J KIM LERC/J B MCQUILLEN 49-Engr, NEC
C A MOORE

NCC 2-894 University of Denver 3149
HIGHLY RESOLVED AEROSOL MEASUREMENTS FROM HIGH ALT
ITUDE PLATFORMS: FOCUSED CAVITY AEROSOL
Period Obligations
03/21/1995-02/29/1996 FY95: \$350,000 TOTAL: \$350,000
Prin. Invest. NASA Tech. Officer CASE Category
J C WILSON ARC/S S WEGENER 31-Atmos Sci

NAG 5-2103 University of Denver 3142
FIFTEENTH EPISODE MONITORING OF LONG PERIOD ECLIPS ING
SYSTEMS AND INTERSYSTEM C II LINES
Period Obligations
10/08/1992-03/31/1996 FY95: TOTAL: \$84,000
Prin. Invest. NASA Tech. Officer CASE Category
R E STENCEL GSFC/D WEST 11-Astronomy

NGT 00-051-290 University of Denver 3150
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/30/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
R E STENCEL HQ/D HOLLAND 11-Astronomy

NAG 5-2368 University of Denver 3143
HIGH RESOLUTION SPECTROGRAPH/GTO OBSERVATIONS OF E
VOLVED STAR INTERACTING BINARIES
Period Obligations
09/30/1993-09/30/1995 FY95: TOTAL: \$18,045
Prin. Invest. NASA Tech. Officer CASE Category
R E STENCEL GSFC/K G CARPENTER 11-Astronomy
GSFC/A M SMITH

NSG-1432 University of Denver 3151
GROUND MONITORING OF ATMOSPHERIC CONSTITUENTS BY HIGH
RESOLUTION INFRARED SOLAR SPECTROSCOPY
Period Obligations
07/08/1977-04/10/1996 FY95: \$69,996 TOTAL: \$1,245,701
Prin. Invest. NASA Tech. Officer CASE Category
D G MURCRAY LARC/C P RINSLAND 39-Env Sci, NEC
LARC/M A SMITH

NAG 5-2799 University of Denver 3144
NEUTRAL BEMA FACILITY SUPPORT FOR THE STUDY OF NEU TRAL
TO ION CONVERSION TECHNIQUES
Period Obligations
12/01/1994-12/14/1995 FY95: \$9,000 TOTAL: \$9,000
Prin. Invest. NASA Tech. Officer CASE Category
T M STEPHEN GSFC/M F SMITH 19-Phys Sci, NEC
GSFC/F HERRERO

NAG 8-227 University of Northern Colorado 3152
JOVE
Period Obligations
02/25/1992-08/15/1996 FY95: \$19,520 TOTAL: \$120,520
Prin. Invest. NASA Tech. Officer CASE Category
C JACKSON MSFC/F SIX 54-Env Biology
S FRYE
R WALCH

NAGW 3680 University of Denver 3145
ISO OBSERVATIONS OF CIRCUMSTELLAR DISKS: CLUES TO THE
BIRTH AND DEATH OF PLANETS
Period Obligations
08/03/1993-05/31/1996 FY95: \$40,000 TOTAL: \$131,261
Prin. Invest. NASA Tech. Officer CASE Category
R E STENCEL HQ/L J CAROFF 11-Astronomy

NGT 00-090-263 University of Northern Colorado 3153
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
01/18/1995-08/14/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
P C ISAACSON HQ/D K RUSSELL 21-Mathematics

NAS 5-29311 University of Denver 3146
MEASUREMENT OF X-RAYS AND INTERGETIC ELECTRONS IN VLF
TRIGGER EXPERIMENTS
Period Obligations
01/28/1986-01/31/1996 FY95: TOTAL: \$138,975
Prin. Invest. NASA Tech. Officer CASE Category
F WHITE GSFC/R GOLDBERG 11-Astronomy

NCC 2-373 University of Southern Colorado 3154
INVESTIGATION OF ADVANCED FAILURE MODES ANALYSES TESTS
FOR HARRIER DIGITAL AVIONICS
Period Obligations
10/01/1987-11/30/1995 FY95: \$282,116 TOTAL: \$2,510,752
Prin. Invest. NASA Tech. Officer CASE Category
W R DUNN ARC/R A JACOBSEN 49-Engr, NEC
M LEE ARC/R YEE

**NASA'S UNIVERSITY PROGRAM
COLORADO (Continued)**

NCC 2-609 University of Southern Colorado 3155
 INVESTIGATION OF ADVANCED SYSTEM ASSURANCE TECHNOLOGIES
Period *Obligations*
 05/22/1989-11/30/1995 FY95: \$232,320 TOTAL: \$1,036,013
Prin. Invest. NASA Tech. Officer CASE Category
 W R DUNN ARC/L W DOTY 49-Engr, NEC
 ARC/C N BURROUS

NCC 5-64 University of Connecticut 3163
 CONNECT: A NEW ENGLAND ALLIANCE FOR PHOTONICS TECHNOLOGY DEPLOYMENT PROJECT IN SUPPORT OF TRP PRGRM
Period *Obligations*
 08/02/1994-08/14/1995 FY95: TOTAL: \$369,000
Prin. Invest. NASA Tech. Officer CASE Category
 C ROYCHOUDHURI GSFC/N MINNFIELD 49-Engr, NEC

CONNECTICUT

NAG 1-1382 University of Connecticut 3157
 NEAR-THRESHOLD FATIGUE CRACK GROWTH IN ALUMINUM ALLOYS AND TI-6AL-4V FOR AMBIENT TO 400 DEGREES F
Period *Obligations*
 02/28/1992-02/25/1996 FY95: \$50,000 TOTAL: \$203,918
Prin. Invest. NASA Tech. Officer CASE Category
 A J MCEVILY LARC/J C NEWMAN 47-Materials Engr
 LARC/C E HARRIS

NGT 00-030-240 University of Connecticut 3164
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 09/14/1994-08/31/1995 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J SILANDER HQ/A C JANETOS 39-Env Sci, NEC

NGT 00-070-214 University of Connecticut 3165
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
 06/04/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C S SUNG HQ/F C OWENS 43-Chem Engr

NAG 3-1258 University of Connecticut 3158
 HEAT CONDUCTION PROPERTIES OF COMPOSITES WITH A PERIODIC MICROSTRUCTURE
Period *Obligations*
 03/13/1991-02/28/1995 FY95: TOTAL: \$158,042
Prin. Invest. NASA Tech. Officer CASE Category
 E H JORDAN LERC/A D FREED 46-Mech Engr
 K P WALKER LERC/M A MCGAW

NAGW 3332 Univ. of Connecticut Health Center 3156
 COLLAGEN PROMOTER TRANSGENE ACTIVITY IN NORMAL AND MUTANT MICE
Period *Obligations*
 02/05/1993-01/31/1996 FY95: \$60,000 TOTAL: \$180,000
Prin. Invest. NASA Tech. Officer CASE Category
 D W ROWE HQ/T W HALSTEAD 51-Biological Sci

NAGW 2088 University of Connecticut 3159
 CALIBRATION AND TESTING OF POPULATION DYNAMICS MODELS AT MULTIPLE SPATIAL SCALES USING REMOTE SENS.
Period *Obligations*
 05/14/1990-10/31/1993 FY95: TOTAL: \$314,779
Prin. Invest. NASA Tech. Officer CASE Category
 S PACALS HQ/M M AVERNER 54-Env Biology

NAG 8-274 University of Hartford 3166
 JOVE
Period *Obligations*
 12/10/1992-05/31/1996 FY95: TOTAL: \$67,000
Prin. Invest. NASA Tech. Officer CASE Category
 L NAGURNEY MSFC/F SIX 99-Multi-Discip

NAGW 4572 University of Connecticut 3160
 THE EARLY EVOLUTION OF PRO- AND EUKARYOTES
Period *Obligations*
 06/09/1995-03/31/1998 FY95: \$30,001 TOTAL: \$30,001
Prin. Invest. NASA Tech. Officer CASE Category
 J P GOGARTEN HQ/M MEYER 51-Biological Sci

NAGW 4463 University of Hartford 3167
 GLOBAL LEARNING AND OBSERVATIONS TO BENEFIT THE ENVIRONMENT (GLOBE) TEACHER TRAINING SITE
Period *Obligations*
 05/12/1995-02/29/1996 FY95: \$19,259 TOTAL: \$19,259
Prin. Invest. NASA Tech. Officer CASE Category
 E MCDANIEL HQ/L KEEFER 99-Multi-Discip

NAS 3-26619 University of Connecticut 3161
 X-RAY BASED EXTENSOMETRY
Period *Obligations*
 07/13/1992-06/30/1995 FY95: TOTAL: \$161,821
Prin. Invest. NASA Tech. Officer CASE Category
 E JORDAN LERC/J P BARRENGER 47-Materials Engr

NGT 00-040-037 University of Hartford 3188
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period *Obligations*
 08/15/1991-02/28/1998 FY95: \$269,251 TOTAL: \$932,751
Prin. Invest. NASA Tech. Officer CASE Category
 L S NAGURNEY HQ/E T SCHWARTZ 99-Multi-Discip

NCC 2-5123 University of Connecticut 3162
 MULTIPLE FAULT ISOLATION IN REDUNDANT SYSTEMS
Period *Obligations*
 04/14/1995-05/31/1997 FY95: \$39,982 TOTAL: \$39,982
Prin. Invest. NASA Tech. Officer CASE Category
 K R PATTIPATI ARC/A PATTERSON-HINE 49-Engr, NEC
 ARC/D L IVERSON

NAGW 3632 Wesleyan University 3169
 PHOTOMETRIC STUDIES OF T TAURI STARS
Period *Obligations*
 05/28/1993-05/31/1996 FY95: \$60,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
 W HERBST HQ/J A NUTH 19-Phys Sci, NEC

**NASA'S UNIVERSITY PROGRAM
CONNECTICUT (Continued)**

NAG 2-948	Yale University	3170	
SYNAPTOGENESIS IN MICROGRAVITY			
<i>Period</i>		<i>Obligations</i>	
12/20/1994-11/30/1995	FY95: \$72,162	TOTAL: \$72,162	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
H S KESHISHIAN	ARC/W E HINDS	51-Biological Sci	
	ARC/C M WINGET		
NAG 3-996	Yale University	3171	
FUEL-RICH CATALYTICALLY STABILIZED COMBUSTION			
<i>Period</i>		<i>Obligations</i>	
02/07/1989-03/01/1995	FY95:	TOTAL: \$553,337	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
L D PFETTERLE	LERC/C M LEE	99-Multi-Discip	
C HORVATH			
A OLIVER			
NAG 3-1259	Yale University	3172	
COMBUSTION OF ELECTROSTATIC SPRAYS OF LIQUID FUELS IN LAMINAR AND TURBULENT REGIMES			
<i>Period</i>		<i>Obligations</i>	
03/13/1991-01/09/1995	FY95:	TOTAL: \$371,033	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
A GOMEZ	LERC/D P STOCKER	46-Mech Engr	
M B LONG			
M D SMOOKE			
NAG 3-1625	Yale University	3173	
NUMERICAL MODELING OF FLAME-BALLS IN FUEL-AIR MIXTURES			
<i>Period</i>		<i>Obligations</i>	
06/22/1994-06/21/1996	FY95: \$23,000	TOTAL: \$52,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
M D SMOOKE	LERC/H D ROSS	46-Mech Engr	
NAG 3-1654	Yale University	3174	
FLUID CREEP EFFECTS ON NEAR WALL SOLUTE TRANSPORT FOR NON ISOTHERMAL AMPOULES AND SUSPENDED PARTICLE			
<i>Period</i>		<i>Obligations</i>	
07/19/1994-07/18/1996	FY95: \$50,000	TOTAL: \$100,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
D E ROSNER	LERC/J S LING	13-Physics	
NAG 3-1688	Yale University	3175	
SPRAY COMBUSTION AT NORMAL AND REDUCED GRAVITY IN CO UNDERFLOW AND CO-FLOW CONFIGURATIONS			
<i>Period</i>		<i>Obligations</i>	
12/12/1994-12/14/1995	FY95: \$115,900	TOTAL: \$115,900	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
A GOMEZ	LERC/D STOCKER	46-Mech Engr	
NAG 3-1752	Yale University	3176	
PRESSURE DEPENDENCE OF MODERATE TEMPERATURE BENZENE OXIDATION: EXPERIMENTAL AND MODELING RESULTS			
<i>Period</i>		<i>Obligations</i>	
05/31/1995-05/30/1996	FY95: \$90,000	TOTAL: \$90,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
Y CHAI	LERC/C LEE	41-Aero Engr	
L PFEFFERLE			
NAG 5-736	Yale University	3177	
SOLAR RADIUS-LUMINOSITY STUDIES			
<i>Period</i>		<i>Obligations</i>	
02/15/1986-05/14/1996	FY95:	TOTAL: \$319,362	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
S SOFIA	GSFC/E J MAIER	31-Atmos Sci	
NAG 5-1486	Yale University	3178	
GLOBAL MODELING OF YEARS-TO-CENTURIES TIMESCALE			
<i>Period</i>		<i>Obligations</i>	
11/26/1990-04/30/1994	FY95:	TOTAL: \$675,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
P DEMARQUE	GSFC/T J BIRMINGHAM	13-Physics	
NAG 5-1619	Yale University	3179	
HRI OBSERVATIONS OF NEARBY GLOBULAR CLUSTERS: II NGC 6656			
<i>Period</i>		<i>Obligations</i>	
10/15/1991-04/14/1994	FY95:	TOTAL: \$33,955	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
C D BAILYN	GSFC/R PETRE	11-Astronomy	
NAG 5-2316	Yale University	3180	
NONLINEAR DYNAMICS OF GLOBAL ATMOSPHERIC AND EARTH SYSTEM PROCESSES			
<i>Period</i>		<i>Obligations</i>	
07/12/1993-01/14/1995	FY95:	TOTAL: \$50,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
B SALTZMAN	GSFC/O W THIELE	31-Atmos Sci	
NAG 5-2775	Yale University	3181	
STUDIES OF GAMMA RAY BURSTS			
<i>Period</i>		<i>Obligations</i>	
11/01/1994-10/31/1995	FY95: \$88,926	TOTAL: \$88,926	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
B E SCHAEFER	GSFC/J P NORRIS	11-Astronomy	
	GSFC/N WHITE		
NAG 5-2795	Yale University	3182	
THE SOLAR-STELLAR CONNECTION: THEORETICAL RESEARCH ON THE INTERNAL STRUCTURE AND DYNAMICS OF			
<i>Period</i>		<i>Obligations</i>	
12/01/1994-08/31/1996	FY95: \$204,960	TOTAL: \$204,960	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
P DEMARQUE	GSFC/D WEST	11-Astronomy	
NAG 5-2867	Yale University	3183	
EVOLUTION OF MERGERS AND COLLISION REMNANTS IN GLOBULAR CLUSTERS			
<i>Period</i>		<i>Obligations</i>	
01/09/1995-01/14/1996	FY95: \$42,000	TOTAL: \$42,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
C D BALLYN	GSFC/D WEST	11-Astronomy	
NAG 5-2892	Yale University	3184	
SUPERCONDUCTING FILMS AND TUNNEL JUNCTIONS FOR SINGLE-PHOTON X-RAY DETECTORS			
<i>Period</i>		<i>Obligations</i>	
02/13/1995-10/31/1995	FY95: \$122,000	TOTAL: \$122,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
D E PROBER	GSFC/S H MOSELEY	13-Physics	
	GSFC/A E SZYMKOWIAK		
NAG 8-947	Yale University	3185	
FOAM METALLIC GLASS			
<i>Period</i>		<i>Obligations</i>	
01/19/1993-01/13/1996	FY95: \$120,000	TOTAL: \$360,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
R E APPEL	MSFC/D REISS	47-Materials Engr	

**NASA'S UNIVERSITY PROGRAM
CONNECTICUT (Continued)**

NAG 8-1127 **Yale University** **3186**
 INTERACTION AND AGGREGATION OF COLLOIDAL BIOLOGICAL PARTICLES AND DROPLETS IN ELECTRICALLY DRIVEN FLO
Period *Obligations*
 03/01/1995-02/29/1996 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M LOEWENBERG MSFC/T Y MILLER 43-Chem Engr
 MSFC/D C CARTER

NAGW 2469 **Yale University** **3187**
 WHEN STARS COLLIDE; COMPACT OBJECTS IN GLOBULAR CLUSTERS
Period *Obligations*
 05/01/1991-12/31/1995 FY95: \$47,693 TOTAL: \$422,122
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C BAILYN HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2531 **Yale University** **3188**
 NAGW-2531/YALE UNIV/THEORETICAL STUDIES OF THE SOLAR-STELLAR CONNECTION WITH THE AID OF SPACE
Period *Obligations*
 06/03/1991-02/28/1995 FY95: TOTAL: \$574,165
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P DEMARQUE HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 3563 **Yale University** **3189**
 INTERPRETATION OF ULTRAVIOLET AND VISIBLE OBSERVATIONS OF METAL RICH GALAXIES
Period *Obligations*
 04/29/1993-12/31/1995 FY95: \$60,000 TOTAL: \$180,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A OEMLER HQ/R STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 3879 **Yale University** **3190**
 YALE UNIV; TERAHERTZ SUPERCONDUCTOR - HOT ELECTRON RECEIVERS; 12/1/93 NEW AWARD
Period *Obligations*
 02/16/1994-11/30/1995 FY95: \$174,233 TOTAL: \$249,233
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D E PROBER HQ/L J CAROFF 11-Astronomy
 HQ/J M VRTILEK

NAGW 4197 **Yale University** **3191**
 MODELING THE CO2-INDUCED THICKENING/THINNING OF THE GREENLAND AND ANTARCTIC ICE SHEETS
Period *Obligations*
 09/11/1994-09/30/1996 FY95: \$269,966 TOTAL: \$269,966
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B SALTZMAN HQ/R H THOMAS 39-Env Sci, NEC
 HQ/J S THEON

NCC 2-726 **Yale University** **3192**
 CULTIVATION OF TOMATO TISSUES CAPABLE OF FORMING FLOWERS AND MATURE FRUITS IN VITRO
Period *Obligations*
 06/28/1991-10/31/1994 FY95: TOTAL: \$309,896
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A W GALSTON ARC/R D MACELROY 51-Biological Sci

NGT 00-030-118 **Yale University** **3193**
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 10/30/1992-08/31/1994 FY95: \$178 TOTAL: \$44,178
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C G WRAY HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-143 **Yale University** **3194**
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 11/02/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M F COCHRAN HQ/G ASRAR 33-Oceanography
 HQ/D M BUTLER

NGT 00-030-315 **Yale University** **3195**
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 09/05/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P K BARTEN HQ/N MAYNARD 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-050-586 **Yale University** **3196**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/24/1990-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D E PROBER HQ/F C OWENS 13-Physics

NGT 00-050-651 **Yale University** **3197**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 09/12/1990-08/31/1994 FY95: TOTAL: \$65,920
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S SOFIA HQ/F C OWENS 11-Astronomy

NGT 00-050-832 **Yale University** **3198**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/25/1991-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L J GUIDO HQ/F C OWENS 13-Physics

NGT 00-051-037 **Yale University** **3199**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 05/05/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D PROBER JPL/C HIX 13-Physics

NGT 00-051-209 **Yale University** **3200**
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/07/1993-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D E PROBER GSFC/G SOFFEN 13-Physics

NGT 00-051-395 **Yale University** **3201**
 GSRP
Period *Obligations*
 06/16/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L J GUIDO JPL/C HICKS 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
CONNECTICUT (Continued)**

NGT 00-090-113 **Yale University** **3202**
GRSP/UMF
Period *Obligations*
09/16/1992-08/14/1995 FY95: TOTAL: \$36,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R WEBER HQ/D K RUSSELL 99-Multi-Discip

NAG 5-2598 **University of Delaware** **3210**
WHITE DWARF STARS
Period *Obligations*
05/18/1994-05/31/1996 FY95: TOTAL: \$6,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H L SHIPMAN GSFC/R OLIVERSEN 11-Astronomy

NGT 00-090-265 **Yale University** **3203**
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period *Obligations*
12/19/1994-08/14/1996 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R WEBER HQ/D K RUSSELL 13-Physics

NAG 8-1038 **University of Delaware** **3211**
FORMATION OF ORDERED ARRAYS OF PROTEINS ON SURFACE
Period *Obligations*
03/25/1994-06/30/1995 FY95: TOTAL: \$96,614
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A LENHOFF MSFC/R SNYDER 51-Biological Sci

DELAWARE

NAG 8-248 **Delaware State College** **3204**
JOVE
Period *Obligations*
08/10/1992-08/09/1996 FY95: TOTAL: \$69,961
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P DIMARIC MSFC/C R CHAPPELL 11-Astronomy

NAG 9-789 **University of Delaware** **3212**
STUDIES OF COASTAL DYNAMICS W/SPACE SHUTTLE DATA
Period *Obligations*
06/28/1995-07/01/1996 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D KLEMAS JSC/S RUNCO 19-Phys Sci, NEC

NAG 1-1383 **University of Delaware** **3205**
TESTING AND CHARACTERIZATION OF THROUGH-THE-THICK NESS
PROPERTIES OF MULTI-DIRECTIONALLY REINFORCED
Period *Obligations*
02/20/1992-11/12/1995 FY95: TOTAL: \$173,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T CHOU LARC/W C JACKSON 47-Materials Engr
A PARVIZI-MAJIDI LARC/C E HARRIS

NAGW 1040 **University of Delaware** **3213**
ISOTOPIC COMPOSITION OF COSMIC RAY HELIUM FROM 0.3 TO
1.8
Period *Obligations*
02/15/1987-02/14/1996 FY95: \$200,000 TOTAL: \$1,639,574
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P EVENSON HQ/W V JONES 13-Physics

NAG 2-638 **University of Delaware** **3206**
PERFORMANCE AND POLICY DIMENSIONS IN INTERNET ROUTING
Period *Obligations*
05/22/1990-01/31/1994 FY95: TOTAL: \$815,480
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D L MILLS ARC/H LUM 45-Elec Engr
G C BONCELET ARC/D MCKELLAR

NAGW 1644 **University of Delaware** **3214**
THEORETICAL STUDIES IN COSMIC PHYSICS
Period *Obligations*
03/02/1989-02/28/1995 FY95: TOTAL: \$360,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T K GAISSER HQ/M M MELLOTT 13-Physics
HQ/W V JONES

NAG 3-1424 **University of Delaware** **3207**
SURFACTANT-BASED CRITICAL PHENOMENA IN MICROGRAVITY
Period *Obligations*
01/11/1993-12/31/1996 FY95: \$100,000 TOTAL: \$300,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E W KALER LERC/R A WILKINSON 13-Physics
M E PAULAITIS

NAGW 1674 **University of Delaware** **3215**
COORDINATION OF COMPUTER NETWORKING
Period *Obligations*
03/13/1989-06/30/1994 FY95: TOTAL: \$342,365
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F WEBSTER HQ/G S LAGERLOEF 33-Oceanography
HQ/W S WILSON

NAG 5-2365 **University of Delaware** **3208**
THE HOT WHITE DWARF STAR CD 394
Period *Obligations*
09/09/1993-09/14/1996 FY95: \$45,000 TOTAL: \$66,454
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H L SHIPMAN GSFC/R OLIVERSEN 11-Astronomy

NAGW 2624 **University of Delaware** **3216**
NAGW-2624/UNIV. DELEWARE/ANALYSIS AND DYNAMICCAL MOD
ELLING OF UV LINE PROFILE VARIABILITY IN HOT STAR
Period *Obligations*
08/02/1991-04/30/1995 FY95: TOTAL: \$275,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S P CWOCKI HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAG 5-2512 **University of Delaware** **3209**
THE HIGHEST QUALITY ULTRAVIOLET SPECTRUM OF 40 ERIB
Period *Obligations*
02/16/1994-02/28/1995 FY95: TOTAL: \$2,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H L SHIPMAN GSFC/D WEST 11-Astronomy

NAGW 2953 **University of Delaware** **3217**
RESPONSE OF X-BAND NORMALIZED RADAR CROSS SECTION TO
SEA SURFACE TEMPERATURE AND WAVE NUMBER SPECTRA
Period *Obligations*
03/06/1992-12/31/1994 FY95: TOTAL: \$117,529
Prin. Invest. *NASA Tech. Officer* *CASE Category*
X H YAN HQ/J S THEON 33-Oceanography

**NASA'S UNIVERSITY PROGRAM
DISTRICT OF COLUMBIA (Continued)**

NGT 00-051-032 The American University 3291
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/14/1991-10/31/1995 FY95: \$3,492 TOTAL: \$47,492
Prin. Invest. NASA Tech. Officer CASE Category
R B KAY GSFC/G SOFFEN 13-Physics

NAG 5-1783 The Catholic University of America 3299
IUE OBS., OF MASS OUTFLOWS IN BETA PICTORIS AND A-SH ELL
STAR; IUE OBS. OF A AND B STAR CANDIDATE . . .
Period Obligations
09/13/1991-09/30/1993 FY95: TOTAL: \$43,582
Prin. Invest. NASA Tech. Officer CASE Category
F BRUHWEILER GSFC/D WEST 11-Astronomy

NAG 1-1296 The Catholic University of America 3292
AUTOMATION AND OPERATOR 'COMPLACENCY' IN MONITORING
Period Obligations
06/21/1991-06/30/1996 FY95: \$153,896 TOTAL: \$586,253
Prin. Invest. NASA Tech. Officer CASE Category
R PARASURAMAN LARC/A T POPE 69-Psych, NEC
LARC/J R COMSTOCK

NAG 5-2057 The Catholic University of America 3300
SUPPORT AND ANALYSIS FOR THE VOYAGER UVS GUEST OBS
ERVER AND ARCHIVAL PROGRAMS
Period Obligations
08/05/1992-12/31/1995 FY95: TOTAL: \$68,000
Prin. Invest. NASA Tech. Officer CASE Category
F C BRUHWEILER GSFC/R S POLIDAN 11-Astronomy
GSFC/R J OLIVERSON

NAG 5-780 The Catholic University of America 3293
ACTIVE CONTROL OF ROBOT MANIPULATOR COMPLIANCE
Period Obligations
05/15/1986-12/31/1995 FY95: \$50,000 TOTAL: \$493,426
Prin. Invest. NASA Tech. Officer CASE Category
C C NGUYEN GSFC/T PREMACK 45-Elec Engr

NAG 5-2126 The Catholic University of America 3301
DELINEATING THE SPECTRAL TYPE BOUNDARY FOR THE ONS ET
OF CHROMOSPHERIC ACTIVITY
Period Obligations
10/28/1992-12/31/1995 FY95: TOTAL: \$63,500
Prin. Invest. NASA Tech. Officer CASE Category
F C BRUHWELLER GSFC/D WEST 12-Chemistry

NAG 5-1353 The Catholic University of America 3294
LABORATORY AND IUE SPECTROSCOPY: EXPANDING
DATABASE
Period Obligations
04/11/1990-12/31/1995 FY95: TOTAL: \$121,600
Prin. Invest. NASA Tech. Officer CASE Category
F C BRUHWEILER GSFC/D WEST 11-Astronomy

NAG 5-2284 The Catholic University of America 3302
MORPHOLOGY OF LOCAL H I VOID AND THE IONIZATION OF HELIUM
IN THE LISM AND GALACTIC HALO
Period Obligations
06/11/1993-06/14/1996 FY95: \$132,491 TOTAL: \$255,483
Prin. Invest. NASA Tech. Officer CASE Category
F C BRUHWELLER GSFC/R O LIVERSON 11-Astronomy

NAG 5-1413 The Catholic University of America 3295
OBSERVATIONS OBTAINED W/ GODDARD HIGH RESOLUTION
Period Obligations
08/02/1990-05/14/1996 FY95: \$40,000 TOTAL: \$260,641
Prin. Invest. NASA Tech. Officer CASE Category
F C BRUHWEILER GSFC/A SMITH 11-Astronomy
C A GRADY

NAG 5-2445 The Catholic University of America 3303
PARTICIPATION IN THE MAGNETOMETER EXPERIMENT ON WIND
Period Obligations
12/06/1993-12/14/1995 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
Y C WHANG GSFC/R P LEPPING 13-Physics

NAG 5-1414 The Catholic University of America 3296
TIME-DEPENDENT MODEL TO CALCULATE TONIC AND
MOLECULAR
Period Obligations
08/02/1990-09/14/1996 FY95: \$38,000 TOTAL: \$172,360
Prin. Invest. NASA Tech. Officer CASE Category
C H LYU GSFC/A M SMITH 11-Astronomy
F C BRUHWEILER

NAG 5-2814 The Catholic University of America 3304
RESEARCH SUPPORT OF WIND MAGNETIC FIELD INSTRUMENT
(MFI)
Period Obligations
12/12/1994-12/14/1995 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
Y C WHANG GSFC/R P LEPPING 13-Physics

NAG 5-1415 The Catholic University of America 3297
SPACE-RATED CONNECTORS USING ROBOT-END-EFFECTORS
Period Obligations
08/02/1990-09/30/1993 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
C C NGUYEN GSFC/L PURVES 29-Math/Computer, NEC

NAG 5-2881 The Catholic University of America 3305
INVESTIGATION OF CORONAL LARGE SCALE STRUCTURE USING
SPARTAN 201 DATA
Period Obligations
01/30/1995-01/31/1996 FY95: \$98,226 TOTAL: \$98,226
Prin. Invest. NASA Tech. Officer CASE Category
M GUHATHAKURTA GSFC/R R FISHER 11-Astronomy

NAG 5-1580 The Catholic University of America 3298
A SURVEY OF X-RAY EMISSION FROM BE STARS; A ROSAT
INVESTIGATION OF FLARE-LIKE ACTIVITY IN THE B2E...
Period Obligations
05/21/1991-03/31/1994 FY95: TOTAL: \$15,990
Prin. Invest. NASA Tech. Officer CASE Category
F BRUHWEILER GSFC/R PETRE 11-Astronomy

NAG 5-3037 The Catholic University of America 3306
A STUDY TO DETERMINE THE EFFECTS OF SPACE EXPLORA- TION
ON THE FUTURE AND DIRECTION OF HUMAN CIVIL...
Period Obligations
07/31/1995-08/14/1996 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
F C BRUHWEILER GSFC/Y KONDO 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
DISTRICT OF COLUMBIA (Continued)**

NCC 5-68 The Catholic University of America 3307
STUDIES OF ELEMENTARY REACTIONS OF CHEMICAL IMPORTANCE
IN THE ATMOSPHERES OF PLANETS
Period Obligations
04/28/1994-04/30/1996 FY95: \$42,607 TOTAL: \$89,015
Prin. Invest. NASA Tech. Officer CASE Category
F L NESBITT GSFC/L J STIEF 12-Chemistry

NCC 5-83 The Catholic University of America 3308
RESEARCH OF COSMIC HARD X-RAYS AND GAMMA RAYS
Period Obligations
03/28/1995-03/31/1996 FY95: \$353,962 TOTAL: \$353,962
Prin. Invest. NASA Tech. Officer CASE Category
C WEMTZ GSFC/D OLIVERSEN 11-Astronomy
R STARR

NGT 00-070-043 The Catholic University of America 3309
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
10/20/1987-11/30/1994 FY95: TOTAL: \$142,000
Prin. Invest. NASA Tech. Officer CASE Category
F BRUHWEILER HQ/F C OWENS 13-Physics

NGT 00-070-371 The Catholic University of America 3310
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
08/30/1994-06/30/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
F C BRUHWEILER HQ/D K RUSSELL 19-Phys Sci, NEC

NSG-5066 The Catholic University of America 3311
RESEARCH OF SOLAR HARD X-RAYS AND GAMMA-RAYS
Period Obligations
05/01/1975-03/31/1994 FY95: \$50,735 TOTAL: \$2,620,320
Prin. Invest. NASA Tech. Officer CASE Category
C WERNITZ GSFC/L ORWIG 11-Astronomy
R STARR GSFC/R L SCHMADEBECK

NSG-5173 The Catholic University of America 3312
ATOM-MOLECULE REACTIONS OF CHEMICAL IMPORTANCE IN THE
STRATHOSPHERE
Period Obligations
06/01/1977-04/30/1994 FY95: TOTAL: \$630,758
Prin. Invest. NASA Tech. Officer CASE Category
D GUIMAN GSFC/D F NAVA 12-Chemistry
J V MICHAEL

NAG 5-2943 Gallaudet University 3231
NTSS: NASA'S TECHNICAL EXPERIENCE FOR SELECTED
STUDENTS
Period Obligations
05/22/1995-05/31/1996 FY95: \$64,354 TOTAL: \$64,354
Prin. Invest. NASA Tech. Officer CASE Category
NISSEN GSFC/D MENCHEN 99-Multi-Discip

NGT 00-090-013 Gallaudet University 3232
A MODEL SUMMER PROGRAM FOR HANDICAPPED COLLEGE
STUDENTS
Period Obligations
06/08/1988-12/31/1995 FY95: TOTAL: \$370,896
Prin. Invest. NASA Tech. Officer CASE Category
NISSEN HQ/M MARGOLIS 49-Engr, NEC

NGT 00-090-057 Gallaudet University 3233
UNDERGRADUATE STUDENT RESEARCHERS PRG
Period Obligations
11/26/1991-08/31/1996 FY95: \$72,000 TOTAL: \$181,152
Prin. Invest. NASA Tech. Officer CASE Category
G MCGAUGHRAN HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-075 Gallaudet University 3234
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
09/12/1992-08/14/1996 FY95: \$12,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
G MCGAUGHRAN HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-182 Gallaudet University 3235
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
G MCGAUGHRAN HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-275 Gallaudet University 3236
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
12/16/1994-08/14/1996 FY95: \$16,750 TOTAL: \$16,750
Prin. Invest. NASA Tech. Officer CASE Category
G MCGAUGHRAN HQ/D K RUSSELL 13-Physics

NAG 1-1353 George Washington University 3237
RESEARCH AND EDUCATION PROGRAM FOR NON-TRADITIONAL
ENGINEERING STUDENTS IN THE JIAFS
Period Obligations
10/09/1991-11/07/1995 FY95: \$167,191 TOTAL: \$432,417
Prin. Invest. NASA Tech. Officer CASE Category
J L WHITESIDES LARC/R L YANG 49-Engr, NEC
LARC/E J PRIOR

NAG 1-1386 George Washington University 3238
DEVELOPMENT AND APPLICATION OF PARALLEL ALGORITHMS FOR
CFD USING UNSTRUCTURED GRIDS
Period Obligations
02/13/1992-05/31/1994 FY95: TOTAL: \$97,766
Prin. Invest. NASA Tech. Officer CASE Category
R LOHNER LARC/M D SALAS 29-Math/Cmputer, NEC
LARC/T A ZANG

NAG 5-697 George Washington University 3239
MATHEMATICAL MODELING OF ENERGY MINIMIZING OFF- DESIGN
SHAPES OF LARGE SCIENTIFIC BALLOONS
Period Obligations
01/25/1993-02/29/1996 FY95: \$72,326 TOTAL: \$230,243
Prin. Invest. NASA Tech. Officer CASE Category
F BAGINSKI GSFC/H C NEEDLEMAN 41-Aero Engr
GSFC/I S SMITH

NAG 5-1807 George Washington University 3240
CORRELATION EFFECTS IN VEGETATION MODELING FOR DETERM.
OF HYDRAULIC PARAMTRS. IN UNDERLYING SOILS
Period Obligations
09/19/1991-09/30/1994 FY95: TOTAL: \$65,997
Prin. Invest. NASA Tech. Officer CASE Category
N M KHADR GSFC/J A WEINMAN 39-Env Sci, NEC
R H LANG GSFC/A J BUSALACCHI

**NASA'S UNIVERSITY PROGRAM
DISTRICT OF COLUMBIA (Continued)**

NAG 5-2325 George Washington University 3241
 SYNERGISTIC USE OF ACTIVE AND PASSIVE MICROWAVE REMOTE SENSING FOR RETRIEVING SOIL MOISTURE . . .
Period Obligations
 07/16/1993-10/31/1995 FY95: \$85,239 TOTAL: \$187,937
Prin. Invest. NASA Tech. Officer CASE Category
 N CHAUHAN GSFC/P O'NEILL 54-Env Biology
 GSFC/E ENGMAN

NAS 1-19699 George Washington University 3249
 AERONAUTICAL, ASTRONAUTICAL, MATERIALS SCIENCE, COMPUTER SCIENCE AND RELATED DISCIPLINE SUPPORT
Period Obligations
 08/07/1992-08/07/1997 FY95: \$90,192 TOTAL: \$373,097
Prin. Invest. NASA Tech. Officer CASE Category
 LARC/R L YANG 41-Aero Engr
 LARC/E J PRIOR

NAG 8-788 George Washington University 3242
 DEVELOPING AN EARTH SCIENCE DATA POLICY
Period Obligations
 08/10/1989-08/31/1995 FY95: TOTAL: \$257,107
Prin. Invest. NASA Tech. Officer CASE Category
 J M LOGSDON MSFC/J B STEPHENS 11-Astronomy
 L R SHAFFER MSFC/G S WILSON

NCC 1-14 George Washington University 3250
 AEROACOUSTICS RESEARCH PROGRAM IN JIAFS
Period Obligations
 05/16/1979-10/31/1995 FY95: \$260,276 TOTAL: \$2,682,417
Prin. Invest. NASA Tech. Officer CASE Category
 H LIEBOWITZ LARC/L R CLARK 41-Aero Engr
 M K MYERS LARC/D G STEPHENS

NAGW 2071 George Washington University 3243
 DISCRETE RANDOM MODELING OF VEGETATION
Period Obligations
 05/02/1990-02/28/1996 FY95: \$100,000 TOTAL: \$620,000
Prin. Invest. NASA Tech. Officer CASE Category
 R H LANG HQ/G ASRAR 19-Phys Sci, NEC
 HQ/T J PIEPER

NCC 1-24 George Washington University 3251
 PROGRAMS OF RESEARCH IN FLIGHT SCIENCES
Period Obligations
 08/08/1979-01/31/1996 FY95: \$309,947 TOTAL: \$2,952,760
Prin. Invest. NASA Tech. Officer CASE Category
 H LIEBOWITZ LARC/R T BRIGHT 41-Aero Engr
 J L WHITESIDES

NAGW 2498 George Washington University 3244
 HUMANS IN SPACE: EMERGING POLICY ISSUES
Period Obligations
 05/10/1991-06/30/1995 FY95: \$50,000 TOTAL: \$350,000
Prin. Invest. NASA Tech. Officer CASE Category
 J LOGSDON HQ/F SULZMAN 59-Life Sci, NEC

NCC 1-29 George Washington University 3252
 RESEARCH PROGRAM IN FLIGHT DYNAMICS IN THE JIAPS AT THE NASA LANGLEY RESEARCH CENTER
Period Obligations
 11/16/1979-11/30/1995 FY95: \$226,778 TOTAL: \$2,320,989
Prin. Invest. NASA Tech. Officer CASE Category
 H LIEBOWITZ LARC/P C MURPHY 41-Aero Engr
 LARC

NAGW 3295 George Washington University 3245
 POLICY ASPECTS OF PLANETARY EXPLORATION AND ASTRONOMY
Period Obligations
 12/31/1992-12/31/1993 FY95: TOTAL: \$23,670
Prin. Invest. NASA Tech. Officer CASE Category
 J M LOGSDON HQ/H C BRINTON 11-Astronomy

NCC 1-47 George Washington University 3253
 CORE PROGRAM IN THE JOINT INSTITUTE FOR ADVANCEMENT OF FLIGHT SCIENCES AT THE NASA-LANGLEY RESEARCH
Period Obligations
 11/05/1980-10/31/1995 FY95: \$317,900 TOTAL: \$4,589,012
Prin. Invest. NASA Tech. Officer CASE Category
 J L WHITESIDES LARC/R L YANG 41-Aero Engr
 H W LIEBOWITZ LARC/M F CARD

NAGW 4050 George Washington University 3246
 STATE OF EARTH SCIENCE FROM SPACE
Period Obligations
 06/15/1994-12/31/1995 FY95: \$35,416 TOTAL: \$107,768
Prin. Invest. NASA Tech. Officer CASE Category
 J M LOGSDON HQ/P W BACKLUMD 39-Env Sci, NEC
 HQ/L K SMITH

NCC 1-104 George Washington University 3254
 A PROGRAM OF RESEARCH AND EDUCATION IN ASTRONAUTICS IN JIAFS
Period Obligations
 04/30/1986-01/31/1996 FY95: \$258,000 TOTAL: \$1,638,474
Prin. Invest. NASA Tech. Officer CASE Category
 R H TOLSON LARC/L F ROWELL 42-Astro Engr

NAGW 4516 George Washington University 3247
 LINEAGE ANALYSIS OF AXIS FORMATION UNDER NOVEL GRAVITY
Period Obligations
 05/13/1995-05/31/1998 FY95: \$142,147 TOTAL: \$142,147
Prin. Invest. NASA Tech. Officer CASE Category
 S HUANG HQ/T K SCOTT 59-Life Sci, NEC

NCC 1-208 George Washington University 3255
 PROGRAM OF RESEARCH AND EDUCATION IN AEROSPACE STRUCTURES
Period Obligations
 12/20/1994-09/30/1995 FY95: \$120,000 TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
 R H TOLSON LARC/E C WYNNE 41-Aero Engr

NAGW 4646 George Washington University 3248
 RESEARCH INTO ECONOMIC METHODOLOGY AND MODELS FOR ASSESSING IMPACTS OF NASA LIFE SCIENCE RESEARCH
Period Obligations
 07/28/1995-06/30/1996 FY95: \$149,150 TOTAL: \$149,150
Prin. Invest. NASA Tech. Officer CASE Category
 H R HERTZFELD HQ/V R THORNE 59-Life Sci, NEC

NCC 1-217 George Washington University 3256
 EXPERIMENTS IN THE THERMAL AND FLUID SCIENCES IN THE JOINT INSITUTE FOR ADVANCEMENT OF FLIGHT
Period Obligations
 09/11/1995-03/10/1996 FY95: \$36,820 TOTAL: \$36,820
Prin. Invest. NASA Tech. Officer CASE Category
 A D CUTLER LARC/G S DISKIN 41-Aero Engr
 LARC/M W SMITH

**NASA'S UNIVERSITY PROGRAM
DISTRICT OF COLUMBIA (Continued)**

NCC 5-51 George Washington University 3257
PROGRAM FOR RESEARCH AND EDUCATION IN SPACE TECHNOLOGY

<i>Period</i>	<i>Obligations</i>	
12/14/1992-12/31/1995	FY95: \$196,000	TOTAL: \$1,908,452
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G FRIEDER	GSFC/T E HUBER	42-Astro Engr
N BEDEWI	GSFC/J R ROBINSON	

NCC 5-53 George Washington University 3258
DISTRIBUTION AND STRUCTURE OF BIOMASS IN BOREAL FOREST ECOSYSTEMS

<i>Period</i>	<i>Obligations</i>	
06/17/1993-06/30/1996	FY95: \$50,000	TOTAL: \$101,351
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R LANG	GSFC/F G HALL	39-Env Sci, NEC
	GSFC/P SELLERS	

NGT 00-040-056 George Washington University 3259
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
03/01/1995-02/28/1996	FY95: \$170,000	TOTAL: \$170,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J M LOGSDON	HQ/E T SCHWARTZ	99-Multi-Discip

NSG-5109 George Washington University 3260
DECODING AND PERFORMANCE EVALUATION OF ERROR CODING CODES

<i>Period</i>	<i>Obligations</i>	
07/16/1976-03/31/1996	FY95:	TOTAL: \$1,026,734
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H J HELGERT	GSFC/W POLAND JR	49-Engr, NEC
	GSFC/W H MILLER	

NAGW 3202 Georgetown University 3261
NAGW-3202/GEORGETOWN UNIV/SCIENCE, TECHNOLOGY, AND INTERNATIONAL AFFAIRS PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/12/1992-07/31/1994	FY95:	TOTAL: \$15,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R A SCRIBNER	HQ/S G TILFORD	99-Multi-Discip
	HQ/P BACKLUND	

NAGW 4395 Georgetown University 3262
3D ORAM DOSIMETER FOR SPACE RADIATION ENVIRONMENTS

<i>Period</i>	<i>Obligations</i>	
04/19/1995-02/14/1998	FY95: \$119,934	TOTAL: \$119,934
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M MOSCOVITCH	HQ/F M SULZMAN	59-Life Sci, NEC

NAGW 4396 Georgetown University 3263
HUMAN ENZYMATIC REPAIR OF RADIATION-INDUCED DNA BREAKS

<i>Period</i>	<i>Obligations</i>	
04/19/1995-02/14/1998	FY95: \$147,408	TOTAL: \$147,408
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T J JORGENSEN	HQ/F M SULZMAN	59-Life Sci, NEC

NAG 3-1406 Howard University 3264
DEVELOPMENT OF CUBIC SILICON CARBIDE

<i>Period</i>	<i>Obligations</i>	
12/22/1992-03/21/1996	FY95: \$49,999	TOTAL: \$443,206
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G L HARRIS	LERC/J A POWELL	45-Elec Engr

NAG 3-1426 Howard University 3265
DEVELOPMENT OF AN ENERGY AND EXPERT SYSTEMS INSTITUTE

<i>Period</i>	<i>Obligations</i>	
03/26/1993-07/11/1996	FY95: \$400,001	TOTAL: \$1,187,477
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A MOMOH	LERC/J F SELLERS	45-Elec Engr

NAG 3-1445 Howard University 3266
HOWARD UNIVERSITY/NASA LEWIS COOPERATIVE RESEARCH STUDIES

<i>Period</i>	<i>Obligations</i>	
03/25/1993-03/31/1996	FY95: \$260,349	TOTAL: \$743,961
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R REISS	LERC/D F NOGA	46-Mech Engr

NAG 3-1661 Howard University 3267
DEVELOPMENT AND IMPLEMENTATION OF AN ADAPTIVE REAL-TIME CONTROLLER FOR PERMANENT MAGNET BRUSHLESS

<i>Period</i>	<i>Obligations</i>	
08/08/1994-12/07/1996	FY95: \$65,000	TOTAL: \$90,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A RABAAL	LERC/D F NOGA	45-Elec Engr

NAG 3-1675 Howard University 3268
THE HYBRID TURBINE-ELECTRIC VEHICLE CONTROL SYSTEMS

<i>Period</i>	<i>Obligations</i>	
10/14/1994-10/31/1996	FY95: \$100,000	TOTAL: \$100,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A MOMOH	LERC/L A VITERNA	45-Elec Engr

NAG 3-1676 Howard University 3269
DETERMINATION OF THERMAL STATE OF CHANGE IN SOLAR HEAT RECEIVERS

<i>Period</i>	<i>Obligations</i>	
10/17/1994-10/16/1995	FY95: \$100,000	TOTAL: \$100,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E K GLAKPE	LERC/T W KERSLAKE	46-Mech Engr
J N CANNON		

NAG 3-1677 Howard University 3270
FREE RADICAL SPECTROSCOPY AND KINETICS IN MICROGRAVITY COMBUSTION

<i>Period</i>	<i>Obligations</i>	
10/15/1994-10/14/1995	FY95: \$86,463	TOTAL: \$86,463
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P MISRA	LERC/N D PILTCH	13-Physics

NAG 3-1743 Howard University 3271
DESIGN OF POWER SYSTEMS ARCHITECTURE FOR SMALL SPACECRAFT SYSTEM

<i>Period</i>	<i>Obligations</i>	
07/18/1995-07/17/1996	FY95: \$100,000	TOTAL: \$100,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A MOMOH	LERC/J J NAINIGER	45-Elec Engr

NAG 5-156 Howard University 3272
REAL-TYPE OBSERVATIONS OF X-RAY DIFFRACTION PATTERNS

<i>Period</i>	<i>Obligations</i>	
07/01/1981-05/31/1996	FY95:	TOTAL: \$103,625
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T TSANG	GSFC/J I TROMBKA	13-Physics
D Y CHUNG		

**NASA'S UNIVERSITY PROGRAM
DISTRICT OF COLUMBIA (Continued)**

NAG 5-995 Howard University 3273
 A DYNAMIC SYSTEMS ENGINEERING METHODOLOGY RESEARCH STUDY
Period *Obligations*
 04/15/1988-01/31/1994 FY95: TOTAL: \$1,173,773
Prin. Invest. NASA Tech. Officer CASE Category
 T L GILL GSFC/A GOODSON 49-Engr, NEC
 G F KEYSER
 A S PAUL

NAGW 2931 Howard University 3280
 MICROBIAL WEATHERING OF SILICATE MINERALS BY THERMOPHILES
Period *Obligations*
 02/27/1992-06/30/1994 FY95: TOTAL: \$5,000
Prin. Invest. NASA Tech. Officer CASE Category
 D W SCHWARTMAN HQ/J D RUMMEL 54-Env Biology

NAG 5-1017 Howard University 3274
 SUPERCONDUCTING MATERIALS FOR SPACE APPLICATIONS
Period *Obligations*
 10/15/1987-02/14/1996 FY95: \$13,000 TOTAL: \$1,459,000
Prin. Invest. NASA Tech. Officer CASE Category
 A N THORPE GSFC/S R BREON 31-Atmos Sci
 H HOJAJI GSFC/M D JHABVALA
 A BARKATT

NAGW 2950 Howard University 3281
 CENTER FOR THE STUDY OF TERRESTRIAL AND EXTRATERRESTRIAL ATMOSPHERES
Period *Obligations*
 03/06/1992-12/31/1996 FY95: \$2,218,276 TOTAL: \$6,738,948
Prin. Invest. NASA Tech. Officer CASE Category
 A N THORNE HQ/N E MASSENBERS 13-Physics
 HQ/S HARTMAN

NAG 5-1049 Howard University 3275
 RESEARCH RELATIVE TO OPTICALLY CONTROLLED MILLIMETER WAVE DEVICES
Period *Obligations*
 05/15/1988-12/31/1996 FY95: TOTAL: \$510,961
Prin. Invest. NASA Tech. Officer CASE Category
 R CHOWDHARY GSFC/A S BURGESS 45-Elec Engr
 Y WANG
 C E LEINKRAM

NCA 5-107 Howard University 3282
 PUBLIC SERVICE INTERNSHIP PROGRAM
Period *Obligations*
 06/03/1986-05/31/1995 FY95: \$22,962 TOTAL: \$425,493
Prin. Invest. NASA Tech. Officer CASE Category
 M C WOODARD GSFC/D MENCHAN 99-Multi-Discip

NAG 5-1057 Howard University 3276
 GLASS CORROSION IN NATURAL ENVIRONMENTS
Period *Obligations*
 06/15/1988-12/14/1993 FY95: TOTAL: \$222,000
Prin. Invest. NASA Tech. Officer CASE Category
 A N THORPE GSFC/W B SULLIVAN 13-Physics
 A BARKATT GSFC/J O'KEEFE

NGT 00-010-002 Howard University 3283
 TRAINING TEACHERS FOR MIDDLE SCHOOL SCIENCE AND MATHEMATICS EDUCATION
Period *Obligations*
 06/17/1993-12/14/1995 FY95: TOTAL: \$84,925
Prin. Invest. NASA Tech. Officer CASE Category
 M W THOMPSON HQ/D V GALLAWAY 99-Multi-Discip

NAG 5-2904 Howard University 3277
 SOFTWARE METRICS AND CERTIFICATION OF REUSABLE SOFTWARE COMPONENTS
Period *Obligations*
 03/10/1995-11/14/1995 FY95: \$6,873 TOTAL: \$6,873
Prin. Invest. NASA Tech. Officer CASE Category
 R J LEACH GSFC/J N BRUNER 22-Computer Science
 GSFC/J T KOSLOSKY

NGT 00-040-024 Howard University 3284
 NGT-40024/HOWARD UNIV/NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period *Obligations*
 05/29/1991-08/31/1995 FY95: TOTAL: \$707,450
Prin. Invest. NASA Tech. Officer CASE Category
 J B HALPERN HQ/E T SCHWARTZ 99-Multi-Discip

NAG 5-2944 Howard University 3278
 PUBLIC SERVICE INTERNSHIPS FOR GRADUATE SCHOOL OF ARTS AND SCIENCES
Period *Obligations*
 06/05/1995-05/31/1996 FY95: \$95,750 TOTAL: \$95,750
Prin. Invest. NASA Tech. Officer CASE Category
 M C WOODWARD GSFC/D MENCHAN 99-Multi-Discip

NGT 00-050-973 Howard University 3285
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/13/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A MOMEH JPL/H ASKHENAS 45-Elec Engr

NAGW 785 Howard University 3279
 PHOTOCHEMISTRY OF ACETYLENES - LAB STUDIES
Period *Obligations*
 08/01/1985-12/31/1995 FY95: \$45,000 TOTAL: \$559,072
Prin. Invest. NASA Tech. Officer CASE Category
 H OKABE HQ/J T BERGSTRALH 31-Atmos Sci
 HQ/W L QUAIDE

NGT 00-060-011 Howard University 3286
 SUMMER FACULTY FELLOWSHIP PROGRAM (AERONAUTICS AND SPACE RESEARCH)
Period *Obligations*
 05/16/1995-03/30/1996 FY95: \$381,706 TOTAL: \$381,706
Prin. Invest. NASA Tech. Officer CASE Category
 J B HALPERN HQ/A S MCGEE 49-Engr, NEC
 HQ/E T SCHWARTZ

NGT 9-11060 Howard University 3287
 SUMMER FACULTY FELLOWSHIP PROGRAM
Period *Obligations*
 01/01/1978-01/31/1994 FY95: TOTAL: \$2,281,962
Prin. Invest. NASA Tech. Officer CASE Category
 D N FAN HQ/A S MCGEE 99-Multi-Discip
 HQ/E T SCHWARTZ

**NASA'S UNIVERSITY PROGRAM
DISTRICT OF COLUMBIA (Continued)**

NAG 5-2345 University of District of Columbia 3313
A STUDY OF SURFACE TEMPERATURES, CLOUDS AND NET RADIATION
Period *Obligations*
07/27/1993-08/14/1996 FY95: \$99,505 TOTAL: \$156,343
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H L DHURIA GSFC/H L KYLE 31-Atmos Sci

NAG 5-2348 University of District of Columbia 3314
HIGH TC SUPERCONDUCTING BOLOMETRIC AND NONVOLOMETRIC INFRA RED (IR) DETECTORS
Period *Obligations*
08/09/1993-08/14/1996 FY95: \$111,000 TOTAL: \$333,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S LAKEOU GSFC/C ALLEN 45-Elec Engr

NAGW 2045 University of District of Columbia 3315
SATURDAY ACADEMY-ENGINEERING, MATHEMATICS AND COMPUTER SCIENCE FOR ACADEMICALLY TALENTED STUDENTS
Period *Obligations*
03/30/1990-03/31/1996 FY95: \$588,790 TOTAL: \$2,505,130
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W R COLEMAN HQ/Y B FREEMAN 29-Math/Computer, NEC

NAGW 2216 University of District of Columbia 3316
NAGW-2216/UNIV OF DISTRICT COLUMBIA/SCIENTIFIC RENEWAL
Period *Obligations*
08/22/1990-07/31/1995 FY95: \$277,418 TOTAL: \$1,258,099
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W R COLEMAN HQ/M S MARGOLIS 99-Multi-Discip

FLORIDA

NAG 8-991 Bethune - Cookman College 3317
JOVE
Period *Obligations*
04/06/1994-05/31/1996 FY95: \$46,000 TOTAL: \$134,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S A RAHMANI MSFC/F SIX 99-Multi-Discip
L C AGBA
S K DAVID, N.G.

NAGW 4231 Bethune - Cookman College 3318
A SCIENCE, ENGINEERING, AND MATHEMATICS SATURDAY ACADEMY PRE-COLLEGE READINESS PROGRAM
Period *Obligations*
01/11/1995-09/30/1995 FY95: \$206,030 TOTAL: \$206,030
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T R NICHOLSON KSC/A J DIGGS 29-Math/Computer, NEC

NAG 5-1843 Eckerd College 3319
EXPERIMENTAL STUDIES OF FAR-INFRARED SPECTRA OF CO SMIC TYPE ICES
Period *Obligations*
12/16/1991-02/14/1996 FY95: \$15,500 TOTAL: \$23,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R L HUDSON GSFC/M H MOORE 11-Astronomy
GSFC/J A NUTH

NAG 8-1103 Eckerd College 3320
JOVE
Period *Obligations*
10/21/1994-05/31/1996 FY95: \$57,000 TOTAL: \$57,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J B THOMPSON MSFC/F SIX 39-Env Sci, NEC
S M STANCZYK

NAGW 3992 Edward Waters College 3321
MATHEMATICS SCIENCE AND TECHNOLOGY
Period *Obligations*
05/19/1994-04/30/1996 FY95: \$300,000 TOTAL: \$600,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
N SUNDURLINGAM HQ/B WHITE 99-Multi-Discip

NAG10-165 Valencia Community College 3576
HIGH TECH TRAINING OF INDIVIDUALS WITH DISABILITY
Period *Obligations*
06/06/1995-06/08/1996 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K WOODBERRY KSC/G BUCKINGHAM 22-Computer Science

NAG 1-1430 Embry-Riddle Aeronautical University 3322
ADVANCED WORKSHOP ON ADAPTIVE FUNCTION ALLOCATION IN ARTIFICIAL INTELLIGENCE SYSTEMS - NLPN 92-223
Period *Obligations*
04/14/1992-10/12/1993 FY95: TOTAL: \$73,644
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J GARLAND LARC/T M WALSH 99-Multi-Discip
J A WISE LARC/K H ABBOTT

NAG 1-1593 Embry-Riddle Aeronautical University 3323
HUMAN FACTORS CERTIFICATION OF ADVANCED AVIATION SYSTEMS
Period *Obligations*
01/25/1994-01/24/1995 FY95: TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A WISE LARC/T M WALSH 99-Multi-Discip
D J GARLAND LARC/P C SCHUTTE

NAG 8-1195 Embry-Riddle Aeronautical University 3324
JOVE
Period *Obligations*
09/15/1995-08/31/1996 FY95: \$19,810 TOTAL: \$19,810
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C D STODDEN GSFC/D SIX 31-Atmos Sci

NAGW 4295 Embry-Riddle Aeronautical University 3325
INTEGRATING CONCURRENT ENGINEERING
Period *Obligations*
02/13/1995-06/14/1995 FY95: \$26,340 TOTAL: \$26,340
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J G LADESIC HQ/A S MCGEE 49-Engr, NEC
HQ/G SEIDEL

NCA 1-129 Embry-Riddle Aeronautical University 3326
GENERAL AVIATION PROGRAM/AGATE
Period *Obligations*
09/13/1995-12/31/1995 FY95: \$103,786 TOTAL: \$103,786
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L W MOTREL LARC/B J HOLMES 41-Aero Engr
LARC/W E RICKS

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NCC 1-66 Embry-Riddle Aeronautical University 3327
 COCKPIT DISPLAY OF TRAFFIC INFORMATION (CDTI)
Period Obligations
 02/24/1982-09/30/1995 FY95: \$59,000 TOTAL: \$721,188
Prin. Invest. NASA Tech. Officer CASE Category
 G W LOHR LARC/L CREDEUR 41-Aero Engr
 LARC/H P BERGERON

NAG 5-2970 Florida A&M University 3347
 GEOMAGNETIC FIELD ANALYSIS IN CONJUNCTION WITH THE
 ORSTED MISSION
Period Obligations
 06/12/1995-06/30/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 J CAIN GSFC/P TAYLOR 32-Geological Sci

NCC 8-26 Embry-Riddle Aeronautical University 3328
 JOVE
Period Obligations
 12/07/1992-05/31/1995 FY95: TOTAL: \$167,374
Prin. Invest. NASA Tech. Officer CASE Category
 L ERICKSON MSFC/F SIX 31-Atmos Sci

NAGW 2930 Florida A&M University 3348
 CENTER FOR NONLINEAR AND NONEQUILIBRIUM AEROSCIENC E
Period Obligations
 02/19/1992-12/31/1995 FY95: \$1,469,430 TOTAL: \$6,185,511
Prin. Invest. NASA Tech. Officer CASE Category
 J A JOHNSON HQ/S E MASSENBERG 99-Multi-Discip
 HQ/S HARTMAN

NAG 1-1696 Florida A&M University 3341
 COMPREHENSIVE MICROSTRUCTURAL CHARACTERIZATION OF
 ADVANCED ALUMINUM ALLOYS
Period Obligations
 03/27/1995-03/26/1996 FY95: \$49,653 TOTAL: \$49,653
Prin. Invest. NASA Tech. Officer CASE Category
 P N KALU LARC/D M ROYSTER 47-Materials Engr
 LARC/J A WAGNER

NAGW 4316 Florida A&M University 3349
 ADVANCE DESIGN PROGRAM
Period Obligations
 02/16/1995-10/14/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
 P HOLLIS HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NAG 2-921 Florida A&M University 3342
 THE EVOLUTION OF CONDENSATES IN SHOCK TUBE FLOW
Period Obligations
 07/28/1994-04/30/1995 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A JOHNSON III, (DR ARC/O B TOON 31-Atmos Sci

NAGW 4653 Florida A&M University 3350
 REMOTE SENSING LAND-USE CLASSIFICATION AND ENHANCE MENT
 OF AGRICULTURAL PRODUCTION IN SOUTH AFRICA
Period Obligations
 07/24/1995-07/31/1998 FY95: \$149,985 TOTAL: \$149,985
Prin. Invest. NASA Tech. Officer CASE Category
 S PANCHOLY HQ/B L WHITE 99-Multi-Discip

NAG 2-929 Florida A&M University 3343
 TURBULENT MEASUREMENTS IN SUPERSONIC FLOW
Period Obligations
 09/26/1994-08/31/1995 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A JOHNSON III ARC/D G FLETCHER 41-Aero Engr
 ARC/R L MCKENZIE

NGT 00-090-015 Florida A&M University 3351
 SUMMER BRIDGE PROGRAM 'THE ENGINEERING CONCEPTS
 INSTITUTE'
Period Obligations
 06/17/1988-06/24/1996 FY95: \$51,353 TOTAL: \$371,233
Prin. Invest. NASA Tech. Officer CASE Category
 W TOLIVER HQ/Y B FREEMAN 49-Engr, NEC
 KSC/J D DIGGS

NAG 3-1494 Florida A&M University 3344
 DISTANCE LEARNING IN THE SCIENCES
Period Obligations
 05/27/1993-08/22/1995 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 J L EARLY LERC/M S PLECIITY 49-Engr, NEC
 K F SOLIMAN LERC/R J SCHERTLER

NGT 00-090-030 Florida A&M University 3352
 PROJECT IMAGE - INCREAS ING MINORITY ACCESS TO GRADUATE
 ENGINEERING
Period Obligations
 03/14/1990-11/14/1995 FY95: \$1,124,726 TOTAL: \$4,476,243
Prin. Invest. NASA Tech. Officer CASE Category
 F S HUMPHRIES HQ/L WARREN 49-Engr, NEC
 HQ/M MARGOLIS

NAG 3-1663 Florida A&M University 3345
 BASIC STUDIES ON STOVL AIRCRAFT JET EFFECTS AND HO T
 GAS INGESTION
Period Obligations
 09/15/1994-12/14/1995 FY95: TOTAL: \$123,991
Prin. Invest. NASA Tech. Officer CASE Category
 A KROTHAPALLI LERC/A L JOHNS 41-Aero Engr
 LERC/T J BIESIADNY

NGT 00-090-107 Florida A&M University 3353
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/17/1992-08/14/1995 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 H L WILLIAMS HQ/D K RUSSELL 99-Multi-Discip

NAG 3-1759 Florida A&M University 3346
 A GRADUATE FELLOWSHIP COMPONENT TO AUGMENT PROGRAM
 IMAGE
Period Obligations
 06/14/1995-06/13/1996 FY95: \$300,508 TOTAL: \$300,508
Prin. Invest. NASA Tech. Officer CASE Category
 F S HUMPHRIES LERC/J E BOYD 99-Multi-Discip
 F J FOREMAN

NGT 00-090-181 Florida A&M University 3354
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 E R TOSSIE HQ/D K RUSSELL 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NGT10-40900 Florida A&M University 3355
GRADUATE SCHOOL RESEARCHERS PROGRAM
Period Obligations
10/01/1985-12/31/1995 FY95: \$467,182 TOTAL: \$4,350,746
Prin. Invest. NASA Tech. Officer CASE Category
K REDDA HQ/M MARGOLIS 59-Life Sci, NEC
HQ/Y FREEMAN

NAG 1-1202 Florida Atlantic University 3356
BROAD BAND NOISE PREDICTION FOR ADVANCED DUCTED PROP
FANS USIN LOCALLY GENERATED INFLOW FDP
Period Obligations
12/17/1990-12/31/1995 FY95: \$75,318 TOTAL: \$284,106
Prin. Invest. NASA Tech. Officer CASE Category
S A GLEGG LARC/J W POSEY 41-Aero Engr
LARC/F FARASSAT

NAG 1-1310 Florida Atlantic University 3357
FUNDAMENTAL PROBLEMS IN PROBABILISTICS AND CONVEX
ANALYSES OF UNCERTAIN INITIAL IMPERFECTIONS FDP
Period Obligations
07/15/1991-07/31/1996 FY95: \$35,000 TOTAL: \$206,145
Prin. Invest. NASA Tech. Officer CASE Category
I ELISHAKOFF LARC/J H STARNES 41-Aero Engr

NAG 2-797 Florida Atlantic University 3358
SENSITIVITY OF LAG-DAMPING PREDICTIONS TO STRUCTUR AL
MODELING APPROXIMATIONS OF ISOLATED ROTORS IN.
Period Obligations
08/17/1992-07/31/1995 FY95: TOTAL: \$79,143
Prin. Invest. NASA Tech. Officer CASE Category
G H GAONKAR ARC/R A ORMISTON 41-Aero Engr

NAG 3-1198 Florida Atlantic University 3359
A MODEL BASED FAILURE DIAGNOSIS SYSTEM BASED ON RE AL
TIME IDENTIFICATION FOR HELICOPTER ENGINES
Period Obligations
08/28/1990-11/30/1995 FY95: \$80,129 TOTAL: \$256,149
Prin. Invest. NASA Tech. Officer CASE Category
A DUYAR LERC/J S LITT 49-Engr, NEC

NAG 3-1314 Florida Atlantic University 3360
THE SIMULATION OF DISLOCATION GENERATION OF GAAS C
RYSTALS DURING BRIDGMAN GROWTH
Period Obligations
12/30/1991-12/31/1994 FY95: TOTAL: \$85,684
Prin. Invest. NASA Tech. Officer CASE Category
C T TSAI LERC/A CHAIT 47-Materials Engr

NAG 3-1324 Florida Atlantic University 3361
MODELING OF THE SSME USING NEURAL NETWORKS
Period Obligations
02/11/1992-09/30/1994 FY95: TOTAL: \$105,887
Prin. Invest. NASA Tech. Officer CASE Category
A DUYAR LERC/T H GUO 41-Aero Engr

NAG 3-1435 Florida Atlantic University 3362
ELECTROCHEMICAL SYNTHESIS OF COPPER/REFRACTORY MET AL
COATED CARBON FIBER PRECURSOR FOR METAL MAT CO
Period Obligations
01/19/1993-07/30/1995 FY95: \$3,000 TOTAL: \$84,888
Prin. Invest. NASA Tech. Officer CASE Category
S M LIPKA LERC/R V MINER 47-Materials Engr

NAG 3-1738 Florida Atlantic University 3363
NUMERICAL MODELING OF TWINNING IN GAAS CRYSTAL DUR ING
SPACE GROWTH PROCESS
Period Obligations
04/18/1995-04/17/1996 FY95: \$25,817 TOTAL: \$25,817
Prin. Invest. NASA Tech. Officer CASE Category
C TSAI LERC/A CHAIT 47-Materials Engr

NAGW 989 Florida Atlantic University 3364
GROUND BASE COLUMN ABUNDANCE OF ATOMSP. HYDROXYL
Period Obligations
12/01/1995-03/31/1995 FY95: \$39,400 TOTAL: \$256,902
Prin. Invest. NASA Tech. Officer CASE Category
C R BURNETT HQ/J J MARGITAN 31-Atmos Sci
HQ/R T WATSON

NAGW 2778 Florida Atlantic University 3365
CENTER FOR COMMERCIAL DEVELOPMENT OF SPACE COMMUNI
CATIONS
Period Obligations
01/23/1992-10/31/1996 FY95: \$830,000 TOTAL: \$3,730,000
Prin. Invest. NASA Tech. Officer CASE Category
W GLENN HQ/V CEVENINI 99-Multi-Discip
J SHEPPERD HQ/C PITTMAN

NAG10-104 Florida Atlantic University 3366
AN INVESTIGATION OF ENVIRONMENT SENSITIVE TRACTURE
BEHAVIOR OF STEEL ALLOYS IN SEAWATER
Period Obligations
06/01/1992-10/31/1994 FY95: TOTAL: \$104,306
Prin. Invest. NASA Tech. Officer CASE Category
S M LIPKA KSC/L MACDOWELL 54-Env Biology

NAG10-108 Florida Atlantic University 3367
INDUSTRY LINKAGE ENHANCEMENT FOR TECH TRANSFER THRU
INNOVATIVE COMMUNICATION TECHNIQUES
Period Obligations
08/03/1992-10/31/1994 FY95: TOTAL: \$24,997
Prin. Invest. NASA Tech. Officer CASE Category
E SKELLINGS KSC/P ELFREY 99-Multi-Discip

NAS 3-26956 Florida Atlantic University 3368
ACTS PROPAGATION EXPERIMENTS
Period Obligations
06/21/1993-10/21/1995 FY95: TOTAL: \$97,597
Prin. Invest. NASA Tech. Officer CASE Category
H F HELMKEN LERC/R J GUNDERMAN 19-Phys Sci, NEC

NAG 5-2583 Fla International University 3329
SCATTERING OF METASTABLE ATOMS
Period Obligations
04/28/1994-08/31/1996 FY95: \$74,144 TOTAL: \$148,287
Prin. Invest. NASA Tech. Officer CASE Category
J W SHELDON GSFC/J J HILLMAN 13-Physics
K A HARDY

NAG 5-3071 Fla International University 3330
APPLICATION OF HIGH RESOLUTION DIGITAL TOPOGRAPHIC DATA
TO THE DETECTION OF INCIPIENT SINKHOLE. . .
Period Obligations
09/15/1995-09/14/1996 FY95: \$80,148 TOTAL: \$80,148
Prin. Invest. NASA Tech. Officer CASE Category
D WHITMAN GSFC/H V FREY 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NAG 8-272 Fla International University 3331
 JOVE
Period
 02/02/1993-05/31/1996 *Obligations* FY95: \$40,000 TOTAL: \$153,000
Prin. Invest. NASA Tech. Officer *CASE Category*
 W V VAN HAMME MSFC/F SIX 13-Physics
 J R WEBB
 J W SHELDON

NGT 00-090-147 Fla International University 3339
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period
 09/26/1992-08/14/1996 *Obligations* FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer *CASE Category*
 J NAVLAKHA HQ/D K RUSSELL 99-Multi-Discip

NAG 8-283 Fla International University 3332
 THEORY OF THE MOTION OF METEOR PARTICLES IN SOLID MATERIALS
Period
 03/01/1993-02/28/1996 *Obligations* FY95: \$72,676 TOTAL: \$218,028
Prin. Invest. NASA Tech. Officer *CASE Category*
 N MUNROE MSFC/F SIX 11-Astronomy
 G CHERPANOV

NGT 00-090-148 Fla International University 3340
 GSRP/UMF
Period
 09/26/1992-08/14/1996 *Obligations* FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer *CASE Category*
 J NAVLAKHA HQ/D K RUSSELL 99-Multi-Discip

NAG 8-1154 Fla International University 3333
 DATA ACQUISITION FOR PROCESSING
Period
 08/03/1995-08/02/1996 *Obligations* FY95: \$72,756 TOTAL: \$72,756
Prin. Invest. NASA Tech. Officer *CASE Category*
 P L ROMINE MSFC/K LAWLESS 46-Mech Engr

NAG 1-1541 Florida Institute of Technology 3369
 STRUCTURE OF TURBULENCE IN THREE-DIMENSIONAL BOUNDARY LAYERS
Period
 08/25/1993-11/19/1993 *Obligations* FY95: TOTAL: \$9,998
Prin. Invest. NASA Tech. Officer *CASE Category*
 C S SUBRAMANIAN LARC/M J WALSH 41-Aero Engr

NAGW 4080 Fla International University 3334
 HIGH PERFORMANCE DATABASE MANAGEMENT
Period
 07/13/1994-05/31/1995 *Obligations* FY95: TOTAL: \$400,000
Prin. Invest. NASA Tech. Officer *CASE Category*
 N RISHE HQ/B L WHITE 22-Computer Science

NAG 8-195 Florida Institute of Technology 3370
 PROJECT JOVE
Period
 05/24/1991-06/20/1995 *Obligations* FY95: TOTAL: \$95,203
Prin. Invest. NASA Tech. Officer *CASE Category*
 J D PATTERSON MSFC/F SIX 11-Astronomy

NAGW 4641 Fla International University 3335
 MINORITIES ACHIEVING SUCCESS IN TEACHING MATHEMATICS AND SCIENCE
Period
 07/19/1995-06/30/1996 *Obligations* FY95: \$200,000 TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer *CASE Category*
 C BRAIN HQ/M MATEU 21-Mathematics

NAG 8-941 Florida Institute of Technology 3371
 ELECTRONIC CHARACTERIZATION OF DEFECTS IN NARROW GAP SEMICONDUCTORS
Period
 11/23/1992-11/24/1993 *Obligations* FY95: TOTAL: \$34,929
Prin. Invest. NASA Tech. Officer *CASE Category*
 J D PATTERSON MSFC/S L LEHOCZKY 13-Physics

NAG10-150 Fla International University 3336
 UTILIZATION OF THE SFC DATABASE
Period
 01/03/1995-01/08/1996 *Obligations* FY95: \$74,922 TOTAL: \$74,922
Prin. Invest. NASA Tech. Officer *CASE Category*
 M A CENTENO KSC/A M MITSKEVICH 41-Aero Engr

NAG 8-1094 Florida Institute of Technology 3372
 MERCURY STUDIES
Period
 09/19/1994-09/18/1996 *Obligations* FY95: TOTAL: \$32,569
Prin. Invest. NASA Tech. Officer *CASE Category*
 J D PATTERSON MSFC/S D COBB 13-Physics
 MSFC/S L LEHOCZKY

NCC 2-917 Fla International University 3337
 AERONAUTICS LEARNING LABORATORY FOR SCIENCE TECHNOLOGY AND RESEARCH (ALL STAR) NETWORK
Period
 07/24/1995-12/31/1995 *Obligations* FY95: \$156,064 TOTAL: \$156,064
Prin. Invest. NASA Tech. Officer *CASE Category*
 C LEVY ARC/M J LEON 99-Multi-Discip
 ARC/W C LIKENS

NAGW 4503 Florida Institute of Technology 3373
 BABY MACHINE ANALYSIS OF CELLULAR GRAVITY SENSITIVITY
Period
 05/19/1995-04/30/1998 *Obligations* FY95: \$95,854 TOTAL: \$95,854
Prin. Invest. NASA Tech. Officer *CASE Category*
 C E HELMSTETTER HQ/T K SCOTT 59-Life Sci, NEC

NCCW 44 Fla International University 3338
 STRATEGIC COMMERCIALIZATION AND UTILIZATION INITIATIVE (SCUI)
Period
 05/25/1994-04/30/1997 *Obligations* FY95: \$399,903 TOTAL: \$799,607
Prin. Invest. NASA Tech. Officer *CASE Category*
 M A EBADIAN HQ/A KAHN 99-Multi-Discip
 HQ/B WHITE

NAG10-98 Florida Institute of Technology 3374
 HYDROGEN LEAK DETECTION TECHNOLOGY
Period
 02/12/1992-08/31/1994 *Obligations* FY95: TOTAL: \$108,172
Prin. Invest. NASA Tech. Officer *CASE Category*
 R G BARILE KSC/W E LARSON 43-Chem Engr

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NAG10-106 Florida Institute of Technology 3375
 RAPID SUSCEPTIBILITY TESTING OF MYCOBACTERIUM AVIUM
 COMPLEX AND TUBERCULOSIS ISOTATED AIDS PATIENT
Period Obligations
 06/01/1992-05/31/1994 FY95: TOTAL: \$99,996
Prin. Invest. NASA Tech. Officer CASE Category
 A M DHOPE KSC/B WILLIAMS 56-Medical Sciences

NAG10-151 Florida Institute of Technology 3376
 DEVELOPMENT AND TESTING OF AN OPTICAL WATER QUALITY
 BUOY
Period Obligations
 01/09/1995-01/16/1996 FY95: \$77,000 TOTAL: \$77,000
Prin. Invest. NASA Tech. Officer CASE Category
 C R BOSTATER KSC/W M KNOTT 54-Env Biology

NAS 5-32364 Florida Institute of Technology 3377
 TRMM GROUND TRUTH VALIDATION IN CENTRAL FLORIDA
 REGION
Period Obligations
 06/23/1994-06/22/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 W L JONES GSFC/O J THIELE 31-Atmos Sci

NAS 8-39385 Florida Institute of Technology 3378
 MODEL-BASED REASONING FOR POWER SYSTEM MANAGEMENT
 USING KATE AND THE SSM/PMAD BREADBOARD
Period Obligations
 03/09/1992-12/31/1993 FY95: TOTAL: \$91,473
Prin. Invest. NASA Tech. Officer CASE Category
 R A MORRIS MSFC/L F LOLLAR 45-Elec Engr
 MSFC/B K WALLS

NGT 00-050-967 Florida Institute of Technology 3379
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/30/1992-07/31/1996 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R C WEIGEL KSC/B MARTIN 51-Biological Sci

NGT 00-051-086 Florida Institute of Technology 3380
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 T D OSWALT HQ/D HOLLAND 42-Astro Engr

NAG 1-421 Florida State University 3381
 COMPUTATION OF LARGE TURBULENCE STRUCTURES AND NOISES
 OF SUPERSONIC JETS
Period Obligations
 12/01/1983-12/31/1995 FY95: \$75,000 TOTAL: \$790,962
Prin. Invest. NASA Tech. Officer CASE Category
 C K TAM LARC/R A GOLUB 41-Aero Engr
 LARC/T D NORUM

NAG 1-862 Florida State University 3382
 SPECTRAL SOLUTION OF DISCONTINUOUS HYPERBOLIC PROB
 LEMS
Period Obligations
 03/14/1988-05/07/1994 FY95: TOTAL: \$164,768
Prin. Invest. NASA Tech. Officer CASE Category
 D A KOPRIVA LARC/T A ZANG 41-Aero Engr
 LARC/A KUMAR

NAG 1-1312 Florida State University 3383
 INTIAL RESEARCH FOR TRACE-A
Period Obligations
 08/01/1991-02/28/1996 FY95: \$140,000 TOTAL: \$587,774
Prin. Invest. NASA Tech. Officer CASE Category
 T N KRISHNAMURTI LARC/J FISHMAN 31-Atmos Sci
 H E FUELBERG LARC/J M HOELL

NAG 1-1497 Florida State University 3384
 BASIC INVESTIGATION OF FLUID-ACOUSTIC INTERACTIONS IN A
 SUPERSONIC RECTANGULAR JET EJECTOR
Period Obligations
 03/30/1993-07/31/1994 FY95: TOTAL: \$74,834
Prin. Invest. NASA Tech. Officer CASE Category
 A KROTHAPALLI LARC/J M SEINER 41-Aero Engr
 C ROSS

NAG 2-809 Florida State University 3385
 AN INVESTIGATION OF THE UNCERTAINTIES IN VELOCITY AND
 VORTICITY ESTIMATES USING PIV
Period Obligations
 10/13/1992-03/31/1995 FY95: TOTAL: \$103,947
Prin. Invest. NASA Tech. Officer CASE Category
 L LOURENCO ARC/Y C CHO 46-Mech Engr

NAG 3-1267 Florida State University 3386
 DIRECT NUMERICAL SIMULATION OF HIGH-SPEED JET FLOW AND
 NOISE RADIATION
Period Obligations
 04/05/1991-11/30/1995 FY95: TOTAL: \$300,000
Prin. Invest. NASA Tech. Officer CASE Category
 K W TAM LERC/D L HUFF 41-Aero Engr

NAG 3-1284 Florida State University 3387
 THEOR STUDIES OF RESID ACCEL INA MICROGRAV ENVIR:
 STOCHASTIC FORMULATION OF FLUID FLOW PHENOMENA
Period Obligations
 06/14/1991-03/08/1996 FY95: \$90,000 TOTAL: \$726,196
Prin. Invest. NASA Tech. Officer CASE Category
 J VINALS LERC/T K GLASGOW 47-Materials Engr

NAG 3-1683 Florida State University 3388
 JET MIXING NOISE FROM FINE SCALE TURBULENCE
Period Obligations
 12/01/1994-11/30/1995 FY95: \$77,810 TOTAL: \$77,810
Prin. Invest. NASA Tech. Officer CASE Category
 C K TAM LERC/E A KREJSA 41-Aero Engr
 LERC/J F GROENEWEG

NAG 5-815 Florida State University 3389
 PROGNOSTIC AND DIAGNOSTIC STUDIES OF WAVE-MEAN FLOW
 AND MEAN-MEA FLOW INSTRUCTIONS
Period Obligations
 07/15/1986-11/14/1994 FY95: TOTAL: \$627,714
Prin. Invest. NASA Tech. Officer CASE Category
 R L PFEFFER GSFC/M HELFAND 31-Atmos Sci

NAG 5-1587 Florida State University 3390
 APPLICATION OF TRMM DATA TO THE STUDY OF AFRICAN
 CLIMATE
Period Obligations
 05/23/1991-01/14/1995 FY95: TOTAL: \$188,770
Prin. Invest. NASA Tech. Officer CASE Category
 S E NICHOLSON GSFC/D SHORT 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NAG 5-1595 Florida State University 3391
 USE OF MICROWAVE RAINFALL AND PRECIPITABLE WATER ESTIMATES IN GLOBAL MODEL INITIALIZATION AND PRE..
Period Obligations
 05/13/1991-05/31/1996 FY95: \$80,000 TOTAL: \$402,715
Prin. Invest. NASA Tech. Officer CASE Category
 T N KRISHNAMURTI GSFC/W LAU 31-Atmos Sci

NAG 5-2719 Florida State University 3399
 GROUND TRUTH FOR TRMM IN FLORIDA
Period Obligations
 09/08/1994-09/14/1996 FY95: \$120,000 TOTAL: \$160,000
Prin. Invest. NASA Tech. Officer CASE Category
 P S SMITH GSFC/O THIELE 51-Biological Sci

NAG 5-1602 Florida State University 3392
 STUDY OF VERTICALLY RESOLVED PRECIPITATION RETRIEVAL FROM DECONVOLVED PASSIVE MICROWAVE MEASUREMENT
Period Obligations
 05/13/1991-05/31/1994 FY95: TOTAL: \$249,127
Prin. Invest. NASA Tech. Officer CASE Category
 E A SMITH GSFC/A NEGRI 31-Atmos Sci

NAG 5-2879 Florida State University 3400
 ANALYSIS OF AC LOSSES IN SUPERCONDUCTING MAGNETS FOR ADIABATIC DEMAGNETIZATION REFRIGERATION
Period Obligations
 01/30/1995-08/31/1995 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 S W VAN SCIVER GSFC/S R BREON 42-Astro Engr
 Y EYSSA

NAG 5-1660 Florida State University 3393
 VARIATIONAL DATA ASSIMILATION WITH SEMI-IMPLICIT SEMI-LAGRANGIAN SHALLOW WATER EQUATION MODEL
Period Obligations
 07/15/1991-05/31/1996 FY95: \$104,000 TOTAL: \$467,906
Prin. Invest. NASA Tech. Officer CASE Category
 I M NAVON GSFC/J R BATES 31-Atmos Sci

NAG 8-911 Florida State University 3401
 THE EVALUATION AND USE OF GOES-IM WATER VAPOR PRODUCTS FOR HYDROLOGIC PROCESS STUDIES
Period Obligations
 05/21/1992-07/01/1995 FY95: \$49,135 TOTAL: \$205,309
Prin. Invest. NASA Tech. Officer CASE Category
 H E FUELBERG MSFC/A GUILLORY 31-Atmos Sci
 MSFC/J E ARNOLD

NAG 5-1869 Florida State University 3394
 COMPARISON OF RADAR-DERIVED MICROPHYSICAL FIELDS WITH OTHER OBSERVATIONS
Period Obligations
 01/24/1992-07/31/1995 FY95: TOTAL: \$199,971
Prin. Invest. NASA Tech. Officer CASE Category
 P S RAY GSFC/G M HEYMSFIELD 31-Atmos Sci

NAG 8-914 Florida State University 3402
 TROPICAL ANALYSIS AND PREDICTION IMPACT STUDY FROM SATELLITE OBSERVATIONS
Period Obligations
 05/26/1992-05/31/1995 FY95: TOTAL: \$271,180
Prin. Invest. NASA Tech. Officer CASE Category
 T N KRISHNAMURTI MSFC/D FITZJARRALD 31-Atmos Sci

NAG 5-2072 Florida State University 3395
 QUANTIFYING THE RESPONSE OF A BIOSPHERE-BOUNDARY LAYER-RADIATIVE TRANSFER PROCESS MODEL TO ...
Period Obligations
 08/25/1992-02/28/1995 FY95: TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 E A SMITH GSFC/F G HALL 39-Env Sci, NEC

NAG 8-916 Florida State University 3403
 ANALYSIS OF SURFACE AND LAND ATMOSPHERE BUDGET MEASUREMENTS
Period Obligations
 06/03/1992-05/31/1995 FY95: TOTAL: \$170,900
Prin. Invest. NASA Tech. Officer CASE Category
 E A SMITH MSFC/S J GOODMAN 31-Atmos Sci

NAG 5-2447 Florida State University 3396
 QUALITY ASSURANCE OF BOREAS NET RADIATION MEASUREMENT
Period Obligations
 11/30/1993-11/30/1995 FY95: \$111,000 TOTAL: \$270,800
Prin. Invest. NASA Tech. Officer CASE Category
 E A SMITH GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P J SELLERS

NAG 8-1163 Florida State University 3404
 ANALYSIS OF ELECTROPHORETIC TRANSPORT
Period Obligations
 08/30/1995-08/29/1996 FY95: \$135,000 TOTAL: \$135,000
Prin. Invest. NASA Tech. Officer CASE Category
 B R LOCKE MSFC/P H RHODES 43-Chem Engr
 MSFC/T Y MILLER

NAG 5-2468 Florida State University 3397
 CLIMATE VARIATION WITH MULTIPLE TIME SCALES
Period Obligations
 01/07/1994-06/30/1995 FY95: TOTAL: \$54,875
Prin. Invest. NASA Tech. Officer CASE Category
 H WENG GSFC/W K LAU 31-Atmos Sci

NAGW 985 Florida State University 3405
 DATA ASSIMUL. IN OCEAN CIRCULATION
Period Obligations
 11/01/1986-04/30/1996 FY95: \$165,000 TOTAL: \$1,158,000
Prin. Invest. NASA Tech. Officer CASE Category
 J J O'BRIEN HQ/G S LAGERLOEF 33-Oceanography
 HQ/W S WILSON

NAG 5-2672 Florida State University 3398
 VERTICALLY RESOLVED PRECIPITATION RETRIEVAL USING PASSIVE MICROWAVE ONLY AND COMBINED PASSIVE MICRO
Period Obligations
 08/11/1994-08/14/1996 FY95: \$105,000 TOTAL: \$210,000
Prin. Invest. NASA Tech. Officer CASE Category
 E SMITH GSFC/A NEGRI 31-Atmos Sci

NAGW 3087 Florida State University 3406
 EASTERN BOUNDARY EFFECTS ON GENERAL CIRCULATION STRUCTURE
Period Obligations
 05/29/1992-05/31/1995 FY95: TOTAL: \$212,367
Prin. Invest. NASA Tech. Officer CASE Category
 W K DEWAR HQ/D ADAMEC 31-Atmos Sci
 HQ/R A SCHIFFER

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NAGW 3101 Florida State University 3407
AFRICAN CLIMATE AND VEGETATION STUDIES RELATED TO THE
HAPEX-SAHEL EXPERIMENT
Period Obligations
06/22/1992-09/30/1994 FY95: TOTAL: \$54,818
Prin. Invest. NASA Tech. Officer CASE Category
S E NICHOLSON HQ/R E MURPHY 31-Atmos Sci
HQ/D M BUTLER

NAGW 3109 Florida State University 3408
SATELLITE STUDIES OF PRECIPITATION AND EVAPOTRANSPIRATION
FEEDBACK
Period Obligations
06/17/1992-06/30/1995 FY95: \$90,000 TOTAL: \$232,000
Prin. Invest. NASA Tech. Officer CASE Category
E A SMITH HQ/R E MURPHY 31-Atmos Sci
HQ/D E WICKLAND

NAGW 3326 Florida State University 3409
THEORETICAL STUDIES OF THE TRANSITION IN LIQUID
Period Obligations
01/06/1993-12/31/1995 FY95: \$60,000 TOTAL: \$180,000
Prin. Invest. NASA Tech. Officer CASE Category
E MANOUSAKIS HQ/M C LEE 12-Chemistry

NAGW 3495 Florida State University 3410
NAGW-3495/FLORIDA STATE UNIV/MARINE PHYTOPLANKTON
ANNUAL CARBON PRODUCTION, NEW NITROGEN PRODUCTION
Period Obligations
04/22/1993-12/31/1995 FY95: \$65,000 TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
R IVERSON HQ/R E MURPHY 33-Oceanography
HQ/D M BUTLER

NAGW 3855 Florida State University 3411
FLORIDA STATE UNIV - CONTROLS ON METHANE EMISSIONS FROM
VEGETATED WETLANDS:SUBSTRATE, OXIDATION,TRAN
Period Obligations
01/13/1994-09/30/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
J CHANTON HQ/D E WICKLAND 39-Env Sci, NEC
HQ/A C JANETOS

NAGW 3970 Florida State University 3412
WETNET INTERCOMPARISON-VALIDATION STUDIES OF SSM
PRECIPITATION OF RETRIEVAL ALGORITHMS
Period Obligations
04/25/1994-06/30/1996 FY95: TOTAL: \$160,000
Prin. Invest. NASA Tech. Officer CASE Category
E A SMITH HQ/J C DODGE 31-Atmos Sci
HQ/R A SCHIFFER

NAGW 4044 Florida State University 3413
SIBERIAN PERMAFROST: APPLICATIONS TO MARS
Period Obligations
08/22/1994-05/31/1996 FY95: \$117,372 TOTAL: \$227,424
Prin. Invest. NASA Tech. Officer CASE Category
E I FRIEDMANN HQ/M MEYER 51-Biological Sci

NAS 8-40632 Florida State University 3414
FURNANCE AND COIL FURNANCE
Period Obligations
08/14/1995-04/30/1996 FY95: \$50,052 TOTAL: \$50,052
Prin. Invest. NASA Tech. Officer CASE Category
M BIRD MSFC/L JETER 47-Materials Engr

NGT 00-030-170 Florida State University 3415
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
J CHANTON HQ/G ASRAR 33-Oceanography
HQ/D M BUTLER

NGT 00-030-214 Florida State University 3416
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/25/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
H E FUELBERG HQ/G ASRAR 31-Atmos Sci
HQ/D M BUTLER

NGT 00-050-983 Florida State University 3417
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
11/27/1992-12/14/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
H E FUELBERG KSC/B MILLER 31-Atmos Sci

NGT 00-070-258 Florida State University 3418
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
06/16/1992-07/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
T N KRISHNAMURTI MSFC/F SIX 46-Mech Engr

NGT 00-070-273 Florida State University 3419
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
07/15/1992-07/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
S NICHOLSON GSFC/G SOFFEN 31-Atmos Sci

NGT 00-090-108 Florida State University 3420
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/24/1992-08/14/1994 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
T J HARRISON HQ/D K RUSSELL 99-Multi-Discip

NAG 1-1402 The University of Central Florida 3421
VORTEX MIXING IN COMPRESSIBLE FLOW
Period Obligations
02/20/1992-05/21/1994 FY95: TOTAL: \$42,373
Prin. Invest. NASA Tech. Officer CASE Category
L CHEW LARC/S K ROBINSON 41-Aero Engr

NAG 1-1502 The University of Central Florida 3422
NEW DIODE PUMPED SOLID STATE LASERS
Period Obligations
04/27/1993-10/30/1994 FY95: \$4,999 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
B CHAI LARC/J C BARNES 47-Materials Engr
G LUTTE LARC/W E MILLER

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NAG 2-4005 The University of Central Florida 3423
 ABOVE REAL TIME TRAINING ABOVE REAL-TIME TRAINING (ARTT)
 OF EMERGENCY
Period *Obligations*
 05/11/1994-07/31/1995 FY95: TOTAL: \$60,070
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D GUCKENBERGER DFRC/J KOLF 49-Engr, NEC
 W SWART DFRC/J GERA

NAGW 4292 The University of Central Florida 3424
 ADVANCE DESING PROGRAM
Period *Obligations*
 01/16/1995-08/31/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R JOHNSON HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NAG10-94 The University of Central Florida 3425
 THE USE OF A WATER RINSE TO DETERMINE THE STATE OF
 CLEANLINESS OF A SURFACE
Period *Obligations*
 11/29/1991-01/28/1995 FY95: TOTAL: \$189,283
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A CLAUSEN KSC/P WELCH 12-Chemistry

NAG10-101 The University of Central Florida 3426
 DEVELOPMENT AND IMPLEMENTATION OF INDUSTRIAL
 ENGINEERING IN SHUTTLE PROCESSING OPERATIONS
Period *Obligations*
 03/30/1992-11/30/1995 FY95: TOTAL: \$471,482
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W W SWART KSC/T S BARTH 41-Aero Engr

NAG10-117 The University of Central Florida 3427
 DEVELOPMENT OF A NONDESTRUCTIVE VIBRATION TECHNI-
 QUE FOR BOND ASSESSMENT OF SPACE SHUTTLE TILES
Period *Obligations*
 01/15/1993-01/14/1996 FY95: TOTAL: \$280,680
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E A MOSLEKY KSC/R M DAVIS 46-Mech Engr

NAG10-118 The University of Central Florida 3428
 INTER-FACILITY COMPARISON AND EXTERNAL BENCHMARKING OF
 PRODUCTIVITY AND PERFORMANCE IN SHUTTLE PROCESSNG
Period *Obligations*
 01/15/1993-04/05/1996 FY95: TOTAL: \$130,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W W SWART KSC/T S BARTH 99-Multi-Discip

NAG10-119 The University of Central Florida 3429
 TEAM PERFORMANCE AND TEAM INTERACTION IN SHUTTLE
 PROCESSING OPERATIONS
Period *Obligations*
 01/15/1993-01/15/1995 FY95: TOTAL: \$34,994
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W W SWART KSC/J S BARTH 99-Multi-Discip

NAG10-120 The University of Central Florida 3430
 AUTOMATED DATA BASE DESIGN FROM NATURAL LANGUAGE
 INPUT
Period *Obligations*
 01/15/1993-03/14/1996 FY95: \$99,999 TOTAL: \$279,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F GOMEZ KSC/C DELAUNE 99-Multi-Discip

NAG10-121 The University of Central Florida 3431
 MATERIALS PERFORMANCE AND EVALUATION
Period *Obligations*
 01/15/1993-01/15/1995 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D V DESAI KSC/R LEE 47-Materials Engr

NAG10-123 The University of Central Florida 3432
 RENEWABLE HYDROGEN PRODUCTION AND APPLICATIONS
 PROGRAM
Period *Obligations*
 06/15/1993-12/19/1995 FY95: TOTAL: \$75,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D L BLOCK KSC/A L BAIN 43-Chem Engr

NAG10-126 The University of Central Florida 3433
 ANALYSIS OF MAGNETIC FIELD LEVELS FROM AC HIGH AND LOW
 VOTAGE POWERLINES AND PANELS AT KSC
Period *Obligations*
 07/15/1993-08/08/1994 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C G CHRISTODOULOU KSC/J E HANLON 45-Elec Engr

NAG10-128 The University of Central Florida 3434
 DYNAMIC EXCITATION OF GROUND SUPPORT STRUCTURES FROM
 SPACE SHUTTLE LIFTOFF
Period *Obligations*
 12/01/1993-11/30/1995 FY95: TOTAL: \$59,997
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W F CARROLL KSC/T I YANG 44-Civil Engr

NAG10-132 The University of Central Florida 3435
 ELECTRONIC PERFORMANCE SUPPORT SYSTEMS (EPSS)
 RESEARCH APPLICATIONS
Period *Obligations*
 01/26/1994-01/30/1996 FY95: TOTAL: \$120,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M RAGUSA KSC/N SLIWA 22-Computer Science

NAG10-136 The University of Central Florida 3436
 INTEGRATING AEROSPACE TECHNOLOGY INTO CIRRICULUM
Period *Obligations*
 05/11/1994-08/05/1994 FY95: TOTAL: \$65,514
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S DUTCZAK KSC/J HODGES 41-Aero Engr

NAG10-141 The University of Central Florida 3437
 VARIABLE FORM DATA COLLECTION AND ANALYSIS
Period *Obligations*
 06/21/1994-06/20/1996 FY95: \$99,492 TOTAL: \$198,528
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W W SWART KSC/T BARTH 22-Computer Science

NAG10-147 The University of Central Florida 3438
 DEVELOPMENT OF ADVANCED LIFE SUPPORT AUTOMATED REMOTE
 MANIPULATED (ALSARM)
Period *Obligations*
 11/10/1994-11/14/1995 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R W JOHNSON KSC/J SAGER 59-Life Sci, NEC

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NAG10-152 The University of Central Florida 3439
 CHARACTERIZATION AND EVALUATION OF ACID RAIN
Period Obligations
 01/09/1995-01/08/1996 FY95: \$17,948 TOTAL: \$17,948
Prin. Invest. NASA Tech. Officer CASE Category
 B C MADSEN KSC/W M KNOTT 54-Env Biology

NAG10-158 The University of Central Florida 3440
 PERFORMANCE TESTING AND ANALYSIS
Period Obligations
 05/17/1995-08/09/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 S S KUO KSC/C L JENKINS 44-Civil Engr

NAG10-162 The University of Central Florida 3441
 ENHANCEMENT OF IN-SUTU ZERO VALENT
Period Obligations
 06/14/1995-06/18/1996 FY95: \$87,299 TOTAL: \$87,299
Prin. Invest. NASA Tech. Officer CASE Category
 C A CLAUSEN KSC/J RYAN 43-Chem Engr
 D R REINHART

NAG10-163 The University of Central Florida 3442
 CONCRETE REBAR CORROSION PROTECTION
Period Obligations
 06/05/1995-06/08/1996 FY95: \$50,010 TOTAL: \$50,010
Prin. Invest. NASA Tech. Officer CASE Category
 V H DESAI KSC/R LEE 41-Aero Engr

NAG10-169 The University of Central Florida 3443
 DEV OF METHODOLOGIES AND SOLVENT SYSTEMS
Period Obligations
 06/14/1995-06/18/1996 FY95: \$49,957 TOTAL: \$49,957
Prin. Invest. NASA Tech. Officer CASE Category
 C A CLAMSEN KSC/G J ALLEN 43-Chem Engr

NGT 00-051-099 The University of Central Florida 3444
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/05/1993-07/31/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A L ARMACOST HQ/D GLASCO 49-Engr, NEC

NGT 00-051-402 The University of Central Florida 3445
 GSRP
Period Obligations
 07/31/1995-08/20/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 D MOSHELL HQ/D HOLLAND 22-Computer Science

NGT 00-060-002 The University of Central Florida 3446
 SUMMER FACULTY FELLOWSHIP PROGRAM RESEARCH
Period Obligations
 03/31/1988-12/31/1995 FY95: \$393,292 TOTAL: \$2,453,987
Prin. Invest. NASA Tech. Officer CASE Category
 L A ANDERSON HQ/A S MCGEE 49-Engr, NEC
 HQ/E T SCHWARTZ

NGT 00-090-046 The University of Central Florida 3447
 NASA SCHOLARS
Period Obligations
 08/20/1991-08/31/1995 FY95: TOTAL: \$108,276
Prin. Invest. NASA Tech. Officer CASE Category
 J SMITH HQ/B WHITE 49-Engr, NEC
 S RICE

NGT 00-090-059 The University of Central Florida 3448
 SUMMER PROGRAM FOR ACADEMIC CAREERS IN ENGINEERING
 (SPACE)
Period Obligations
 03/31/1992-03/31/1996 FY95: \$241,036 TOTAL: \$433,086
Prin. Invest. NASA Tech. Officer CASE Category
 S RICE HQ/B WHITE 49-Engr, NEC
 J A SMITH

NGT 00-090-121 The University of Central Florida 3449
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 09/26/1992-08/14/1995 FY95: TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A SMITH HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-122 The University of Central Florida 3450
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/26/1992-08/14/1995 FY95: TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 J SMITH HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-159 The University of Central Florida 3451
 NASA KSC/UCF SPACE SCHOLARS PROGRAM
Period Obligations
 05/20/1993-05/31/1996 FY95: \$99,371 TOTAL: \$220,571
Prin. Invest. NASA Tech. Officer CASE Category
 J A SMITH HQ/J M MACKALL 49-Engr, NEC

NGT 00-090-170 The University of Central Florida 3452
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/09/1993-08/14/1996 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 J SMITH HQ/D K RUSSELL 99-Multi-Discip

NAG 1-609 University of Florida 3453
 INVESTIGATION OF TEMPERATURE AND CONCENTRATION
 OSCILLATIONS IN THE DIRECTIONAL SOLIDIFICATION OF PB SN
Period Obligations
 07/12/1985-12/31/1994 FY95: TOTAL: \$522,753
Prin. Invest. NASA Tech. Officer CASE Category
 T J ANDERSON LARC/A L FRIPP 13-Physics
 R NARAYANAN

NAG 1-1226 University of Florida 3454
 MODELING STIFFNESS AND STRENGTH PROPERTIES OF TEXT ILE
 STRUCTURAL COMPOSITES D
Period Obligations
 02/08/1991-09/30/1995 FY95: TOTAL: \$221,891
Prin. Invest. NASA Tech. Officer CASE Category
 B V SANKAR LARC/W C JACKSON 47-Materials Engr
 LARC/C C POE

NAG 1-1394 University of Florida 3455
 APPLIED AERODYNAMICS EXPERIENCE FOR SECONDARY SCIENCE
 TEACHERS AND STUDENTS
Period Obligations
 04/22/1992-04/13/1995 FY95: TOTAL: \$110,325
Prin. Invest. NASA Tech. Officer CASE Category
 A JD LARC/R L YANG 49-Engr, NEC
 CARROLL LARC/E J PRIOR

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NAG 8-280 University of Florida 3471
AUTOMATED SPACE ROBOTICS FOR SATELLITE RESCUE
Period Obligations
03/01/1993-12/31/1995 FY95: \$74,618 TOTAL: \$224,328
Prin. Invest. NASA Tech. Officer CASE Category
N FITZ-COY MSFC/F SIX 49-Engr, NEC

NAGW 2524 University of Florida 3479
MESO-SCALE DYNAMICS OF THE BOREAL FOREST
Period Obligations
08/20/1991-12/31/1995 FY95: \$127,699 TOTAL: \$593,776
Prin. Invest. NASA Tech. Officer CASE Category
C S HOLLING HQ/R E MURPHY 39-Env Sci, NEC
L H GUNDERSON HQ/W S WILSON

NAG 8-946 University of Florida 3472
FUNDAMENTALS OF THERMOMIGRATION OF LIQUID ZONES THROUGH SOLIDS
Period Obligations
01/08/1993-01/06/1996 FY95: \$140,000 TOTAL: \$420,000
Prin. Invest. NASA Tech. Officer CASE Category
M J KAUFMAN MSFC/M F VOLZ 47-Materials Engr

NAGW 2775 University of Florida 3480
ORBIT BASED PROBABILITY CALCULATIONS OF THE ORIGIN S OF STREAM METEORIDS AND DUST
Period Obligations
11/15/1991-10/31/1994 FY95: TOTAL: \$233,490
Prin. Invest. NASA Tech. Officer CASE Category
B A GUSTAFSON HQ/J BOYCE 32-Geological Sci

NAG 8-1092 University of Florida 3473
JOVE
Period Obligations
09/12/1994-05/31/1996 FY95: TOTAL: \$21,025
Prin. Invest. NASA Tech. Officer CASE Category
S T GOTTESMAN MSFC/F SIX 11-Astronomy

NAGW 2957 University of Florida 3481
SPECTROSCOPIC STUDIES OF POLYCYCLIC AROMATIC CATION S IN MATRICES
Period Obligations
03/04/1992-03/31/1996 FY95: \$105,000 TOTAL: \$235,000
Prin. Invest. NASA Tech. Officer CASE Category
M T VALA HQ/L J CAROFF 11-Astronomy

NAG 9-630 University of Florida 3474
DYNAMICS OF DUST AND THE COSMIC DUST COLLECTION FACILITY
Period Obligations
08/10/1992-07/01/1995 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
S F DERMOTT JSC/F HORZ 11-Astronomy

NAGW 3237 University of Florida 3482
NAGW-3237/UNIV FLORIDA/ANALYSIS OF THE IRAS SOLAR SYSTEM DUST DATA
Period Obligations
10/21/1992-01/31/1995 FY95: TOTAL: \$11,000
Prin. Invest. NASA Tech. Officer CASE Category
S F DERMOTT HQ/L S LAPIANA 11-Astronomy
HQ/G P NEWTON

NAG 9-783 University of Florida 3475
AEROSPACE SOLAR PHOTOVOLTAIC HEAT PUMP DEVELOPMENT FOR LUNAR BASE HABITAT
Period Obligations
04/26/1995-12/31/1995 FY95: \$28,875 TOTAL: \$28,875
Prin. Invest. NASA Tech. Officer CASE Category
A DAMIJAN JSC/M EWERT 45-Elec Engr

NAGW 3570 University of Florida 3483
CLINICAL PRACTICE LIBRARY OF MEDICINE
Period Obligations
05/13/1993-01/31/1996 FY95: \$293,959 TOTAL: \$735,878
Prin. Invest. NASA Tech. Officer CASE Category
R R GRAMS HQ/R J WHITE 56-Medical Sciences

NAGW 1923 University of Florida 3476
DYNAMICS OF SATELLITES AND DUST PARTICLES
Period Obligations
01/24/1990-09/30/1995 FY95: \$80,000 TOTAL: \$495,000
Prin. Invest. NASA Tech. Officer CASE Category
S F DERMOTT HQ/T A MAXWELL 32-Geological Sci

NAGW 3698 University of Florida 3484
DEVELOPMENT OF AN ECOLOGICAL ASSAY OF ECOSYSTEM AND ANIMAL COMMUNITY STRUCTURE
Period Obligations
08/03/1993-05/31/1995 FY95: \$100,000 TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
C S HOLLING HQ/D E WICKLAND 39-Env Sci, NEC
L H GUNDERSON HQ/A C JANETOS
K H REDFORD

NAGW 2410 University of Florida 3477
ANALYSIS OF VOYAGER RADIO DATA FROM NEPTUNE
Period Obligations
03/15/1991-09/30/1994 FY95: TOTAL: \$160,159
Prin. Invest. NASA Tech. Officer CASE Category
T D CARR HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 4015 University of Florida 3485
DECAMETRIC RADIO MONITORING OF COMETARY FRAGMENT IMPACTS WITH JUPITER
Period Obligations
05/23/1994-02/28/1995 FY95: TOTAL: \$29,000
Prin. Invest. NASA Tech. Officer CASE Category
T CARR HQ/J RAHE 11-Astronomy

NAGW 2482 University of Florida 3478
NAGW-2482/UNIV FLORIDA/OPTICAL PROPERTIES OF FLUFF Y DUST-AGGREGATES IN COMET COMAE AND INTERPLANETARY
Period Obligations
05/23/1991-03/31/1996 FY95: \$132,524 TOTAL: \$297,710
Prin. Invest. NASA Tech. Officer CASE Category
B GUSTAFSON HQ/J T BERGSTRALH 11-Astronomy

NAGW 4201 University of Florida 3486
INFRARED CALIBRATION FOR THE INFRARED SPACE OBS. NAGW-4201
Period Obligations
11/08/1994-09/30/1996 FY95: \$298,761 TOTAL: \$298,761
Prin. Invest. NASA Tech. Officer CASE Category
C TELESCO HQ/L J CAROFF 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NAGW 4255 University of Florida 3487
UNIVERSITY ADVANCE DESIGN PROGRAM
Period Obligations
01/13/1995-10/09/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
G NEVILL HQ/A S MCGEE 49-Engr, NEC

NAG10-135 University of Florida 3495
IMPLEMENTATION OF MULTIPLE STATION ELECTRIC FIELD SYSTEM
FOR KSC OPERATIONS
Period Obligations
04/13/1994-04/14/1995 FY95: TOTAL: \$19,903
Prin. Invest. NASA Tech. Officer CASE Category
E M THOMSON KSC/M SCOTT 45-Elec Engr

NAGW 4258 University of Florida 3488
PERFORMANCE MODELING OF MASS STORAGE ARCHIVES
Period Obligations
01/31/1995-01/31/1996 FY95: \$49,966 TOTAL: \$49,966
Prin. Invest. NASA Tech. Officer CASE Category
T J JOHNSON HQ/R S MCGINNIS 22-Computer Science

NAG10-145 University of Florida 3496
GENETICALLY ENGINEERED PLANT BIOMONITOR IN MICRO-
GRAVITY
Period Obligations
09/21/1994-09/30/1996 FY95: TOTAL: \$119,566
Prin. Invest. NASA Tech. Officer CASE Category
R J FERL KSC/W M KNOTT 55-Agriculture Sci

NAGW 4329 University of Florida 3489
SATELLITE DATA ASSIMILATION IN THE MIAMI OCEAN MODEL:
Period Obligations
03/04/1995-03/30/1996 FY95: \$103,000 TOTAL: \$103,000
Prin. Invest. NASA Tech. Officer CASE Category
A J MARIANO HQ/R A SCHIFFER 33-Oceanography

NAG10-177 University of Florida 3497
PERFORMANCE ENHANCEMENT OF HIGH SPEED JET SYSTEM
Period Obligations
09/05/1995-09/04/1996 FY95: \$49,694 TOTAL: \$49,694
Prin. Invest. NASA Tech. Officer CASE Category
J F KLAUSNER KSC/F N LIN 99-Multi-Discip

NAGW 4363 University of Florida 3490
A NOVEL METHOD FOR AIR REVITALIZATION CO2-REMOVAL BY A
PULSATING DEVICE
Period Obligations
03/22/1995-02/28/1998 FY95: \$77,081 TOTAL: \$77,081
Prin. Invest. NASA Tech. Officer CASE Category
R R NARAYANAN HQ/M AVERNER 59-Life Sci, NEC

NAS 3-26314 University of Florida 3498
ULTRA HIGH TEMPERATURE REACTOR AND ENERGY CONVERSI
ON
Period Obligations
05/30/1991-05/07/1997 FY95: \$189,000 TOTAL: \$2,317,999
Prin. Invest. NASA Tech. Officer CASE Category
N J DIAZ LERC/H S BLOOMFIELD 13-Physics
F ANGHAI
E T DUGAN

NAGW 4640 University of Florida 3491
HUMAN DIMENSIONS OF DEFORESTATION AND REGROWTH IN THE
BRAZILIAN AMAZON
Period Obligations
07/11/1995-06/30/1996 FY95: \$107,341 TOTAL: \$107,341
Prin. Invest. NASA Tech. Officer CASE Category
S SANDERSON HQ/N MAYNARD 79-Soc Sci, NEC
D SKOLE HQ/R C HARRISS
C WOOD

NAS 8-40592 University of Florida 3499
CRYSTAL GROWTH OF GAAS AND GASB SEMICONDUCTOR
MATERIALS BY THE LIQUID ENCAPSULATED MELT ZONE MET
Period Obligations
04/17/1995-04/16/1997 FY95: \$200,000 TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
R ABBASCHIAN MSFC/J R WATKINS 47-Materials Engr

NAGW 4705 University of Florida 3492
OPTICAL DUST CHARACTERIZER
Period Obligations
08/24/1995-11/30/1995 FY95: \$44,244 TOTAL: \$44,244
Prin. Invest. NASA Tech. Officer CASE Category
B S GUSTAFSON HQ/T KOSTIUK 11-Astronomy

NASW 4676 University of Florida 3500
NASW-4676/UNIV OF FLORIDA/NASA RTTC LOCATED IN THE
SOUTHEAST REGION OF THE U.S.
Period Obligations
12/20/1991-12/31/1995 FY95: \$2,289,700 TOTAL: \$5,109,700
Prin. Invest. NASA Tech. Officer CASE Category
J R THORNTON MSFC/J BEAN 49-Engr, NEC

NAG10-109 University of Florida 3493
DEVELOPMENT PROTOTYPE KINSTATIC PLATFORM FOR APP-
LICATION TO SPACE AND GROUND SERVICING TANKS
Period Obligations
11/25/1992-09/30/1994 FY95: TOTAL: \$51,596
Prin. Invest. NASA Tech. Officer CASE Category
J DUFFY KSC/E RHODES 99-Multi-Discip

NASW 4888 University of Florida 3501
BASIC RESEARCH ON MICRO-GRAVITY FORCED CONVECTION
BOILING AND CONDENSATION
Period Obligations
05/12/1994-02/11/1995 FY95: TOTAL: \$81,866
Prin. Invest. NASA Tech. Officer CASE Category
J F KLAUSNER HQ/A B DOUGHERTY 19-Phys Sci, NEC

NAG10-133 University of Florida 3494
INTEGRATED DEVELOPMENTAL MODEL OF LIFE SUPPORT
CAPABILITIES OF WHEAT
Period Obligations
02/01/1994-07/31/1994 FY95: TOTAL: \$13,220
Prin. Invest. NASA Tech. Officer CASE Category
R DARNELL KSC/W M KNOTT 55-Agriculture Sci

NAS10-11880 University of Florida 3502
ONSITE MEDICAL SUPPORT DURING STS LAUNCH AND LANDING
OPERATIONS
Period Obligations
01/30/1992-09/30/1996 FY95: \$78,000 TOTAL: \$401,719
Prin. Invest. NASA Tech. Officer CASE Category
R J MELKER KSC/I D LONG 56-Medical Sciences

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NCC 1-216 University of Florida 3503
EFFICIENT APPROXIMATIONS FOR STRUCTURAL OPTIMIZATI ON
UNDER MULTIPLE DAMAGE CASES
Period Obligations
08/29/1995-08/31/1996 FY95: \$13,000 TOTAL: \$13,000
Prin. Invest. NASA Tech. Officer CASE Category
R T HAFTKA LARC/S J SCOTTI 49-Engr, NEC

NCC 2-825 University of Florida 3504
ROLE OF CORTICOSTEROIDS IN BONE LOSS DURING SPACE
FLIGHT
Period Obligations
09/09/1993-05/31/1997 FY95: \$101,848 TOTAL: \$251,700
Prin. Invest. NASA Tech. Officer CASE Category
T WRONSKI ARC/C M WINGET 51-Biological Sci
ARC/G C JAHNS

NCC 3-255 University of Florida 3505
ELECTRO-OPT ACT MONOMERS: SYN AND CHAR OF THIN FILMS
OF LIQUID CRYSTALLIN SUBSTITUTED POLYACETYLENES
Period Obligations
03/04/1992-06/21/1995 FY95: TOTAL: \$91,389
Prin. Invest. NASA Tech. Officer CASE Category
R S DURAN LERC/M A MEADOR 12-Chemistry

NCC 8-20 University of Florida 3506
AN ELECTROCHEMICAL METHOD TO MEASURE DIFFUSIVITY IN
LIQUID METALS
Period Obligations
01/08/1993-01/06/1996 FY95: \$135,000 TOTAL: \$405,000
Prin. Invest. NASA Tech. Officer CASE Category
R NARAYANAN MSFC/D A WATRING 47-Materials Engr
T J ANDERSON
A L FRIP

NCC 8-32 University of Florida 3507
GULF COAST ALLIANCE TECHHOLOGY ACCESS SERVICES
Period Obligations
03/22/1994-03/21/1996 FY95: TOTAL: \$355,154
Prin. Invest. NASA Tech. Officer CASE Category
J R THORTON MSFC/S LITTLE 49-Engr, NEC
W HUFFMAN
C JOHNSRUD

NCC 8-51 University of Florida 3508
NOVEL ELECTROCHEMICAL METHOD FLOW VISUALIZATION
Period Obligations
07/07/1994-09/06/1995 FY95: \$59,904 TOTAL: \$114,892
Prin. Invest. NASA Tech. Officer CASE Category
T J ANDERSON MSFC/P N PETERS 43-Chem Engr
R NARAYANAN MSFC/C E BANKS

NGT 00-040-015 University of Florida 3509
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
10/17/1989-01/31/1998 FY95: \$382,000 TOTAL: \$2,437,609
Prin. Invest. NASA Tech. Officer CASE Category
H CAMPINS HQ/L KEFFER 99-Multi-Discip

NGT 00-050-805 University of Florida 3510
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/24/1991-06/30/1994 FY95: TOTAL: \$59,129
Prin. Invest. NASA Tech. Officer CASE Category
J H HUNTER HQ/J ALEXANDER 11-Astronomy

NGT 00-050-815 University of Florida 3511
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/10/1991-06/30/1994 FY95: TOTAL: \$64,850
Prin. Invest. NASA Tech. Officer CASE Category
R E WILSON HQ/F C OWENS 11-Astronomy

NGT 00-050-959 University of Florida 3512
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/25/1992-07/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
H CAMPINS HQ/J K ALEXANDER 11-Astronomy

NGT 00-050-968 University of Florida 3513
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/23/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D J CANTLIFFE KSC/W CAMP 55-Agriculture Sci

NGT 00-051-218 University of Florida 3514
GRAD STUDENT RESEARCHERS PROGRAM
Period Obligations
04/25/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
R L DARNELL KSC/W MARTIN 55-Agriculture Sci

NGT 00-051-242 University of Florida 3515
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/16/1994-08/11/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
R NARAYANAN LERC/F MONTEGANI 43-Chem Engr

NGT 00-051-385 University of Florida 3516
GRADUATE STUDIES RESEARCHER PROGRAM
Period Obligations
06/26/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
B S GUSTAFON HQ/D HOLLAND 11-Astronomy

NGT 00-051-410 University of Florida 3517
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/28/1995-08/10/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
R NARAYANAN HQ/D GLASCO 43-Chem Engr

NGT 00-051-418 University of Florida 3518
GSRP
Period Obligations
08/28/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
R DURAN HQ/G LESANE 12-Chemistry

NGT 00-070-282 University of Florida 3519
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
06/21/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
M J KAUFMAN HQ/D K RUSSELL 47-Materials Engr

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NGT 00-070-332 University of Florida 3520
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 06/29/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 T D CARR HQ/D K RUSSELL 11-Astronomy

NAG 5-2969 University of Miami 3528
 SOURCES OF THE EARTH'S MAGNETIC FIELD STUDIED USING
 ORSTED DATA
Period Obligations
 06/15/1995-06/30/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 C HARRISON GSFC/P T TAYLOR 32-Geological Sci

NAG 1-1199 University of Miami 3521
 RAILGUN STUDIES FOR NASA APPLICATIONS RALIGUN STUDIES
 FOR NASA APPLICATIONS
Period Obligations
 12/10/1990-09/30/1994 FY95: TOTAL: \$76,627
Prin. Invest. NASA Tech. Officer CASE Category
 Y C THIO LARC/W I SCALLION 13-Physics
 LARC/R D WITCOFAKI

NAG 5-3036 University of Miami 3529
 GEODETIC MONITORING OF ACTIVE VOLCANOES WITH SAR
 INTERFEROMETRY
Period Obligations
 07/27/1995-08/14/1996 FY95: \$46,000 TOTAL: \$46,000
Prin. Invest. NASA Tech. Officer CASE Category
 T DIXON GSFC/H V FREY 32-Geological Sci

NAG 1-1229 University of Miami 3522
 CHEMICAL CLIMATOLOGY OF NITROGEN AND SULFUR SPECIES
 OVER THE WESTERN NORTH PACIFIC: GROUND-BASED MEAS
Period Obligations
 02/22/1991-02/28/1995 FY95: \$1 TOTAL: \$572,334
Prin. Invest. NASA Tech. Officer CASE Category
 J M PROSPERO LARC/J W DREWRY 31-Atmos Sci
 D L SAUOIE LARC/J M HOELL JR

NAGW 273 University of Miami 3530
 AN INVESTIGATION OF THE UTILITY OF OCEAN COLOR IMAGERY
 FOR DELINEATION OF OCEANIC PROCESSES IN THE
Period Obligations
 11/01/1981-05/31/1996 FY95: TOTAL: \$2,890,582
Prin. Invest. NASA Tech. Officer CASE Category
 O BROWN HQ/M R LEWIS 33-Oceanography
 O B BROWN HQ/W S WILSON
 R H EVANS

NAG 5-1788 University of Miami 3523
 EOS VERSION ZERO DAAC VERIFICATION
Period Obligations
 10/18/1991-10/31/1994 FY95: TOTAL: \$221,666
Prin. Invest. NASA Tech. Officer CASE Category
 R H EVANS GSFC/H K RAMAPRIYAN 39-Env Sci, NEC

NAGW 1845 University of Miami 3531
 MARINE PHYTOPLANKTON PRODUCTIVITY
Period Obligations
 11/22/1989-12/31/1993 FY95: TOTAL: \$309,211
Prin. Invest. NASA Tech. Officer CASE Category
 P A MATRAL HQ/M R LEWIS 33-Oceanography
 HQ/W S WILSON

NAG 5-1945 University of Miami 3524
 INTEGRATION OF SLR AND VLBI DATA TO OBTAIN VERY AC CURATE
 HORIZONTAL AND VERTICAL MOTIONS
Period Obligations
 03/12/1992-03/14/1996 FY95: \$58,000 TOTAL: \$216,000
Prin. Invest. NASA Tech. Officer CASE Category
 C HARRISON GSFC/B G BILLS 32-Geological Sci

NAGW 2426 University of Miami 3532
 EVALUATION OF PHYSIOLOGICALLY-BASED ALGORITHMS FOR THE
 REMOTE SENSING OF OCEAN PRIMARY PRODUCTIVITY
Period Obligations
 04/16/1991-07/31/1995 FY95: TOTAL: \$402,079
Prin. Invest. NASA Tech. Officer CASE Category
 W M BALCH HQ/M R LEWIS 33-Oceanography
 HQ/D E WICKLAND

NAG 5-2207 University of Miami 3525
 GPS GEODETIC MONITORING OF SOUTH AMERICA - NOZCA P LATE
 CONVERGENCE (SNAPP)
Period Obligations
 03/09/1993-03/14/1996 FY95: \$75,000 TOTAL: \$212,000
Prin. Invest. NASA Tech. Officer CASE Category
 T H DIXON GSFC/B G BILLS 32-Geological Sci

NAGW 2672 University of Miami 3533
 EFFECT OF THE DIRECTIONAL WAVE SPECTRUM ON THE RET
 RRIEVAL OF MARINE SURFACE WINDS FROM RADAR BACK
Period Obligations
 08/30/1991-10/31/1994 FY95: TOTAL: \$135,142
Prin. Invest. NASA Tech. Officer CASE Category
 H C GRABER HQ/W C PATZERT 51-Biological Sci
 HQ/J S THEON

NAG 5-2208 University of Miami 3526
 VOLCANO MONITORING FOR ERUPTION PREDICTION AND FOR
 ECASTING USING THE GLOBAL POSITIONING SYSTEM
Period Obligations
 03/09/1993-03/14/1996 FY95: \$40,000 TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
 T H DIXON GSFC/B G BILLS 32-Geological Sci

NAG 5-2209 University of Miami 3527
 PRESENT DAY KINEMATICS AND EVALUATION OF TRANSPENI
 NSULA SLIP IN NORTHERN BAJA CALIFORNIA
Period Obligations
 03/09/1993-03/14/1996 FY95: \$98,000 TOTAL: \$247,998
Prin. Invest. NASA Tech. Officer CASE Category
 T H DIXON GSFC/B G BILLS 32-Geological Sci

NAGW 3316 University of Miami 3534
 APPLICATION OF HIGH RESOLUTION TOPOGRAPHIC AND REM OTE
 SENSING DATA TO THE KINEMATICS OF FOLD-AND
Period Obligations
 12/31/1992-12/31/1995 FY95: TOTAL: \$94,426
Prin. Invest. NASA Tech. Officer CASE Category
 T DIXON HQ/M BALTUCK 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NAGW 3619 University of Miami 3535
 AIR-SEA GAS FLUXES: A REMOTE SENSING/MODEL BASED APPROACH
Period *Obligations*
 06/15/1993-05/31/1996 FY95: \$139,071 TOTAL: \$365,484
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D OLSEN HQ/M E BALTUCK 33-Oceanography
 R FINE HQ/R C HARRISS

NAGW 3765 University of Miami 3536
 PHYSIOLOGICAL ECOLOGY OF DMSP AND DMS PRODUCTION BY PHYTOPLANKTON
Period *Obligations*
 11/18/1993-12/31/1996 FY95: TOTAL: \$195,701
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P A MATRAI HQ/A C JANETOS 33-Oceanography
 HQ/R T WATSON

NAGW 3775 University of Miami 3537
 AVHRRR PATHFINDER SST ALGORITHM AND PROCESSING DEVELOPMENT AND VERIFICATION
Period *Obligations*
 10/12/1993-09/30/1996 FY95: \$100,000 TOTAL: \$300,001
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R H EVANS HQ/M E MAIDEN 33-Oceanography
 HQ/D M BUTLER

NAGW 4747 University of Miami 3538
 ALGORITHM DEVELOPMENT AND EVAL AND SUPPORT OF PRODUCT GENERATION FOR AVHRRR/OCEANS PATHFINDER
Period *Obligations*
 09/12/1995-06/30/1997 FY95: \$115,956 TOTAL: \$115,956
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R H EVANS HQ/M E MAIDEN 33-Oceanography

NAS 5-30694 University of Miami 3539
 MAINTENANCE AND OPERATION OF ATS-3 COMMUNICATION SYSTEM (CONTRACT TRANSFERRED TO LEWIS RES. CNTR)
Period *Obligations*
 05/23/1989-12/31/1996 FY95: TOTAL: \$496,434
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 O BROWN GSFC/R WALES 49-Engr, NEC

NAS 5-31361 University of Miami 3540
 MODIS - INVESTIGATION
Period *Obligations*
 01/15/1992-12/14/2001 FY95: \$799,000 TOTAL: \$1,854,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 O B BROWN GSFC/H OSEROFF 33-Oceanography

NAS 5-31362 University of Miami 3541
 EOS/MODIS INVESTIGATION ENTITLED: 'PROCESSING/CALIBRATION FOR OCEAN OBSERVATION WITH EOS/MODIS'
Period *Obligations*
 12/13/1991-12/14/2001 FY95: \$1,045,000 TOTAL: \$2,757,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R EVANS GSFC/H OSEROFF 31-Atmos Sci

NAS 5-31363 University of Miami 3542
 MODERATE RESOLUTION IMAGING SPECTROMETER INVESTIGATION - OCEAN
Period *Obligations*
 01/15/1992-12/14/2001 FY95: \$569,000 TOTAL: \$1,469,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H GORDON GSFC/H OSEROFF 31-Atmos Sci

NAS 5-31734 University of Miami 3543
 DEVELOPMENT FOR SEAWIFS
Period *Obligations*
 11/22/1991-11/21/1995 FY95: TOTAL: \$369,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H GORDAN GSFC/C MCLAIN 31-Atmos Sci

NAS 5-31745 University of Miami 3544
 RESEARCH ALGORITHMS AND DESIGN, DEVELOPMENT, AND VERIFICATION OF S/W FOR DATA SYSTEMS FOR SEAWIFS
Period *Obligations*
 04/24/1992-04/21/1996 FY95: \$40,000 TOTAL: \$695,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R EVANS GSFC/G FELDMAN 33-Oceanography

NCC 2-843 University of Miami 3545
 FLIGHT TRAINING FOR THE HIGH TECHNOLOGY TRANSPORT COCKPIT
Period *Obligations*
 01/31/1994-09/30/1996 FY95: \$128,468 TOTAL: \$300,596
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E L WIENER ARC/R K DISMUKES 69-Psych, NEC
 ARC/E A PALMER

NGT 00-030-114 University of Miami 3546
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 10/30/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S A YVON HQ/G ASRAR 33-Oceanography
 HQ/D M BUTLER

NGT 00-090-230 University of Miami 3547
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period *Obligations*
 09/29/1993-08/14/1994 FY95: TOTAL: \$12,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K Y FUNG HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-268 University of Miami 3548
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period *Obligations*
 12/20/1994-08/14/1996 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K Y FUNG HQ/D K RUSSELL 11-Astronomy

NAG 1-1104 University of South Florida 3549
 COMPARISON OF 2 MEGOHM HOLMIUM AND 10 MEGOHM CARBON OXYGEN 2 LIDAR FOR ATMOSPHERIC BACKSCATTER AND
Period *Obligations*
 02/13/1990-03/31/1996 FY95: TOTAL: \$343,690
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D K KILLINGER LARC/N P BARNES 31-Atmos Sci
 K CHAN LARC/J A WILLIAMS-BYRD

NAG 2-1000 University of South Florida 3550
 EFFECTS OF WEIGHTLESSNESS ON THE AVIAN VISUO-VESTIBULAR SYSTEM: IMMUNOHISTOCHEMICAL ANALYSIS
Period *Obligations*
 08/27/1995-05/31/1996 FY95: \$62,031 TOTAL: \$62,031
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T SHIMIZU ARC/C M WINGET 51-Biological Sci
 ARC/G C JAHNS

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NAG 3-1112 University of South Florida 3551
 NUMERICAL SIMULATION OF CHEMICAL KENETICS AND TURBUL
 ENT EDDIES FOR FLOW IN COMBUSTOR
Period Obligations
 01/10/1990-01/08/1995 FY95: TOTAL: \$141,273
Prin. Invest. NASA Tech. Officer CASE Category
 S J BEN YING LERC/H L NGUYEN 43-Chem Engr

NAGW 3950 University of South Florida 3558
 INVESTIGATION OF THE RESPONSE OF THE ARABIAN SEA T O
 THE SOUTHWEST MONSOON USING AIRCRAFT AND SATELL
Period Obligations
 04/21/1994-04/30/1997 FY95: \$105,000 TOTAL: \$204,643
Prin. Invest. NASA Tech. Officer CASE Category
 P G COBLE HQ/A C JENETOS 33-Oceanography
 P STEGMANN

NAG 9-648 University of South Florida 3552
 EVALUATION OF OVARIAN TUMOR CELL GROWTH AND GENE
 EXPRESSION
Period Obligations
 10/28/1992-02/29/1996 FY95: \$125,000 TOTAL: \$365,000
Prin. Invest. NASA Tech. Officer CASE Category
 J L BECKER JSC/G SPAULDING 51-Biological Sci

NAG10-76 University of South Florida 3559
 DEVELOPMENT OF A LOAD MANAGEMENT THERMAN ENEGRY
 STORAGE DEVICE
Period Obligations
 07/16/1990-07/16/1994 FY95: TOTAL: \$117,996
Prin. Invest. NASA Tech. Officer CASE Category
 R A CRANE KSC/J K O MALLEY 99-Multi-Discip

NAGW 465 University of South Florida 3553
 DEV.OF IN SITE TO COMPLEMENT OCEAN COLOR REMOTE
 SENSING
Period Obligations
 05/05/1983-12/31/1996 FY95: \$175,000 TOTAL: \$1,802,184
Prin. Invest. NASA Tech. Officer CASE Category
 K L CARDER HQ/M R LEWIS 33-Oceanography
 HQ/W S WILSON

NAG10-130 University of South Florida 3560
 BIOLOGICAL CHANGES FOLLOWING RECONNECTIONS OF
 BMCD/USFWS IMPOUNDMENTS AT KSC
Period Obligations
 12/02/1993-12/01/1995 FY95: \$19,555 TOTAL: \$38,449
Prin. Invest. NASA Tech. Officer CASE Category
 K A FLANNING KSC/W M KNOTT 51-Biological Sci

NAGW 3050 University of South Florida 3554
 A PERMANENT MINORITY ENGINEERING PROGRAM FOR HILLS
 BOROUGH COUNTY
Period Obligations
 04/14/1992-10/31/1995 FY95: \$52,345 TOTAL: \$198,261
Prin. Invest. NASA Tech. Officer CASE Category
 R E HERRING HQ/B WHITE 49-Engr, NEC

NAS 3-26412 University of South Florida 3561
 ACTS PROPAGATION EXPERIMENTS
Period Obligations
 05/03/1993-12/31/1995 FY95: \$37 TOTAL: \$125,039
Prin. Invest. NASA Tech. Officer CASE Category
 R E HENNING LERC/G J GUNDERMAN 19-Phys Sci, NEC

NAGW 3459 University of South Florida 3555
 SIMULATION ANALYSIS OF DISSOLVED AND PARTICULATE C
 OMPONENTS
Period Obligations
 03/31/1993-11/30/1995 FY95: \$200,000 TOTAL: \$610,000
Prin. Invest. NASA Tech. Officer CASE Category
 J L WALSH HQ/R E MURPHY 33-Oceanography
 HQ/D M BUTLER

NAS 5-31716 University of South Florida 3562
 EARTH OBSERVING SYSTEM MODIS/HIRIS TEAM MEMBER
 INVESTIGATION
Period Obligations
 01/15/1992-12/14/2001 FY95: \$525,000 TOTAL: \$1,604,168
Prin. Invest. NASA Tech. Officer CASE Category
 K R CARDER GSFC/H OSEROFF 31-Atmos Sci

NAGW 3483 University of South Florida 3556
 EVALUATION OF REGIONAL AND TEMPORAL VARIATION OF P
 RIMARY PRODUCTIVITY IN CASE II OCEAN SHELF WATERS
Period Obligations
 05/06/1993-12/31/1995 FY95: \$389,941 TOTAL: \$719,611
Prin. Invest. NASA Tech. Officer CASE Category
 F MULLER-KARGER HQ/D E WICKLAND 33-Oceanography
 HQ/A C JANETOS

NCC 5-50 University of South Florida 3563
 DEVELOPMENT AND VALIDATION OF ACHLOROPHYLL A, SEAW IFS
 ALGORITHM FOR CASE II WATERS
Period Obligations
 09/02/1992-12/14/1993 FY95: TOTAL: \$74,999
Prin. Invest. NASA Tech. Officer CASE Category
 K L CARDER GSFC/C R MCCLAIN 33-Oceanography
 GSFC/S B HOOKER

NAGW 3618 University of South Florida 3557
 INCORPORATION OF SEAWIFS DATA INTO COUPLED PHYSICA
 L/BIOLOGICAL MODELS OF THE ARABIAN SEA
Period Obligations
 06/09/1993-03/31/1996 FY95: \$125,000 TOTAL: \$375,100
Prin. Invest. NASA Tech. Officer CASE Category
 M E LUTHER HQ/R E MURPHY 33-Oceanography
 HQ/D M BUTLER

NCC 8-31 University of South Florida 3564
 TECHNOLOGY REINVESTMENT PROGRAM
Period Obligations
 04/11/1994-04/10/1996 FY95: TOTAL: \$955,034
Prin. Invest. NASA Tech. Officer CASE Category
 S N BUSANSKY MSFC/S LITTLE 45-Elec Engr
 D C KEEZER

NGT 00-030-270 University of South Florida 3565
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/20/1994-08/31/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 M LUTHER HQ/A C JANETOS 33-Oceanography
 T BUSALACCHI HQ/G ASRAR

**NASA'S UNIVERSITY PROGRAM
FLORIDA (Continued)**

NGT 00-030-306 University of South Florida 3566
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/10/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 K L GARDER HQ/M BALTUCK 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-316 University of South Florida 3567
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/10/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 F MULLER-KARGER HQ/M BALTUCK 33-Oceanography
 HQ/G ASRAR

NGT 00-050-979 University of South Florida 3568
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/14/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D K KILLINGER LARC/E PRIOR 13-Physics

NGT 00-070-260 University of South Florida 3569
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 06/21/1992-07/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 F M KARGER SSC/A JOYCE 33-Oceanography

NGT 00-070-375 University of South Florida 3570
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/22/1994-06/30/1997 FY95: \$44,000 TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 D V LIM HQ/D K RUSSELL 59-Life Sci, NEC

NGT 00-090-048 University of South Florida 3571
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 08/22/1991-08/31/1995 FY95: \$24,000 TOTAL: \$94,484
Prin. Invest. NASA Tech. Officer CASE Category
 J O'SHIELDS HQ/B WHITE 49-Engr, NEC
 K BOWYER

NGT 00-090-060 University of South Florida 3572
 PILOT BRIDGE PROGRAM FOR MINORITY ENGINEERING STUDENTS
Period Obligations
 04/21/1992-09/30/1996 FY95: \$28,532 TOTAL: \$110,893
Prin. Invest. NASA Tech. Officer CASE Category
 J A O'SHIELDS HQ/B L WHITE 49-Engr, NEC

NGT 00-090-103 University of South Florida 3573
 GRSP/UMF
Period Obligations
 09/16/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 J O'SHIELDS HQ/D K RUSSELL 99-Multi-Discip

NCC 3-346 University of West Florida 3574
 ION-EXCHANGE EQUILIBRIUM AND KINETIC PROPERTIES OF POLYACRYLIC FILMS AND APPLICATIONS TO CHEMICAL ANALYSIS
Period Obligations
 04/12/1994-04/11/1996 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 S P TANNER LERC/K W STREET 12-Chemistry

NCC 9-37 University of West Florida 3575
 MECHANISMS OF SENSORIMOTOR ADAPTATION TO CENTRIFUGATION
Period Obligations
 06/15/1995-03/30/1996 FY95: \$13,305 TOTAL: \$13,305
Prin. Invest. NASA Tech. Officer CASE Category
 F GUEDRY JSC/W PALOSKI 59-Life Sci, NEC

GEORGIA

NAG 1-1714 Clark Atlanta University 3577
 BLENDED-WING-BODY STRUCTURAL TECHNOLOGY STUDY
Period Obligations
 04/19/1995-04/18/1996 FY95: \$29,937 TOTAL: \$29,937
Prin. Invest. NASA Tech. Officer CASE Category
 A BADIR LARC/J H STARNES 41-Aero Engr

NAG 1-1727 Clark Atlanta University 3578
 CONSTITUTIVE MODELING AND TESTING OF POLYMER MATRIX COMPOSITES INCORPORATING PHYSICAL AGING AT
Period Obligations
 05/26/1995-05/31/1996 FY95: \$49,054 TOTAL: \$49,054
Prin. Invest. NASA Tech. Officer CASE Category
 D R VEAZIE LARC/T S GATES 41-Aero Engr

NAG 1-1760 Clark Atlanta University 3579
 AN ADAPTIVE FLOW SOLVER FOR AIRBORNE VEHICLES UNDERGOING TIME-DEPENDENT MOTIONS/DEFORMATIONS
Period Obligations
 09/22/1995-09/30/1996 FY95: \$165,134 TOTAL: \$165,134
Prin. Invest. NASA Tech. Officer CASE Category
 J SINGH LARC/E M LEE-RAUSCH 41-Aero Engr
 S TAYLOR

NAG 3-1394 Clark Atlanta University 3580
 SUPERCONDUCTING MATERIALS PROCESSING
Period Obligations
 12/04/1992-12/31/1995 FY95: \$125,000 TOTAL: \$583,723
Prin. Invest. NASA Tech. Officer CASE Category
 T MENSAH LERC/S STECURA 19-Phys Sci, NEC

NAG 3-1411 Clark Atlanta University 3581
 THE CONSTRUCTION OF FINITE DIFFERENCE SCHEMES HAVING SPECIAL PROPERTIES
Period Obligations
 12/31/1992-05/30/1996 FY95: \$38,836 TOTAL: \$297,500
Prin. Invest. NASA Tech. Officer CASE Category
 R E MICKENS LERC/J W GOODRICH 21-Mathematics

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NAG 3-1773 Clark Atlanta University 3582
 TURBULENT PREMIXED METHANE-AIR COMBUSTION: EMISSIONS, CHARACTERISTICS, AND MODELING
Period Obligations
 07/28/1995-07/27/1998 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 Y D YEBOAH LERC/H D ROSS 41-Aero Engr
 LERC/R F LAWRENCE

NCC 3-286 Clark Atlanta University 3589
 ALKALI-LAYERED COMPOUNDS, INTERFACES FOR ENERGY CONVERSION AND ENERGY STORAGE
Period Obligations
 01/11/1993-01/29/1996 FY95: \$154,868 TOTAL: \$503,645
Prin. Invest. NASA Tech. Officer CASE Category
 C R HANDY LERC/A F HEPP 13-Physics
 H L NEAL
 C
 PAPAGEORGOPOULOS

NAG 4-11 Clark Atlanta University 3583
 CHEMICALLY DERIVED DENSE ALUMINA-ZIRCONIA COMPOSITES FOR IMPROVED MECHANICAL AND WEAR EROSION PROPERTIES
Period Obligations
 12/15/1994-12/31/1995 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 L MOETI DFRC/E MCGOWAN 43-Chem Engr
 DFRC/K GUPTA

NGT 00-090-238 Clark Atlanta University 3590
 CLARK ATLANTA UNIV: UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 11/17/1993-08/14/1994 FY95: TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 I JENKINS HQ/D K RUSSELL 99-Multi-Discip

NAG 8-1136 Clark Atlanta University 3584
 LOW DENSITY LOW CONDUCTIVITY PAN ABLATIVE OPTIMIZATION AND NOZZLE FABRICATION
Period Obligations
 03/14/1995-03/31/1996 FY95: \$498,315 TOTAL: \$498,315
Prin. Invest. NASA Tech. Officer CASE Category
 E A MINTZ MSFC/R J HARWELL 47-Materials Engr
 A BIDIR
 M LIN

NAG 2-828 Emory University 3591
 HETEROGENEOUS DISTRIBUTED COMPUTING FOR COMPUTATIONAL AEROSCIENCES
Period Obligations
 03/26/1993-03/31/1996 FY95: \$22,845 TOTAL: \$149,496
Prin. Invest. NASA Tech. Officer CASE Category
 V S SUNDERAM ARC/A C WOO 22-Computer Science
 ARC/E BARSZCZ

NAG 8-1140 Clark Atlanta University 3585
 STUDY OF DROPLET CHARACTERISTICS AT VARIOUS PRESSURE ENVIRONMENTS
Period Obligations
 05/25/1995-05/24/1996 FY95: \$96,312 TOTAL: \$96,312
Prin. Invest. NASA Tech. Officer CASE Category
 T BAI MSFC/A CHOW 54-Env Biology

NAG 1-1213 Georgia Institute of Technology 3592
 AIRBORNE MEASUREMENTS OF NO, NO2 AND NOY AS RELATED TO NASA'S PACIFIC EXPLORATORY MISSION
Period Obligations
 02/19/1991-04/30/1996 FY95: TOTAL: \$1,199,283
Prin. Invest. NASA Tech. Officer CASE Category
 J D BRADSHAW LARC/E V BROWELL 31-Atmos Sci
 S T SANDHOLM LARC/A F CARTER

NAGW 2939 Clark Atlanta University 3586
 HIGH-PERFORMANCE POLYMERS AND CERAMICS
Period Obligations
 03/13/1992-12/31/1996 FY95: \$1,842,368 TOTAL: \$6,137,241
Prin. Invest. NASA Tech. Officer CASE Category
 E A MINTZ HQ/M S MARGOLIS 99-Multi-Discip

NAG 1-1257 Georgia Institute of Technology 3593
 GUIDANCE AND FLIGHT CONTROL LAW DEVELOPMENT FOR HYPERSONIC VEHICLES.
Period Obligations
 04/05/1991-03/31/1995 FY95: TOTAL: \$154,212
Prin. Invest. NASA Tech. Officer CASE Category
 A J CALISE LARC/D D MOERDER 42-Astro Engr
 LARC/W T SUIT

NAGW 4447 Clark Atlanta University 3587
 CROSS SECTIONS FOR ELECTRON IMPACT EXCITATION OF IONS RELEVANT TO PLANETARY ATMOSPHERES
Period Obligations
 05/10/1995-03/31/1997 FY95: \$60,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 S TAYAL HQ/J BERGSTRALH 11-Astronomy

NAG 1-1319 Georgia Institute of Technology 3594
 COMPUTATIONAL MECHANICS OF COMPOSITE STRUCTURES INCREMENTAL FUNDING THROUGH DECEMBER 31, 1991
Period Obligations
 07/23/1991-07/31/1994 FY95: TOTAL: \$105,133
Prin. Invest. NASA Tech. Officer CASE Category
 S N ATLURI LARC/J T WANG 46-Mech Engr
 LARC/J M HOUSNER

NAG10-170 Clark Atlanta University 3588
 BIOCONVERSION OF WASTE TO NUTRITIONAL PROTEIN
Period Obligations
 06/09/1995-06/11/1998 FY95: \$103,439 TOTAL: \$103,439
Prin. Invest. NASA Tech. Officer CASE Category
 S RODRIGUEZ-EATON KSC/K POIMBOEUF 54-Env Biology
 KSC/J SAGER

NAG 1-1397 Georgia Institute of Technology 3595
 ROBUST STABILITY OF SECOND-ORDER SYSTEMS
Period Obligations
 02/27/1992-06/30/1995 FY95: TOTAL: \$96,298
Prin. Invest. NASA Tech. Officer CASE Category
 C H CHUANG LARC/J JUANG 42-Astro Engr
 LARC/L G HORTA

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NAG 1-1415 Georgia Institute of Technology 3596
 AIRBORNE MEASUREMENTS OF NO,NO2,NOY AS RELATED TO
 NASA'S TRACE-A FIELD PROGRAM
Period Obligations
 04/03/1992-06/30/1995 FY95: TOTAL: \$376,580
Prin. Invest. NASA Tech. Officer CASE Category
 J BRADSHAW LARC/E V BROWELL 31-Atmos Sci
 S SANDHOLT LARC/A F CARTER

NAG 1-1624 Georgia Institute of Technology 3603
 RESEARCH INTO GENETIC ALGORITHMS FOR OPTIMIZATION AND
 THE DESIGN OF THE GENETIC PROCESSOR
Period Obligations
 04/21/1994-04/20/1996 FY95: \$27,001 TOTAL: \$42,001
Prin. Invest. NASA Tech. Officer CASE Category
 V K MADISSETTI LARC/J H TUCKER 45-Elec Engr
 LARC/S K STOVER

NAG 1-1435 Georgia Institute of Technology 3597
 DEVELOPMENT OF AN HP-VERSION FINITE ELEMENT METHOD FOR
 COMPUTATIONAL OPTIMAL CONTROL, NLPN 92-241
Period Obligations
 04/22/1992-11/30/1994 FY95: TOTAL: \$105,303
Prin. Invest. NASA Tech. Officer CASE Category
 D H HODGES LARC/D D MOERDER 42-Astro Engr
 LARC/W T SUIT

NAG 1-1631 Georgia Institute of Technology 3604
 MODELING MACRO - AND MICRO-SCALE TURBULENT MIXING AND
 CHEMISTRY IN ENGINE EXHAUST PLUMES
Period Obligations
 06/30/1994-06/30/1996 FY95: \$141,400 TOTAL: \$188,832
Prin. Invest. NASA Tech. Officer CASE Category
 S MENON LARC/W L GROSE 31-Atmos Sci

NAG 1-1438 Georgia Institute of Technology 3598
 DIAGNOSTIC MODELLING STUDIES OF THE HX OY-NX OY-03
 PHOTOCHEMICAL SYSTEM AND ITS COUPLING TO SULFUR
Period Obligations
 05/18/1992-03/17/1996 FY95: \$109,641 TOTAL: \$515,126
Prin. Invest. NASA Tech. Officer CASE Category
 D D DAVIS LARC/J FISHMAN 31-Atmos Sci
 W L CHAMEIDES LARC/J M HOELL

NAG 1-1662 Georgia Institute of Technology 3605
 ECONOMIC RISK ANALYSIS OF LARGE TRANSPORT
 CONFIGURATIONS AN IMPLEMENTATION OF GEORGIA TECH'S
Period Obligations
 12/07/1994-12/06/1995 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 D N MAVRIS LARC/G L GILES 41-Aero Engr

NAG 1-1451 Georgia Institute of Technology 3599
 RESEARCH IN ROBUST CONTROL FOR HYPERSONIC VEHICLE NLPN
 92-440R
Period Obligations
 08/28/1992-08/27/1995 FY95: TOTAL: \$83,029
Prin. Invest. NASA Tech. Officer CASE Category
 A J CALISE LARC/J D MCMINN 41-Aero Engr
 LARC/I M GREGORY

NAG 1-1734 Georgia Institute of Technology 3606
 MEASUREMENTS TECHNOLOGY DEVELOPMENT TO VALIDATE DUCT
 LINER PROPAGATION MODELS
Period Obligations
 06/27/1995-06/30/1996 FY95: \$71,000 TOTAL: \$71,000
Prin. Invest. NASA Tech. Officer CASE Category
 K K AHUJA LARC/S E TANNER 41-Aero Engr

NAG 1-1517 Georgia Institute of Technology 3600
 CONTINUED DEVELOPMENT AND APPLICATION OF CIRCU- LATION
 CONTROL TECHNOLOGY FOR ADVANCED SUBSONIC
Period Obligations
 06/14/1993-12/31/1995 FY95: TOTAL: \$149,729
Prin. Invest. NASA Tech. Officer CASE Category
 R J ENGLAR LARC/E G WAGGONER 41-Aero Engr
 LARC/Z T APPLIN

NAG 1-1766 Georgia Institute of Technology 3607
 MEASUREMENTS OF OH, H2 SO4, MSA, DMSO, AND DMSO2 ON
 THE NASA P-3B AIRCRAFT
Period Obligations
 09/29/1995-10/31/1996 FY95: \$272,000 TOTAL: \$272,000
Prin. Invest. NASA Tech. Officer CASE Category
 D L EISELE LARC/J M HOELL JR. 31-Atmos Sci
 D L MAULDIN LARC/R J BENDURA

NAG 1-1564 Georgia Institute of Technology 3601
 NEW APPROACHES TO HSCT MULTIDISPLINARY DESIGN AND
 OPTIMIZATION
Period Obligations
 12/20/1993-12/31/1995 FY95: \$144,999 TOTAL: \$344,997
Prin. Invest. NASA Tech. Officer CASE Category
 D P SCHRAGE LARC/R P WESTON 41-Aero Engr
 R E FULTON LARC/J SOBIESKI
 J I CRAIG

NAG 1-1767 Georgia Institute of Technology 3608
 NEW NASA RESEARCH GRANT
Period Obligations
 09/28/1995-09/30/1996 FY95: \$248,696 TOTAL: \$248,696
Prin. Invest. NASA Tech. Officer CASE Category
 D D BRADSHAW LARC/J M HOELL JR. 31-Atmos Sci
 D T SANDHOLT LARC/R J BENDURA

NAG 1-1582 Georgia Institute of Technology 3602
 ELEVATED TEMPERATURE CRACK GROWTH BEHAVIOR IN AL ALLOY
 2519 AND ITS VARIANTS
Period Obligations
 01/28/1994-11/27/1995 FY95: \$62,000 TOTAL: \$112,000
Prin. Invest. NASA Tech. Officer CASE Category
 A SAXENA LARC/R S PIASCIK 47-Materials Engr
 LARC/J C NEWMAN JR.

NAG 1-1768 Georgia Institute of Technology 3609
 NEW NASA RESEARCH GRANT
Period Obligations
 09/29/1995-01/30/1996 FY95: \$147,399 TOTAL: \$147,399
Prin. Invest. NASA Tech. Officer CASE Category
 M O RODGERS LARC/J M HOELL JR. 31-Atmos Sci
 LARC/R J BENDURA

NAG 1-1769 Georgia Institute of Technology 3610
 TROPOSPHERIC DIAGNOSTIC MODELING STUDIES OF PEM-
 TROPICS FIELD DATA: INVESTIGATION OF THE HOX/NOX/
Period Obligations
 09/29/1995-03/31/1997 FY95: \$187,475 TOTAL: \$187,475
Prin. Invest. NASA Tech. Officer CASE Category
 D D DAVIS LARC/J M HOELL JR. 31-Atmos Sci
 D CHAMEIDES LARC/R J BENDURA

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NAG 2-700 Georgia Institute of Technology 3611
 SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE/MICROWAVE OBSERVING PROJECT: SKY SURVEY TEAM MEMBER
Period Obligations
 03/20/1991-08/31/1994 FY95: TOTAL: \$183,915
Prin. Invest. NASA Tech. Officer CASE Category
 P G STEFFES ARC/D H BROCKER 11-Astronomy

NAG 3-1066 Georgia Institute of Technology 3619
 NOVEL JET NOISE REDUCTION CONCEPTS
Period Obligations
 08/14/1989-09/30/1994 FY95: TOTAL: \$674,936
Prin. Invest. NASA Tech. Officer CASE Category
 K K AHUJA LERC/E KREJSA 41-Aero Engr
 LERC/J F GROENEWEG

NAG 2-806 Georgia Institute of Technology 3612
 DESIGN AND TECHNICAL SUPPORT OF DEVELOPMENT OF MOLDED FABRIC SPACE SUIT JOINT
Period Obligations
 10/07/1992-12/31/1994 FY95: TOTAL: \$79,287
Prin. Invest. NASA Tech. Officer CASE Category
 L H OLSON ARC/H C VYKUKAL 49-Engr, NEC

NAG 3-1454 Georgia Institute of Technology 3620
 CONTROL OF OSCILLATORY THERMOCAPILLARY CONVECTION IN MICROGRAVITY
Period Obligations
 02/17/1993-05/21/1996 FY95: \$120,100 TOTAL: \$403,100
Prin. Invest. NASA Tech. Officer CASE Category
 G P NEITZEL LERC/R L THOMPSON 46-Mech Engr

NAG 2-869 Georgia Institute of Technology 3613
 COMPUTATIONAL STRATEGIES FOR 3-D FLOW SIMULATIONS ON DISTRIBUTED SYSTEMS
Period Obligations
 08/12/1993-08/14/1995 FY95: TOTAL: \$76,967
Prin. Invest. NASA Tech. Officer CASE Category
 L N SANKAR ARC/T L HOST 41-Aero Engr

NAG 3-1455 Georgia Institute of Technology 3621
 THE BEHAVIOR OF UNSTEADY THERMOCAPILLARY FLOWS
Period Obligations
 02/08/1993-05/23/1996 FY95: \$70,000 TOTAL: \$209,999
Prin. Invest. NASA Tech. Officer CASE Category
 M K SMITH LERC/J P SKARDA 46-Mech Engr

NAG 2-890 Georgia Institute of Technology 3614
 THE DETECTION AND EXTRACTION OF INTERLEAVED CODE SEGMENTS
Period Obligations
 03/24/1994-09/30/1995 FY95: TOTAL: \$83,293
Prin. Invest. NASA Tech. Officer CASE Category
 S RUGABER ARC/P E FRIEDLAND 22-Computer Science

NAG 3-1559 Georgia Institute of Technology 3622
 DIELECTRIC SPECTROSCOPY AS A MATERIALS PROBE
Period Obligations
 02/02/1994-02/01/1996 FY95: \$75,000 TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A GERHARDT LERC/A VARY 47-Materials Engr

NAG 2-900 Georgia Institute of Technology 3615
 EVALUATION OF HIGH SPEED CIVIL TRANSPORT (HSCT) METRICS USING THE TAGUCHI ROBUST DESIGN APPROACH AND A
Period Obligations
 05/12/1994-12/31/1995 FY95: \$75,000 TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 D P SCHRAGE ARC/T L GALLOWAY 41-Aero Engr
 ARC/P A GELHAUSEN

NAG 3-1571 Georgia Institute of Technology 3623
 THREE-DIMENSIONAL AEROELASTIC ANALYSIS OF MISTUNED BLADED-DISK ASSEMBLIES
Period Obligations
 02/15/1994-02/14/1995 FY95: TOTAL: \$73,103
Prin. Invest. NASA Tech. Officer CASE Category
 O G MCGEE LERC/J M LUCERO 46-Mech Engr
 LERC/A P KURKOV

NAG 2-954 Georgia Institute of Technology 3616
 REACTIVE NITROGEN MEASUREMENT CAPABILITY ENHANCEMENT
Period Obligations
 12/23/1994-08/31/1995 FY95: \$82,800 TOTAL: \$82,800
Prin. Invest. NASA Tech. Officer CASE Category
 J D BRADSHAW ARC/E P CONDON 31-Atmos Sci
 ARC/A P MARGOZZI

NAG 3-1610 Georgia Institute of Technology 3624
 PREMIXED TURBULENT FLAME PROPAGATION IN MICROGRAVITY
Period Obligations
 05/25/1994-05/24/1998 FY95: \$108,004 TOTAL: \$216,008
Prin. Invest. NASA Tech. Officer CASE Category
 S MENON LERC/H D ROSS 41-Aero Engr

NAG 3-768 Georgia Institute of Technology 3617
 STUDIES OF UNSTEADY VISCOUS FLOWS USING A TWO-EQUATION MODEL OF TURBULENCE
Period Obligations
 12/18/1986-12/31/1994 FY95: TOTAL: \$241,047
Prin. Invest. NASA Tech. Officer CASE Category
 L N SANKAR LERC/M G POTAPCZUK 49-Engr, NEC
 J C WU

NAG 3-1651 Georgia Institute of Technology 3625
 EVOLUTION OF MICROSTRUCTURAL DISTANCE DISTRIBUTIONS IN NORMAL GRAVITY AND MICROGRAVITY
Period Obligations
 07/13/1994-07/12/1996 FY95: \$49,958 TOTAL: \$99,942
Prin. Invest. NASA Tech. Officer CASE Category
 A M GOKHALE LERC/M D BETHEA 47-Materials Engr

NAG 3-974 Georgia Institute of Technology 3618
 ACTIVELY CONTROLLED SHAFT SEALS FOR AEROSPACE APPLICATIONS
Period Obligations
 01/05/1989-12/31/1994 FY95: TOTAL: \$294,441
Prin. Invest. NASA Tech. Officer CASE Category
 R F SALANT LERC/M P PROCTOR 49-Engr, NEC

NAG 3-1665 Georgia Institute of Technology 3626
 THERMOCHEMISTRY OF SCANDIUM ADSORBATE GENERATION
Period Obligations
 09/12/1994-09/11/1995 FY95: TOTAL: \$16,800
Prin. Invest. NASA Tech. Officer CASE Category
 D N HILL LERC/E G WINTUCKY 47-Materials Engr

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NAG 3-1882 Georgia Institute of Technology 3627
DEVELOPMENT OF QUIET PRESSURE REDUCING DEVICES AND NOISE SOURCE LOCATION TECHNIQUES
Period *Obligations*
11/17/1994-10/16/1995 FY95: \$185,285 TOTAL: \$185,285
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K K ATIUJA LERC/E A KREJSA 41-Aero Engr

NAG 5-2789 Georgia Institute of Technology 3635
TOWARDS A THEORY OF TROPICAL/MIDLATITUDE MASS EXCHANGE FROM THE EARTH'S SURFACE THROUGH THE
Period *Obligations*
11/14/1994-11/30/1995 FY95: \$65,533 TOTAL: \$65,533
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D E HARTLEY GSFC/C H JACKMAN 31-Atmos Sci

NAG 3-1744 Georgia Institute of Technology 3628
TECHNOLOGY DEVELOPMENT FOR APPLICATION OF IMPREGNATED DISPENSER-TYPE INSERT IN HOLLOW CATHODES
Period *Obligations*
05/18/1995-05/17/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W L OHLINGER LERC/M J PATTERSON 47-Materials Engr

NAG 5-2919 Georgia Institute of Technology 3636
POTENTIAL VORTICITY-BASED DIAGNOSIS OF SEASONAL AND INTRASEASONAL VARIABILITY IN AN ASSIMILATED...
Period *Obligations*
03/22/1995-03/31/1996 FY95: \$56,654 TOTAL: \$56,654
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R X BLACK GSFC/S SCHUBERT 31-Atmos Sci

NAG 3-1754 Georgia Institute of Technology 3629
THREE-DIMENSIONAL AEROELASTIC ANALYSIS OF MISTUNE DBINDED-DISK ASSEMBLIES
Period *Obligations*
05/31/1995-05/30/1996 FY95: \$73,103 TOTAL: \$73,103
Prin. Invest. *NASA Tech. Officer* *CASE Category*
O G MCGEE LERC/J LUCERO 44-Civil Engr

NAG 8-243 Georgia Institute of Technology 3637
ELASTIC PLASTIC FRACTURE MECHANICS METHODOLOGY FOR SURFACE CRACKS
Period *Obligations*
08/17/1992-12/31/1995 FY95: TOTAL: \$119,682
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W O WINES MSFC/M GREGG 47-Materials Engr
MSFC/R STALLWORTH

NAG 5-1044 Georgia Institute of Technology 3630
HUMAN COMPUTER INTERACTION IN DISTRIBUTED SUPERVISORY CONTROL/TASKS
Period *Obligations*
04/15/1988-05/14/1994 FY95: TOTAL: \$481,173
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C M MITCHELL GSFC/W F TRUSZKOWSKI 22-Computer Science

NAG 8-921 Georgia Institute of Technology 3638
THEORY AND COMPUTATION OF OPTIMAL LOW-MEDIUM THRUST ORBIT TRANSFERS
Period *Obligations*
07/07/1992-07/06/1995 FY95: TOTAL: \$119,459
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C H CHUENG MSFC/J M HANSON 42-Astro Engr
MSFC/G A DUKEMAN

NAG 5-1490 Georgia Institute of Technology 3631
INVESTIGATION OF PASSIVE ATMOSPHERIC SOUNDING USING MILLIMETER AND SUBMILLIMETER-WAVELENGTH CHANNEL
Period *Obligations*
12/10/1990-01/31/1996 FY95: \$84,983 TOTAL: \$429,946
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A J GASIEWSKI GSFC/R F ADLER 31-Atmos Sci

NAG 8-1137 Georgia Institute of Technology 3639
POWER AND THERMAL MANAGEMENT SYSTEMS FOR THE LUNAR BASED EXPERIMENTS
Period *Obligations*
05/01/1995-10/31/1995 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J C HANDLEY MSFC/M NEIN 46-Mech Engr

NAG 5-2187 Georgia Institute of Technology 3632
NEXT GENERATION METHODS FOR IMAGE DATA COMPRESSION
Period *Obligations*
02/04/1993-02/14/1996 FY95: \$74,972 TOTAL: \$224,151
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J SMITH GSFC/P S YEH 45-Elec Engr

NAG 8-1138 Georgia Institute of Technology 3640
ADAPTIVE FULL APERTURE WAVEFRONT SENSOR STUDY
Period *Obligations*
03/31/1995-02/29/1996 FY95: \$99,965 TOTAL: \$99,965
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W G ROBINSON MSFC/K K MONTGOMERY 13-Physics

NAG 5-2226 Georgia Institute of Technology 3633
ADVANCED USER INTERFACES AND INTELLIGENT SYSTEMS FOR DESIGN, OPERATION, AND MAINTENANCE OF
Period *Obligations*
03/23/1993-03/31/1996 FY95: TOTAL: \$245,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C M MITCHELL GSFC/W J POTTER 22-Computer Science
GSFC/A T JOHNS

NAG 8-1155 Georgia Institute of Technology 3641
PROVIDING ACCESS TO GRAPHICAL USER INTERFACES: THE MERCATOR PROJECT
Period *Obligations*
06/13/1995-06/12/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E MYNATT MSFC/C E MOORE 22-Computer Science

NAG 5-2227 Georgia Institute of Technology 3634
INTELLIGENT COMMAND AND CONTROL SYSTEMS FOR SATELLITE GROUND OPERATIONS
Period *Obligations*
03/12/1993-03/31/1996 FY95: \$65,000 TOTAL: \$202,245
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C M MITCHELL GSFC/A W STOFFEL 22-Computer Science

NAG 8-1156 Georgia Institute of Technology 3642
A STUDY OF LESSONS LEARNED IN EXISTING SPACE INSTITUTES AND CENTERS
Period *Obligations*
04/26/1995-04/18/1996 FY95: \$59,000 TOTAL: \$59,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A BOHLANDER GSFC/A F WHITAKER 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NAG 8-1202 Georgia Institute of Technology 3643
 HYPERSONIC AIRBREATH PROPULSION TESTBED
Period Obligations
 09/21/1995-06/07/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 J R OLDS GSFC/W P PANNELL 41-Aero Engr

NAG 9-726 Georgia Institute of Technology 3644
 OPTIMIZATION FUZZY ADAPTIVE CONTROL AND INTELLIGENT
 AUTONOMOUS SPACE
Period Obligations
 05/11/1994-09/30/1996 FY95: \$75,000 TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 A O ESOGBUE JSC/J A VILLARREAL 29-Math/Computer,NEC

NAGW 533 Georgia Institute of Technology 3645
 LAB EVAL OF MICROWAVE ALYOPTION PROPERTIES UNDER
 SIMULATED CONDIT IONS FOR PLANETARY ATMOSPHERES
Period Obligations
 02/01/1984-10/31/1995 FY95: \$67,624 TOTAL: \$772,372
Prin. Invest. NASA Tech. Officer CASE Category
 P G STEFFES HQ/J T BERGSTRALH 31-Atmos Sci
 HQ/W L QUAIDE

NAGW 1001 Georgia Institute of Technology 3646
 LAB INVESTIGATION OF STRATOSPHERIC BROMINE CHEM.
Period Obligations
 01/01/1987-12/31/1995 FY95: \$155,000 TOTAL: \$1,175,493
Prin. Invest. NASA Tech. Officer CASE Category
 P H WINE HQ/M J KURYLO 31-Atmos Sci
 J M NICOVICH HQ/R T WATSON
 A J HYNES

NAGW 2753 Georgia Institute of Technology 3647
 ACOUSTIC CHARGE TRANSPORT IMAGER FOR HIGH DEFINITION
 TELEVISION APPLICATIONS: PROOF OF CONCEPT DEMO
Period Obligations
 09/27/1991-09/30/1996 FY95: \$3,213,689 TOTAL: \$6,945,288
Prin. Invest. NASA Tech. Officer CASE Category
 W D HUNT HQ/T BENTSEN 29-Math/Computer,NEC

NAGW 3117 Georgia Institute of Technology 3648
 ANCIENT SULFUR BIOGEOCHEMISTRY
Period Obligations
 06/29/1992-05/31/1995 FY95: \$80,882 TOTAL: \$237,807
Prin. Invest. NASA Tech. Officer CASE Category
 D E CANFIELD HQ/J D RUMMEL 54-Env Biology

NAGW 3181 Georgia Institute of Technology 3649
 NAGW-3181/GEORGIA TECH RESEARCH CORPORATION/ SPECKLE
 IMAGING OF YOUNG PLANETARY SYSTEMS
Period Obligations
 08/28/1992-06/30/1995 FY95: \$20,315 TOTAL: \$81,872
Prin. Invest. NASA Tech. Officer CASE Category
 J W BELETIC HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3767 Georgia Institute of Technology 3650
 NAGW-3767/GEORGIA INSTIT OF TECHNOLOGY/EXPERIMENTA L
 STUDY OF ATMOSPHERIC HOMOGENEOUS NUCLEATION
Period Obligations
 11/04/1993-05/31/1996 FY95: \$19,037 TOTAL: \$45,924
Prin. Invest. NASA Tech. Officer CASE Category
 F L EISELE HQ/J A KAYE 31-Atmos Sci
 HQ/A C JANETOS

NAGW 3770 Georgia Institute of Technology 3651
 THEORETICAL AND GLOBAL MODEL STUDIES OF THE ATMOSP
 HERIC SULFUR/AEROSOL SYSTEM
Period Obligations
 10/05/1993-08/31/1995 FY95: \$52,250 TOTAL: \$238,390
Prin. Invest. NASA Tech. Officer CASE Category
 P KASIBHATLA HQ/J A KAYE 31-Atmos Sci
 HQ/A C JANETOS

NAGW 3886 Georgia Institute of Technology 3652
 PARRELLILIZATION AND VISUAL ANALYSIS OF DYNAMICAL/
 CHEMICAL ATMOSPHERIC MODELS
Period Obligations
 03/09/1994-03/31/1996 FY95: \$112,000 TOTAL: \$232,398
Prin. Invest. NASA Tech. Officer CASE Category
 K SCHWAN HQ/G H MUCKLOW 22-Computer Science
 HQ/J H BREDECAMP

NAGW 4191 Georgia Institute of Technology 3653
 PASSIVE MEASUREMENT AND INTERPRETATION OF POLARIZE D
 MICROWAVE BRIGHTNESS TEMPERATURES
Period Obligations
 10/31/1994-07/31/1997 FY95: \$77,246 TOTAL: \$77,246
Prin. Invest. NASA Tech. Officer CASE Category
 A J GASIEWSKI HQ/J S THEON 45-Elec Engr
 HQ/N MAYNARD

NAGW 4217 Georgia Institute of Technology 3654
 SCIENCE OLYMPIAD NATIONAL TOURNAMENT
Period Obligations
 11/22/1994-09/30/1996 FY95: \$24,950 TOTAL: \$24,950
Prin. Invest. NASA Tech. Officer CASE Category
 M STOMBLER HQ/E ANDERSON 21-Mathematics

NAGW 4246 Georgia Institute of Technology 3655
 IMPROVING VERTICAL TRANSPORT IN CHEMICAL TRANSPORT
 MODELS
Period Obligations
 01/13/1995-12/31/1995 FY95: \$20,300 TOTAL: \$20,300
Prin. Invest. NASA Tech. Officer CASE Category
 D E HARTLEY HQ/J A KAYE 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 4332 Georgia Institute of Technology 3656
 ADVANCE DESIGN PROGRAM
Period Obligations
 03/04/1995-09/14/1996 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
 J BRAZELL HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NAGW 4337 Georgia Institute of Technology 3657
 ADVANCE DESIGN PROGRAM
Period Obligations
 03/04/1995-09/30/1996 FY95: \$26,340 TOTAL: \$26,340
Prin. Invest. NASA Tech. Officer CASE Category
 D P SCHRAGE HQ/A S MCGEE 49-Engr, NEC
 HQ/G SEIDEL

NAGW 4692 Georgia Institute of Technology 3658
 THE MEASUREMENT OF SULFUR OXIDATION PRODUCTS AND THE
 IR ROLE IN HOMOGENEOUS NUCLEATION
Period Obligations
 08/10/1995-06/30/1998 FY95: \$109,906 TOTAL: \$109,906
Prin. Invest. NASA Tech. Officer CASE Category
 F EISELE HQ/G ASRAR 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NAGW 4699 Georgia Institute of Technology 3659
DEVELOPMENT OF AIRBORNE EDDY-CORRELATION FLUX MEASUREMENT FOR REACTIVE OXIDES OF NITROGEN
Period Obligations
09/08/1995-07/31/1998 FY95: \$140,000 TOTAL: \$140,000
Prin. Invest. NASA Tech. Officer CASE Category
J BRADSHAW HQ/G ASRAR 31-Atmos Sci

NCA 2-747 Georgia Institute of Technology 3667
STUDIES OF HIGH LIFT AIRFOIL WITH IMPROVING STALL CHARACTERISTICS
Period Obligations
08/25/1992-12/31/1994 FY95: TOTAL: \$70,559
Prin. Invest. NASA Tech. Officer CASE Category
J C WU ARC/C TUNG 41-Aero Engr
C M WANG

NAS 1-14654 Georgia Institute of Technology 3660
INVESTIGATION OF THE EFFECTS OF LONG DURATION EXPOSURE ON ACTIVE OPTICAL SYSTEM COMPONENTS
Period Obligations
10/14/1976-09/30/1994 FY95: TOTAL: \$699,463
Prin. Invest. NASA Tech. Officer CASE Category
M D BLUE LARC/L G CLARK 45-Elec Engr
J J GALLAGHER LARC/J D BATTISTA
R G SHACKELFORD

NCA 2-771 Georgia Institute of Technology 3668
A MULTIDISCIPLINARY DESIGN OPTIMIZATION METHOD APPLIED TO STOPPABLE CONFIGURATIONS
Period Obligations
02/01/1993-09/30/1994 FY95: TOTAL: \$39,990
Prin. Invest. NASA Tech. Officer CASE Category
D P SCHRAGE ARC/T GALLOWAY 41-Aero Engr
D MAVRIS

NAS 1-18938 Georgia Institute of Technology 3661
SAGE III EXPERIMENT SCIENTIFIC SUPPORT/CUNNOLD
Period Obligations
02/20/1990-01/31/2005 FY95: \$110,000 TOTAL: \$214,700
Prin. Invest. NASA Tech. Officer CASE Category
D M CUNNOLD LARC/G L MADDREA 31-Atmos Sci

NCC 1-148 Georgia Institute of Technology 3669
THE NASA GLOBAL TROPOSPHERIC EXPERIMENT; PACIFIC EXPLORATORY MISSION WEST (PEM WEST) MISSION SCIENT
Period Obligations
01/07/1991-04/30/1994 FY95: TOTAL: \$152,614
Prin. Invest. NASA Tech. Officer CASE Category
D D DAVIS LARC/J M HOELL 31-Atmos Sci
LARC/R J BENDURA

NAS 1-19061 Georgia Institute of Technology 3662
RESEARCH IN ACOUSTICS AND NOISE CONTROL
Period Obligations
02/02/1990-02/01/1996 FY95: \$193,988 TOTAL: \$3,524,856
Prin. Invest. NASA Tech. Officer CASE Category
K AHUJA LARC/L R CLARK 41-Aero Engr

NCC 2-824 Georgia Institute of Technology 3670
HUMAN-CENTERED DESIGN OF HUMAN-COMPUTER-HUMAN DIALOGS IN AEROSPACE SYSTEMS
Period Obligations
09/07/1993-07/31/1996 FY95: \$132,264 TOTAL: \$312,341
Prin. Invest. NASA Tech. Officer CASE Category
C M MITCHELL ARC/E A PALMER 49-Engr, NEC
ARC/K CORKER

NAS 1-19954 Georgia Institute of Technology 3663
SAGE II SCIENTIFIC INVESTIGATION
Period Obligations
05/05/1994-05/04/1996 FY95: \$80,000 TOTAL: \$245,000
Prin. Invest. NASA Tech. Officer CASE Category
D M CUNNOLD LARC/G L MADDREA 31-Atmos Sci
LARC/M D MCCORMICK

NCC 2-922 Georgia Institute of Technology 3671
RESEARCH IN NONLINEAR FLIGHT CONTROL FOR TILT ROTOR AIRCRAFT OPERATING IN THE TERMINAL AREA
Period Obligations
09/13/1995-01/31/1996 FY95: \$21,348 TOTAL: \$21,348
Prin. Invest. NASA Tech. Officer CASE Category
P J CALISE ARC/R N CHEN 41-Aero Engr

NAS 3-27361 Georgia Institute of Technology 3664
RF PROPAGATION EFFECTS
Period Obligations
08/10/1994-12/31/1995 FY95: TOTAL: \$129,834
Prin. Invest. NASA Tech. Officer CASE Category
D HOWARD LERC/R BAUER 99-Multi-Discip
P STEFFES

NCC 2-933 Georgia Institute of Technology 3672
CULTURAL VARIABILITY IN CREW COMMUNICATION
Period Obligations
09/12/1995-09/30/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
K J KNOESPEL ARC/J M ORASANU 62-Social Aspects
U M FISCHER-LOSS

NAS 3-27561 Georgia Institute of Technology 3665
ASSURANCE OF INTEGRITY IN HOLLOW CATHODE INSERT FLIGHT HARDWARE PROCUREMENT SPECIFICATIONS
Period Obligations
07/01/1995-06/30/1996 FY95: \$25,271 TOTAL: \$25,271
Prin. Invest. NASA Tech. Officer CASE Category
D L OHLINGER LERC/M J PATTERSON 47-Materials Engr

NCC 2-5141 Georgia Institute of Technology 3673
THE COMPUTATION OF THE AERODYNAMIC BEHAVIOR OF NON-CONVENTIONAL ROTOR CONFIGURATIONS
Period Obligations
06/22/1995-08/31/1995 FY95: \$7,150 TOTAL: \$7,150
Prin. Invest. NASA Tech. Officer CASE Category
N L SANKAR ARC/F CARADONNA 41-Aero Engr

NAS 5-27264 Georgia Institute of Technology 3666
PARTICIPATION IN UARS SCIENCE WORKING GROUP MEETINGS ON THEORETICAL INVESTIGATIONS
Period Obligations
07/01/1982-09/30/1995 FY95: \$144,873 TOTAL: \$1,626,834
Prin. Invest. NASA Tech. Officer CASE Category
D CUNNOLD GSFC/C REBER 31-Atmos Sci

NCC 3-302 Georgia Institute of Technology 3674
FREQUENCY RESPONSE OF A THERMOCOUPLE: EFFECTS OF FLOW REVERSAL
Period Obligations
03/24/1993-10/31/1994 FY95: TOTAL: \$29,989
Prin. Invest. NASA Tech. Officer CASE Category
L J FORNEY LERC/G C FRALICK 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NGT 00-010-007 Georgia Institute of Technology 3675
MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP PROGRAM
Period Obligations
10/22/1993-06/30/1995 FY95: \$115,000 TOTAL: \$164,922
Prin. Invest. NASA Tech. Officer CASE Category
D P SCHRAGE HQ/G S SEIDEL 41-Aero Engr
J I CRAIG HQ/J R FACEY

NGT 00-030-345 Georgia Institute of Technology 3676
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
09/13/1995-08/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
P H WINE HQ/R A SCHIFFER 31-Atmos Sci
HQ/G ASRAR

NGT 00-040-013 Georgia Institute of Technology 3677
NATION SPACE GRANT AND FELLOWSHIP PROGRAM
Period Obligations
09/29/1989-01/31/1996 FY95: \$355,000 TOTAL: \$2,028,000
Prin. Invest. NASA Tech. Officer CASE Category
D A PETERS HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-050-705 Georgia Institute of Technology 3678
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/13/1991-10/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
J D MUZZY HQ/F C OWENS 47-Materials Engr

NGT 00-050-765 Georgia Institute of Technology 3679
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/10/1991-06/30/1994 FY95: TOTAL: \$60,448
Prin. Invest. NASA Tech. Officer CASE Category
W L CHAMEIDES HQ/F C OWENS 11-Astronomy

NGT 00-050-903 Georgia Institute of Technology 3680
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/26/1992-12/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
A J GASIEWSKI HQ/J ALEXANDER 45-Elec Engr

NGT 00-050-981 Georgia Institute of Technology 3681
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/20/1992-09/20/1994 FY95: TOTAL: \$18,000
Prin. Invest. NASA Tech. Officer CASE Category
M P KAMAT LERC/F MONTEGANI 42-Astro Engr

NGT 00-051-042 Georgia Institute of Technology 3682
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/06/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
W T RHODES MSFC/F SIX 45-Elec Engr

NGT 00-051-088 Georgia Institute of Technology 3683
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/14/1993-06/30/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
G P NEITZEL HQ/D A HOLLAND 46-Mech Engr

NGT 00-051-101 Georgia Institute of Technology 3684
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/25/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D SCHRAGE HQ/J T LYNCH 41-Aero Engr

NGT 00-051-102 Georgia Institute of Technology 3685
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/25/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
KEMPER HQ/J T LYNCH 46-Mech Engr

NGT 00-051-112 Georgia Institute of Technology 3686
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/22/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
A SAXENA LARC/E PRIOR 47-Materials Engr

NGT 00-051-115 Georgia Institute of Technology 3687
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/23/1993-09/14/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
K A CUNEFARE HQ/F T LYNCH 46-Mech Engr

NGT 00-051-154 Georgia Institute of Technology 3688
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/04/1993-09/14/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
K SCHWAN HQ/D HOLLAND 22-Computer Science

NGT 00-051-178 Georgia Institute of Technology 3689
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/18/1993-09/14/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D L MCDOWELL LERC/F MONTEGANI 46-Mech Engr

NGT 00-051-192 Georgia Institute of Technology 3690
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/29/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D N HILL LERC/F MONTEGANI 47-Materials Engr

NGT 00-051-250 Georgia Institute of Technology 3691
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
J I CRAIG HQ/P SMITH 22-Computer Science

NGT 00-051-266 Georgia Institute of Technology 3692
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/26/1994-08/31/1995 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
G P NEITZEL HQ/G LESANE 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NGT 00-051-346 Georgia Institute of Technology 3693
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/22/1994-06/30/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
M K SMITH HQ/G A LESANE 46-Mech Engr

NGT 00-070-254 Georgia Institute of Technology 3694
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
05/11/1992-06/30/1996 FY95: \$11,000 TOTAL: \$77,000
Prin. Invest. NASA Tech. Officer CASE Category
W J WEPFER HQ/D K RUSSELL 46-Mech Engr

NGT 00-070-315 Georgia Institute of Technology 3695
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
06/29/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
W M HADDAD HQ/D K RUSSELL 41-Aero Engr

NGT 00-070-356 Georgia Institute of Technology 3696
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
08/31/1993-07/31/1996 FY95: \$6,950 TOTAL: \$28,950
Prin. Invest. NASA Tech. Officer CASE Category
R GERHARDT HQ/D K RUSSELL 45-Elec Engr

NGT 00-070-363 Georgia Institute of Technology 3697
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
09/08/1993-08/31/1996 FY95: \$43,960 TOTAL: \$65,894
Prin. Invest. NASA Tech. Officer CASE Category
P EDMONDS HQ/D K RUSSELL 51-Biological Sci

NGT 00-070-383 Georgia Institute of Technology 3698
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
09/29/1994-06/30/1997 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
M LIU HQ/D K RUSSELL 99-Multi-Discip
A S ABHIRAMAN

NGT 00-070-408 Georgia Institute of Technology 3699
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
04/03/1995-07/31/1997 FY95: \$30,596 TOTAL: \$30,596
Prin. Invest. NASA Tech. Officer CASE Category
J LASKER HQ/D K RUSSELL 46-Mech Engr

NGT 00-090-080 Georgia Institute of Technology 3700
GSRP/UMF
Period Obligations
09/16/1992-08/14/1996 FY95: \$12,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
L R HOWARD HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-081 Georgia Institute of Technology 3701
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
09/17/1992-08/14/1996 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
L R HOWARD HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-082 Georgia Institute of Technology 3702
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/12/1992-08/14/1996 FY95: \$12,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
L R HOWARD HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-167 Georgia Institute of Technology 3703
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/29/1993-08/14/1996 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
L HOWARD HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-199 Georgia Institute of Technology 3704
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
L HOWARD HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-200 Georgia Institute of Technology 3705
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
08/25/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
L HOWARD HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-201 Georgia Institute of Technology 3706
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/25/1993-08/14/1996 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
L HOWARD HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-202 Georgia Institute of Technology 3707
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
L HOWARD HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-277 Georgia Institute of Technology 3708
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
01/09/1995-08/14/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
L HOWARD HQ/D K RUSSELL 22-Computer Science

NGT 1-52111 Georgia Institute of Technology 3709
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
Period Obligations
06/15/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
M R KIRBY LARC/G L GILES 41-Aero Engr
D N MARVRIS (ADVISOR)

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NGT10-52602 Georgia Institute of Technology 3710
GRADUATE STUDENT RESEARCH PROGRAM
Period Obligations
06/20/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
H LIPKIN KSC/R CAIMI 46-Mech Engr

NAG 5-2979 Georgia State University 3718
IUE ATLAS OF RECONSTRUCTED SPECTRA OF HOT BINARY STARS
FORMATION AND GALAXY EVOL.
Period Obligations
07/10/1995-07/14/1996 FY95: \$45,069 TOTAL: \$45,069
Prin. Invest. NASA Tech. Officer CASE Category
D R GIES GSFC/D WEST 11-Astronomy

NGT10-52603 Georgia Institute of Technology 3711
A GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/06/1995-06/30/1996 FY95: \$20,300 TOTAL: \$20,300
Prin. Invest. NASA Tech. Officer CASE Category
S M MURPHY KSC/J SAGER 55-Agriculture Sci

NAGW 4280 Georgia State University 3719
ABSORPTION AND EMISSION OF EXCITED AND GROUND STATE
ATOMS AND IONS IN THE ULTRAVIOLET AND VISIBLE
Period Obligations
02/13/1995-12/31/1997 FY95: \$31,000 TOTAL: \$31,000
Prin. Invest. NASA Tech. Officer CASE Category
S T MANSON HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAG 5-496 Georgia Southern College 3712
LABORATORY STUDIES OF SMALL CARBON GRANDULES
Period Obligations
02/01/1985-03/31/1996 FY95: \$1,050 TOTAL: \$166,870
Prin. Invest. NASA Tech. Officer CASE Category
R H NELSON GSFC/B DONN 12-Chemistry
GSFC/J A NUTH

NAGW 4397 Georgia State University 3720
MULTI-FREQUENCY MICROVARIABILITY STUDIES OF THE SE DS
OF AGNS
Period Obligations
05/12/1995-02/14/1996 FY95: \$96,419 TOTAL: \$96,419
Prin. Invest. NASA Tech. Officer CASE Category
H R MILLER HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAG 8-271 Georgia Southwestern College 3713
JOVE
Period Obligations
12/30/1992-05/31/1995 FY95: \$17,786 TOTAL: \$72,786
Prin. Invest. NASA Tech. Officer CASE Category
J P MANKER MSFC/F SIX 99-Multi-Discip
E D ELDER

NAG 8-1107 Kennesaw State College 3721
JOVE
Period Obligations
10/24/1994-05/31/1996 FY95: \$24,500 TOTAL: \$24,500
Prin. Invest. NASA Tech. Officer CASE Category
T LAROSA MSFC/F SIX 11-Astronomy

NAG 2-438 Georgia State University 3714
SELECTION OF BEHAVIORAL TASKS AND DEVELOPMENT OF SWARE
FOR EVALUATION OF RHESUS MONKEY BEHAVIOR DUR I
Period Obligations
03/01/1987-02/28/1996 FY95: \$110,009 TOTAL: \$1,402,654
Prin. Invest. NASA Tech. Officer CASE Category
D M RUMBAUGH ARC/P X CALLAHAN 51-Biological Sci
E S SAVAGE ARC/C M WINGET
W K RICHARDSON

NAG 9-645 Mercer University Central Office 3722
INVESTIGATION USE OF CURRENT CONVEYOR AMPLIFIERS I N
DESIGN/BIOMEDICAL SIGNAL CONDITIONERS
Period Obligations
09/22/1992-11/01/1994 FY95: TOTAL: \$22,644
Prin. Invest. NASA Tech. Officer CASE Category
E M O'BRIEN JSC/D STILWELL 45-Elec Engr

NAG 5-1994 Georgia State University 3715
TOMOGRAPHY OF EARLY-TYPE CLOSE BINARY STARS
Period Obligations
06/12/1992-06/14/1994 FY95: TOTAL: \$92,953
Prin. Invest. NASA Tech. Officer CASE Category
W BAGNUOLO GSFC/D WEST 11-Astronomy

NGT 00-090-025 Morehouse College 3723
PROJECT SPACE STRATEGIC PREPAREDNESS ADVANCING
CAREER
Period Obligations
03/08/1989-06/30/1996 FY95: \$2,317,638 TOTAL: \$8,224,345
Prin. Invest. NASA Tech. Officer CASE Category
W JACKSON HQ/Y FREEMAN 49-Engr, NEC
M W GREENE/B
PETERS

NAG 5-2148 Georgia State University 3716
COLLIDING WINDS AND TOMOGRAPHY OF O-TYPE BINARIES
Period Obligations
12/14/1992-09/30/1995 FY95: TOTAL: \$18,000
Prin. Invest. NASA Tech. Officer CASE Category
GIES GSFC/D WEST 11-Astronomy

NGT 00-090-278 Morehouse College 3724
UGSRP
Period Obligations
01/30/1995-08/14/1996 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
D MARTIN HQ/D K RUSSELL 45-Elec Engr

NAG 5-2488 Georgia State University 3717
TOMOGRAPHY AND COLLIDING WINDS OF O-TYPE BINARIES
Period Obligations
02/02/1994-02/14/1995 FY95: TOTAL: \$1,500
Prin. Invest. NASA Tech. Officer CASE Category
W G BAGNUOLO GSFC/D WEST 11-Astronomy

NAG 9-547 Morehouse School Med 3725
PROSPECTIVE RISK ASSESSMENT MODEL FOR USE IN EXTEN DED
SPACE FLIGHT
Period Obligations
10/15/1991-01/01/1995 FY95: TOTAL: \$322,183
Prin. Invest. NASA Tech. Officer CASE Category
W SULLIVAN JSC/R BILLICA 56-Medical Sciences

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NAG 9-644 Morehouse School Med 3726
CELLULAR RESPONSE TO HYPOGRAVITY AND HYPERGRAVITY ST
RESS
Period Obligations
09/22/1992-10/01/1995 FY95: TOTAL: \$446,000
Prin. Invest. NASA Tech. Officer CASE Category
G L SANFORD JSC/C SAMS 56-Medical Sciences

NAG 9-782 Morehouse School Med 3727
CAREER OPPORTUNITIES IN BIOMEDICAL AND PUBLIC HEALTH
Period Obligations
04/04/1995-05/01/1995 FY95: \$50,400 TOTAL: \$50,400
Prin. Invest. NASA Tech. Officer CASE Category
W W SULLIVAN JSC/J D ATKINSON 59-Life Sci, NEC

NAG 9-852 Morehouse School Med 3728
ASSESSING THE PUTATIVE MACHANISMS OF GRAVITY INDUD ED
CELLULAR CHANGES
Period Obligations
09/28/1995-09/30/1996 FY95: \$74,987 TOTAL: \$74,987
Prin. Invest. NASA Tech. Officer CASE Category
G L SANFORD JSC/J D ATKINSON 51-Biological Sci

NCCW 83 Morehouse School Med 3729
DEVELOPMENT OF A MINORITY SPACE MEDICINE AND LIFE SCIENCE
RESEARCH CENTER
Period Obligations
08/11/1995-06/30/2000 FY95: \$1,412,073 TOTAL: \$1,412,073
Prin. Invest. NASA Tech. Officer CASE Category
G L SANFORD HQ/B L WHITE 56-Medical Sciences

NCC 3-362 Savannah State College 3730
ACTS FOR DISTANCE EDUCATION IN DEVELOPING COUNTRIE S
Period Obligations
09/29/1994-09/28/1996 FY95: \$305,000 TOTAL: \$305,000
Prin. Invest. NASA Tech. Officer CASE Category
A KALU LERC/M S PLECHTY 49-Engr, NEC
G G VENTRE LERC/R J SCHERTLER

NCC 8-71 Spelman College 3731
POTENTIAL USE OF HALOGENATED TETRAPHENYLPORPHYRINS IN
NONLINEAR OPTICAL MATRIALS
Period Obligations
04/06/1995-04/05/1996 FY95: \$99,376 TOTAL: \$99,376
Prin. Invest. NASA Tech. Officer CASE Category
B H CARDELINO MSFC/B G PENN 12-Chemistry
P C CHEN MSFC/W J LOVE

NCCW 78 Spelman College 3732
MODEL INSTITUTIONS FOR EXCELLENCE
Period Obligations
06/12/1995-06/30/1996 FY95: \$1,514,038 TOTAL: \$1,514,038
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-003 Spelman College 3733
GRADUATE STUDENT RESEARCHERS
Period Obligations
12/01/1986-12/31/1995 FY95: \$1,576,235 TOTAL: \$8,428,005
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/B WHITE 45-Elec Engr

NGT 00-090-049 Spelman College 3734
UNDERGRADUATE STUDENT RESEARCHERS PRG
Period Obligations
08/22/1991-08/31/1996 FY95: \$186,034 TOTAL: \$650,741
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/B WHITE 49-Engr, NEC

NGT 00-090-072 Spelman College 3735
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
09/22/1992-08/14/1995 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-090 Spelman College 3736
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/24/1992-08/14/1996 FY95: \$24,002 TOTAL: \$48,002
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-092 Spelman College 3737
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/24/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-093 Spelman College 3738
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/17/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-094 Spelman College 3739
GSRP/UMF
Period Obligations
09/24/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-096 Spelman College 3740
GSRP/UMF
Period Obligations
09/24/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-185 Spelman College 3741
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/07/1991-08/31/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-186 Spelman College 3742
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
E FALCONER HQ/D K RUSSELL 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
GEORGIA (Continued)**

NGT 00-090-187 Spelman College 3743
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 E FALCONER HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-258 Spelman College 3744
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 12/20/1994-08/14/1996 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 E FALCONER HQ/D K RUSSELL 21-Mathematics

NAG 5-1610 University of Georgia 3745
 HIGH-RESOLUTION X-RAY OBSERVATIONS OF THE TRAPEZIU M CLUSTER
Period Obligations
 10/15/1991-04/14/1996 FY95: \$29,735 TOTAL: \$115,752
Prin. Invest. NASA Tech. Officer CASE Category
 J P CAILLAULT GSFC/R PETRE 11-Astronomy

NAG 5-2095 University of Georgia 3746
 NEAR-CONTACT BINARY STARS
Period Obligations
 09/15/1992-03/14/1997 FY95: \$4,517 TOTAL: \$22,517
Prin. Invest. NASA Tech. Officer CASE Category
 J S SHAW GSFC/R PETRE 11-Astronomy

NAG 5-2409 University of Georgia 3747
 THE N(H2) - INFRARED CALIBRATION IN MOLECULAR CLOUDS
Period Obligations
 11/09/1993-11/14/1995 FY95: TOTAL: \$28,500
Prin. Invest. NASA Tech. Officer CASE Category
 L MAGNANI GSFC/D WEST 11-Astronomy

NAG 5-2665 University of Georgia 3748
 AN X-RAY SEARCH FOR PMS STARS IN HIGH LATITUDE MOLECULAR CLOUDS
Period Obligations
 07/29/1994-07/31/1995 FY95: TOTAL: \$44,999
Prin. Invest. NASA Tech. Officer CASE Category
 L MAGNANI GSFC/D WEST 11-Astronomy

NAG 8-148 University of Georgia 3749
 JOINT VENTURE
Period Obligations
 02/02/1990-09/30/1995 FY95: TOTAL: \$124,750
Prin. Invest. NASA Tech. Officer CASE Category
 J S SHAW MSFC/C R CHAPPELL 11-Astronomy
 MSFC/N F SIX

NAGW 4573 University of Georgia 3750
 ESTIMATION OF ABLATION RATES ON THE GREENLAND ICE SHEET FROM MICROWAVE RADIOMETRIC OBSERVATIONS
Period Obligations
 06/09/1995-05/31/1997 FY95: \$33,469 TOTAL: \$33,469
Prin. Invest. NASA Tech. Officer CASE Category
 T MOTE HQ/R H THOMAS 39-Env Sci, NEC
 HQ/M BALTUCK

NASW 4670 University of Georgia 3751
 NASW-4670/UNIV GA RSCH FOUNDATION/OPERATION OF A COMPUTER SOFTWARE MANAGEMENT AND INFORMATION CENTER
Period Obligations
 12/01/1991-11/30/1995 FY95: \$389,250 TOTAL: \$2,231,791
Prin. Invest. NASA Tech. Officer CASE Category
 J GIBSON HQ/B F HANNAN 29-Math/Computer, NEC

NGT 00-051-199 University of Georgia 3752
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/03/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G A DUDLEY KSC/S GOLDSTEIN 56-Medical Sciences

NGT 00-070-345 University of Georgia 3753
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period Obligations
 06/30/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R HODSON HQ/D K RUSSELL 39-Env Sci, NEC

NAGW 4364 Waycross College 3754
 TESTING AN ALGAE-BASED AIR-REGENERATION SYSTEM
Period Obligations
 03/18/1995-03/31/1997 FY95: \$25,288 TOTAL: \$25,288
Prin. Invest. NASA Tech. Officer CASE Category
 J A NIENOW HQ/M AVERNER 59-Life Sci, NEC
 HQ/V THORNE

HAWAII

NAG 1-1487 University of Hawaii - Manoa 3755
 IMPROVED STRESS RECOVERY AND ERROR ESTIMATION IN FINITE ELEMENT ANALYSIS
Period Obligations
 03/16/1993-03/15/1996 FY95: \$40,301 TOTAL: \$200,657
Prin. Invest. NASA Tech. Officer CASE Category
 H R RIGGS LARC/A TESSLER 46-Mech Engr

NAG 1-1763 University of Hawaii - Manoa 3756
 AEROSOL SULFUR AND NITRIC ACID VAPOR CONCENTRATION IN THE REMOTE PACIFIC TROPOSPHERE
Period Obligations
 09/29/1995-12/31/1996 FY95: \$89,952 TOTAL: \$89,952
Prin. Invest. NASA Tech. Officer CASE Category
 D J WYLIE LARC/J M HOELL JR. 31-Atmos Sci
 B J HUEBERT LARC/R J BENDURA

NAG 2-758 University of Hawaii - Manoa 3757
 NITRIC-OXIDE FLUXES FORM TROPICAL AGRICULTURE
Period Obligations
 02/10/1992-11/30/1993 FY95: TOTAL: \$68,900
Prin. Invest. NASA Tech. Officer CASE Category
 E A GRASER ARC/J MAZZURCO 39-Env Sci, NEC

NASA'S UNIVERSITY PROGRAM

HAWAII (Continued)

NAG 5-931 University of Hawaii - Manoa 3758
 LOW COMPLEXITY, HIGH-PERFORMANCE, BANDWIDTH EFFICIENT CODING AND CODED MODULATION TECHNIQUES. . . .
Period Obligations
 07/01/1987-02/29/1996 FY95: \$35,000 TOTAL: \$533,271
Prin. Invest. NASA Tech. Officer CASE Category
 S LIN GSFC/J C MORAKIS 49-Engr, NEC
 GSFC/W H MILLER

NAG 5-1574 University of Hawaii - Manoa 3759
 OPTICAL X-RAY GAMMA RAY STUDIES OF SOLAR FLARES
Period Obligations
 05/01/1991-11/14/1993 FY95: TOTAL: \$81,026
Prin. Invest. NASA Tech. Officer CASE Category
 R C CANFIELD GSFC/J P NORRIS 11-Astronomy
 GSFC/D A KNIFFEN

NAG 5-1741 University of Hawaii - Manoa 3760
 A SEARCH FOR LUMINOUS INFRARED GALAXIES
Period Obligations
 08/15/1991-08/14/1994 FY95: TOTAL: \$163,100
Prin. Invest. NASA Tech. Officer CASE Category
 D B SANDERS GSFC/D WEST 11-Astronomy

NAG 5-1752 University of Hawaii - Manoa 3761
 THE JETS IN NGC 1097
Period Obligations
 08/16/1991-02/29/1996 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 R B TULLY GSFC/R PETRE 11-Astronomy

NAG 5-1789 University of Hawaii - Manoa 3762
 FURTHER STUDIES OF CLUSTERS OF GALAXIES USING ROSA T ALL-SKY SURVEY DATA
Period Obligations
 10/28/1991-10/31/1993 FY95: TOTAL: \$74,400
Prin. Invest. NASA Tech. Officer CASE Category
 J P HENRY GSFC/R PETRE 11-Astronomy

NAG 5-1839 University of Hawaii - Manoa 3763
 THE ATMOSPHERIC IMPACT OF ERUPTIONS: INVESTIGATIONS OF SOURCE FUNCTIONS, PLUME DISSIPATION
Period Obligations
 12/02/1991-12/31/1994 FY95: TOTAL: \$218,000
Prin. Invest. NASA Tech. Officer CASE Category
 S SELF GSFC/L S WALTER 31-Atmos Sci
 M R RAMPINO

NAG 5-1880 University of Hawaii - Manoa 3764
 PSPC OBS. OF 12 EMSS UNIDENTIFIED SOURCES: VERY DISTANT CLUSTERS OF GALAXIES OR UNUSUAL X-RAY EMIT
Period Obligations
 02/10/1992-02/14/1997 FY95: \$12,561 TOTAL: \$69,561
Prin. Invest. NASA Tech. Officer CASE Category
 J P HENRY GSFC/R PETRE 11-Astronomy

NAG 5-1928 University of Hawaii - Manoa 3765
 ROSAT OBSERVATIONS OF GALAXY POPULATIONS IN THE HAWAII DEEP NEAR-INFRARED SURVEY
Period Obligations
 03/03/1992-03/14/1996 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 L L COWIE GSFC/R PETRE 11-Astronomy

NAG 5-1996 University of Hawaii - Manoa 3766
 X-RAY EVOLUTION OF CLUSTERS OF GALAXIES
Period Obligations
 06/12/1992-06/14/1994 FY95: TOTAL: \$32,200
Prin. Invest. NASA Tech. Officer CASE Category
 J P HENRY GSFC/D WEST 11-Astronomy

NAG 5-2022 University of Hawaii - Manoa 3767
 THE ONSET OF CORONAL ACTIVITY
Period Obligations
 07/15/1992-01/14/1996 FY95: TOTAL: \$89,791
Prin. Invest. NASA Tech. Officer CASE Category
 T SIMON GSFC/R PETRE 11-Astronomy

NAG 5-2132 University of Hawaii - Manoa 3768
 MINKOWSKI'S OBJECT
Period Obligations
 11/09/1992-05/14/1995 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 K C CHAMBERS GSFC/R PETRE 11-Astronomy

NAG 5-2150 University of Hawaii - Manoa 3769
 1) CONVECTION, GRANULATION, AND THERMAL BIFURCATION IN THE A STARS 2) ACTIVITY CYCLE OF THE HERBIG.
Period Obligations
 12/14/1992-01/31/1996 FY95: TOTAL: \$63,500
Prin. Invest. NASA Tech. Officer CASE Category
 T SIMON GSFC/D WEST 11-Astronomy

NAG 5-2275 University of Hawaii - Manoa 3770
 EUVE OBSERVATIONS OF THE DME FLARE STAR AD LEO
Period Obligations
 05/26/1993-11/30/1995 FY95: TOTAL: \$46,000
Prin. Invest. NASA Tech. Officer CASE Category
 T SIMON GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2486 University of Hawaii - Manoa 3771
 PARALLEL IMAGE COMPRESSION BY NEURAL NETWORKS
Period Obligations
 02/04/1994-02/14/1996 FY95: \$30,000 TOTAL: \$59,974
Prin. Invest. NASA Tech. Officer CASE Category
 D Y YUN GSFC/J R FISCHER 22-Computer Science

NAG 5-2523 University of Hawaii - Manoa 3772
 X-RAY TEMPERATURE FOR A COMPLETE SAMPLE OF DISTANT CLUSTERS
Period Obligations
 02/24/1994-03/14/1997 FY95: \$27,282 TOTAL: \$67,282
Prin. Invest. NASA Tech. Officer CASE Category
 J P HENRY GSFC/N WHITE 11-Astronomy

NAG 5-2594 University of Hawaii - Manoa 3773
 HRI OBSERVATIONS OF MS0440.5+0204: A LUMINOUS X-RAY CLUSTER WITH A COMPLEX ARC SYSTEM
Period Obligations
 05/10/1994-05/14/1996 FY95: TOTAL: \$30,908
Prin. Invest. NASA Tech. Officer CASE Category
 I GIOIA GSFC/R PETRE 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
HAWAII (Continued)**

NAG 5-2613 University of Hawaii - Manoa 3774
HIGH-SPEED SOFT-DECISION DECODING OF TWO REED-MULL ER CODES
Period *Obligations*
06/14/1994-12/14/1995 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S LIN GSFC/W H MILLER 49-Engr, NEC
G UEHARA GSFC/J C MORAKIS

NAGW 437 University of Hawaii - Manoa 3782
ANAL OF MARTIAN SURF MATERIALS USING RADAR THEMALA AND COLOR DATA AND GEOL EVOL OF THE HEAVILY CRATERED
Period *Obligations*
03/01/1983-10/31/1997 FY95: \$140,000 TOTAL: \$1,125,775
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P M MARK HQ/J R UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

NAG 5-2631 University of Hawaii - Manoa 3775
HELIUM AND NEON IN COMETS
Period *Obligations*
06/28/1994-06/30/1995 FY95: TOTAL: \$47,041
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D C JEWITT GSFC/R OLIVERSEN 11-Astronomy

NAGW 712 University of Hawaii - Manoa 3783
SPECTRAL STUDIES OF POSSIBLE ASTEROID MATERIALS
Period *Obligations*
01/01/1985-11/31/1995 FY95: \$47,700 TOTAL: \$385,900
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J F BELL HQ/J UNDERWOOD JR 32-Geological Sci
HQ/J M BOYCE

NAG 5-2663 University of Hawaii - Manoa 3776
PARTICIPATION IN THE CONSOLIDATED INFRARED SPECTROMETER (CIRS) AS CO-INVESTIGATOR
Period *Obligations*
07/21/1994-07/31/1996 FY95: \$7,474 TOTAL: \$14,587
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T OWEN GSFC/V KUNDE 11-Astronomy

NAGW 755 University of Hawaii - Manoa 3784
CHARACTERIZATION OF INFRARED DETECTOR ARRAYS
Period *Obligations*
06/15/1985-11/30/1994 FY95: TOTAL: \$2,245,890
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D N HALL HQ/R V STACHNIK 13-Physics
HQ/E J WEILER

NAG 5-2675 University of Hawaii - Manoa 3777
IRAS (HIRES) STUDIES OF HIGH MASS STAR FORMATION
Period *Obligations*
08/11/1994-08/14/1996 FY95: \$47,600 TOTAL: \$90,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C WYNN-WILLIAMS GSFC/D WEST 11-Astronomy

NAGW 802 University of Hawaii - Manoa 3785
INFRARED SPECTRAL STUDIES OF ASTEROIDS
Period *Obligations*
09/01/1985-12/31/1997 FY95: \$49,000 TOTAL: \$400,405
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W J BELL HQ/H C BRINTON 11-Astronomy
HQ/J H RAHE

NAG 5-2695 University of Hawaii - Manoa 3778
NASA DIGITAL IMAGE DATA DISTRIBUTION FOR EDUCATION PUBLIC ACCESS AND TOURISM IN HAWAII: A MODEL SYS.
Period *Obligations*
08/17/1994-08/31/1996 FY95: \$275,000 TOTAL: \$300,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J MOUGINIS-MARK GSFC/F HASLER 39-Env Sci, NEC

NAGW 959 University of Hawaii - Manoa 3786
INTERSTELLAR AND INTERGALLACTIC CGAS
Period *Obligations*
07/01/1986-09/30/1994 FY95: TOTAL: \$326,016
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L L COWIE HQ/F C GILLETT 11-Astronomy
HQ/N BOGGESS

NAG 5-2836 University of Hawaii - Manoa 3779
DYNAMICS OF GAS IN GROUPS OF GALAXIES
Period *Obligations*
12/12/1994-12/14/1995 FY95: \$26,000 TOTAL: \$26,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J E BARNES GSFC/D WEST 11-Astronomy

NAGW 1053 University of Hawaii - Manoa 3787
REGIONAL PLANETARY IMAGE CENTER
Period *Obligations*
11/15/1986-11/14/1995 FY95: \$53,600 TOTAL: \$316,114
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B R HAWKE HQ/T A MAXWELL 32-Geological Sci

NAG 8-994 University of Hawaii - Manoa 3780
JOVE
Period *Obligations*
01/25/1994-05/31/1996 FY95: \$18,611 TOTAL: \$53,424
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W D HEACOX MSFC/F SIX 11-Astronomy

NAGW 1162 University of Hawaii - Manoa 3788
TESTING A MODEL FOR THE MORPHOLOGICAL EVOLUTION OF VOLCANOES
Period *Obligations*
09/09/1987-08/31/1996 FY95: \$65,000 TOTAL: \$611,946
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J MARK HQ/M BALTUCK 32-Geological Sci
HQ/R E MURPHY

NAGW 237 University of Hawaii - Manoa 3781
GEOLOGIC STUDIES OF PLANETARY VOLCANIC AND IMPACT PROCESS.
Period *Obligations*
08/01/1981-10/31/1996 FY95: \$70,000 TOTAL: \$846,915
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B R HAWKE HQ/J UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

NAGW 1421 University of Hawaii - Manoa 3789
MINERALOGICAL MAPPING OF THE LUNAR SURFACE
Period *Obligations*
08/09/1988-09/30/1995 FY95: \$25,000 TOTAL: \$245,328
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P G LUCEY HQ/T A MAXWELL 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
HAWAII (Continued)**

NAGW 1542 University of Hawaii - Manoa 3790
RESEARCH IN CORONAL AND CHROMOSPHERIC PHYSICS IN SUPPORT
Period *Obligations*
12/09/1988-04/30/1996 FY95: \$300,000 TOTAL: \$2,276,093
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R C CANFIELD HQ/J D BOHLIN 13-Physics
HQ/S KANE

NAGW 2468 University of Hawaii - Manoa 3798
A GLOBAL ASSESSMENT OF ACTIVE VOLCANISM VOLCANIC HAZARDS, AND VOLCANIC INPUTS TO THE ATMOS. FROM EO
Period *Obligations*
04/30/1991-12/31/1995 FY95: \$333,000 TOTAL: \$1,348,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P MOUQUINIS-MARK HQ/M BALTUCK 39-Env Sci, NEC
HQ/B J MALCOLM

NAGW 1699 University of Hawaii - Manoa 3791
LINEMAN-ALPHA TUNABLE ACOUSTO-OPTIC FILTER
Period *Obligations*
02/27/1989-10/31/1994 FY95: TOTAL: \$180,640
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D L MICKEY HQ/W N WAGNER 13-Physics
HQ/S KANE

NAGW 2521 University of Hawaii - Manoa 3799
VOLCANISM IN ALASKA AND ALEUTIANS FROM ERS-1
Period *Obligations*
07/25/1991-04/30/1994 FY95: TOTAL: \$85,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J MOUGINIS-MARK HQ/R H THOMAS 32-Geological Sci

NAGW 1897 University of Hawaii - Manoa 3792
OBSERVATIONAL EVIDENCE OF AGING PROCESSES IN COMETS
Period *Obligations*
04/06/1990-10/31/1995 FY95: \$122,059 TOTAL: \$425,585
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K J MEECH HQ/J RAHE 11-Astronomy

NAGW 2631 University of Hawaii - Manoa 3800
LABORATORY INVESTIGATIONS OF VOLATILE TRAPPING IN COMETS
Period *Obligations*
09/04/1991-08/31/1995 FY95: \$59,000 TOTAL: \$274,343
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T C OWEN HQ/J D RUMMEL 12-Chemistry

NAGW 1916 University of Hawaii - Manoa 3793
OPERATION OF THE UNIVERSITY OF HAWAII TELESCOPE AT MAUNA KEA OBSERVATORY
Period *Obligations*
04/10/1990-10/31/1993 FY95: TOTAL: \$1,065,661
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D B HALL HQ/H C BRINTON 11-Astronomy

NAGW 2650 University of Hawaii - Manoa 3801
NAGW-2650/UNIV HAWAII/SPECTROSCOPIC OBSERVATIONS OF THE PLANETS
Period *Obligations*
08/19/1991-03/31/1996 FY95: \$66,392 TOTAL: \$228,272
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T OWEN HQ/J RAHE 11-Astronomy

NAGW 1991 University of Hawaii - Manoa 3794
STUDY OF TRITON AND THE PLUTO-CHARON SYSTEM
Period *Obligations*
02/14/1990-10/31/1994 FY95: TOTAL: \$81,503
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J THOLEN HQ/J H RAHE 11-Astronomy

NAGW 2917 University of Hawaii - Manoa 3802
PHYSICAL PROPERTIES OF ACTIVE COMETS
Period *Obligations*
02/27/1992-02/28/1996 FY95: TOTAL: \$137,270
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D C JEWITT HQ/W L QUAIDE 11-Astronomy

NAGW 2153 University of Hawaii - Manoa 3795
OUTER SOLAR SYSTEM NOMENCLATURE
Period *Obligations*
08/14/1990-05/31/1996 FY95: \$4,747 TOTAL: \$30,549
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T OWEN HQ/T A MAXWELL 32-Geological Sci

NAGW 2955 University of Hawaii - Manoa 3803
QUANTITATIVE ANALYSIS OF SMALL VOLCANOES ON MARS AND VENUS
Period *Obligations*
03/03/1992-10/31/1995 FY95: TOTAL: \$105,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J MARK HQ/J M BOYCE 32-Geological Sci

NAGW 2174 University of Hawaii - Manoa 3796
REMOTE COMPOSITIONAL ANALYSIS OF LUNAR AND PLANETARY SURFACES
Period *Obligations*
07/23/1990-09/30/1995 FY95: TOTAL: \$479,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T B MCCORD HQ/T A MAXWELL 32-Geological Sci

NAGW 3015 University of Hawaii - Manoa 3804
PRESENT DAY PLATE MOTIONS AND THE RHEOLOGY OF THE PLATE-MANTLE SYSTEM
Period *Obligations*
04/03/1992-12/31/1994 FY95: TOTAL: \$192,382
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D BERCOVICI HQ/R E MURPHY 32-Geological Sci
HQ/D M BUTLER

NAGW 2278 University of Hawaii - Manoa 3797
OBSERVATIONAL STUDIES OF COMETS AND THE POTENTIAL SITES OF PLANETARY SYSTEM FORMATION
Period *Obligations*
05/21/1991-10/31/1993 FY95: TOTAL: \$165,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A TOKUNAGA HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3044 University of Hawaii - Manoa 3805
NAGW-3044/UNIV HAWAII/OBSERVATIONS OF SPACECRAFT TARGETS, UNUSUAL OBJECTS, AND OTHER TARGETS
Period *Obligations*
04/24/1992-03/31/1995 FY95: TOTAL: \$74,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J THOLEN HQ/H C BRINTON 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
HAWAII (Continued)**

NAGW 3093 University of Hawaii - Manoa 3806
 MODELING AND MONITORING OF THE PLUTO/CHARRON SYSTEM
Period *Obligations*
 01/26/1993-12/31/1994 FY95: TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D J THOLEN HQ/H C BRINTON 11-Astronomy

NAGW 3099 University of Hawaii - Manoa 3807
 NAGW-3099/UNIV HAWAII/INSTRUMENTATION FOR ACHIEVING HIGH ANGULAR RESOLUTION ON THE NASA INFRARED
Period *Obligations*
 06/17/1992-02/28/1995 FY95: TOTAL: \$1,192,060
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B SMITH HQ/H C BRINTON 11-Astronomy

NAGW 3218 University of Hawaii - Manoa 3808
 NAGW-3218/UNIV HAWAII/HIGH RESOLUTION STEREO CAMERA AND OMEGA IMAGING SPECTROMETER INVESTIGATIONS
Period *Obligations*
 11/02/1992-06/30/1995 FY95: TOTAL: \$113,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T B MCCORD HQ/J M BOYCE 32-Geological Sci

NAGW 3281 University of Hawaii - Manoa 3809
 NAGW-3281/UNIV HAWAII/ORIGIN OF METEORITE PARENT BODIES AND THE MOON
Period *Obligations*
 12/04/1992-11/30/1995 FY95: \$322,700 TOTAL: \$931,340
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K KEIL HQ/H C BRINTON 32-Geological Sci

NAGW 3294 University of Hawaii - Manoa 3810
 NAGW-3294/UNIV HAWAII/VOLATILE EVOLUTION
Period *Obligations*
 11/27/1992-10/31/1995 FY95: \$98,000 TOTAL: \$298,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F P FANALE HQ/H C BRINTON 32-Geological Sci

NAGW 3398 University of Hawaii - Manoa 3811
 A DEEP OPTICAL SURVEY OF THE ECLIPTIC
Period *Obligations*
 03/09/1993-02/28/1996 FY95: \$77,772 TOTAL: \$112,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D JEWITT HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3409 University of Hawaii - Manoa 3812
 THERMAL EMISSION SPECTROSCOPY OF AIRLESS BODIES
Period *Obligations*
 02/16/1993-02/28/1995 FY95: TOTAL: \$70,336
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P G LUCEY HQ/H C BRINTON 11-Astronomy

NAGW 3427 University of Hawaii - Manoa 3813
 GROUND-BASED TELESCOPIC OBSERVATIONS IN SUPPORT OF THE MARS MISSION
Period *Obligations*
 02/25/1992-10/31/1995 FY95: \$35,747 TOTAL: \$120,692
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P LUCEY HQ/H C BRINTON 11-Astronomy

NAGW 3493 University of Hawaii - Manoa 3814
 DEV. OF AN OPT. MOD. FOR EST. PRI. PRO. RAT. FROM SEA VIEW. COL. IMA. AND AVHRR CLOUD CLIM.
Period *Obligations*
 04/02/1992-02/29/1996 FY95: \$103,424 TOTAL: \$196,942
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R BIDIGARE HQ/D E WICKLAND 33-Oceanography
 HQ/A C JANETOS

NAGW 3500 University of Hawaii - Manoa 3815
 EVOLUTION OF VOLCANOES AND THEIR SUMMIT CALDRAS ON VENUS
Period *Obligations*
 03/31/1993-03/31/1995 FY95: TOTAL: \$51,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P J MOUGINIS-MARK HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3531 University of Hawaii - Manoa 3816
 PLAS. DEFOR. OF VENUS LITH. OVER A DYN. MAN. SYN. OF SATELLITE DATA ANALYSIS WITH
Period *Obligations*
 04/22/1993-03/31/1995 FY95: \$44,000 TOTAL: \$104,306
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D BERCOVICI HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3537 University of Hawaii - Manoa 3817
 LUNAR SCIENCE STRATEGIES AND MGMT OF THE LUNAR EXPLORATION SCIENCE WORKING GROUP
Period *Obligations*
 04/22/1993-09/30/1995 FY95: TOTAL: \$94,697
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G J TAYLOR HQ/C PILCHER 32-Geological Sci

NAGW 3643 University of Hawaii - Manoa 3818
 WIDE FIELD IMAGING OF SOLAR SYSTEM OBJECTS WITH AN 8192X8192 CCD MOSAIC
Period *Obligations*
 06/25/1993-02/28/1994 FY95: TOTAL: \$1,243,534
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D HALL HQ/H C BRINTON 11-Astronomy

NAGW 3684 University of Hawaii - Manoa 3819
 LAVA FLOW DYNAMICS
Period *Obligations*
 08/06/1993-02/29/1996 FY95: \$33,000 TOTAL: \$148,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G J TAYLOR HQ/J M BOYCE 32-Geological Sci

NAGW 3712 University of Hawaii - Manoa 3820
 PARTICIPATION IN CLEMENTINE SCIENCE TEAM
Period *Obligations*
 08/13/1993-06/30/1995 FY95: TOTAL: \$95,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P LUCEY HQ/H C BRINTON 11-Astronomy

NAGW 3721 University of Hawaii - Manoa 3821
 FORMATION AND HISTORY OF AEROSOLS IN TROPOSPHERIC AND STRATOSPHERIC VOLCANIC ERUPTION CLOUDS
Period *Obligations*
 09/10/1993-07/31/1996 FY95: \$79,185 TOTAL: \$213,084
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S SELF HQ/M BALTUCK 31-Atmos Sci
 HQ/E PAYLOR

**NASA'S UNIVERSITY PROGRAM
HAWAII (Continued)**

NAGW 3766 University of Hawaii - Manoa 3822
 REMOTE MARINE AEROSOL: A CHARACTERIZATION OF PHYSICAL CHEMICAL AND OPTICAL PROPERTIES
Period Obligations
 09/29/1993-05/31/1996 FY95: \$152,361 TOTAL: \$393,674
Prin. Invest. NASA Tech. Officer CASE Category
 A CLARKE HQ/J T SUTTLES 31-Atmos Sci
 HQ/A C JANETOS

NAGW 3812 University of Hawaii - Manoa 3823
 NAGW-3812/UNIV OF HAWAII/REMOTE SENSING DATA TO GIS STUDIES OF LAND USE, LAND COVER AND VEGETATION
Period Obligations
 11/05/1993-08/14/1996 FY95: TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 D M ISHII HQ/D M BUTLER 39-Env Sci, NEC
 P MOUGINIS-MARK HQ/A J TUYAHOV
 M MC GRANAGHAN

NAGW 3818 University of Hawaii - Manoa 3824
 NAGW-3818/B UNIV. HAWAII 'PLANETARY SYSTEMS: FORMATION, EVOLUTION AND DETECTION.'
Period Obligations
 12/23/1993-09/30/1994 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 B SMITH HQ/H C BRINTON 11-Astronomy

NAGW 3844 University of Hawaii - Manoa 3825
 EVALUATION OF COMETS AND LINK TO ASTEROIDS
Period Obligations
 01/06/1994-12/31/1994 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 K MEECH HQ/J H RAHE 11-Astronomy

NAGW 3875 University of Hawaii - Manoa 3826
 OPERATION OF THE UNIV OF HAWAII 2.2 METER TELESCOPE AT MAUNA KEA OBS
Period Obligations
 02/17/1994-10/31/1996 FY95: \$220,000 TOTAL: \$431,200
Prin. Invest. NASA Tech. Officer CASE Category
 D HALL HQ/J H RAHE 11-Astronomy

NAGW 3900 University of Hawaii - Manoa 3827
 SUBMILLIMETER IMAGING OF DUST AROUND MAIN SEQUENCE
Period Obligations
 03/23/1994-03/31/1997 FY95: \$35,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
 D JEWITT HQ/J RAHE 11-Astronomy

NAGW 3918 University of Hawaii - Manoa 3828
 NAGW-3918/B UNIV. OF HAWAII 'A SYSTEM FOR ACQUISITION AND DISSEMINATION OF EARTH OBS. DATA VIA...' 36 MO MULTIPLEXED OBSERVATION
Period Obligations
 04/11/1994-01/14/1997 FY95: \$175,760 TOTAL: \$323,030
Prin. Invest. NASA Tech. Officer CASE Category
 T N NELSON HQ/J C DODGE 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 3938 University of Hawaii - Manoa 3829
 NAGW-3938/B UNIV. OF HAWAII 'JOINT US/JAPAN OBS. WITH THE INFRARED SPACE...' 12-MONTH AWARD
Period Obligations
 04/14/1994-01/14/1996 FY95: \$100,000 TOTAL: \$155,000
Prin. Invest. NASA Tech. Officer CASE Category
 D B SANDERS HQ/L J CAROFF 11-Astronomy

NAGW 3973 University of Hawaii - Manoa 3830
 SUBMILLIMETER CONTINUUM OBSERVATIONS OF COMETS
Period Obligations
 05/03/1994-02/28/1997 FY95: \$40,000 TOTAL: \$78,400
Prin. Invest. NASA Tech. Officer CASE Category
 D JEWITT HQ/J H RAHE 11-Astronomy

NAGW 4116 University of Hawaii - Manoa 3831
 AVALANCHE MODELS OF SOLAR FLARES
Period Obligations
 08/15/1994-06/30/1995 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 B LABONTE HQ/W J WAGNER 13-Physics
 HQ/J D BOHLIN

NAGW 4190 University of Hawaii - Manoa 3832
 DEVELOPING A STAND ALONE SUN PHOTOMETER FOR USE ON SHIPS AND BUOYS
Period Obligations
 10/31/1994-09/30/1996 FY95: \$142,505 TOTAL: \$142,505
Prin. Invest. NASA Tech. Officer CASE Category
 J PORTER HQ/A C JANETOS 33-Oceanography

NAGW 4601 University of Hawaii - Manoa 3833
 OPTICAL STUDIES OF ACTIVE COMETS
Period Obligations
 08/11/1995-04/31/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 D JEWITT HQ/E BARKER 11-Astronomy

NAGW 4650 University of Hawaii - Manoa 3834
 HIGH ANGULAR RESOLUTION OBSERVATIONS OF PROTO PLANETARY DISKS WITH ADAPTIVE OPTICS
Period Obligations
 08/02/1995-07/31/1996 FY95: \$55,000 TOTAL: \$55,000
Prin. Invest. NASA Tech. Officer CASE Category
 F RODDIER HQ/P ROGERS 11-Astronomy

NAGW 4697 University of Hawaii - Manoa 3835
 ATMOSPHERIC DELAY CORRECTIONS FOR RADAR INTERFEROMETRY: DEVELOPMENT AND TESTING OF A GPS-BASED CORRECTION
Period Obligations
 08/16/1995-07/31/1998 FY95: \$150,000 TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 M BEVIS HQ/G ASRAR 39-Env Sci, NEC

NAS 2-14059 University of Hawaii - Manoa 3836
 CONNECTIVITY SERVICE BETWEEN SCIENCE COMMUNITIES AMONG NASA AND PACIFIC RIM NATIONS THROUGH PACCOM CONSORTIUM
Period Obligations
 05/10/1994-03/31/1996 FY95: \$283,215 TOTAL: \$973,415
Prin. Invest. NASA Tech. Officer CASE Category
 T N NELSON ARC/M MODIN 22-Computer Science
 ARC/M LEON

NAS 5-30535 University of Hawaii - Manoa 3837
 LASER RANGING OPERATIONS AND DEVELOPMENT AT LURE OBSERVATORY
Period Obligations
 02/01/1989-01/31/1994 FY95: TOTAL: \$3,112,637
Prin. Invest. NASA Tech. Officer CASE Category
 L MACKNIK GSFC/J F MCGARRY 11-Astronomy
 L S MACKNIK

**NASA'S UNIVERSITY PROGRAM
HAWAII (Continued)**

NAS 5-30951 University of Hawaii - Manoa 3838
 INTERPRETATION OF GALILEO PROBE MASS SPECTROMETER DATA
Period *Obligations*
 01/15/1991-04/30/1997 FY95: TOTAL: \$136,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T B OWEN GSFC/J R RICHARDS 31-Atmos Sci

NGT 00-040-020 University of Hawaii - Manoa 3846
 NGT-40020/UNIV OF HAWAII/NAT'L SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period *Obligations*
 03/07/1990-01/31/1996 FY95: \$330,000 TOTAL: \$1,823,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P MOUGINIS-MARK HQ/E T SCHWARTZ 99-Multi-Discip

NAS 5-31722 University of Hawaii - Manoa 3839
 EOS INVESTIGATION 'GLOBAL HYDROLOGIC PROCESSES AND CLIMATE'
Period *Obligations*
 10/08/1991-10/07/1996 FY95: \$45,000 TOTAL: \$197,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R LUKAS GSFC/W LAU 39-Env Sci, NEC

NGT 00-050-811 University of Hawaii - Manoa 3847
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/01/1991-07/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J P HENRY HQ/J ALEXANDER 11-Astronomy

NAS 5-32354 University of Hawaii - Manoa 3840
 LASER RANGING OPERATIONS AND MAINTENANCE
Period *Obligations*
 03/03/1994-03/02/1999 FY95: \$1,327,878 TOTAL: \$1,828,094
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D HALL GSFC/J MCGARRY 99-Multi-Discip

NGT 00-050-930 University of Hawaii - Manoa 3848
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/01/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G J TAYLOR HQ/J K ALEXANDER 32-Geological Sci

NASW 4481 University of Hawaii - Manoa 3841
 OPERATION AND MAINTENANCE OF THE NASA INFRARED TELESCOPE FACILITY
Period *Obligations*
 07/09/1990-01/31/1996 FY95: \$2,553,570 TOTAL: \$14,680,410
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D B HALL HQ/J RAHE 11-Astronomy

NGT 00-051-124 University of Hawaii - Manoa 3849
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/05/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B LABONTE HQ/D HOLLAND 11-Astronomy

NGT 00-030-054 University of Hawaii - Manoa 3842
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 09/06/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K A HORTON HQ/D M BUTLER 32-Geological Sci
 P MOUGINIS-MARK HQ/G S WILSON

NGT 00-051-286 University of Hawaii - Manoa 3850
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/28/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B J LABONTE HQ/D HOLLAND 11-Astronomy

NGT 00-030-104 University of Hawaii - Manoa 3843
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 11/02/1992-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J R CHRISTIAN HQ/G ASRAR 32-Geological Sci
 HQ/D M BUTLER

NGT 00-051-325 University of Hawaii - Manoa 3851
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/06/1994-07/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D JEWITT HQ/D HOLLAND 11-Astronomy

NGT 00-030-137 University of Hawaii - Manoa 3844
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 11/02/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R E HOLASEK HQ/G ASRAR 32-Geological Sci
 HQ/D M BUTLER

NGT 00-070-385 University of Hawaii - Manoa 3852
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
 08/30/1994-06/30/1995 FY95: TOTAL: \$13,404
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J LASKAR HQ/D RUSSELL 45-Elec Engr

NGT 00-030-312 University of Hawaii - Manoa 3845
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 08/04/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F JIN HQ/M BALTUCK 39-Env Sci, NEC
 HQ/G ASRAR

NAG 1-1764 University of Hawaii System 3853
 AEROSOL PHYSICO-CHEMISTRY AND CYCLING IN THE TROPOSPHERE: MEASUREMENTS FOR PEM-TROPICS
Period *Obligations*
 09/29/1995-10/31/1996 FY95: \$99,754 TOTAL: \$99,754
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D D CLARKE LARC/J M HOELL JR. 31-Atmos Sci
 LARC/R J BENDURA

**NASA'S UNIVERSITY PROGRAM
HAWAII (Continued)**

NAG 5-2912 University of Hawaii System 3854
 A DEEP HRI SURVEY
Period *Obligations*
 03/14/1995-03/31/1996 FY95: \$9,828 TOTAL: \$9,828
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E HU GSFC/R PETRE 11-Astronomy

NAG 5-2914 University of Hawaii System 3855
 X-RAY GAS TEMPERATURES IN THE ARC CLUSTERS MS0440 +
 204 AND MS0302 + 1658
Period *Obligations*
 03/21/1995-03/31/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D GLOIA GSFC/D WHITE 11-Astronomy

NAG 5-2938 University of Hawaii System 3856
 ARCHITECTURE AND IMPLEMENTATION CONSIDERATIONS OF A
 HIGH-SPEED VITERBI DECODER FOR A REED MULLER SUB
Period *Obligations*
 05/10/1995-05/14/1996 FY95: \$69,000 TOTAL: \$69,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S LIN GSFC/W H MILLER 49-Engr, NEC
 G UEHARA GSFC/J C MORAKIS

NAG 5-3000 University of Hawaii System 3857
 ANALYSIS OF DIGITAL TOPOGRAPHY OF VOLCANOES
Period *Obligations*
 07/18/1995-07/31/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P J MOUGINIS-MARK GSFC/H F FREY 32-Geological Sci

NAGW 4715 University of Hawaii System 3858
 ASTEROID SUBNODE OF SMALL BODIES NODE OF PLANETARY
 DATA SYSTEM
Period *Obligations*
 09/08/1995-10/31/1996 FY95: \$22,700 TOTAL: \$22,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D THOLEN HQ/J Y BERGSTRALH 11-Astronomy

NGT 00-051-387 University of Hawaii System 3859
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/15/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D B SANDERS HQ/D HOLLAND 11-Astronomy

IDAHO

NAG 8-269 Idaho State University 3860
 JOVE
Period *Obligations*
 12/03/1992-05/16/1996 FY95: \$24,805 TOTAL: \$80,610
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S JOHNSON MSFC/F SIX 11-Astronomy
 R RODRIGUAZ

NAG 1-1693 University of Idaho 3861
 LOW DENSITY TITANIUM ALLOYS USING MECHANICAL ALLOY ING
 AND VAPOR DEPOSITION
Period *Obligations*
 04/07/1995-04/06/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F H FROES LARC/T A WALLACE 47-Materials Engr
 C SURYANARAYANA LARC/W D BREWER

NAG 2-961 University of Idaho 3862
 GALILEO DOPPLER WIND EXPERIMENT
Period *Obligations*
 02/06/1995-03/31/1996 FY95: \$29,243 TOTAL: \$29,243
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D G ATKINSON ARC/L E LASHER 31-Atmos Sci
 ARC/R E YOUNG

NAG 2-6006 University of Idaho 3863
 GALILEO EDUCATIONAL CURRICULUM GRANT FOR SCIENCE I
 MPROVEMENT
Period *Obligations*
 09/22/1995-01/14/1996 FY95: \$4,985 TOTAL: \$4,985
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K H ATKINSON ARC/L E LASHER 99-Multi-Discip
 J GRAHAM ARC/R E YOUNG

NAGW 4276 University of Idaho 3864
 ADVANCED DESIGN PROGRAM
Period *Obligations*
 02/07/1995-08/14/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L A STAUFFER HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NCC 2-848 University of Idaho 3865
 PLANETARY ATMOSPHERE DYNAMICS AND RADIATIVE TRANSFER
Period *Obligations*
 04/01/1994-12/31/1995 FY95: \$31,040 TOTAL: \$60,019
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D H AIKINSON ARC/J B POLLACK 31-Atmos Sci
 ARC/R E YOUNG

NCC 2-862 University of Idaho 3866
 DEVELOPMENT OF SENSORY RECEPTORS IN SKELETAL MUSCL E
Period *Obligations*
 06/21/1994-04/30/1997 FY95: \$116,151 TOTAL: \$193,299
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M E DESANTIS ARC/D A REIS-BUBENHEIM 51-Biological Sci
 ARC/C M WINGET

NCC 2-914 University of Idaho 3867
 SPARK: STUDENT PROGRAM FOR AERONATUCIS RESOURCES F
 OR KNOWLEDGE
Period *Obligations*
 07/26/1995-12/14/1995 FY95: \$46,106 TOTAL: \$46,106
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D H ATKINSON ARC/M J LEON 99-Multi-Discip
 ARC/W C LIKENS

NCC 2-5006 University of Idaho 3868
 INTELLIGENT MECHANISMS ENGINEERING DESIGN PROGRAM
Period *Obligations*
 10/07/1993-01/01/1995 FY95: TOTAL: \$16,954
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D H ATKINSON ARC/H LUM 49-Engr, NEC

**NASA'S UNIVERSITY PROGRAM
IDAHO (Continued)**

NGT 00-010-003 University of Idaho 3869
IDAHO STAR (STUDENT TEAMS FOR AEROSPACE RESEARCH)
Period Obligations
06/16/1993-03/31/1996 FY95: TOTAL: \$82,500
Prin. Invest. NASA Tech. Officer CASE Category
D H ATKINSON HQ/D V GALLAWAY 41-Aero Engr

NGT 00-090-077 Illinois Institute of Technology 3877
GRADUATE STUDENT RESEARCHERS PROGRAM/UMF
Period Obligations
09/17/1992-08/14/1994 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
J ORNELAS HQ/D RUSSELL 99-Multi-Discip

NGT 00-040-038 University of Idaho 3870
NGT-40038/UNIV IDAHO/NAT'L SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
05/29/1991-02/28/1998 FY95: \$283,838 TOTAL: \$1,013,838
Prin. Invest. NASA Tech. Officer CASE Category
T ARMSTRONG HQ/L KEFFER 99-Multi-Discip

NGT 00-090-079 Illinois Institute of Technology 3878
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
10/09/1992-08/14/1995 FY95: TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
J ORNELAS HQ/D RUSSELL 99-Multi-Discip

ILLINOIS

NGT 00-030-011 Chicago State University 3871
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
10/25/1990-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
B J SODEN HQ/G ASRAR 31-Atmos Sci

NGT 00-090-146 Illinois Institute of Technology 3879
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
09/26/1992-08/14/1994 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
J ORNELAS HQ/D K RUSSELL 99-Multi-Discip

NAGW 4369 Depaul University 3872
NEW LINCOLN PARK LIBRARY
Period Obligations
03/18/1995-02/29/1996 FY95: \$45,044 TOTAL: \$45,044
Prin. Invest. NASA Tech. Officer CASE Category
K MCHUGH HQ/M V PHELPS 99-Multi-Discip

NGT 00-090-179 Illinois Institute of Technology 3880
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1995 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
J ORNELAS HQ/D RUSSELL 99-Multi-Discip

NAG 1-1532 Illinois Institute of Technology 3873
EXPANDING FLOW DIAGNOSTIC CAPABILITIES
Period Obligations
07/19/1993-07/18/1994 FY95: TOTAL: \$55,185
Prin. Invest. NASA Tech. Officer CASE Category
C E WARK LARC/M J WALSH 41-Aero Engr

NGT 00-090-273 Illinois Institute of Technology 3881
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
12/16/1994-08/14/1995 FY95: \$36,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
K SMITH HQ/D K RUSSELL 43-Chem Engr

NAG 3-1519 Illinois Institute of Technology 3874
EFFECT OF MILD PRESSURE GRADIENTS ON TUNED AND DETUNED SUBHARMONIC 3-D MODE GROWTH IN 2-D BOUNDARY
Period Obligations
09/01/1993-08/31/1994 FY95: TOTAL: \$77,838
Prin. Invest. NASA Tech. Officer CASE Category
T C CORKE LERC/R R MANKBADI 41-Aero Engr

NAG 8-268 Illinois Wesleyan University 3882
JOVE
Period Obligations
02/02/1993-05/31/1995 FY95: \$13,835 TOTAL: \$67,835
Prin. Invest. NASA Tech. Officer CASE Category
U MSFC/F SIX 99-Multi-Discip

NCC 1-167 Illinois Institute of Technology 3875
CONTROLLED EXPERIMENTS ON INSTABILITIES AND TRANSITION TO TURBULENCE ON CONES AT MACH 3.5 AND 8
Period Obligations
08/04/1992-09/30/1995 FY95: \$50,053 TOTAL: \$271,268
Prin. Invest. NASA Tech. Officer CASE Category
T C CORKE LARC/S P WILKINSON 41-Aero Engr

NAG 1-1343 Northwestern University 3883
QUALITATIVE MODELING FOR EXPLANATION GENERATION AND REASONING ABOUT PROCED. IN CIVILIAN AVIATION - FDP
Period Obligations
09/27/1991-08/31/1994 FY95: TOTAL: \$207,116
Prin. Invest. NASA Tech. Officer CASE Category
K D FORBUS LARC/K H ABBOTT 22-Computer Science

NGT 00-090-076 Illinois Institute of Technology 3876
GSRP/UMF
Period Obligations
09/24/1992-08/14/1995 FY95: TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
J ORNELAS HQ/D RUSSELL 99-Multi-Discip

NAG 1-1654 Northwestern University 3884
EFFECTS OF PHYSICAL AND CHEMICAL AGING ON LONGTERM BEHAVIOR OF POLYMER MATRIX COMPOSITES -- MY1/3
Period Obligations
01/05/1995-01/04/1996 FY95: \$62,998 TOTAL: \$62,998
Prin. Invest. NASA Tech. Officer CASE Category
L C BRINSON LARC/T S GATES 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAG 2-774 Northwestern University 3885
EFFECTS OF BRIEF CHANGES IN THE GRAVITY FIELD ON THE
CIRCADIAN CLOCK OF MAMMALS
Period *Obligations*
03/30/1992-09/30/1995 FY95: TOTAL: \$113,130
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F W TUREK ARC/C E WADE 56-Medical Sciences
O VAN REETH

NAG 3-1636 Northwestern University 3893
FLUID MECHANICS OF CAPILLARY ELASTIC INSTABILITIES IN THE
MICROGRAVITY ENVIRONMENT
Period *Obligations*
06/29/1994-09/28/1996 FY95: \$65,000 TOTAL: \$130,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J B GROTBORG LERC/D F CHAO 19-Phys Sci, NEC
D C HALPERN

NAG 2-846 Northwestern University 3886
ADAPTIVE LOAD BALANCING AND DATA PLACEMENT IN DISK A
RRAYS
Period *Obligations*
06/10/1993-05/14/1996 FY95: \$153,099 TOTAL: \$293,647
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P SCHEUERMANN ARC/J R LEKASHMAN 22-Computer Science

NAG 3-1737 Northwestern University 3894
THEORY OF SOLIDIFICATION
Period *Obligations*
04/18/1995-04/17/1996 FY95: \$154,000 TOTAL: \$154,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S H DAVIS LERC/A CHART 47-Materials Engr

NAG 3-747 Northwestern University 3887
THEORY OF SOLIDIFICATION
Period *Obligations*
10/15/1986-04/18/1996 FY95: TOTAL: \$1,159,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S H DAVIS LERC/A CHAIT 47-Materials Engr

NAG 5-1801 Northwestern University 3895
HIGH-VELOCITY GAS IN THE SN1911T/3C273 SIGHTLINE
Period *Obligations*
09/13/1991-03/31/1995 FY95: TOTAL: \$41,525
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M MAYER GSFC/D WEST 11-Astronomy

NAG 3-1405 Northwestern University 3888
INTERACTIONS BETWEEN SOLIDIFICATION AND COMPOSITIONAL
CONVECTION IN ALLOYS
Period *Obligations*
12/30/1992-12/31/1995 FY95: \$80,000 TOTAL: \$240,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M G WORSTER LERC/A CHAIT 47-Materials Engr
S H DAVIS LERC/M YAO

NAG 5-1944 Northwestern University 3896
PLATE MOTION, REGIONAL DEFORMATION AND TIME VARIATION
OF PLATE MOTION FROM STUDIES INTEGRATING...
Period *Obligations*
03/16/1992-08/31/1995 FY95: TOTAL: \$211,973
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R G GORDON GSFC/B G BILLS 32-Geological Sci

NAG 3-1417 Northwestern University 3889
MICROGRAVITY MATERIALS SCIENCE: RESEARCH AND FLIGHT
EXPERIMENT OPPORTUNITIES
Period *Obligations*
12/15/1992-12/14/1995 FY95: \$160,000 TOTAL: \$480,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P W VORHEES LERC/T K GLASGOW 47-Materials Engr
LERC/R ASTHANA

NAG 5-2003 Northwestern University 3897
GPS GEODETIC MONITORING OF SOUTH AMERICA-NAZCA CON
VERGENCE
Period *Obligations*
07/01/1992-02/29/1996 FY95: \$25,000 TOTAL: \$99,188
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S A STEIN GSFC/B G BILLS 32-Geological Sci

NAG 3-1604 Northwestern University 3890
STRUCTURE AND DYNAMICS OF DIFFUSION FLAMES IN
MICROGRAVITY
Period *Obligations*
05/23/1994-05/22/1998 FY95: \$78,000 TOTAL: \$152,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M MATALON LERC/H D ROSS 46-Mech Engr

NAG 5-2105 Northwestern University 3898
OBSERVATIONS OF BRIGHT HH OBJECTS IN M42
Period *Obligations*
10/08/1992-01/31/1995 FY95: TOTAL: \$17,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F YUSEF-ZADEH GSFC/D WEST 11-Astronomy

NAG 3-1608 Northwestern University 3891
FILTRATION COMBUSTION FOR MICROGRAVITY APPLICATION ; (1)
SMOLDERING (2) COMBUSTION SYNTHESIS ADV MAT
Period *Obligations*
05/24/1994-05/31/1996 FY95: \$114,000 TOTAL: \$225,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B J MATKOWSKY LERC/S A GOKOGLU 43-Chem Engr

NAG 5-2431 Northwestern University 3899
STRAIN ACCUMULATION MONITORING IN THE NEW MADRID S
EISMIC ZONE USING THE GLOBAL POSITIONING SYSTEM
Period *Obligations*
11/09/1993-01/14/1996 FY95: \$10,000 TOTAL: \$87,844
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S STEIN GSFC/B G BILLS 32-Geological Sci

NAG 3-1617 Northwestern University 3892
NONLINEAR DYNAMICS AND NUCLEATION KINETICS IN NEAR
CRITICAL LIQUIDS
Period *Obligations*
06/16/1994-06/15/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A Z PATASHINSKI LERC/R A WILKINSON 13-Physics
LERC/H K NAHRA

NAG 5-2432 Northwestern University 3900
SMALL SCALE SUBSTRUCTURE WITHIN THE COMA CLUSTER OF
GALAXIES
Period *Obligations*
11/12/1993-11/30/1995 FY95: \$54,600 TOTAL: \$98,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M ULMER GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAG 5-2716 Northwestern University 3901
THE EXTRAGALACTIC X-RAY BACKGROUND IN 0.2 - 2 KEV RANGE
Period Obligations
09/09/1994-09/14/1996 FY95: \$71,759 TOTAL: \$104,091
Prin. Invest. NASA Tech. Officer CASE Category
D WANG GSFC/D WEST 11-Astronomy

NAGW 2526 Northwestern University 3909
THEORETICAL STUDIES OF HIGH ENERGY TRANSIENTS
Period Obligations
05/29/1991-12/31/1995 FY95: \$10,667 TOTAL: \$224,186
Prin. Invest. NASA Tech. Officer CASE Category
R E TAAM HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAG 5-2717 Northwestern University 3902
THE SHADOWING EFFECT OF THE GALAXY NGC 4244 ON THE
COSMIC X-RAY BACKGROUND (\$5,958)
Period Obligations
09/07/1994-09/14/1997 FY95: \$8,319 TOTAL: \$42,277
Prin. Invest. NASA Tech. Officer CASE Category
Q WANG GSFC/R PETRE 11-Astronomy

NAGW 2695 Northwestern University 3910
CLIMATE STABILITY: THE ROLE OF THE HYDROLOGICAL CYCLE
AND THE THERMOHALINE CIRCULATION
Period Obligations
09/09/1991-12/31/1994 FY95: TOTAL: \$140,270
Prin. Invest. NASA Tech. Officer CASE Category
G E BIRCHFIELD HQ/R H THOMAS 39-Env Sci, NEC
HQ/R A SCHIFFER

NAG 5-2822 Northwestern University 3903
OSSE OBSERVATIONS OF THE DIFFUSE GALACTIC LOW- ENERGY
GAMMA-RAY CONTINUUM
Period Obligations
12/14/1994-12/14/1995 FY95: \$63,838 TOTAL: \$63,838
Prin. Invest. NASA Tech. Officer CASE Category
W R PURCELL GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAGW 2859 Northwestern University 3911
NAGW-2859/NORTHWESTERN UNIV/MULTILAYERED SUPERCOND
UCTING TUNNEL JUNCTIONS FOR USE IN ASTROPHYSICAL
Period Obligations
01/31/1992-02/14/1995 FY95: TOTAL: \$555,725
Prin. Invest. NASA Tech. Officer CASE Category
J B KETTERSON HQ/J K ALEXANDER 11-Astronomy
HQ/D A HOLLAND

NAG 5-2826 Northwestern University 3904
OSSE OBSERVATIONS OF GALACTIC BLACK HOLE CANDIDATE S
AND THEIR NEUTRON-STAR IMPOSTERS
Period Obligations
12/14/1994-12/14/1995 FY95: \$13,275 TOTAL: \$13,275
Prin. Invest. NASA Tech. Officer CASE Category
D A GRABELSKY GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAGW 2935 Northwestern University 3912
PHYSICS AND INTERPRETATION OF HIGH LUMINOSITY SOURCES
Period Obligations
02/27/1992-12/31/1994 FY95: TOTAL: \$234,000
Prin. Invest. NASA Tech. Officer CASE Category
G S MILLER HQ/L J KALUZIENSKI 11-Astronomy
R E TAAM HQ/A N BUNNER

NAG 5-2883 Northwestern University 3905
26 AL EMISSION STRUCTURE ALONG THE GALACTIC PLANE
Period Obligations
02/07/1995-02/14/1996 FY95: \$17,426 TOTAL: \$17,426
Prin. Invest. NASA Tech. Officer CASE Category
W R PURCELL GSFC/J P NORRIS 11-Astronomy
R DIEHL GSFC/N WHITE

NAGW 2936 Northwestern University 3913
GRAVITATIONAL RADIATION SOURCES
Period Obligations
02/27/1992-12/31/1995 FY95: TOTAL: \$116,994
Prin. Invest. NASA Tech. Officer CASE Category
L S FINN HQ/R STACHNIK 11-Astronomy
HQ/E J WEILER

NAG 8-1020 Northwestern University 3906
LOW TEMPERATURE UNBALANCED MAGNETRON DEPOSITION OF
HARD, WEAR-RESISTANT COATINGS FOR LIQUID-FILM BEA
Period Obligations
02/11/1994-08/31/1995 FY95: TOTAL: \$77,972
Prin. Invest. NASA Tech. Officer CASE Category
W D SPROUL MSFC/L E MOORE 12-Chemistry
M E GRAHAM MSFC/R L THOM
T P CHANG

NAGW 3615 Northwestern University 3914
MECHANICAL MODULATION OF STRIATED MUSCLE PHENOTYPE
Period Obligations
05/26/1993-05/31/1996 FY95: \$61,109 TOTAL: \$181,729
Prin. Invest. NASA Tech. Officer CASE Category
R S DECKER HQ/T W HALSTEAD 51-Biological Sci

NAG 8-1061 Northwestern University 3907
MICROGRAVITY AND NORMAL GRAVITY STUDIES
Period Obligations
06/16/1994-06/15/1996 FY95: \$55,000 TOTAL: \$110,000
Prin. Invest. NASA Tech. Officer CASE Category
J M TORKELESON MSFC/J P DOWNEY 47-Materials Engr

NAGW 3693 Northwestern University 3915
ANALYSIS OF DISTRIBUTION AND MORPHOLOGY OF MAJOR F
EATURES FOR AN UNDERSTANDING OF THE TECTONICS
Period Obligations
08/03/1993-05/31/1995 FY95: \$21,600 TOTAL: \$51,600
Prin. Invest. NASA Tech. Officer CASE Category
D M JURDY HQ/J T BERGSTRALH 32-Geological Sci

NAG 9-734 Northwestern University 3908
HAPTIC DISPLAY FOR EVA TRAINING
Period Obligations
06/06/1994-06/30/1995 FY95: TOTAL: \$47,995
Prin. Invest. NASA Tech. Officer CASE Category
J E COLGATE JSC/C J CULBERT 29-Math/Computer, NEC

NAGW 4008 Northwestern University 3916
MECHANISMS OF VESTIBULAR FUNCTION AND DYSFUNCTION
Period Obligations
05/11/1994-10/01/1994 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
B W PETERSON HQ/V THORNE 56-Medical Sciences

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAGW 4274 Northwestern University 3917
GRAVITATIONAL RADIATION SOURCES FOR INTERFEROMETRI C
SPACE-BASED DETECTORS
Period *Obligations*
01/31/1995-12/31/1997 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L S FINN HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAS 3-26810 Northwestern University 3918
APPLICATION OF DIFFUSION BARRIER COATINGS TO CERAM IC
FIBER FOR NICKEL ALUMINIDE COMPOSTIES
Period *Obligations*
12/10/1992-05/31/1995 FY95: TOTAL: \$149,909
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D E BOSS LERC/R R BOWMAN 47-Materials Engr

NCC 2-774 Northwestern University 3919
THEORETICAL STUDIES OF RATE COEFFICIENTS FOR GAS P HASE
REACTIONS INVOLVED IN THE COMBUSTION OF....
Period *Obligations*
10/20/1992-11/30/1995 FY95: \$65,003 TOTAL: \$175,431
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G C SCHATZ ARC/S R LANGHOFF 12-Chemistry

NGT 00-030-244 Northwestern University 3920
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/10/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P SCHEUERMANN HQ/E LUCIER 22-Computer Science
HQ/G ASRAR

NGT 00-050-902 Northwestern University 3921
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
05/29/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B J MATROWSKI HQ/J ALEXANDER 21-Mathematics
A BAYLISS

NGT 00-050-907 Northwestern University 3922
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
05/29/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J B KETTERSON HQ/J ALEXANDER 13-Physics

NGT 00-051-083 Northwestern University 3923
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B CARPENTER HQ/B CARPENTER 21-Mathematics

NGT 00-051-233 Northwestern University 3924
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/07/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J E COLGATE JSC/S GOLDSTEIN 46-Mech Engr

NGT 00-051-301 Northwestern University 3925
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/07/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J B KETTERSON HQ/D HOLLAND 13-Physics

NGT 00-051-349 Northwestern University 3926
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S C BANKOFF HQ/G A LESANE 46-Mech Engr

NGT 00-051-388 Northwestern University 3927
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/30/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B J MATKOWSKY HQ/D GLASCO 21-Mathematics

NGT 00-070-355 Northwestern University 3928
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
09/02/1993-08/31/1996 FY95: \$44,000 TOTAL: \$86,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T MARKS HQ/D K RUSSELL 12-Chemistry

NAG 8-267 Parks College of St. Louis University 3929
JOVE
Period *Obligations*
02/02/1993-05/31/1996 FY95: TOTAL: \$87,250
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C E MONFORT MSFC/F SIX 99-Multi-Discip

NAG 1-1563 Southern Illinois University - Carbondale 3930
APPLICATIONS OF QUANTUM THEORY OF ATOMIC AND MOLE-
CULAR SCATTERING TO PROBLEMS IN HYPERSONIC FLOW
Period *Obligations*
12/17/1993-12/16/1995 FY95: \$75,000 TOTAL: \$161,874
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F B MALIK LARC/W E MEADOR 13-Physics
LARC/E J CONWAY

NCA 2-718 Southern Illinois University - Carbondale 3931
HIGH SPEED GAS CHROMATOGRAPHY OF VOLATILE SUBSTANCE S
Period *Obligations*
05/21/1992-12/06/1994 FY95: TOTAL: \$46,245
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J B PHILLIPS ARC/J R VALENTIN 12-Chemistry

NCC 2-5122 Southern Illinois University - Carbondale 3932
MATHEMATICAL MODELING OF ADSORPTION COLUMNS FOR RE-
MOVAL OF MULTIPLE CONTA
Period *Obligations*
03/17/1995-05/15/1997 FY95: \$23,484 TOTAL: \$23,484
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B A DEVANTIER ARC/J E FINN 43-Chem Engr

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NCC 5-70 Southern Illinois University - Carbondale 3933
 INVESTIGATION OF SOURCE LOCATION DETERMINATION FRO M
 MAGSAT MAGNETIC ANOMALIES: THE EULER METHOD...
Period Obligations
 05/12/1994-08/31/1996 FY95: \$2,999 TOTAL: \$16,999
Prin. Invest. NASA Tech. Officer CASE Category
 D N RAVAT GSFC/P TAYLOR 32-Geological Sci
 GSFC/H V FREY

NGT 00-051-366 Southern Illinois University - Carbondale 3934
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/24/1994-07/31/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D L MOLFESE HQ/G LESANE 61-Biol Aspects

NGT 00-070-233 Southern Illinois University - Carbondale 3935
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 07/15/1991-08/14/1995 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 J B PHILLIPS HQ/F C OWENS 12-Chemistry

NAG 2-380 University of Chicago 3936
 DATA REDUCTIONS AND ANALYSIS FOR THE UNIV OF
 CHICACHARGED PARTICLE INSTRUMENT ON THE PIONEER 10
 AND
Period Obligations
 11/01/1987-10/31/1996 FY95: \$345,000 TOTAL: \$4,436,753
Prin. Invest. NASA Tech. Officer CASE Category
 J A SIMPSON ARC/L E LASHER 13-Physics
 ARC/R A CRAIG

NAG 2-1008 University of Chicago 3937
 CHANGES IN MYOSIN EXPRESIIION DURING SPACEFLIGHT AN D
 RECOVERY
Period Obligations
 09/21/1995-07/31/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 K A ESSER ARC/W E HINDS 51-Biological Sci
 ARC/C M WINGET

NAG 2-6001 University of Chicago 3938
 REALL-TIME DATA/VIDEO/VOICE UPLINK AND DOWNLINK FOR THE
 KUIPER AIRBORNE OBSERVATORY (KAO)
Period Obligations
 08/22/1994-06/30/1996 FY95: \$28,000 TOTAL: \$56,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A LOEWINSTEIN ARC/R YEE 41-Aero Engr
 J C SWEITZER ARC/D J TUCKER
 D B COLE

NAG 2-6004 University of Chicago 3939
 SPACE EXPLORERS OUTREACH PROGRAM
Period Obligations
 01/20/1995-07/31/1995 FY95: \$6,000 TOTAL: \$6,000
Prin. Invest. NASA Tech. Officer CASE Category
 D A HARPER ARC/C D LAUGHLIN 11-Astronomy
 ARC/C M GILLESPIE JR

NAG 5-706 University of Chicago 3940
 ASTROPHYSICAL STUDIES OF IMP SATELLITE DATA
Period Obligations
 10/01/1985-10/31/1995 FY95: \$123,244 TOTAL: \$1,321,071
Prin. Invest. NASA Tech. Officer CASE Category
 J A SIMPSON GSFC/G BULLOCK 11-Astronomy
 M G MUNOI

NAG 5-1434 University of Chicago 3941
 UV EXTINCTION IN HIGH LATITUDE CLOUDS
Period Obligations
 08/14/1990-01/31/1995 FY95: TOTAL: \$34,500
Prin. Invest. NASA Tech. Officer CASE Category
 D E WELTY GSFC/D WEST 11-Astronomy

NAG 5-1454 University of Chicago 3942
 ANALYZING/INTERPRETING GAMMA-RAY BURST SPECTRA
Period Obligations
 08/27/1990-06/30/1996 FY95: \$110,000 TOTAL: \$284,470
Prin. Invest. NASA Tech. Officer CASE Category
 D Q LAMB GSFC/J P NORRIS 11-Astronomy
 GSFC/D A KNIFFEN

NAG 5-1485 University of Chicago 3943
 MAGNETIC FIELD DYNAMICS IN THE SOLAR INTERIOR AND OUTER
 SOLAR ATMOSPHERE
Period Obligations
 11/26/1990-03/31/1996 FY95: \$290,022 TOTAL: \$1,400,515
Prin. Invest. NASA Tech. Officer CASE Category
 R ROSNER GSFC/T J BIRMINGHAM 13-Physics

NAG 5-1856 University of Chicago 3944
 X-RAY EMISSION AND SPECTRA OF 'HYBRID' GIANT STARS
Period Obligations
 01/09/1992-10/31/1994 FY95: TOTAL: \$39,242
Prin. Invest. NASA Tech. Officer CASE Category
 R ROSNER GSFC/R PETRE 11-Astronomy

NAG 5-1986 University of Chicago 3945
 APPLICATION OF TOMS MEASUREMENTS TO UV STUDIES
Period Obligations
 05/27/1992-12/31/1995 FY95: \$50,001 TOTAL: \$100,001
Prin. Invest. NASA Tech. Officer CASE Category
 J E FREDERICK GSFC/A L KRUEGER 31-Atmos Sci
 GSFC/P K BHARTIA

NAG 5-2081 University of Chicago 3946
 GAMMA RAYS FROM CLASSICAL NOVAE
Period Obligations
 08/25/1992-09/30/1994 FY95: TOTAL: \$133,000
Prin. Invest. NASA Tech. Officer CASE Category
 J W TRURAN GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2099 University of Chicago 3947
 HIGH ENERGY EMISSION FROM COMPACT OBJECTS
Period Obligations
 09/15/1992-09/14/1994 FY95: TOTAL: \$91,461
Prin. Invest. NASA Tech. Officer CASE Category
 P COPPI GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAG 5-2218 University of Chicago 3948
 CONVECTIVE TURBULENCE AND MIXING IN ASTROPHYSICS
Period Obligations
 02/23/1993-11/30/1995 FY95: \$525,000 TOTAL: \$1,350,000
Prin. Invest. NASA Tech. Officer CASE Category
 R ROSNER GSFC/J R FISCHER 13-Physics
 N BRUMMELL
 F CATTANEO

NAG 5-2792 University of Chicago 3956
 MODIFIED LAGRANGIAN-MEAN DIAGNOSTICS OF THE STRATO
 SPHERIC TRACER TRANSPORT
Period Obligations
 11/18/1994-11/30/1995 FY95: \$84,990 TOTAL: \$84,990
Prin. Invest. NASA Tech. Officer CASE Category
 N NAKAMURA GSFC/C H JACKMAN 31-Atmos Sci

NAG 5-2307 University of Chicago 3949
 RESTORATION AND ARCHIVING OF THE DATA FROM EXPERIM ENT
 MEH ON THE SPACECRAFT ISEE-3/ICE
Period Obligations
 06/24/1993-07/14/1995 FY95: TOTAL: \$110,000
Prin. Invest. NASA Tech. Officer CASE Category
 P MEYER GSFC/G BULLOCK 19-Phys Sci, NEC

NAG 5-2849 University of Chicago 3957
 STATISTICAL ANALYSIS OF ATMOSPHERIC TEMPERATURE AND
 OZONE DATA TREND FEATURES AND COMPARISONS, ETC
Period Obligations
 12/15/1994-12/14/1995 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
 G C TIAO GSFC/R D MCPETERS 31-Atmos Sci

NAG 5-2474 University of Chicago 3950
 COBE SCIENCE ANALYSIS
Period Obligations
 01/07/1994-01/31/1996 FY95: TOTAL: \$41,240
Prin. Invest. NASA Tech. Officer CASE Category
 S S MEYER GSFC/J C MATHER 11-Astronomy
 GSFC/E DWEK

NAG 5-2868 University of Chicago 3958
 FUNDAMENTAL STUDIES IN HIGH ENERGY ASTROPHYSICS
Period Obligations
 01/09/1995-01/14/1996 FY95: \$63,000 TOTAL: \$63,000
Prin. Invest. NASA Tech. Officer CASE Category
 D Q LAMB GSFC/D WEST 11-Astronomy

NAG 5-2626 University of Chicago 3951
 ANISOTROPY OF THE COSMIC MICROWAVE BACKGROUND ON
 LARGE AND MEDIUM ANGULAR SCALES
Period Obligations
 06/28/1994-06/30/1996 FY95: \$10,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 S MEYER GSFC/R F SILVERBERG 11-Astronomy
 GSFC/E CHENG

NAG 5-2898 University of Chicago 3959
 GAMMA RAYS FROM CLASSICAL NOVAE
Period Obligations
 02/23/1995-02/29/1996 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
 J W TRURAN GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2660 University of Chicago 3952
 ANALYSIS OF CLUSTERING AND STRUCTURE IN THE ANGULA
 DISTRIBUTION OF GAMMA RAY BURSTS
Period Obligations
 07/21/1994-08/31/1996 FY95: \$55,000 TOTAL: \$108,000
Prin. Invest. NASA Tech. Officer CASE Category
 J M QUASHNOCK GSFC/J P NORRIS 11-Astronomy
 D Q LAMB GSFC/N WHITE

NAG 5-2931 University of Chicago 3960
 THE CORONAE OF LOW MASS DWARF STARS.
Period Obligations
 04/18/1995-04/30/1996 FY95: \$2,400 TOTAL: \$2,400
Prin. Invest. NASA Tech. Officer CASE Category
 V KASHYAP GSFC/R OLIVERSON 11-Astronomy

NAG 5-2687 University of Chicago 3953
 TEMPORAL AND SPECTRAL PROPERTIES OF GALACTIC BLACK HOLE
 CANDIDATES
Period Obligations
 08/16/1994-08/31/1996 FY95: \$55,000 TOTAL: \$108,000
Prin. Invest. NASA Tech. Officer CASE Category
 D Q LAMB GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2976 University of Chicago 3961
 EUV SPECTROSCOPY OF MRK 421
Period Obligations
 06/16/1994-06/30/1996 FY95: \$39,500 TOTAL: \$39,500
Prin. Invest. NASA Tech. Officer CASE Category
 A KONIGL GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2766 University of Chicago 3954
 ACCRETION AND OUTFLOW PHENOMENA IN YOUNG STELLAR
 OBJECTS
Period Obligations
 10/28/1994-08/31/1996 FY95: \$233,475 TOTAL: \$233,475
Prin. Invest. NASA Tech. Officer CASE Category
 A KONIGL GSFC/D WEST 11-Astronomy

NAG 5-3041 University of Chicago 3962
 CLIMATOLOGICAL VARIATION OF EL NINOS
Period Obligations
 08/01/1995-09/30/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 T T FUJITA GSFC/A J NEGRI 31-Atmos Sci

NAG 5-2770 University of Chicago 3955
 GALAXY AND CLUSTER FORMATION AND EVOLUTION
Period Obligations
 10/26/1994-08/31/1996 FY95: \$90,400 TOTAL: \$90,400
Prin. Invest. NASA Tech. Officer CASE Category
 J W TRURAN GSFC/D WEST 11-Astronomy

NAG 5-3076 University of Chicago 3963
 STUDIES OF CLASSICAL NOVAE: CONFRONTATION OF THEORY
 WITH OBSERVATIONS
Period Obligations
 09/22/1995-09/30/1996 FY95: \$24,954 TOTAL: \$24,954
Prin. Invest. NASA Tech. Officer CASE Category
 S G TRURAN GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAG 8-886 University of Chicago 3964
 CLIMATIC VARIATION OF STORMS
Period Obligations
 07/16/1991-11/01/1994 FY95: TOTAL: \$195,000
Prin. Invest. NASA Tech. Officer CASE Category
 T J FUJITA MSFC/S J GOODMAN 31-Atmos Sci
 MSFC/J E ARNOLD

NAGW 1508 University of Chicago 3972
 THE HISTORY OF LIFE IN A COSMIC ENVIRONMENT
Period Obligations
 11/17/1988-04/30/1995 FY95: TOTAL: \$259,809
Prin. Invest. NASA Tech. Officer CASE Category
 D M RAUP HQ/J D RUMMEL 32-Geological Sci

NAG 8-1070 University of Chicago 3965
 CLIMATOLOGICAL INFLUENCE OF STORMS
Period Obligations
 08/25/1994-10/24/1995 FY95: TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 T T FAJITA MSFC/S J GOODMAN 31-Atmos Sci

NAGW 1527 University of Chicago 3973
 THE FOSSIL RECORD OF EVOLUTION ANALYSIS OF EXTINCTION
Period Obligations
 12/06/1988-05/14/1995 FY95: TOTAL: \$159,891
Prin. Invest. NASA Tech. Officer CASE Category
 D M RAUP HQ/M MEYER 32-Geological Sci

NAG 9-47 University of Chicago 3966
 CHEM PLANETS + METEORITES
Period Obligations
 02/01/1983-02/01/1994 FY95: TOTAL: \$800,602
Prin. Invest. NASA Tech. Officer CASE Category
 J V SMITH JSC/I D BROWNE 13-Physics
 I M STEELE

NAGW 1636 University of Chicago 3974
 HIGH ENERGY EMISSION FROM THE JETS IN ACTIVE GALACTIC NUCLEI
Period Obligations
 01/31/1989-01/31/1995 FY95: TOTAL: \$301,187
Prin. Invest. NASA Tech. Officer CASE Category
 A KONIGL HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAG 9-106 University of Chicago 3967
 DEVELOPMENT/X-RAY FLOURESCENCE FACILITY
Period Obligations
 06/01/1985-06/01/1994 FY95: TOTAL: \$855,579
Prin. Invest. NASA Tech. Officer CASE Category
 S R SUTTON JSC/I D BROWNE 59-Life Sci, NEC

NAGW 1685 University of Chicago 3975
 REMOTE SENSING DATA PROBLEMS
Period Obligations
 02/24/1989-09/30/1994 FY95: TOTAL: \$226,527
Prin. Invest. NASA Tech. Officer CASE Category
 R ROSNER HQ/J D BOHLIN 13-Physics
 HQ/S KANE

NAGW 830 University of Chicago 3968
 FUNDAMENTAL STUDIES IN HIGH ENERGY ASTROPHYSICS
Period Obligations
 10/01/1985-12/31/1994 FY95: \$100,000 TOTAL: \$840,105
Prin. Invest. NASA Tech. Officer CASE Category
 D Q LAMB JR HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAGW 1693 University of Chicago 3976
 THE FOSSIL RECORD OF EVOLUTION DATA ON DIVERSIFICATION
Period Obligations
 03/01/1989-01/31/1996 FY95: \$45,000 TOTAL: \$250,000
Prin. Invest. NASA Tech. Officer CASE Category
 J J SEPKOSKI HQ/J D RUMMEL 32-Geological Sci

NAGW 1284 University of Chicago 3969
 THEORETICAL STUDIES IN HIGH ENERGY
Period Obligations
 04/18/1988-12/31/1994 FY95: \$21,333 TOTAL: \$279,564
Prin. Invest. NASA Tech. Officer CASE Category
 D Q LAMB HQ/G C CLAYTON 13-Physics
 HQ/W V JONES

NAGW 1847 University of Chicago 3977
 FURTHER DEVELOPMENT OF ALPHA PARTICLE INSTRUMENT WITH ALPHA PROTON AND X-RAY MODES
Period Obligations
 03/13/1990-09/30/1994 FY95: TOTAL: \$977,674
Prin. Invest. NASA Tech. Officer CASE Category
 T ECONOMU HQ/P R MAHAFFY 32-Geological Sci

NAGW 1321 University of Chicago 3970
 FUNDAMENTAL STUDIES
Period Obligations
 06/20/1988-01/31/1996 FY95: \$51,000 TOTAL: \$398,472
Prin. Invest. NASA Tech. Officer CASE Category
 D N SCHRAMM HQ/G C CLAYTON 11-Astronomy

NAGW 1982 University of Chicago 3978
 EXPERIMENTS IN HIGH ENERGY ASTROPHYSICS
Period Obligations
 04/25/1990-10/31/1995 FY95: \$100,000 TOTAL: \$1,825,401
Prin. Invest. NASA Tech. Officer CASE Category
 P MEYER HQ/W V JONES 13-Physics
 HQ/J C LING

NAGW 1475 University of Chicago 3971
 ACCURATE GROUND BASED CALIBRATION OF HRS-HST
Period Obligations
 10/25/1988-02/28/1994 FY95: TOTAL: \$183,326
Prin. Invest. NASA Tech. Officer CASE Category
 L M HOBBS HQ/G C CLAYTON 13-Physics

NAGW 1995 University of Chicago 3979
 STUDIES OF THE COSMIC RADIATION AT HIGH ENERGIES; HEAT A HIGH ENERGY ANTIMATTER TELESCOPE
Period Obligations
 02/26/1990-10/31/1995 FY95: \$300,000 TOTAL: \$2,645,000
Prin. Invest. NASA Tech. Officer CASE Category
 D MULLER HQ/W V JONES 13-Physics
 HQ/J C LING

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAGW 2122 University of Chicago 3980
 A THEORETICAL INVESTIGATION OF THE DYNAMICS OF THE SOLAR WIND AND MAGNETIC FIELDS
Period *Obligations*
 05/22/1990-12/31/1995 FY95: TOTAL: \$687,604
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E N PARKER HQ/J D BOHLIN 13-Physics
 HQ/S KANE

NAGW 3078 University of Chicago 3988
 NAGW-3078/UNIV CHICAGO/A SPACE DUST EXPERIMENT FOR MEASUREMENT OF THE DISTRIBUTION OF MAN-MADE
Period *Obligations*
 05/26/1992-06/30/1994 FY95: TOTAL: \$200,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A J TUZZOLINO HQ/H C BRINTON 31-Atmos Sci

NAGW 2272 University of Chicago 3981
 COLLABORATIVE RESEARCH OXYGEN ISOTOPIC HETEROGENEITY IN OLIVINE AND PYROXENE FROM ORDINARY CAR
Period *Obligations*
 02/22/1991-10/31/1995 FY95: TOTAL: \$96,372
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 I M STEELE HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3114 University of Chicago 3989
 NAGW-3114/UNIV CHICAGO/STATISTICAL ANALYSIS OF STRATOSPHERIC TEMPERATURE AND OZONE PROFILE DATA
Period *Obligations*
 06/21/1992-06/30/1994 FY95: TOTAL: \$60,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G C TIAO HQ/J A KAYE 31-Atmos Sci
 HQ/R E MURPHY

NAGW 2379 University of Chicago 3982
 ACCRETION AND OUTFLOW PHENOMENA YOUNG STELLAR OBJECTS
Period *Obligations*
 03/18/1991-02/28/1995 FY95: TOTAL: \$245,873
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A KOENIGL HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 3212 University of Chicago 3990
 NAGW-3212/UNIV CHICAGO/KINETICS OF VOLATILIZATION OF INTERSTELLAR GRAINS
Period *Obligations*
 09/29/1992-03/31/1996 FY95: \$60,000 TOTAL: \$195,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L GROSSMAN HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2578 University of Chicago 3983
 MARS '94 PARTICIPATING SCIENTIST AND COINVESTIGATOR PROGRAM
Period *Obligations*
 08/16/1991-01/31/1996 FY95: \$312,000 TOTAL: \$657,008
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T ECONOMOU HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 3252 University of Chicago 3991
 NAGW-3252/UNIV CHICAGO/SPACE EXPLORERS OUTREACH PROGRAM
Period *Obligations*
 10/29/1992-07/31/1994 FY95: TOTAL: \$4,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D A HARPER HQ/L S LAPIANA 11-Astronomy
 HQ/G P NEWTON

NAGW 2588 University of Chicago 3984
 ICE-SHEET MODELING BY CONTROL METHODS
Period *Obligations*
 08/26/1991-12/31/1994 FY95: TOTAL: \$62,067
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D MACAYEAL HQ/R H THOMAS 39-Env Sci, NEC
 HQ/R A SCHIFFER

NAGW 3340 University of Chicago 3992
 CHEMICAL ASPECTS OF THE ORIGIN OF THE SOLAR SYSTEM
Period *Obligations*
 01/13/1993-11/30/1997 FY95: \$217,704 TOTAL: \$622,793
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L GROSSMAN HQ/H C BRINTON 32-Geological Sci

NAGW 2610 University of Chicago 3985
 THE INTERSTELLAR CLOUD AROUND THE SOLAR SYSTEM
Period *Obligations*
 08/20/1991-02/28/1996 FY95: \$35,327 TOTAL: \$185,327
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P C FRISCH HQ/W V JONES 11-Astronomy
 HQ/J C LING

NAGW 3342 University of Chicago 3993
 PRESOLAR GRAINS AND THE EARLY SOLAR SYSTEM
Period *Obligations*
 01/15/1993-12/31/1995 FY95: \$165,000 TOTAL: \$478,254
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R LEWIS HQ/H C BRINTON 32-Geological Sci

NAGW 3057 University of Chicago 3986
 DESIGN AND CONSTRUCTION OF AN ADIABATIC REFRIGERATOR AND BOLOMETER ARRAY
Period *Obligations*
 04/24/1992-03/31/1994 FY95: TOTAL: \$109,666
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R H HILDEBRAND HQ/L J CAROFF 11-Astronomy

NAGW 3345 University of Chicago 3994
 ISOTOPIC STUDIES OF THE MOON AND METEORITES
Period *Obligations*
 01/15/1993-12/31/1995 FY95: \$261,116 TOTAL: \$748,214
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R N CLAYTON HQ/H C BRINTON 13-Physics

NAGW 3069 University of Chicago 3987
 STELLAR ORIGINS AND INTERSTELLAR CARRIERS OF NUCLEOSYNTHETIC ISOTOPIC ANOMALIES
Period *Obligations*
 05/07/1992-03/31/1996 FY95: \$40,000 TOTAL: \$140,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R CLAYTON HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3384 University of Chicago 3995
 REFRACTORY INCLUSIONS IN CARBONACEOUS CHONDRITES
Period *Obligations*
 02/16/1993-02/28/1997 FY95: \$114,000 TOTAL: \$222,625
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A DAVIS HQ/H C BRINTON 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAGW 3416 University of Chicago 3996
MINERALOGY AND CHEMISTRY OF PLANETS AND METEORITES
Period Obligations
03/09/1993-05/31/1996 FY95: \$56,534 TOTAL: \$221,231
Prin. Invest. NASA Tech. Officer CASE Category
I STEELE HQ/H C BRINTON 32-Geological Sci

NAGW 4504 University of Chicago 4004
TURBULENT CONVECTION AND ITS ROLE IN ACOUSTIC EMISSION AND TRANSPORT
Period Obligations
05/16/1995-04/30/1997 FY95: \$85,230 TOTAL: \$85,230
Prin. Invest. NASA Tech. Officer CASE Category
F CATTANEO HQ/W J WAGNER 13-Physics
HQ/J D BOHLIN

NAGW 3569 University of Chicago 3997
TRACE ELEMENT AND ISOTOPE STUDIES OF IRON METEORITES
Period Obligations
04/30/1993-03/31/1995 FY95: TOTAL: \$26,137
Prin. Invest. NASA Tech. Officer CASE Category
E OLSEN HQ/J BOYCE 31-Atmos Sci

NAGW 4678 University of Chicago 4005
ANALYSIS OF QUASI-STEADY SOLAR CORONAL STRUCTURES FOR YOHKOH
Period Obligations
08/18/1995-04/30/1996 FY95: \$98,096 TOTAL: \$98,096
Prin. Invest. NASA Tech. Officer CASE Category
R ROSNER HQ/W J WAGNER 13-Physics
HQ/J D BOHLIN

NAGW 3651 University of Chicago 3998
DEVELOPMENT OF X-RAY FLUORESCENCE AND X-RAY ABSORPTION SPECTROSCOPY FACILITY
Period Obligations
06/15/1993-03/31/1996 FY95: \$66,485 TOTAL: \$202,993
Prin. Invest. NASA Tech. Officer CASE Category
S SUTTON HQ/J BOYCE 32-Geological Sci

NAGW 4682 University of Chicago 4006
INTERSTELLAR GAS AND YOUNG STARS IN THE GALACTIC HALO
Period Obligations
08/04/1995-08/31/1997 FY95: \$34,135 TOTAL: \$34,135
Prin. Invest. NASA Tech. Officer CASE Category
L M HOBBS HQ/R A STACHNIK 11-Astronomy

NAGW 3797 University of Chicago 3999
NAGW-3797/UNIV CHICAGO/POST LAUNCH DATA ANALYSIS FOR ENERGETIC HEAVY ION COMPOSITION EXPERIMENT
Period Obligations
11/09/1993-07/31/1995 FY95: \$47,945 TOTAL: \$132,945
Prin. Invest. NASA Tech. Officer CASE Category
J A SIMPSON HQ/W V JONES 13-Physics
HQ/J D BOHLIN

NAGW 4690 University of Chicago 4007
RESTORATION AND ARCHIVING OF ELECTRON SPECTRUM DATA OBTAINED FROM THE LEE BALLOON EXPERIMENT
Period Obligations
08/07/1995-07/31/1996 FY95: \$34,311 TOTAL: \$34,311
Prin. Invest. NASA Tech. Officer CASE Category
P MEYER HQ/J WILLET 19-Phys Sci, NEC

NAGW 3894 University of Chicago 4000
STUDIES OF THE COSMIC RADIATION AT HIGH ENERGIES/NAGW3894
Period Obligations
03/29/1994-10/31/1995 FY95: \$300,000 TOTAL: \$600,000
Prin. Invest. NASA Tech. Officer CASE Category
S SWORDY HQ/W V JONES 13-Physics
HQ/J D BOHLIN

NAGW 4769 University of Chicago 4008
INFRARED SPECTROSCOPY OF MOLECULAR IONS OF ASTROPHYSICAL INTEREST
Period Obligations
09/16/1995-09/14/1996 FY95: \$38,000 TOTAL: \$38,000
Prin. Invest. NASA Tech. Officer CASE Category
T OKA HQ/L J CAROFF 13-Physics

NAGW 4281 University of Chicago 4001
STRATOSPHERIC LAGRANGIAN TRACER TRANSPORT
Period Obligations
02/10/1995-12/31/1995 FY95: \$17,540 TOTAL: \$17,540
Prin. Invest. NASA Tech. Officer CASE Category
N NAHAMURA HQ/J A KAYE 31-Atmos Sci
HQ/R A SCHIFFER

NAS 1-18239 University of Chicago 4009
HALOGEN OCCULTATION EXPERIMENT (HALOE) SCIENTIFIC SUPPORT
Period Obligations
02/20/1986-12/31/1995 FY95: \$42,000 TOTAL: \$191,000
Prin. Invest. NASA Tech. Officer CASE Category
J E FREDERICK LARC/E M SULLIVAN 31-Atmos Sci
LARC/J M RUSSELL III

NAGW 4360 University of Chicago 4002
INTERSTELLAR PLASMA PROPERTIES IN CONTRASTING LOW COLUMN DENSITY SIGHTLINES
Period Obligations
03/30/1995-12/31/1995 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
P FRISCH HQ/G R RIEGLER 11-Astronomy

NAS 1-20251 University of Chicago 4010
IN-SITU MONITORING OF ORBITAL DEBRIS (IMOD) AO-W-OAST-1-92
Period Obligations
06/27/1994-01/31/1995 FY95: TOTAL: \$47,000
Prin. Invest. NASA Tech. Officer CASE Category
A T TUZZOLINO LARC/J L JONES 47-Materials Engr

NAGW 4445 University of Chicago 4003
ABUNDANCES AND PHYSICAL CONDITIONS FOR INDIVIDUAL INTERSTELLAR CLOUDS
Period Obligations
05/04/1995-04/30/1996 FY95: \$109,900 TOTAL: \$109,900
Prin. Invest. NASA Tech. Officer CASE Category
D WELTY HQ/G R RIEGLER 11-Astronomy

NCC 2-265 University of Chicago 4011
NUMERICAL EXPERIMENTS ON THE DYNAMICS OF GALAXIES
Period Obligations
08/01/1983-04/30/1995 FY95: TOTAL: \$243,859
Prin. Invest. NASA Tech. Officer CASE Category
R H MILLER ARC/B F SMITH 11-Astronomy
ARC/P M CASSEN

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NCC 8-7 University of Chicago 4012
A SOUNDING ROCKET PROGRAM FOR THE STUDY OF HIGH ENERGY CORONAL PHENOMNA
Period Obligations
09/18/1990-10/31/1995 FY95: TOTAL: \$342,620
Prin. Invest. NASA Tech. Officer CASE Category
R ROSNER MSFC/J M DAVIS 13-Physics
J M DAVIS MSFC/E J REICHMANN

NGR14-1227 University of Chicago 4013
NEW RESEARCH GRANT
Period Obligations
02/27/1973-09/30/1995 FY95: \$404,646 TOTAL: \$4,679,536
Prin. Invest. NASA Tech. Officer CASE Category
D A HARPER JR ARC/C D LAUGHLIN 11-Astronomy

NGT 00-030-323 University of Chicago 4014
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/11/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
D R MCAYEAL HQ/M BALTUCK 39-Env Sci, NEC
HQ/G ASRAR

NGT 00-050-778 University of Chicago 4015
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/01/1991-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D Q LAMB HQ/F C OWENS 11-Astronomy

NGT 00-050-797 University of Chicago 4016
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/01/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
S SWORDY HQ/F C OWENS 13-Physics

NGT 00-050-894 University of Chicago 4017
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/07/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
R H HIDEBRAND ARC/M MOORE 11-Astronomy

NGT 00-050-993 University of Chicago 4018
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/17/1992-09/30/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
D N SCHRAMM HQ/J K ALEXANDER 13-Physics

NGT 00-050-997 University of Chicago 4019
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
11/02/1992-09/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
M TURNER HQ/J ALEXANDER 13-Physics

NGT 00-051-059 University of Chicago 4020
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/09/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D Q LAMB HQ/D HOLLAND 11-Astronomy

NGT 00-051-066 University of Chicago 4021
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D MULLER HQ/D HOLLAND 13-Physics

NGT 00-051-100 University of Chicago 4022
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/24/1993-06/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
S MEYER HQ/J T LYNCH 19-Phys Sci, NEC

NGT 00-051-157 University of Chicago 4023
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/22/1993-06/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
S MEYER HQ/D HOLLAND 11-Astronomy

NGT 00-051-300 University of Chicago 4024
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/07/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
J A SIMPSON HQ/D HOLLAND 13-Physics

NGT 00-051-311 University of Chicago 4025
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
R HILDEBRAND ARC/M MOORE 11-Astronomy

NGT 00-051-318 University of Chicago 4026
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/07/1994-09/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
D N SCHRAMM HQ/D HOLLAND 13-Physics

NGT 00-051-322 University of Chicago 4027
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
D Q LAMB HQ/P SMITH 13-Physics

NGT 2-52210 University of Chicago 4028
INFRARED POLARIMETRY OF GALACTIC STAR-FORMING REGI ONS
Period Obligations
09/21/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
C D DOWELL ARC/T L ROELLIG 11-Astronomy

NSG-2057 University of Chicago 4029
STUDY OF SENSITIVE DETECTION SYSTEM FOR FAR INFRARED ASTRONOMY
Period Obligations
12/14/1975-10/31/1996 FY95: \$238,470 TOTAL: \$2,708,497
Prin. Invest. NASA Tech. Officer CASE Category
R H HILDEBRAND ARC/L C HAUGHNEY 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAG 1-1594 University of Illinois - Chicago Circle 4030
 ADVANCED INTERFEROMETRIC TOMOGRAPHY FOR
 AERODYNAMICS FLOW MEASUREMENTS
Period Obligations
 02/09/1994-02/08/1996 FY95: \$40,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 S S CHA LARC/A W BURNER JR. 46-Mech Engr
 LARC/J C HOPPE

NAG 2-868 University of Illinois - Chicago Circle 4031
 RESEARCH IN ADVANCED METHODS FOR COMPUTATIONAL ELE
 CTROMAGNETICS
Period Obligations
 08/11/1993-03/31/1995 FY95: TOTAL: \$130,694
Prin. Invest. NASA Tech. Officer CASE Category
 K R UMASHANKAR ARC/A C WOO 45-Elec Engr
 S R LAXPATI ARC/M J SCHUH

NAG 3-796 University of Illinois - Chicago Circle 4032
 COMPREHENSIVE MODELING OF TURBULENT MULTI COMPONENT
 FUEL SPRAYS
Period Obligations
 04/16/1987-12/31/1995 FY95: TOTAL: \$272,964
Prin. Invest. NASA Tech. Officer CASE Category
 S K AGGARWAL LERC/D L BULZAN 46-Mech Engr

NAG 3-1034 University of Illinois - Chicago Circle 4033
 PROBABILITY OF BRITTLE FAILURE
Period Obligations
 05/10/1989-07/22/1994 FY95: TOTAL: \$256,073
Prin. Invest. NASA Tech. Officer CASE Category
 A CHUDNOVSKY LERC/N N NEMETH 47-Materials Engr

NAG 3-1469 University of Illinois - Chicago Circle 4034
 GENERATION AND TOOTH CONTACT ANALYSIS OF FORM-GROUND
 INVOLUTE HELICAL GEARS WITH NEW TOPOLOGY
Period Obligations
 04/08/1993-06/30/1994 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 F L LITVIN LERC/R F HANDSCHUH 46-Mech Engr
 LERC/J J COX

NAG 3-1607 University of Illinois - Chicago Circle 4035
 EXTENSION OF APPLICATION OF CNC MACHINES FOR GENER ATION
 OF SPIRAL BEVEL GEARS WITH MODIFIED TOPOLOG
Period Obligations
 05/24/1994-09/30/1995 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 F L LITVIN LERC/R F HANDSCHUH 46-Mech Engr
 LERC/J J COY

NAG 3-1631 University of Illinois - Chicago Circle 4036
 THE EFFECTS OF SOOTING IN REDUCED GRAVITY DROPLET
 COMBUSTION
Period Obligations
 06/24/1994-06/22/1996 FY95: \$89,639 TOTAL: \$183,654
Prin. Invest. NASA Tech. Officer CASE Category
 M Y CHOI LERC/H D ROSS 46-Mech Engr

NAG 3-1722 University of Illinois - Chicago Circle 4037
 MORPHOLOGICAL CHANGES OF SOOT GENERATED UNDER ELEC
 TRIC AND MAGNETIC FIELDS
Period Obligations
 03/25/1995-03/24/1996 FY95: \$3,000 TOTAL: \$3,000
Prin. Invest. NASA Tech. Officer CASE Category
 M Y CHOI LERC/N D PILTCHI 19-Phys Sci, NEC

NAG 3-1753 University of Illinois - Chicago Circle 4038
 GEN/GRINDING OF LOW-NOISE DBL CIRC. ARC HELICAL G EARS
 AND COMPUTERIZED SIMUL. OF MESHING AND CONTACT
Period Obligations
 05/31/1995-05/30/1996 FY95: \$74,998 TOTAL: \$74,998
Prin. Invest. NASA Tech. Officer CASE Category
 F L LITVIN LERC/D P TOWNSEND 46-Mech Engr

NAG 5-2988 University of Illinois - Chicago Circle 4039
 SNR AND STELLAR WIND HEATING OF SUPERBUBBLES
Period Obligations
 06/28/1995-01/14/1997 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 Y CHU GSFC/N WHITE 11-Astronomy

NAG 9-764 University of Illinois - Chicago Circle 4040
 ANALYTICAL AND EXPERIMENTAL CHARACTERIZATION OF TWO-
 PHASE FLOW IN PIPING BENDS AND ELBOWS
Period Obligations
 09/19/1994-08/31/1996 FY95: \$30,000 TOTAL: \$45,000
Prin. Invest. NASA Tech. Officer CASE Category
 K M HURLBERT JSC/N G ROBERTSON 46-Mech Engr

NCC 2-837 University of Illinois - Chicago Circle 4041
 AUTOMATION: DECISION AID OR DECISION MAKER?
Period Obligations
 01/12/1994-09/30/1995 FY95: \$120,003 TOTAL: \$226,790
Prin. Invest. NASA Tech. Officer CASE Category
 L J SKITKA ARC/K M CORKER 62-Social Aspects

NGT 3-52300 University of Illinois - Chicago Circle 4042
 GRADUATE STUDENT RESEARCH PROGRAM
Period Obligations
 08/21/1995-08/20/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 C MEGARIDIS LERC/L SHAW 46-Mech Engr

NAG 1-613 University of Illinois at Urbana-Champaign 4043
 CENTER OF EXCELLENCE IN AEROSPACE COMPUTING RESEAR
 CH AND TECHNOLOGY
Period Obligations
 08/26/1985-12/20/1995 FY95: \$669,959 TOTAL: \$5,474,503
Prin. Invest. NASA Tech. Officer CASE Category
 J W LIU LARC/W H BRYANT 22-Computer Science
 R K IYER

NAG 1-1344 University of Illinois at Urbana-Champaign 4044
 CORRELATIVE LIDAR AND RADAR MEASUREMENTS AND SCIENCE
 INVESTIGATION IN SUPPORT OF UARS PROGRAM
Period Obligations
 08/28/1991-06/30/1995 FY95: TOTAL: \$327,301
Prin. Invest. NASA Tech. Officer CASE Category
 C S GARDNER LARC/J G WELLS 31-Atmos Sci
 S J FRANKE

NAG 1-1530 University of Illinois at Urbana-Champaign 4045
 INSTANTANEOUS STRUCTURE OF SEPARATED TURBULENT
 BOULDAARY LAYERS NLPN 93-619
Period Obligations
 08/03/1993-08/02/1996 FY95: \$20,001 TOTAL: \$108,921
Prin. Invest. NASA Tech. Officer CASE Category
 R J ADRIAN LARC/M J WALSH 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAG 1-1545 University of Illinois at Urbana-Champaign 4046
 APPLICATION OF DESIGN OPTIMIZATION TO THE COLTROL OF TRANSPORT PHENOMENA IN MICROGRAVITY
Period Obligations
 09/08/1993-09/07/1994 FY95: TOTAL: \$39,985
Prin. Invest. NASA Tech. Officer CASE Category
 J A DANTZIG LARC/A L FRIPP 19-Phys Sci, NEC
 D A TORTORELLI

NAG 2-823 University of Illinois at Urbana-Champaign 4053
 HIGH PERFORMANCE COMPUTING FOR ELECTROMAGNETIC MOD ELING AND SIMULATION OF INTERCONNECTS
Period Obligations
 12/23/1992-10/31/1995 FY95: \$75,000 TOTAL: \$225,000
Prin. Invest. NASA Tech. Officer CASE Category
 J E SCHUTT-AINE ARC/Y LIU 45-Elec Engr

NAG 1-1583 University of Illinois at Urbana-Champaign 4047
 INVESTIGATION OF THE STABILITY OF CORNER FLOW A MODEL FOR WING BODY JUNCTION
Period Obligations
 12/21/1993-12/31/1995 FY95: \$22,542 TOTAL: \$54,880
Prin. Invest. NASA Tech. Officer CASE Category
 S BALACHANDAR LARC/C L STREET 41-Aero Engr
 LARC/A KUMAR

NAG 2-852 University of Illinois at Urbana-Champaign 4054
 PROPOSAL TO INVESTIGATE THE LOSS OF DUCTILITY IN H YDREGEN CHARGED B-TI ALLOYS
Period Obligations
 06/30/1993-12/31/1994 FY95: TOTAL: \$75,430
Prin. Invest. NASA Tech. Officer CASE Category
 I M ROBERTSON ARC/H G NELSON 47-Materials Engr

NAG 1-1639 University of Illinois at Urbana-Champaign 4048
 HIGH ALTITUDE WEATHER BALLOONS TO SUPPORT RAYLEIGH AND SODIUM LIDAR STUDIES OF THE TROPOSPHERE
Period Obligations
 08/10/1994-06/30/1995 FY95: TOTAL: \$15,550
Prin. Invest. NASA Tech. Officer CASE Category
 G C PAPAN LARC/L R POOLE 31-Atmos Sci
 D

NAG 2-863 University of Illinois at Urbana-Champaign 4055
 EFFECTS OF DIET ON METABOLISM OF LABORATORY RATS
Period Obligations
 08/04/1993-02/29/1996 FY95: \$45,255 TOTAL: \$150,997
Prin. Invest. NASA Tech. Officer CASE Category
 P C HARRISON ARC/S M HING 51-Biological Sci
 R G MAGIRANG ARC/C C JOHNSON
 G L RISKOWSKI

NAG 1-1659 University of Illinois at Urbana-Champaign 4049
 ANALYSES OF SCEANARIOS FOR PAST AND POSSIBLE FUTUR E AIRCRAFT EMISSIONS
Period Obligations
 12/09/1994-09/30/1995 FY95: \$59,021 TOTAL: \$59,021
Prin. Invest. NASA Tech. Officer CASE Category
 D J WUEBBLES LARC/D L MAIDEN 31-Atmos Sci

NAG 2-871 University of Illinois at Urbana-Champaign 4056
 DEVELOPMENT OF FAST ALGORITHMS USING RECURSION AND N ESTING FOR COMPUTATIONAL ELECTROMAGNETICS
Period Obligations
 08/17/1993-01/31/1995 FY95: TOTAL: \$150,001
Prin. Invest. NASA Tech. Officer CASE Category
 W C CHEW ARC/A C WOO 45-Elec Engr
 ARC/M J SCHUH

NAG 1-1741 University of Illinois at Urbana-Champaign 4050
 MODEL VALIDATION AND SENSITIVITY STUDIES FOR DETER MINING AIRCRAFT EFFECTS ON THE GLOBAL ATMOSPHERE
Period Obligations
 07/20/1995-07/19/1996 FY95: \$63,000 TOTAL: \$63,000
Prin. Invest. NASA Tech. Officer CASE Category
 D J WUEBBLES LARC/D L MAIDEN 31-Atmos Sci

NAG 2-886 University of Illinois at Urbana-Champaign 4057
 ATTENTION AND INFORMATION ACCESS EFFORT IN HEAD-UP DISPLAYS
Period Obligations
 02/23/1994-12/31/1995 FY95: \$25,000 TOTAL: \$49,995
Prin. Invest. NASA Tech. Officer CASE Category
 C D WICKENS ARC/D C FOYLE 69-Psych, NEC

NAG 2-308 University of Illinois at Urbana-Champaign 4051
 HUMAN PERFORMANCE AND WORKLOAD IN AUTOMATED SYSTEM
Period Obligations
 12/11/1989-12/31/1994 FY95: TOTAL: \$1,124,480
Prin. Invest. NASA Tech. Officer CASE Category
 C D WICKENS ARC/S G HART 69-Psych, NEC
 J ANDERSON

NAG 2-897 University of Illinois at Urbana-Champaign 4058
 IMPLEMENTATION OF THE NAS PARALLEL BENCHMARKS USIN G CHARM+ +
Period Obligations
 05/17/1994-01/14/1996 FY95: TOTAL: \$99,992
Prin. Invest. NASA Tech. Officer CASE Category
 L V KALE ARC/E BARSZCZ 22-Computer Science
 ARC/T A LASINSKI

NAG 2-666 University of Illinois at Urbana-Champaign 4052
 THE ASSESSMENT AND USE OF WORKLOAD MEASUREMENT TE CHNIQUES IN THE ACQUISITION AND PERFORMANCE OF...'
Period Obligations
 08/16/1990-07/31/1994 FY95: TOTAL: \$202,568
Prin. Invest. NASA Tech. Officer CASE Category
 E DOUCHIN ARC/M M CONNORS 99-Multi-Discip

NAG 2-996 University of Illinois at Urbana-Champaign 4059
 STUDIES AND RESEARCH INTO FUTURE AIR TRANSPORTATION MANAGEMENT CONCEPTS AND TECHNOLOGY
Period Obligations
 08/23/1995-08/14/1996 FY95: \$85,656 TOTAL: \$85,656
Prin. Invest. NASA Tech. Officer CASE Category
 C D WICKENSW ARC/W T KRAMER 41-Aero Engr
 ARC/V BATTISTE

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAG 2-4001 University of Illinois at Urbana-Champaign 4060
 DEVELOPMENT OF A ROBUST MODAL STATE MONITORING SYS
 DEVELOPMENT OF A ROBUST MODAL STATE MONITORING SY
Period Obligations
 01/31/1994-05/31/1995 FY95: TOTAL: \$27,817
Prin. Invest. NASA Tech. Officer CASE Category
 L BERGMAN DFRC/L FREUDINGER 41-Aero Engr

NAG 3-1474 University of Illinois at Urbana-Champaign 4067
 STUDY OF TIME DOMAIN ELECTROMAGNETIC SCATTERING
Period Obligations
 05/05/1993-05/17/1996 FY95: \$100,000 TOTAL: \$600,000
Prin. Invest. NASA Tech. Officer CASE Category
 S W LEE LERC/A J ZAMAN 45-Elec Engr

NAG 3-1026 University of Illinois at Urbana-Champaign 4061
 NUMERICAL INVESTIGATION OF HOT GAS INGESTION BY ST OVL
 AIRCRAFT
Period Obligations
 06/08/1989-12/31/1993 FY95: TOTAL: \$218,882
Prin. Invest. NASA Tech. Officer CASE Category
 S P VANKA LERC/J D HOLDEMAN 41-Aero Engr

NAG 3-1552 University of Illinois at Urbana-Champaign 4068
 DIRECT INJECTION OF NATURAL GAS: IN-CYLINDER MEASU
 REMENTS AND CALCULATIONS
Period Obligations
 01/07/1994-01/04/1996 FY95: \$167,553 TOTAL: \$398,727
Prin. Invest. NASA Tech. Officer CASE Category
 R P LUCHT LERC/M J VALCO 46-Mech Engr
 D N ASSANIS
 J E PETERS

NAG 3-1134 University of Illinois at Urbana-Champaign 4062
 EFFECT OF ICE ACCRETION ON AIRCRAFT AERODYNAMICS
Period Obligations
 02/13/1990-11/28/1995 FY95: TOTAL: \$482,448
Prin. Invest. NASA Tech. Officer CASE Category
 M B BRAGG LERC/M G POTAPCZUK 41-Aero Engr

NAG 3-1637 University of Illinois at Urbana-Champaign 4069
 APPLICATION OF DESIGN OPTIMIZATION TO THE CONTROL OF
 TRANSPORT PROCESSES IN MICROGRAVITY
Period Obligations
 06/29/1994-06/28/1995 FY95: TOTAL: \$25,503
Prin. Invest. NASA Tech. Officer CASE Category
 J A DANTZIG LERC/A CHAIT 47-Materials Engr

NAG 3-1148 University of Illinois at Urbana-Champaign 4063
 THREE-DIMENSIONAL GRID ADAPTATION TO GEOMETRY AND FLOW
 SOLUTIONS
Period Obligations
 03/15/1990-11/09/1995 FY95: TOTAL: \$174,910
Prin. Invest. NASA Tech. Officer CASE Category
 K D LEE LERC/Y K CHOO 41-Aero Engr

NAG 3-1681 University of Illinois at Urbana-Champaign 4070
 EFFORT IF ICE LACCRETION ON AIRFOIL AEORDYNAMICS A ND
 HEAT TRANSFER
Period Obligations
 11/21/1994-11/20/1995 FY95: \$110,000 TOTAL: \$110,000
Prin. Invest. NASA Tech. Officer CASE Category
 M B BRAGG LERC/J SHIN 41-Aero Engr

NAG 3-1247 University of Illinois at Urbana-Champaign 4064
 MODELING OF MICROGRAVITY COMBUSTION EXPERIMENTS
Period Obligations
 02/21/1991-12/31/1995 FY95: TOTAL: \$260,000
Prin. Invest. NASA Tech. Officer CASE Category
 J BUDCMERTOR LERC/H D ROSS 21-Mathematics

NAG 3-1687 University of Illinois at Urbana-Champaign 4071
 PROTOTYPE INSTRUMENT FOR DAMAGE EVALUATION OF STEE L
 BELTED RADIAL TIRES
Period Obligations
 12/08/1994-12/07/1995 FY95: \$5,000 TOTAL: \$5,000
Prin. Invest. NASA Tech. Officer CASE Category
 H L REIS LERC/A VARY 47-Materials Engr
 LERC/G A HORSHAM

NAG 3-1360 University of Illinois at Urbana-Champaign 4065
 PERFORMANCE OF LOW POWER PULSED ARCJETS
Period Obligations
 07/09/1992-03/24/1995 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 R L BURTON LERC/J M SANKOVIC 42-Astro Engr
 LERC/E J PENCIL

NAG 3-1704 University of Illinois at Urbana-Champaign 4072
 MODELING OF MICROGRAVITY COMBUSTION EXPERIMENTS -
 PHASE II
Period Obligations
 03/16/1995-03/15/1996 FY95: \$40,975 TOTAL: \$40,975
Prin. Invest. NASA Tech. Officer CASE Category
 J D BUCKMASTER LERC/S GOKOGLU 21-Mathematics

NAG 3-1374 University of Illinois at Urbana-Champaign 4066
 FURTHER EXPERIMENTAL INVESTIGATION OF THE LOW-FREQ
 UENCY FLOW OSCILLATION ON AIRFOILS
Period Obligations
 11/05/1992-11/15/1995 FY95: \$35,000 TOTAL: \$97,169
Prin. Invest. NASA Tech. Officer CASE Category
 M B BRAGG LERC/K O ZAMAN 46-Mech Engr

NAG 5-1900 University of Illinois at Urbana-Champaign 4073
 DIFFUSE SOFT X-RAY EMISSION FROM THE DUMBELL NEBU LA
 (NGC6853)?!
Period Obligations
 02/20/1992-02/28/1997 FY95: \$20,000 TOTAL: \$128,723
Prin. Invest. NASA Tech. Officer CASE Category
 Y H CHU GSFC/R PETRE 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAG 5-2040 University of Illinois at Urbana-Champaign 4074
 EOSDIS VERSION O STANDARD DATA FORMAT SUPPORT

<i>Period</i>	<i>Obligations</i>	
07/16/1992-07/31/1996	FY95: \$320,000	TOTAL: \$730,246
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M FOLK	GSFC/E F STOCKER	22-Computer Science

NAG 5-2679 University of Illinois at Urbana-Champaign 4081
 HOT INTERSTELLAR MATTER IN THE MAGELLANIC CLOUDS

<i>Period</i>	<i>Obligations</i>	
08/08/1994-08/14/1995	FY95:	TOTAL: \$40,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Y H CHU	GSFC/D WEST	11-Astronomy

NAG 5-2112 University of Illinois at Urbana-Champaign 4075
 A NEW SNR CANDIDATE HIDDEN IN THE LUMINOUS HII REG ION N 159

<i>Period</i>	<i>Obligations</i>	
10/08/1992-10/31/1994	FY95:	TOTAL: \$7,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Y H CHU	GSFC/D WEST	11-Astronomy

NAG 5-2746 University of Illinois at Urbana-Champaign 4082
 INTERCOMPARISON OF WIND AND TEMPERATURE MEASURED BY UARS AND BY UNIV. OF ILLINOIS NA WIND/TEMP.LIDA

<i>Period</i>	<i>Obligations</i>	
10/06/1994-10/14/1996	FY95: \$124,270	TOTAL: \$124,270
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
X TAO	GSFC/C H JACKMAN	31-Atmos Sci

NAG 5-2201 University of Illinois at Urbana-Champaign 4076
 DEVELOPMENT OF SCALABLE ALGORITHMS FOR NUMERICAL RELATIVITY

<i>Period</i>	<i>Obligations</i>	
02/23/1993-11/30/1995	FY95: \$30,000	TOTAL: \$89,998
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P E SAYLOR	GSFC/J R FISCHER	22-Computer Science
F SAIED		
E SEIDEL		

NAG 5-2925 University of Illinois at Urbana-Champaign 4083
 THEORETICAL STUDIES OF X-RAY AND GAMMA RAY EMISSION BY NEUTRON STARS, WHITE DWARF AND BLACK..

<i>Period</i>	<i>Obligations</i>	
03/22/1995-03/31/1996	FY95: \$90,000	TOTAL: \$90,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F K LAMB	GSFC/D WEST	11-Astronomy

NAG 5-2244 University of Illinois at Urbana-Champaign 4077
 INTELLIGENT COMMAND AND CONTROL SYSTEM FOR SATELLITE GROUND OPERATIONS

<i>Period</i>	<i>Obligations</i>	
04/14/1993-04/14/1996	FY95: \$35,000	TOTAL: \$109,404
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P M JONES	GSFC/A W STOFFEL	22-Computer Science

NAG 5-2973 University of Illinois at Urbana-Champaign 4084
 HOT PLASMA IN THE SUPERGIANT SHELL LMC - 2

<i>Period</i>	<i>Obligations</i>	
06/13/1995-12/31/1996	FY95: \$27,773	TOTAL: \$27,773
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Y CHU	GSFC/N WHITE	12-Chemistry

NAG 5-2245 University of Illinois at Urbana-Champaign 4078
 SUPERNOVA REMNANTS HIDDEN IN SUPERBUBBLES

<i>Period</i>	<i>Obligations</i>	
04/08/1993-04/14/1996	FY95:	TOTAL: \$35,200
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M MACLOW	GSFC/R PETRE	11-Astronomy

NAG 8-976 University of Illinois at Urbana-Champaign 4085
 THE ROLE OF SOLVATION FORCES IN PROTEIN CRYSTALLIZATION IN MICROGRAVITY

<i>Period</i>	<i>Obligations</i>	
06/29/1993-12/31/1995	FY95: \$125,000	TOTAL: \$375,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E B VAN SWOL	MSFC/M PUSEY	43-Chem Engr
C F ZUKOSKI	MSFC/R SNYDER	

NAG 5-2493 University of Illinois at Urbana-Champaign 4079
 PARALLEL MULTISCALE ALGORITHMS FOR ASTROPHYSICAL FLUID DYNAMICS SIMULATIONS

<i>Period</i>	<i>Obligations</i>	
02/04/1994-02/14/1996	FY95: \$30,000	TOTAL: \$60,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M L NORMAN	GSFC/J R FISCHER	22-Computer Science
D B GANNON		

NAGW 1104 University of Illinois at Urbana-Champaign 4086
 MICROPHYSICAL THEORY OF DIFFUSE ASTRONOMICAL ENVIRONMENTS

<i>Period</i>	<i>Obligations</i>	
06/01/1987-06/30/1996	FY95: \$44,000	TOTAL: \$506,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W D WATSON	HQ/F C GILLET	11-Astronomy
	HQ/R V STACHNIK	

NAG 5-2667 University of Illinois at Urbana-Champaign 4080
 ADAPTIVE PARALLEL METHODS FOR REACTIVE FLUID DYNAMICS AND PARTICLE DYNAMICS

<i>Period</i>	<i>Obligations</i>	
08/01/1994-07/31/1996	FY95: \$30,000	TOTAL: \$60,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D BALSARA	GSFC/J R FISCHER	11-Astronomy

NAGW 1131 University of Illinois at Urbana-Champaign 4087
 RADIO ASTRONOMICAL STUDIES OF COMETS

<i>Period</i>	<i>Obligations</i>	
07/01/1987-12/31/1995	FY95: \$50,000	TOTAL: \$441,281
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L E SNYDER	HQ/H C BRINTON	11-Astronomy
	HQ/J H RAHE	

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NAGW 1583 University of Illinois at Urbana-Champaign 4088
STUDIES IN THEORETICAL X-RAY ASTRONOMY
Period Obligations
02/14/1989-04/30/1995 FY95: TOTAL: \$672,000
Prin. Invest. NASA Tech. Officer CASE Category
F K LAMB HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAGW 4387 University of Illinois at Urbana-Champaign 4095
ASSESSING THE ROLE OF COUPLING BETWEEN CHEMISTRY AND CLIMATE
Period Obligations
04/06/1995-12/31/1997 FY95: \$90,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
D J WUEBBLES HQ/J A KAYE 31-Atmos Sci
HQ/R A SCHIFFER

NAGW 1729 University of Illinois at Urbana-Champaign 4089
DYNAMICS OF STRATOSPHERIC PLANETARY WAVES
Period Obligations
03/27/1989-02/28/1996 FY95: TOTAL: \$296,564
Prin. Invest. NASA Tech. Officer CASE Category
W A ROBINSON HQ/R D MCPETERS 31-Atmos Sci
HQ/M J PRATHER

NAGW 4519 University of Illinois at Urbana-Champaign 4096
A COMPREHENSIVE INVESTIGATION OF THE STRUCTURING OF THE INTERSTELLAR MEDIUM BY MASSIVE STARS
Period Obligations
06/16/1995-04/30/1996 FY95: \$60,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
Y CHU HQ/G R RIEGLER 11-Astronomy

NAGW 2299 University of Illinois at Urbana-Champaign 4090
SEARCH FOR INTERSTELLAR AND CIRCUMSTELLAR MOLECULES OF POSSIBLE BIOLOGICAL SIGNIFICANCE
Period Obligations
05/21/1991-10/31/1995 FY95: \$19,999 TOTAL: \$139,975
Prin. Invest. NASA Tech. Officer CASE Category
L E SNYDER HQ/J A NUTH 19-Phys Sci, NEC

NAGW 4724 University of Illinois at Urbana-Champaign 4097
DETERMINATION OF AN INFRARED REFERENCE FRAME
Period Obligations
08/28/1995-08/31/1997 FY95: \$34,135 TOTAL: \$34,135
Prin. Invest. NASA Tech. Officer CASE Category
E C SUTTON HQ/R A STACHNIK 11-Astronomy

NAGW 2421 University of Illinois at Urbana-Champaign 4091
THEORETICAL PREDICTION OF MULTI-FREQUENCY EMISSION FROM NOVAE IN OUTBURST
Period Obligations
04/19/1991-12/31/1994 FY95: TOTAL: \$339,913
Prin. Invest. NASA Tech. Officer CASE Category
J W TRURAN HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAS 1-19950 University of Illinois at Urbana-Champaign 4098
SCIENCE SUPPORT TO THE LITE SCIENCE TEAM
Period Obligations
05/19/1993-05/18/1996 FY95: \$60,000 TOTAL: \$166,137
Prin. Invest. NASA Tech. Officer CASE Category
C S GARDNER LARC/G L MADDREA 31-Atmos Sci

NAGW 2554 University of Illinois at Urbana-Champaign 4092
NAGW-2554/UNIV ILLINOIS/ARCHAEBACTERIA AND THE EVOLUTION OF THE CELL
Period Obligations
06/10/1991-12/31/1995 FY95: \$258,541 TOTAL: \$602,920
Prin. Invest. NASA Tech. Officer CASE Category
C R WOESE HQ/J D RUMMEL 51-Biological Sci

NAS 1-19957 University of Illinois at Urbana-Champaign 4099
SAGE II SCIENTIFIC INVESTIGATIONS
Period Obligations
05/13/1993-05/12/1996 FY95: TOTAL: \$135,000
Prin. Invest. NASA Tech. Officer CASE Category
N SONG LARC/G L MADDREA 31-Atmos Sci
LARC/M P MC CORMAC

NAGW 3541 University of Illinois at Urbana-Champaign 4093
THERMAL HISTORY AND MANTLE DYNAMICS OF VENUS
Period Obligations
04/21/1993-03/13/1996 FY95: TOTAL: \$59,500
Prin. Invest. NASA Tech. Officer CASE Category
A T HSUI HQ/J T BERGSTRALH 32-Geological Sci

NCA 2-833 University of Illinois at Urbana-Champaign 4100
DESIGN OPTIMIZATION OF MULTI-ELEMENT AIRFOILS WITH THE NAVIER-STOKES EQUATIONS
Period Obligations
08/16/1993-08/19/1995 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
K D LEE ARC/S E ROGERS 41-Aero Engr

NAGW 4244 University of Illinois at Urbana-Champaign 4094
SUPPORT FOR LARGE DATA SETS IN EOSDIS
Period Obligations
01/31/1995-12/31/1995 FY95: \$392,007 TOTAL: \$392,007
Prin. Invest. NASA Tech. Officer CASE Category
M FOLK HQ/R S MCGINNIS 22-Computer Science

NCC 2-5022 University of Illinois at Urbana-Champaign 4101
SIMPLIFIED MICROMECHANICS MODELS FOR DUCTILE CRACK GROWTH WITH EXPLICIT LENGTH SCALES
Period Obligations
12/21/1993-12/31/1995 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
R ARC/T L PANONTIN 49-Engr, NEC

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NCC 2-5126 University of Illinois at Urbana-Champaign 4102
 MODELING OF DUCTILE CRACK GROWTH IN THREE-DIMENSIONAL INCLUDING THERMAL LOAD EFFECTS
Period Obligations
 04/14/1995-04/15/1997 FY95: \$39,881 TOTAL: \$39,881
Prin. Invest. NASA Tech. Officer CASE Category
 R H DODDS JR. ARC/R HAMPTON 44-Civil Engr

NCC 3-408 University of Illinois at Urbana-Champaign 4103
 THE EFFECTS OF THE CRITICAL INCE ACRETION OF AIRFOIL AND WING PERFORMANCE
Period Obligations
 01/24/1995-01/23/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 M S SELIG LERC/J SHIN 41-Aero Engr
 M B BRAGG

NCC 5-106 University of Illinois at Urbana-Champaign 4104
 DIGITAL LIBRARY
Period Obligations
 09/22/1994-09/22/1997 FY95: \$709,000 TOTAL: \$762,000
Prin. Invest. NASA Tech. Officer CASE Category
 M FOLK GSFC/N LAL 99-Multi-Discip

NGT 00-030-112 University of Illinois at Urbana-Champaign 4105
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/02/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J W WEATHERLY HQ/G ASRAR 99-Multi-Discip
 HQ/D M BUTLER

NGT 00-040-017 University of Illinois at Urbana-Champaign 4106
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
 04/03/1991-01/31/1998 FY95: \$447,630 TOTAL: \$1,915,630
Prin. Invest. NASA Tech. Officer CASE Category
 K R SIVIER HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-050-743 University of Illinois at Urbana-Champaign 4107
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 B W WAH HQ/F C OWENS 22-Computer Science

NGT 00-050-833 University of Illinois at Urbana-Champaign 4108
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/02/1991-08/20/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R K IYER HQ/F C OWENS 22-Computer Science

NGT 00-050-873 University of Illinois at Urbana-Champaign 4109
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/07/1992-06/30/1995 FY95: \$5,332 TOTAL: \$71,332
Prin. Invest. NASA Tech. Officer CASE Category
 D GOLDBERG JSC/S GOLDSTEIN 22-Computer Science

NGT 00-051-023 University of Illinois at Urbana-Champaign 4110
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/05/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D A REED ARC/M MOORE 22-Computer Science

NGT 00-051-051 University of Illinois at Urbana-Champaign 4111
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/19/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M B BRAGG LERC/F MONTEGANI 41-Aero Engr

NGT 00-051-064 University of Illinois at Urbana-Champaign 4112
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/01/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 F B VAN SWOL HQ/B CARPENTER 43-Chem Engr

NGT 00-051-251 University of Illinois at Urbana-Champaign 4113
 GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 08/18/1994-06/30/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D PADUA HQ/P SMITH 22-Computer Science

NGT 00-051-339 University of Illinois at Urbana-Champaign 4114
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/29/1994-07/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 B W WAH ARC/M MOORE 45-Elec Engr

NGT 00-051-360 University of Illinois at Urbana-Champaign 4115
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A J PEARLSTEIN HQ/G A LESANE 46-Mech Engr

NGT 00-051-388 University of Illinois at Urbana-Champaign 4116
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/16/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 W D WASTON HQ/D HOLLAND 13-Physics

**NASA'S UNIVERSITY PROGRAM
ILLINOIS (Continued)**

NGT 00-051-392 University of Illinois at Urbana-Champaign 4117

GSRP
Period *Obligations*
 07/31/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A J PEARLSTEIN HQ/G LESANE 46-Mech Engr

NGT 00-051-399 University of Illinois at Urbana-Champaign 4118

GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/26/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D A REED JPL/C HICKS 22-Computer Science

NGT 00-070-292 University of Illinois at Urbana-Champaign 4119

NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
 11/27/1992-12/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S P VANKA HQ/P HUNTER 46-Mech Engr

NGT 00-070-374 University of Illinois at Urbana-Champaign 4120

NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
 08/22/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R B HABER HQ/D K RUSSELL 46-Mech Engr

NGT 00-090-062 University of Illinois at Urbana-Champaign 4121

THE ALLIANCE FOR SUCCESS AND NASA SUMMER RESEARCH OPPORTUNITIES PROGRAM
Period *Obligations*
 05/21/1992-12/31/1995 FY95: \$64,130 TOTAL: \$230,949
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J E GIRVES HQ/D K RUSSELL 99-Multi-Discip

NGT 1-52104 University of Illinois at Urbana-Champaign 4122

GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
Period *Obligations*
 06/26/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M C BIGGS LARC/C H ELDRED 42-Astro Engr

NGT 3-52308 University of Illinois at Urbana-Champaign 4123

GRADUATE STUDENT RESEACHERS PROGRAM
Period *Obligations*
 07/25/1995-09/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M B BRAGG LERC/L SHAW 46-Mech Engr

NGT 5-12 University of Illinois at Urbana-Champaign 4124

TUNABLE MULTIPLE WAVELENGTH SEMICONDUCTOR LASERS FOR OPTICAL REMOTE SENSING SYSTEMS
Period *Obligations*
 07/11/1995-07/14/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G C PAPAN GSFC/G A SOFFEN 42-Astro Engr
 GSFC/M A KRAINAK

NGT 9-4 University of Illinois at Urbana-Champaign 4125

ADAPTION OF GENETIC ALGORITHMS TO NOISY ENVIRONMEN TS
Period *Obligations*
 05/31/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D E GOLDBERG JSC/D G RICKORES 22-Computer Science

NAG 8-1207 Western Illinois University 4126

JOVE
Period *Obligations*
 09/25/1994-02/31/1998 FY95: \$13,304 TOTAL: \$13,304
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L H TICHENOR MSFC/D SIX 99-Multi-Discip

INDIANA

NAG 5-2501 Ball State University 4127

ULTRAVIOLET OBSERVATIONS OF THE CATAclysmic VARIABLE UU AQR
Period *Obligations*
 02/08/1994-02/14/1995 FY95: TOTAL: \$2,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R H KAITCHUCK GSFC/D WEST 11-Astronomy

NAG 5-1734 Indiana State University 4129

EVIDENCE IN PALAEOOLAKE SHORELINES FOR THE NEOTECTONICS OF THE ALTIPLANO
Period *Obligations*
 08/13/1991-08/14/1995 FY95: TOTAL: \$152,427
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S DE SILVA GSFC/B G BILLS 32-Geological Sci

NAG13-34 Indiana State University 4130

REMOTE SENSING TECHNOLOGY TRANSFER TO GRADES K-12 WITH A FOCUS ON PREPARATION FOR SSTP INITIATIVE
Period *Obligations*
 09/22/1995-09/30/1996 FY95: \$222,752 TOTAL: \$222,752
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D MAUSEL SSC/B DAVIS 31-Atmos Sci

NAG 8-266 Earlham College 4128

JOVE
Period *Obligations*
 12/30/1992-04/17/1995 FY95: TOTAL: \$66,250
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R HIRELY MSFC/F SIX 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
INDIANA (Continued)**

NAG 5-1394 Indiana University - Bloomington 4135
HIGH RESOLUTION GAMMA-RAY ASTRONOMY RESEARCH/ANALY.
Period *Obligations*
05/21/1990-08/14/1994 FY95: TOTAL: \$187,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D FRIESEL GSFC/N GEHRELS 13-Physics

NAG 5-1941 Indiana University - Bloomington 4136
APPLICATION OF GLOBAL POSITIONING SYSTEM MEASUREMENTS TO CONTINENTAL COLLISION IN THE PAMIR-TIEN.
Period *Obligations*
03/12/1992-03/31/1996 FY95: \$70,000 TOTAL: \$248,100
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M W HAMBURGER GSFC/B G BILLS 11-Astronomy

NAG 5-2781 Indiana University - Bloomington 4137
SIMULATIONS OF GLOBULAR CLUSTER, GALACTIC NUCLEUS, AND GALAXY CLUSTER DYNAMICAL EVOLUTION
Period *Obligations*
11/07/1994-01/14/1997 FY95: \$192,800 TOTAL: \$192,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H N COHN GSFC/D WEST 11-Astronomy

NAGW 1035 Indiana University - Bloomington 4138
SUPERCONDUCTING MAGNET INSTRUMENT
Period *Obligations*
02/15/1987-11/30/1995 FY95: \$120,000 TOTAL: \$890,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R M HEINZ HQ/M M MELLOTT 13-Physics
HQ/W V JONES

NAGW 1940 Indiana University - Bloomington 4139
ISOTOPIC BIOGEOCHEMISTRY
Period *Obligations*
04/27/1990-01/31/1995 FY95: \$149,860 TOTAL: \$799,912
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M HAYES HQ/J D RUMMEL 32-Geological Sci

NAGW 2400 Indiana University - Bloomington 4140
NAGW-2400/INDIANA UNIV/SIMULATIONS OF GLOBULAR CLUSTER AND GALACTIC NUCLEUS DYNAMICAL EVOLUTION
Period *Obligations*
03/07/1991-01/31/1995 FY95: TOTAL: \$236,467
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H N COHN HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 3399 Indiana University - Bloomington 4141
NUMERICAL 3D SIMULATIONS OF GRAVITATIONAL INSTABILITIES IN PROTOSTELLAR DISKS AND THE NEBULA
Period *Obligations*
03/15/1993-02/28/1996 FY95: \$41,426 TOTAL: \$121,878
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R DURISON HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3404 Indiana University - Bloomington 4142
PETROLOGIC EVOLUTION OF LUNAR AND METEORITE PARENT BODY REGOLITH
Period *Obligations*
02/23/1993-02/28/1997 FY95: \$29,355 TOTAL: \$89,610
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A BASU HQ/H C BRINTON 32-Geological Sci

NAGW 3718 Indiana University - Bloomington 4143
TECHNOLOGY DEVELOPMENT FOR HIGH RESOLUTION GAMMA-RAY SPECTROSCOPY
Period *Obligations*
10/22/1993-04/30/1996 FY95: \$100,000 TOTAL: \$200,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D FRIESEL HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAGW 4587 Indiana University - Bloomington 4144
SIMULATIONS OF BALLISTIC TRANSPORT IN SATURN'S RING
Period *Obligations*
07/06/1995-04/30/1996 FY95: \$31,896 TOTAL: \$31,896
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R DURISEN HQ/H BRINTON 32-Geological Sci

NAGW 4638 Indiana University - Bloomington 4145
MODULATION OF BONE REMODELLING VIA MECHANICALLY ACTIVATED ION CHANNELS
Period *Obligations*
07/11/1995-06/30/1998 FY95: \$139,212 TOTAL: \$139,212
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R L DUNCAN HQ/V THORNE 59-Life Sci, NEC

NAGW 4730 Indiana University - Bloomington 4146
MECHANISM OF PHYTOCHROME REGULATION OF SHOOT GRAVITROPISM IN ARABIDOPSIS
Period *Obligations*
09/05/1995-06/30/1997 FY95: \$82,000 TOTAL: \$82,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D P HANGARTER HQ/V SCHEIDER 43-Chem Engr
HQ/V THORNE

NCC 2-870 Indiana University - Bloomington 4147
SPACELIGHT EFFECTS ON MAMMALIAN DEVELOPMENT
Period *Obligations*
07/11/1994-05/31/1996 FY95: \$291,432 TOTAL: \$589,505
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R ALBERTS ARC/D A REISS-BUBENHIEM 51-Biological Sci
A RONCA ARC/C M WINGET

NGT 00-030-125 Indiana University - Bloomington 4148
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/30/1992-08/31/1996 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K L LECKRONE HQ/G ASRAR 32-Geological Sci
HQ/D M BUTLER

NGT 00-030-248 Indiana University - Bloomington 4149
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
09/22/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E E MORAN HQ/A C JANETOS 39-Env Sci, NEC
HQ/G ASRAR

NGT 00-051-403 Indiana University - Bloomington 4150
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/30/1995-08/27/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
V E VIOLA HQ/D HOLLAND 13-Physics

**NASA'S UNIVERSITY PROGRAM
INDIANA (Continued)**

NAG 2-756 Indiana Univ.-Purdue U. at Indianapolis 4131
CELL KINETICS AND HISTOMORPHOMETRIC ANALYSIS OF MICROGRAVITATIONAL OSTEOPENIA: (PARE.02B)
Period *Obligations*
01/31/1992-07/31/1996 FY95: TOTAL: \$379,777
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W E ROBERTS ARC/C M WINGET 51-Biological Sci
L P GARETTO ARC/P X CALLAHAN

NAG 1-157 Purdue University 4155
INTERACTIVE AIRCRAFT FLIGHT CONTROL AND AEROELASTIC STABILIZATION
Period *Obligations*
02/26/1981-10/30/1996 FY95: \$68,615 TOTAL: \$800,393
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T A WEISSHAAR LARC/R C SCOTT 41-Aero Engr
D K SCHMIDT

NAG 3-1577 Indiana Univ.-Purdue U. at Indianapolis 4132
PARALLEL COMPUTATION OF UNSTEADY FLOWS ON AN NETWORK OF WORKSTATIONS
Period *Obligations*
02/28/1994-01/09/1996 FY95: \$80,000 TOTAL: \$160,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A E CER LERC/R A BLECH 41-Aero Engr

NAG 1-372 Purdue University 4156
COMPUTATIONAL UNSTEADY AERODYNAMICS AND AEROELASTICITY
Period *Obligations*
06/15/1983-07/31/1994 FY95: TOTAL: \$505,909
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H T YANG LARC/J W EDWARDS 41-Aero Engr
M WILLIAMS LARC/J T BATINA
T A WEISSHAAR

NAG 3-1657 Indiana Univ.-Purdue U. at Indianapolis 4133
DINI-FEST
Period *Obligations*
07/22/1994-07/21/1995 FY95: \$5,000 TOTAL: \$5,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G D ROSENBERG LERC/G ANZIC 32-Geological Sci

NAG 1-1133 Purdue University 4157
A QUEIT FLOW LUDWIG TUBE FOR STUDY OF TRANSITION IN COMPRESSIBLE BOUNDARY LAYERS.
Period *Obligations*
05/07/1990-12/31/1994 FY95: TOTAL: \$91,323
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S P SCHNEIDER LARC/T OWENS 41-Aero Engr

NCC 2-594 Indiana Univ.-Purdue U. at Indianapolis 4134
CELL KINETIC AND HISTOMORPHOMETRIC ANALYSIS OF MICROGRAVITATIONAL OSTEOPENIA
Period *Obligations*
03/15/1989-06/30/1996 FY95: TOTAL: \$530,742
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W E ROBERTS ARC/E M HOLTON 51-Biological Sci

NAG 1-1201 Purdue University 4158
HOT FILM WALL SHEAR INSTRUMENTATION FOR COMPRESSIBLE BOUNDARY LAYER TRANSITION RESEARCH
Period *Obligations*
12/04/1990-03/31/1994 FY95: TOTAL: \$29,771
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S P SCHNEIDER LARC/D L GRAY 41-Aero Engr
LARC/M A SCOTT

NAG 5-2612 Indiana University - South Bend 4151
MONITORING THE MOST MASSIVE STARS 2) MAGNETICALLY CONTROLLED CIRCUMSTELLAR MATTER AMONG
Period *Obligations*
06/13/1994-05/31/1996 FY95: TOTAL: \$47,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S N SHORE GSFC/D WEST 11-Astronomy

NAG 1-1306 Purdue University 4159
SELECTING SENSORS AND ACTUATORS AND OPTIMIZING STRUCTURES FOR CONTROL DESIGN
Period *Obligations*
08/02/1991-07/31/1994 FY95: TOTAL: \$119,905
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E SKELTON LARC/P A COOPER 42-Astro Engr
L D PETERSON LARC/J R NEWSOM

NGT 00-051-172 Indiana University - South Bend 4152
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/06/1993-10/31/1994 FY95: TOTAL: \$15,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A E CER HQ/P HUNTER 45-Elec Engr

NAG 1-1323 Purdue University 4160
MODELLING DAMAGE PROGRESSION IN COMPOSITE LAMINATE D STRUCTURES
Period *Obligations*
08/06/1991-05/31/1996 FY95: \$44,501 TOTAL: \$229,866
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C T SUN LARC/J T WANG 46-Mech Engr
LARC/J M HOUSNER

NCC 3-317 Manchester College 4153
INTERCALATION OF GRAPHITE FIBERS FOR SPACE POWER APPLICATIONS
Period *Obligations*
09/01/1993-10/28/1995 FY95: TOTAL: \$65,148
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E G MILLER LERC/C HUNG 12-Chemistry

NAG 1-58 Purdue University 4154
STUDY OF METHOD TO PREDICT AND MEASURE TRANSMISSION OF SOUND THROUGH WALLS OF LIGHT AIRCRAFT
Period *Obligations*
03/31/1980-06/30/1994 FY95: TOTAL: \$1,104,979
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J BERNHARD LARC/R J SILCOX 41-Aero Engr
LARC/C A POWELL

NAG 1-1366 Purdue University 4161
RATE-DEPENDENT CONSTITUTIVE MODELS FOR HIGH TEMPERATURE POLYMER COMPOSITES UNDER CYCLIC LOADING
Period *Obligations*
01/17/1992-09/08/1995 FY95: TOTAL: \$144,634
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C T SUN LARC/T S GATES 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
INDIANA (Continued)**

NAG 1-1473 **Purdue University** **4162**
SHAPE OPTIMIZATION IN A DISTRIBUTED AND COLLABORATIVE
MODELLING ENVIRONMENT
Period *Obligations*
01/22/1993-01/07/1995 FY95: TOTAL: \$30,560
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C BAJAJ LARC/R E SMITH 22-Computer Science
LARC/J J LAMBIOTTE

NAG 2-1001 **Purdue University** **4170**
HYPOGRAVITY'S EFFECT ON THE LIFE CYCLE OF JAPANESE
QUAIL
Period *Obligations*
08/23/1995-05/31/1996 FY95: \$55,007 TOTAL: \$55,007
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P Y HESTER ARC/C M WINGET 51-Biological Sci
ARC/G C JAHNS

NAG 1-1509 **Purdue University** **4163**
EVALUATION OF SUBGRID-SCALE MODELS FOR LARGE EDDY
SIMULATION OF COMPRESSIBLE TURBULENT FLOWS
Period *Obligations*
05/06/1993-11/05/1995 FY95: \$9,795 TOTAL: \$48,594
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A BLAISDELL LARC/T B GATSKI 41-Aero Engr

NAG 3-481 **Purdue University** **4171**
DYNAMIC PERFORMANCE OF HIGH BYPASS RATIO TURBINE
ENGINES WITH WATER INGESTION
Period *Obligations*
10/26/1983-09/30/1995 FY95: TOTAL: \$598,704
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S N MURTHY LERC/R J STEINKE 41-Aero Engr

NAG 1-1526 **Purdue University** **4164**
FATIGUE CRACK GROWTH IN PANELS UNDER AEROACOUSTIC
RANDOM LOADING NLPN 93-427
Period *Obligations*
08/03/1993-08/02/1995 FY95: TOTAL: \$29,218
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J F DOYLE LARC/S A RIZZI 41-Aero Engr

NAG 3-499 **Purdue University** **4172**
AEROELASTICITY OF ADVANCED TURBOPROPS USING 3-D
UNSTEADY AERODYNAMICS
Period *Obligations*
12/05/1985-03/27/1995 FY95: TOTAL: \$631,965
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M H WILLIAMS LERC/G L STEFKO 41-Aero Engr
LERC/L J KIRALY

NAG 1-1601 **Purdue University** **4165**
DEVELOPMENT OF A METHODOLOGY FOR ANALYZING PROPULS
ION SYSTEM EFFECTIVENESS OVER A TRAJECTORY
Period *Obligations*
03/14/1994-03/14/1996 FY95: \$10,000 TOTAL: \$60,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S N MURTHY LARC/J P WEIDNER 41-Aero Engr
LARC/G Y ANDERSON

NAG 3-656 **Purdue University** **4173**
3-D UNSTEADY AERODYNAMIC AND AEROELASTICITY OF
ADVANCED TURBOPROPS
Period *Obligations*
11/11/1985-11/30/1994 FY95: TOTAL: \$891,468
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P S FLEETER LERC/D HOYNIK 41-Aero Engr

NAG 1-1607 **Purdue University** **4166**
SUPERSONIC QUIET TUNNEL DEVELOPMENT FOR LAMINAR
TURBULENT TRANSITION RESEARCH
Period *Obligations*
02/25/1994-02/24/1995 FY95: TOTAL: \$41,281
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S P SCHNEIDER LARC/S P WILKINSON 41-Aero Engr

NAG 3-1038 **Purdue University** **4174**
MEAS OF SPECIES CONCT AND TEMP IN AXISSYM FLAMES BY
LASER-INDUCED FLOURESCENCE
Period *Obligations*
05/03/1989-01/17/1996 FY95: \$100,425 TOTAL: \$1,013,635
Prin. Invest. *NASA Tech. Officer* *CASE Category*
N M LAURENDEAU LERC/Y R HICKS 49-Engr, NEC

NAG 1-1660 **Purdue University** **4167**
USE OF KIRCHHOFF'S METHOD IN JET AEROACOUSTICS MY 1/3
Period *Obligations*
12/21/1994-10/14/1995 FY95: \$44,400 TOTAL: \$44,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A S LYRINTZIO LARC/K R MENDOWS 41-Aero Engr

NAG 3-1207 **Purdue University** **4175**
ACTIVE SUPPRESSION OF AERODYNAMIC INSTABILITIES IN
CENTRIFUGAL COMPRESSORS
Period *Obligations*
09/14/1990-11/30/1994 FY95: TOTAL: \$170,316
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S FLEETER LERC/L F SCHUMANN 41-Aero Engr

NAG 1-1749 **Purdue University** **4168**
APPLICATION OF THE SPECTRAL ELEMENT METHOD TO INTERIOR
NOISE PROBLEMS
Period *Obligations*
08/11/1995-08/10/1996 FY95: \$25,602 TOTAL: \$25,602
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J F DOYLE LARC/S A RIZZI 41-Aero Engr

NAG 3-1291 **Purdue University** **4176**
SUPPORT OF THE 10TH NATIONAL SYMPOSIUM OF AIR BREA THING
ENGINES
Period *Obligations*
07/31/1991-02/21/1997 FY95: \$5,000 TOTAL: \$14,992
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S N MURTHY LERC/D N BOWDITCH 41-Aero Engr

NAG 2-854 **Purdue University** **4169**
HIGH-LIFT AERODYNAMICS
Period *Obligations*
07/16/1993-02/29/1996 FY95: \$50,000 TOTAL: \$129,783
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J P SULLIVAN ARC/L L ERICKSON 41-Aero Engr
S P SCHNEIDER ARC/D J KOGA

NAG 3-1336 **Purdue University** **4177**
CARBON DIOXIDE CONVERSION: AN INTERGRATED APPROACH TO
IN SITU RESOURCE UTILI FOR A MANNED MARS MISS
Period *Obligations*
03/30/1992-03/31/1994 FY95: TOTAL: \$35,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C P KUBIAK LERC/A F HEPP 12-Chemistry
D A MORGENSTERN

**NASA'S UNIVERSITY PROGRAM
INDIANA (Continued)**

NAG 3-1629 **Purdue University** **4178**
 TECHNICAL SUPPORT FOR THE PUBLICATION OF THE AEROS PACE
 STRUCTURAL METALS HANDBOOK
Period *Obligations*
 06/24/1994-03/19/1996 FY95: \$42,000 TOTAL: \$59,485
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H MINDLIN LERC/J R REAGAN 47-Materials Engr

NAG 8-918 **Purdue University** **4186**
 SATELLITE MICROWAVE STUDIES OF EXPLOSIVE CYCLO- GENESIS
Period *Obligations*
 07/06/1992-04/30/1995 FY95: TOTAL: \$165,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G W PETTY MSFC/W M LAPENTA 31-Atmos Sci

NAG 3-1730 **Purdue University** **4179**
 3-D UNSTEADY AERODYNAMICS AND AEROELASTICITY OF AD
 VANCED TURBOPROPS
Period *Obligations*
 02/01/1995-01/31/1996 FY95: \$115,151 TOTAL: \$115,151
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S FLEETER LERC/D H BUFFUM 41-Aero Engr

NAG 8-1031 **Purdue University** **4187**
 RAINFALL RATE AND VERTICAL DISTRIBUTION OF DIABATIC
 HEATING COMPONENTS OVER TROPICAL OCEANS
Period *Obligations*
 08/20/1993-08/31/1994 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D G VINCENT MSFC/J W KAUFMAN 31-Atmos Sci

NAG 3-1766 **Purdue University** **4180**
 HIGH REYNOLDS NUMBER EXPERIMENTS ON BYPASS DUCT AN D
 STRICT FLOWS
Period *Obligations*
 07/14/1995-07/13/1996 FY95: \$51,410 TOTAL: \$51,410
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S H COLLICOTT LERC/K J KACYNKI 41-Aero Engr
 J P SULLIVAN

NAG 8-1147 **Purdue University** **4188**
 BIOLOGICAL PARTICLE SEPARATION IN LOW GRAVITY
Period *Obligations*
 08/03/1995-08/02/1996 FY95: \$144,308 TOTAL: \$144,308
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J MORRE MSFC/L KARR 51-Biological Sci

NAG 5-1514 **Purdue University** **4181**
 COINCIDENT OBSERVATIONS BETWEEN GRO AND GROUND-BAS
 ED VHE GAMMA RAY TELESCOPES
Period *Obligations*
 03/27/1991-10/31/1993 FY95: TOTAL: \$45,953
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G H SEMBROSKI GSFC/J P NORRIS 11-Astronomy
 GSFC/D A KNIFFEN

NAGW 2329 **Purdue University** **4189**
 BIOMASS PRODUCTIVITY AND SUSTAINABILITY OF BIOREG
 NERATIVE LIFE SUPPORT SYSTEMS
Period *Obligations*
 04/11/1991-11/14/1995 FY95: \$1,055,000 TOTAL: \$5,039,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A MITCHELL HQ/R J WHITE 59-Life Sci, NEC

NAG 5-2391 **Purdue University** **4182**
 PSR 0656+14: A COOLING NEUTRON STAR
Period *Obligations*
 10/13/1993-10/14/1995 FY95: TOTAL: \$35,060
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J P FINLEY GSFC/R OLIVERSEN 11-Astronomy

NAGW 2984 **Purdue University** **4190**
 SSM/I OCEANIC RAINFALL VARIABILITY STUDIES
Period *Obligations*
 03/20/1992-03/31/1995 FY95: TOTAL: \$90,548
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G W PETTY HQ/J C DODGE 31-Atmos Sci
 HQ/R A SCHIFFER

NAG 5-2492 **Purdue University** **4183**
 OBSERVATIONS OF PULSATING EARLY B STARS: A SEARCH FOR
 X-RAY VARIABILITY
Period *Obligations*
 02/03/1994-08/14/1996 FY95: TOTAL: \$32,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J P FINLEY GSFC/R PETRE 11-Astronomy

NAGW 3019 **Purdue University** **4191**
 LABORATORY STUDIES OF C4H2 AND NITRILE PHOTOCHEMIS TRY
Period *Obligations*
 03/20/1992-02/28/1996 FY95: \$40,000 TOTAL: \$190,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T S ZWIER HQ/H C BRINTON 11-Astronomy

NAG 5-2742 **Purdue University** **4184**
 VELA-LIKE PULSARS: A BRIDGE BETWEEN YOUNG AND OLD
Period *Obligations*
 10/06/1994-04/14/1996 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J FINLEY GSFC/N WHITE 11-Astronomy

NAGW 3150 **Purdue University** **4192**
 NAGW-3150/PURDUE UNIV/THE ANALYSIS OF GLOBAL CLOUD AND
 RADIATION DATA FOR THE STUDY OF CLOUD-CLIMIAT
Period *Obligations*
 08/10/1992-12/31/1995 FY95: \$45,000 TOTAL: \$281,405
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 HARSHVARDHAN HQ/J C DODGE 31-Atmos Sci
 HQ/R A SCHIFFER

NAG 8-915 **Purdue University** **4185**
 CYCLONIC AND ANTICYCLONIC CIRCULATION SYSTEMS
Period *Obligations*
 07/02/1992-06/30/1995 FY95: TOTAL: \$250,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P J SMITH MSFC/J W KAUFMAN 31-Atmos Sci

NAGW 3396 **Purdue University** **4193**
 CHEMICAL STUDIES OF METEORITES
Period *Obligations*
 03/09/1993-02/28/1996 FY95: \$73,500 TOTAL: \$195,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M E LIPSCHUTZ HQ/H C BRINTON 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
INDIANA (Continued)**

NAGW 3460 **Purdue University** **4194**
 NATIONAL FACILITY FOR ACCELERATOR MASS SPECTROMETRY
Period *Obligations*
 03/15/1993-02/28/1994 FY95: TOTAL: \$114,964
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M LIPSCHUTZ HQ/J BOYCE 32-Geological Sci

NAS 3-26940 **Purdue University** **4202**
 MEASUREMENT OF GRAPHITE FIBER REINFORCED MATRIX COMPOSITES
Period *Obligations*
 05/18/1993-09/16/1995 FY95: \$26,410 TOTAL: \$44,810
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R TAYLOR LERC/D ELLIS 47-Materials Engr
 LERC/S M VINCENT

NAGW 3843 **Purdue University** **4195**
 PURDUE UNI. RES. FOUND./ BIOPHYSICAL EVENTS DURING TRANSDUCTION OF MECH. STRESS SIGNALS BY PLANTS
Period *Obligations*
 01/11/1994-04/30/1995 FY95: \$5,000 TOTAL: \$65,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C MITCHELL HQ/T W HALSTEAD 51-Biological Sci

NAS 5-31712 **Purdue University** **4203**
 EOS INVESTIGATION HIRIS PROCESSING AND ANALYSIS RESEARCH
Period *Obligations*
 01/21/1992-06/30/1984 FY95: TOTAL: \$110,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D A LANDGREBE GSFC/H W BLODGET 31-Atmos Sci

NAGW 3862 **Purdue University** **4196**
 TOWARD SOIL SPATIAL INFORMATION SYSTEMS FOR GLOBAL MODELING AND ECOSYSTEM MANAGEMENT
Period *Obligations*
 03/09/1994-12/31/1995 FY95: \$137,915 TOTAL: \$276,216
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M F BAUMGARDNER HQ/G H MUCKLOW 22-Computer Science
 HQ/G ASRAR

NCC 2-5038 **Purdue University** **4204**
 CONVERSION OF SUNFLOWER MULTIBAND RADIOMETER POLARIZATION MEASUREMENTS TO POLARIZATION PARAMETERS
Period *Obligations*
 02/25/1994-02/28/1995 FY95: TOTAL: \$39,314
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L L BIEHL ARC/V C VANDERBILT 39-Env Sci, NEC

NAGW 3924 **Purdue University** **4197**
 RESEARCH ON METHODS FOR ANALYSIS OF MULTISPECTRAL EARTH OBSERVATIONAL DATA
Period *Obligations*
 04/14/1994-01/31/1996 FY95: \$204,431 TOTAL: \$306,906
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D LANDGREBE HQ/D E WICKLAND 39-Env Sci, NEC
 HQ/A C JANETOS

NCC 2-5115 **Purdue University** **4205**
 LASER SCANNING SYSTEM FOR PRESSURE AND TEMPERATURE PAINTS
Period *Obligations*
 01/26/1995-01/31/1996 FY95: \$18,098 TOTAL: \$18,098
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J SULLIVAN ARC/S S DAVIS 41-Aero Engr

NAGW 3944 **Purdue University** **4198**
 PASSIVE MICROWAVE ALGORITHM DEVELOPMENT AND EVALUATION
Period *Obligations*
 04/20/1994-03/31/1997 FY95: \$87,023 TOTAL: \$170,502
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G W PETTY HQ/J C DODGE 31-Atmos Sci
 HQ/R A SCHIFFER

NCC 3-380 **Purdue University** **4206**
 CHARACTERIZATION AT TRANSITION METAL COMPOUND BY X-RAY CRYSTALLOGRAPHY
Period *Obligations*
 12/12/1994-12/11/1995 FY95: \$2,000 TOTAL: \$2,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P E FANWICK LERC/A F HEPP 12-Chemistry

NAGW 4297 **Purdue University** **4199**
 ADVANCED DESIGN PROGRAM
Period *Obligations*
 02/10/1995-12/31/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T A WEISSHAAR HQ/A S MCGEE 49-Engr, NEC
 HQ/G SEIDEL

NGT 00-010-004 **Purdue University** **4207**
 MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP PROGRAM
Period *Obligations*
 10/13/1993-08/31/1995 FY95: TOTAL: \$49,940
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T A WEISSHAAR HQ/G S SEIDEL 41-Aero Engr
 HQ/J R FACEY

NAG10-112 **Purdue University** **4200**
 BIOPHICAL EVENTS DURING EARLY TRANSDUCTION OF MECHANICAL STRESS SIGNALS BY PLANTS
Period *Obligations*
 08/07/1992-04/03/1996 FY95: \$55,655 TOTAL: \$135,941
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M OKOS KSC/W M KNOTT 51-Biological Sci

NGT 00-040-025 **Purdue University** **4208**
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period *Obligations*
 04/25/1991-02/28/1996 FY95: \$170,000 TOTAL: \$772,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A F GRANDT HQ/E T SCHWARTZ 99-Multi-Discip

NAS 1-20270 **Purdue University** **4201**
 BOUNDARY LAYER CONTROL WINGS
Period *Obligations*
 08/15/1994-08/15/1995 FY95: TOTAL: \$99,817
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J R SULLIVAN LARC/H D FUHRMAN 41-Aero Engr

NGT 00-050-708 **Purdue University** **4209**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 05/10/1991-05/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E N HOUSTIS HQ/F C OWENS 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
INDIANA (Continued)**

NGT 00-050-711	Purdue University	4210
NASA GRADUATE STUDENT RESEARCHERS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
07/24/1991-10/31/1994	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J S BOLTON	HQ/F C OWENS	46-Mech Engr
NGT 00-051-284	Purdue University	4219
GRADUATE STUDENT RESEARCHERS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
06/07/1994-06/30/1997	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B BHARGAVA	HQ/D HOLLAND	22-Computer Science
NGT 00-050-717	Purdue University	4211
NASA GRADUATE STUDENT RESEARCHERS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
05/10/1991-12/31/1994	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B HILLBERRY	HQ/F C OWENS	46-Mech Engr
NGT 00-070-279	Purdue University	4220
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
07/13/1992-07/31/1994	FY95:	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S FLEETER	LERC/F MONTEGANI	46-Mech Engr
NGT 00-050-779	Purdue University	4212
NASA GRADUATE STUDENT RESEARCHERS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
06/25/1991-06/30/1994	FY95:	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B BHARGAVA	HQ/F C OWENS	22-Computer Science
NGT 00-070-313	Purdue University	4221
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
06/29/1993-05/31/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R SKELTON	HQ/D K RUSSELL	41-Aero Engr
NGT 00-050-867	Purdue University	4213
NASA GRADUATE STUDENT RESEARCHERS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
03/03/1992-12/14/1995	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L GRAY	LERC/F MONTEGANI	45-Elec Engr
NGT 00-070-378	Purdue University	4222
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
12/12/1994-08/31/1995	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J E BRAUN	HQ/D K RUSSELL	46-Mech Engr
NGT 00-050-937	Purdue University	4214
NASA GRADUATE STUDENT RESEARCHERS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
08/28/1992-07/31/1994	FY95:	TOTAL: \$29,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T J MOFFETT	GSFC/G SOFFEN	13-Physics
NGT 00-090-138	Purdue University	4223
GSRP/UMF		
<i>Period</i>	<i>Obligations</i>	
09/26/1992-08/14/1996	FY95: \$12,000	TOTAL: \$36,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M MARTINEZ	HQ/D K RUSSELL	99-Multi-Discip
NGT 00-050-961	Purdue University	4215
NASA GRADUATE STUDENT RESEARCHERS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
06/22/1992-08/14/1994	FY95:	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H J SIEGEL	HQ/J K ALEXANDER	45-Elec Engr
NGT 00-050-963	Purdue University	4216
NASA GRADUATE STUDENT RESEARCHERS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
07/24/1992-12/31/1994	FY95:	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
HARSHVARDHAN	GSFC/G SOFFEN	11-Astronomy
NGT 00-051-077	Purdue University	4217
GRADUATE STUDENT RESEARCHERS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
06/01/1993-06/30/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G W PETTY	HQ/G LESANE	31-Atmos Sci
NGT 00-051-129	Purdue University	4218
GRADUATE STUDENT RESEARCHERS PROGRAM		
<i>Period</i>	<i>Obligations</i>	
07/14/1993-07/31/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J M LONGUSKI	JPL/C HIX	41-Aero Engr
NGT 4-52400	Purdue University	4224
NEW H-2/H-INFINITY CONTROL SYNTHESIS FOR THE F-18 NEW AWARD		
<i>Period</i>	<i>Obligations</i>	
06/30/1995-06/30/1996	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A E FRAZHO	DFRC/K K GUPTA	41-Aero Engr
NGT 9-2	Purdue University	4225
FAILURE TOLERANT CONTROL SPACE ROBOTIC MANIPULATOR		
<i>Period</i>	<i>Obligations</i>	
05/31/1995-06/30/1996	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A A MACISIAWSKI	JSC/D G RICKORES	45-Elec Engr
NAG 5-2176	Rose-Hulman Institute of Technology	4226
CHARACTERIZATION OF INFRARED DETECTORS		
<i>Period</i>	<i>Obligations</i>	
01/11/1993-01/14/1994	FY95:	TOTAL: \$11,630
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R WAITE	GSFC/D GLENAR	11-Astronomy

**NASA'S UNIVERSITY PROGRAM
INDIANA (Continued)**

NAG 1-1561 University of Notre Dame 4227
 MULTIDISCIPLINARY DESIGN TECHNOLOGY DEVELOPMENT: A
 COMPARATIVE INVESTIGATION OF INTEGRATED AEROSPACE
Period Obligations
 12/20/1993-12/31/1995 FY95: \$175,000 TOTAL: \$371,084
Prin. Invest. NASA Tech. Officer CASE Category
 J E RENAUD LARC/J SORIESKI 41-Aero Engr
 S M BATILL LARC/L L GREEN
 J B BROCKMAN

NAG 2-905 University of Notre Dame 4228
 AN EXPERIMENTAL INVESTIGATION OF THE FLOW FIELD PH YSICS
 OF HIGH-LIFT SYSTEMS
Period Obligations
 05/31/1994-02/29/1996 FY95: \$52,745 TOTAL: \$109,479
Prin. Invest. NASA Tech. Officer CASE Category
 R C NELSON ARC/L L ERICKSON 41-Aero Engr
 F O THOMAS

NAG 3-732 University of Notre Dame 4229
 EFFECTS OF NONUNIFORM FLOWS ON THE AERODYNAMICS AND
 NOISE RADIATION OF ADVANCED TURBOPROPS
Period Obligations
 05/27/1986-02/21/1996 FY95: \$72,178 TOTAL: \$720,919
Prin. Invest. NASA Tech. Officer CASE Category
 H M ATASSI LERC/J F GROENEWEG 41-Aero Engr

NAG 3-1335 University of Notre Dame 4230
 ANALYSIS OF THERMODYNAMICS AND FLUID MECHANICS OF PY
 ROTECH MATERIALS WITH APPL TO THE NASA STAND INIT
Period Obligations
 03/11/1992-07/19/1995 FY95: TOTAL: \$94,516
Prin. Invest. NASA Tech. Officer CASE Category
 J M POWERS LERC/R M STUBBS 42-Astro Engr

NAG 3-1398 University of Notre Dame 4231
 STUDY OF DISTURBANCES IN FLUID-FLUID FLOWS IN OPEN AND
 CLOSED SYSTEMS
Period Obligations
 12/01/1992-11/30/1995 FY95: \$130,172 TOTAL: \$329,859
Prin. Invest. NASA Tech. Officer CASE Category
 M J MCCREADY LERC/J B MCQUILLEN 49-Engr, NEC
 H C CHANG
 D T LEIGHTON

NAG 3-1549 University of Notre Dame 4232
 INTEGRATED SYSTEM DESIGN FOR THE TRANSMISSION OF I MAGE
 DATA OVER LOW BIT RATE NOISY CHANNELS
Period Obligations
 11/30/1993-12/31/1994 FY95: TOTAL: \$50,795
Prin. Invest. NASA Tech. Officer CASE Category
 D J COSTELLO LERC/R L BEXTEN 45-Elec Engr
 Y F HUANG
 R L STEVENSON

NAG 3-1644 University of Notre Dame 4233
 COLLID PHYSICS IN MICROGRAVITY
Period Obligations
 07/11/1994-07/10/1996 FY95: \$100,000 TOTAL: \$229,000
Prin. Invest. NASA Tech. Officer CASE Category
 A VARMA LERC/K A WHITE 47-Materials Engr
 P J MCGINN

NAG 5-557 University of Notre Dame 4234
 ERROR CONTROL TECHNIQUES FOR SATELLITE AND SPACE
 COMMUNICATIONS
Period Obligations
 06/01/1985-02/29/1996 FY95: \$35,000 TOTAL: \$596,820
Prin. Invest. NASA Tech. Officer CASE Category
 D COSTELLO GSFC/W H MILLER 49-Engr, NEC
 GSFC/J C MORAKIS

NAG 5-2998 University of Notre Dame 4235
 PROCESSOR-IN-MEMORY(PIM) BASED ARCHITECTURES FOR PETA
 (FL) OPS POTENTIAL MASSIVELY PARALLEL PROCESS
Period Obligations
 07/11/1995-07/14/1996 FY95: \$59,950 TOTAL: \$59,950
Prin. Invest. NASA Tech. Officer CASE Category
 P M KOGGE GSFC/J R FISCHER 22-Computer Science
 GSFC/J E DORBAND

NAG 8-1064 University of Notre Dame 4236
 Y2BACUO2 SEGREGATION IN YBA2CU307-X DURING MELT
 TEXTURING
Period Obligations
 06/14/1994-06/01/1996 FY95: \$46,138 TOTAL: \$93,383
Prin. Invest. NASA Tech. Officer CASE Category
 P J MCGINN MSFC/E C ETHRIDGE 47-Materials Engr

NAG 8-1080 University of Notre Dame 4237
 OSCILLATORY CROSS-FLOW ELECTOPHORESIS
Period Obligations
 09/01/1994-08/31/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 D T LEIGHTON MSFC/T Y MILLER 12-Chemistry

NAGW 3433 University of Notre Dame 4238
 RELATIVE ABUNDANCE OF ICES IN DISKS OF TAURI STARS
Period Obligations
 03/03/1993-02/28/1995 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 S C TEGLER HQ/J A NUTH 19-Phys Sci, NEC

NAGW 4315 University of Notre Dame 4239
 ADVANCE DESIGN PROGRAM
Period Obligations
 02/16/1995-09/30/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
 S BATILL HQ/A S MCGEE 49-Engr, NEC
 HQ/G SEIDEL

NCA 2-730 University of Notre Dame 4240
 STATIC AND DYNAMIC AERODYNAMIC CHARACTERISTICS OF A
 SUBSCALE X-31 MODEL
Period Obligations
 07/14/1992-11/30/1994 FY95: TOTAL: \$79,912
Prin. Invest. NASA Tech. Officer CASE Category
 R C NELSON ARC/D FISHER 41-Aero Engr

NCA 2-753 University of Notre Dame 4241
 INVESTIGATION AND APPLICATION OF TIME DOMAIN PARAM ETER
 IDENTIF
Period Obligations
 10/23/1992-04/30/1995 FY95: TOTAL: \$72,755
Prin. Invest. NASA Tech. Officer CASE Category
 S M BATILL ARC/L VERNON 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
INDIANA (Continued)**

NCC 1-177 University of Notre Dame 4242
WIND TUNNEL DATA SYSTEM ACCURACY ASSESSMENT
Period Obligations
05/25/1993-03/31/1994 FY95: TOTAL: \$37,009
Prin. Invest. NASA Tech. Officer CASE Category
S M BATILL LARC/L E PUTNAM 41-Aero Engr
LARC/D E FULLER

NCC 2-5056 University of Notre Dame 4243
AN EXPERIMENTAL STUDY OF VERTICLA
Period Obligations
05/19/1994-09/30/1995 FY95: TOTAL: \$39,599
Prin. Invest. NASA Tech. Officer CASE Category
R C NELSON DFRC/D F FISHER 41-Aero Engr

NCC 2-5128 University of Notre Dame 4244
KEY TOPIC FOR HIGH-LIFT RESEARCH
Period Obligations
05/02/1995-04/30/1997 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
R C NELSON DFRC/D FISHER 41-Aero Engr
F O THOMAS

NCC 3-325 University of Notre Dame 4245
ANALYSIS OF FLUID-SOLID RESPONSES IN PARTIALLY CON FINED
DETONATIONS
Period Obligations
09/14/1993-05/31/1996 FY95: \$14,642 TOTAL: \$46,642
Prin. Invest. NASA Tech. Officer CASE Category
J M POWERS LERC/R M STUBBS 42-Astro Engr

NGT 00-030-250 University of Notre Dame 4246
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
09/22/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
R G CARLTON HQ/A C JANETOS 39-Env Sci, NEC
HQ/G ASRAR

NAG 5-1223 Valpariso University 4247
ADP INFRARED STUDY OF TRANSITION LATE ASYMPOMATIC GIANT
Period Obligations
07/27/1989-09/30/1996 FY95: \$20,000 TOTAL: \$144,200
Prin. Invest. NASA Tech. Officer CASE Category
B J HRIVNAK GSFC/D WEST 11-Astronomy

NAG 5-2645 Valpariso University 4248
UV CHROMOSPHERIC ACTIVITY IN COOL, SHORT-PERIOD CO NTACT
BINARIES
Period Obligations
07/12/1994-08/31/1996 FY95: TOTAL: \$7,300
Prin. Invest. NASA Tech. Officer CASE Category
B J HRIVNAK GSFC/D WEST 11-Astronomy

NAG 8-232 Valpariso University 4249
JOVE
Period Obligations
03/17/1992-06/30/1996 FY95: \$20,000 TOTAL: \$108,700
Prin. Invest. NASA Tech. Officer CASE Category
B J HRIVNAK MSFC/F SIX 11-Astronomy
J CARISTI

IOWA

NAG 5-2999 Drake University 4250
MULTIPLE SHELLS AROUND WOLF-RAYET STARS SPACE- BASED
ASTROMETRIC OBSERVING
Period Obligations
07/14/1995-07/31/1996 FY95: \$34,100 TOTAL: \$34,100
Prin. Invest. NASA Tech. Officer CASE Category
A O MARSTON GSFC/D WEST 11-Astronomy

NAG 8-264 Drake University 4251
JOVE
Period Obligations
12/08/1992-05/31/1996 FY95: \$20,000 TOTAL: \$107,250
Prin. Invest. NASA Tech. Officer CASE Category
A MARSTON MSFC/F SIX 99-Multi-Discip
K KOPECKY

NAG 1-1129 Iowa State University 4252
PROTOTYPE EDDY CURRENT SSME HEAT EXCHANGER TUBING
INSPECTION SYSTEM
Period Obligations
04/04/1990-09/30/1993 FY95: TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
W L LORD LARC/M NAMKUNG 45-Elec Engr

NAG 1-1304 Iowa State University 4253
OPTIMAL GUIDANCE AND MISSION DESIGN FOR EARTH-MARS
AEROCAPTURE
Period Obligations
07/12/1991-04/30/1995 FY95: TOTAL: \$165,366
Prin. Invest. NASA Tech. Officer CASE Category
B L PIERSON LARC/W T SUIT 42-Astro Engr
LARC/D D MOERDER

NAG 1-1739 Iowa State University 4254
REAL-TIME SUBOPTIMAL FEEDBACK CONTROL USING
NEIGHBORING OPTIMAL CONTROL
Period Obligations
07/18/1995-10/31/1996 FY95: \$52,000 TOTAL: \$52,000
Prin. Invest. NASA Tech. Officer CASE Category
B L PIERSON LARC/D D MOERDER 42-Astro Engr
LARC/D B PRICE

NAG 2-151 Iowa State University 4255
PROPERTY DELEGATED
Period Obligations
01/01/1982-12/31/1995 FY95: \$28,343 TOTAL: \$214,386
Prin. Invest. NASA Tech. Officer CASE Category
J D IVERSON ARC/B F SMITH 19-Phys Sci, NEC
ARC/J B POLLACK

NAG 2-776 Iowa State University 4256
NUMERICAL COMPUTATION OF THE CHEMICALLY REACTING F LOW
AROUND THE NATIONAL AERO-SPACE PLANE
Period Obligations
04/02/1992-01/31/1995 FY95: TOTAL: \$172,220
Prin. Invest. NASA Tech. Officer CASE Category
J C TANNEHILL ARC/T A EDWARDS 41-Aero Engr
ARC/S L LAWRENCE

**NASA'S UNIVERSITY PROGRAM
IOWA (Continued)**

NAG 2-885 Iowa State University 4257
SPACE LIFE-SUPPORT ENGINEERING PROGRAM
Period Obligations
02/28/1994-04/30/1995 FY95: TOTAL: \$112,315
Prin. Invest. NASA Tech. Officer CASE Category
R C SEAGRAVE ARC/E L PORCE 19-Phys Sci, NEC
ARC/J E FINN

NAG 5-355 Iowa State University 4265
DIAGNOSTIC ANALYSIS OF DIABATIC HEATING AND MAINTENANCE
OF THE THERMAL FIELD IN THE SOUTHERN HEMISP
Period Obligations
08/01/1983-12/31/1994 FY95: TOTAL: \$514,140
Prin. Invest. NASA Tech. Officer CASE Category
T C CHEN GSFC/J W PFAENDTNER 31-Atmos Sci

NAG 2-909 Iowa State University 4258
STATISTICAL SENSOR VALIDATION IN LIFE SUPPORT SYST EMS
Period Obligations
06/21/1994-06/30/1995 FY95: \$73,231 TOTAL: \$147,391
Prin. Invest. NASA Tech. Officer CASE Category
D K ROLLINS ARC/C K FINN 43-Chem Engr
ARC/H W JONES

NAG 5-707 Iowa State University 4266
OBSERVATIONS OF THE BRIGHTEST NORMAL M-TYPE MICA
VARIABLES
Period Obligations
09/01/1985-01/31/1995 FY95: TOTAL: \$224,447
Prin. Invest. NASA Tech. Officer CASE Category
L A WILLSON GSFC/Y KONDO 11-Astronomy
E BRUGEL
N EVANS

NAG 3-1302 Iowa State University 4259
COMPARISON OF SLOW- AND FAST-RESPONSE INST FLOW FI EL D
MEAS IN A TRANSONIC AXIAL-FLOW COMPRESSOR STA
Period Obligations
10/30/1991-12/07/1995 FY95: \$51,955 TOTAL: \$190,332
Prin. Invest. NASA Tech. Officer CASE Category
T H OKIISHI LERC/K L SUDER 41-Aero Engr

NAG 5-1519 Iowa State University 4267
DATA VALIDATION FOR TOTAL OZONE MAPPING SPECTROMET ER
FOR SMALL-CLASS EXPLORER
Period Obligations
04/02/1991-05/14/1996 FY95: \$64,758 TOTAL: \$283,175
Prin. Invest. NASA Tech. Officer CASE Category
J L STANFORD GSFC/A J KRUEGER 31-Atmos Sci
GSFC/M R SCHOEBERL

NAG 3-1318 Iowa State University 4260
ALGORITHMS FOR NON-UNIFORM RATIONAL B-SPLINE SURFA CE
MODEL DEVELOPMENT
Period Obligations
01/27/1992-11/06/1995 FY95: \$39,195 TOTAL: \$199,695
Prin. Invest. NASA Tech. Officer CASE Category
J H OLIVER LERC/D P MILLER 46-Mech Engr
LERC/A L EVANS

NAG 5-2047 Iowa State University 4268
CORRELATED OBSERVATIONS OF SUPERLUMINAL QUASARS
Period Obligations
07/22/1992-03/31/1996 FY95: \$80,000 TOTAL: \$213,137
Prin. Invest. NASA Tech. Officer CASE Category
R C LAMB GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 3-1427 Iowa State University 4261
LOW-SPEED, MULTISTAGE, AXIAL-FLOW COMPRESSOR FLOW FIELD
MEASUREMENTS
Period Obligations
12/30/1992-11/01/1995 FY95: \$55,999 TOTAL: \$167,095
Prin. Invest. NASA Tech. Officer CASE Category
T H OKIISHI LERC/M D HATHAWAY 41-Aero Engr

NAG 5-2286 Iowa State University 4269
HIGH PERFORMANCE MORPHOLOGICAL FILTERING OF CIRRUS
EMISSION FORM INFRARED IMAGES
Period Obligations
06/16/1993-02/28/1996 FY95: \$25,832 TOTAL: \$79,441
Prin. Invest. NASA Tech. Officer CASE Category
P N APPLETON GSFC/J A PEDELTY 11-Astronomy

NAG 3-1481 Iowa State University 4262
NURBS-BASED GEOMETRY FOR INTEGRATED STRUCTURAL ANA
LYSIS
Period Obligations
04/16/1993-07/12/1996 FY95: \$35,163 TOTAL: \$92,898
Prin. Invest. NASA Tech. Officer CASE Category
J H OLIVER LERC/S A THORP 46-Mech Engr
LERC/A L EVANS

NAG 5-2385 Iowa State University 4270
ACCRETION INDUCED STARBURST ACTIVITY IN INERACTING
GALAXIES: MAPPING SUSPECTED OUTFLOWS IN ARP 283.
Period Obligations
10/06/1993-04/14/1995 FY95: TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
P N APPLETON GSFC/R PETRE 11-Astronomy

NAG 3-1561 Iowa State University 4263
AERODYNAMIC MEASUREMENTS OF THE FLOW THROUGH A SUB
SONIC INLET DUCT
Period Obligations
01/04/1994-05/30/1995 FY95: TOTAL: \$42,359
Prin. Invest. NASA Tech. Officer CASE Category
T H OKIISHI LERC/B A REICHERT 41-Aero Engr

NAG 5-2491 Iowa State University 4271
A MASSIVELY PARALLEL GLOBAL MESOSCALE MODEL WITH I
MPROVED SURFACE-LAYER COUPLING
Period Obligations
02/04/1994-02/14/1996 FY95: \$30,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
E S TAKLE GSFC/J R FISCHER 22-Computer Science
J L GUSTAFSON

NAG 3-1786 Iowa State University 4264
GENERALIZED GEOMETRIC MODELING FOR TURBOMACHINERY
APPLICATION
Period Obligations
09/15/1995-09/14/1996 FY95: \$40,028 TOTAL: \$40,028
Prin. Invest. NASA Tech. Officer CASE Category
J H OLIVER LERC/D P MILLER 46-Mech Engr
LERC/A L EVANS

NAG 5-2787 Iowa State University 4272
DYNAMICAL ANALYSES OF MLS AND ISAMS DATA FROM THE UPPER
ATMOSPHERE RESEARCH SATELLITE
Period Obligations
11/14/1994-11/14/1995 FY95: \$63,115 TOTAL: \$63,115
Prin. Invest. NASA Tech. Officer CASE Category
J L STANFORD GSFC/C H JACKMAN 31-Atmos Sci

NASA'S UNIVERSITY PROGRAM
IOWA (Continued)

NAG 5-2830 Iowa State University 4273
 THE CHROMOSPHERE/SHOCK DILEMMA OF NON-MIRA, LATE- TYPE
 VARIABLE STARS
Period Obligations
 12/12/1994-12/14/1995 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 L A WILLIAM GSFC/D WEST 11-Astronomy

NAG 5-2930 Iowa State University 4274
 ANALYSES FOR THE CLIMATOLOGY AND SHORT-TERM VARI-
 ABILITY OF THE ATMOSPHERIC GENERAL CIRCULATION ETC
Period Obligations
 04/18/1995-04/30/1996 FY95: \$80,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 T C CHEN GSFC/S COHN 11-Astronomy
 J J TRIBIA

NAG 8-963 Iowa State University 4275
 MICROSTRUCTURAL DEVELOPMENT
Period Obligations
 06/23/1993-06/30/1996 FY95: \$100,000 TOTAL: \$300,000
Prin. Invest. NASA Tech. Officer CASE Category
 T A LOGRASSO MSFC/S D COBB 19-Phys Sci, NEC

NAG 9-827 Iowa State University 4276
 DETERMINING CONDITIONS FOR DEVELOPMENT OF FUNCTION AL
 CARTILAGE
Period Obligations
 08/15/1995-08/31/1996 FY95: \$121,000 TOTAL: \$121,000
Prin. Invest. NASA Tech. Officer CASE Category
 C A HEATH JSC/N R PELLIS 56-Medical Sciences

NAGW 2582 Iowa State University 4277
 NAGW-2582/IOWA STATE UNIV/ANALYSIS OF STRATOSPHERI C
 TRACE GAS SATELLITE MEASUREMENTS
Period Obligations
 07/25/1991-03/31/1995 FY95: TOTAL: \$197,918
Prin. Invest. NASA Tech. Officer CASE Category
 J L STANFORD HQ/J A KAYE 31-Atmos Sci
 HQ/R E MURPHY

NAGW 2993 Iowa State University 4278
 SYNOPTIC CLIMATOLOGY OF SPACE BASED WATER VAPOR ME
 ASUREMENTS
Period Obligations
 03/24/1992-07/31/1995 FY95: TOTAL: \$133,643
Prin. Invest. NASA Tech. Officer CASE Category
 W J GUTOWSKI HQ/J C DODGE 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 4060 Iowa State University 4279
 NUMERICAL MODEL STUDIES
Period Obligations
 06/24/1994-06/30/1996 FY95: \$52,870 TOTAL: \$131,252
Prin. Invest. NASA Tech. Officer CASE Category
 M SEGAL HQ/J BERGSTRALH 19-Phys Sci, NEC

NAGW 4237 Iowa State University 4280
 ADVANCED DESIGN PROGRAM
Period Obligations
 01/11/1995-08/31/1995 FY95: \$26,340 TOTAL: \$26,340
Prin. Invest. NASA Tech. Officer CASE Category
 L K SEVERSIKE HQ/A S MCGEE 49-Engr, NEC

NGT 00-030-342 Iowa State University 4281
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/04/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R W ARITT HQ/A C JANETOS 31-Atmos Sci
 HQ/G ASRAR

NGT 00-040-018 Iowa State University 4282
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
 03/14/1990-01/31/1996 FY95: \$433,821 TOTAL: \$2,072,746
Prin. Invest. NASA Tech. Officer CASE Category
 W J BYRD HQ/E SCHWARTZ 99-Multi-Discip

NGT 00-050-633 Iowa State University 4283
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/30/1990-01/31/1996 FY95: \$22,000 TOTAL: \$110,000
Prin. Invest. NASA Tech. Officer CASE Category
 R H FLETCHER HQ/F C OWENS 46-Mech Engr

NGT 00-050-757 Iowa State University 4284
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 10/23/1991-06/30/1995 FY95: TOTAL: \$64,740
Prin. Invest. NASA Tech. Officer CASE Category
 T C CHEN HQ/J ALEXANDER 31-Atmos Sci
 W J GUTOWSKI

NGT 00-050-882 Iowa State University 4285
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/06/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A FLATAU MSFC/F SIX 46-Mech Engr

NGT 00-050-949 Iowa State University 4286
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/04/1992-08/23/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R H PLETCHER LERC/F MONTEGANI 46-Mech Engr

NGT 00-050-991 Iowa State University 4287
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/11/1992-07/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W LORD LARC/E PRIOR 45-Elec Engr

NGT 00-051-009 Iowa State University 4288
 NGT-51009/IOWA STATE UNIV/GRADUATE STUDENT RESEARCHERS
 PROGRAM
Period Obligations
 09/16/1992-07/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A ROTHMAYER LARC/E PRIOR 41-Aero Engr

NGT 00-051-020 Iowa State University 4289
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/14/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J P BASART GSFC/G SOFFEN 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
IOWA (Continued)**

NGT 00-051-205 Iowa State University 4290
 GRAD STUDENT RESEARCHERS PROGRAM
Period Obligations
 04/25/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J E BERNARD MSFC/F SIX 46-Mech Engr

NGT 00-051-254 Iowa State University 4291
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/07/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A FLATAU LARC/L EVANS 46-Mech Engr

NGT 00-070-305 Iowa State University 4292
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 05/20/1993-05/31/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 P LU HQ/D K RUSSELL 41-Aero Engr

NGT 00-070-347 Iowa State University 4293
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/12/1993-08/15/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 B PIERSON HQ/D K RUSSELL 41-Aero Engr

NAG 2-571 University of Iowa 4294
 CONTINUING ANALYSIS AND INTERPRETATION OF DATA FROM
 PIONEER 10 AND PIONEER 11
Period Obligations
 05/23/1989-07/31/1995 FY95: \$149,402 TOTAL: \$1,000,467
Prin. Invest. NASA Tech. Officer CASE Category
 J A VAN ALLEN ARC/L E LASHER 11-Astronomy
 ARC/R O FIMMEL

NAG 3-1580 University of Iowa 4295
 PROPOSAL TO STUDY THE SCIENTIFIC USES OF SOLAR ELECTRON
 PROPUSION FOR SPACE PHYSICS MISSIONS
Period Obligations
 04/01/1994-11/23/1995 FY95: \$9,908 TOTAL: \$19,780
Prin. Invest. NASA Tech. Officer CASE Category
 W S KURTH LERC/J M HICKMAN 19-Phys Sci, NEC

NAG 3-1592 University of Iowa 4296
 BUOYANCY EFFECTS ON THE STRUCTURE AND STABILITY OF
 BURKE - SCHUMANN DIFFUSION FLAME
Period Obligations
 06/02/1994-06/01/1996 FY95: \$74,150 TOTAL: \$162,813
Prin. Invest. NASA Tech. Officer CASE Category
 L D CHEN LERC/D STOCKER 46-Mech Engr

NAG 5-295 University of Iowa 4297
 MEASUREMENT OF LOW ENERGY ELECTRONS AND PROTONS IN
 THE EARTH'S MAGNETOSPHERE AND THE INTERPLANETARY M
Period Obligations
 02/01/1983-01/31/1996 FY95: \$47,000 TOTAL: \$729,003
Prin. Invest. NASA Tech. Officer CASE Category
 L A FRANK GSFC/G BULLOCK 11-Astronomy

NAG 5-1109 University of Iowa 4298
 ISEE 1AND2 MAGNETOSPHERIC AND INTERPLANETARY PLASMA
 INSTRUMENTS
Period Obligations
 11/01/1988-12/31/1993 FY95: TOTAL: \$650,680
Prin. Invest. NASA Tech. Officer CASE Category
 L A FRANK GSFC/G BULLOCK 19-Phys Sci, NEC
 C Y HUANG

NAG 5-1543 University of Iowa 4299
 PLASMA SHEET DYNAMICS IN THE EARTH'S MAGNETOTAIL
 (SUBSTORM TASK)
Period Obligations
 04/17/1991-10/31/1995 FY95: TOTAL: \$190,900
Prin. Invest. NASA Tech. Officer CASE Category
 C HUANG GSFC/G D BULLOCK 19-Phys Sci, NEC

NAG 5-2084 University of Iowa 4300
 A STATISTICAL FRAMEWORK FOR UTILIZATION OF RADAR DATA
 IN TROPICAL RAINFALL MEASURING MISSION
Period Obligations
 08/25/1992-06/30/1994 FY95: TOTAL: \$167,986
Prin. Invest. NASA Tech. Officer CASE Category
 W F KRAJEWSKI GSFC/O W THIELE 31-Atmos Sci
 J A SMITH
 V CHANDRASEKAR

NAG 5-2231 University of Iowa 4301
 METHODOLOGY FOR 3D QUADRATURE OF GGS/HYDRA DATA IN
 CLUDING CALIBRATION DATA, SPACECRAFT POTENTIAL.
Period Obligations
 05/10/1993-12/31/1996 FY95: \$46,500 TOTAL: \$198,500
Prin. Invest. NASA Tech. Officer CASE Category
 J D SCUDDER GSFC/M H ACUNA 13-Physics
 GSFC/D N BAKER

NAG 5-2346 University of Iowa 4302
 GEOTAIL MCA PLASMA WAVE DATA ANALYSIS
Period Obligations
 08/09/1993-10/14/1995 FY95: \$177,521 TOTAL: \$931,921
Prin. Invest. NASA Tech. Officer CASE Category
 R R ANDERSON GSFC/M ACONA 13-Physics

NAG 5-2371 University of Iowa 4303
 ANALYSIS OF PLASMA MEASUREMENTS FOR THE GEOTAIL MI
 SSION
Period Obligations
 09/21/1993-11/30/1995 FY95: \$753,000 TOTAL: \$1,992,734
Prin. Invest. NASA Tech. Officer CASE Category
 L A FRANK GSFC/M H ACUNA 13-Physics

NAG 5-2422 University of Iowa 4304
 BATSE LONG-TERM MONITORING OF BRIGHT ACTIVE GALACTIC
 NUCLEI
Period Obligations
 11/06/1993-11/14/1995 FY95: \$33,200 TOTAL: \$88,200
Prin. Invest. NASA Tech. Officer CASE Category
 R EDELSON GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2521 University of Iowa 4305
 INTERNATIONAL AGN WATCH: CONTINUOUS MONITORING OF NGC
 4151
Period Obligations
 03/09/1994-03/14/1996 FY95: TOTAL: \$34,500
Prin. Invest. NASA Tech. Officer CASE Category
 R EDELSON GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
IOWA (Continued)**

NCC 3-290 University of Iowa 4339
 TRANSPORT PHENOMENA DURING EQUIAXED SOLIDIFICATION OF ALLOYS
Period *Obligations*
 01/16/1993-01/07/1997 FY95: \$83,961 TOTAL: \$227,338
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C BECKERMAN LERC/H C DEGROH 47-Materials Engr
 H C DEGROH

NGT 00-070-411 University of Iowa 4347
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
 07/20/1995-07/20/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J SCUDDER HQ/D K RUSSELL 13-Physics

NGT 00-030-160 University of Iowa 4340
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 08/24/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W F KRAJEWSKI HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NAG 8-265 University of Northern Iowa 4348
 JOVE
Period *Obligations*
 12/30/1992-07/31/1996 FY95: TOTAL: \$74,621
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T A HOCKEY MSFC/F SIX 31-Atmos Sci
 D J WIENS

NGT 00-030-192 University of Iowa 4341
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 09/01/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W F KRAJEWSKI HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

KANSAS

NAG 8-215 Emporia State University 4349
 JOVE
Period *Obligations*
 01/28/1992-07/31/1996 FY95: \$20,000 TOTAL: \$108,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J S ABER MSFC/F SIX 32-Geological Sci
 J L BALLESTER

NGT 00-030-218 University of Iowa 4342
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 09/03/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T F SMITH HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NAG 5-2949 Garden Community College 4350
 SUPERNOVAE EFFECTS ON THE EARTH'S ATMOSPHERE
Period *Obligations*
 05/25/1995-11/30/1995 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G M LAIRD GSFC/N GEHRELS 31-Atmos Sci

NGT 00-050-976 University of Iowa 4343
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 09/16/1992-07/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J S ARORA LARC/E PRIOR 46-Mech Engr

NAG 1-1503 Kansas State University 4351
 CRACK GROWTH PREDICTION METHODOLOGY FOR MULTI-SITE DAMAGE: LAYERED ANALYSIS AND GROWTH NLPN 93-210
Period *Obligations*
 04/12/1993-11/11/1995 FY95: \$55,896 TOTAL: \$128,896
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D V SWENSON LARC/J C NEWMAN 46-Mech Engr
 LARC/C E HARRIS

NGT 00-051-321 University of Iowa 4344
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T RUS HQ/P SMITH 22-Computer Science

NAG 2-1005 Kansas State University 4352
 EFFECTS OF MICROGRAVITY ON QUAIL EYE DEVELOPMENT
Period *Obligations*
 08/23/1995-05/31/1996 FY95: \$60,219 TOTAL: \$60,219
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G W CONRAD ARC/C M WINGET 51-Biological Sci
 ARC/G C JAHNS

NGT 00-051-351 University of Iowa 4345
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J A GOREE HQ/G A LESANE 13-Physics

NGT 00-051-412 University of Iowa 4346
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/28/1995-06/30/1999 FY95: \$35,577 TOTAL: \$35,577
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M WIENCEK HQ/D GLASCO 43-Chem Engr

NAG 8-1124 Kansas State University 4353
 JOVE
Period *Obligations*
 05/30/1995-05/29/1996 FY95: \$21,025 TOTAL: \$21,025
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B S SPOONER MSFC/F SIX 51-Biological Sci

**NASA'S UNIVERSITY PROGRAM
KANSAS (Continued)**

NAGW 1111 Kansas State University 4354
 PHOTOGEOLOGIC STUDY OF SELECTED FEATURES ON MARS
Period Obligations
 06/01/1987-01/17/1995 FY95: TOTAL: \$407,111
Prin. Invest. NASA Tech. Officer CASE Category
 J R UNDERWOOD HQ/D H SCOTT 32-Geological Sci
 HQ/J M BOYCE

NAGW 2328 Kansas State University 4355
 THE CENTER FOR GRAVITATIONAL STUDIES IN CELLULAR AND DEVELOPMENTAL BIOLOGY
Period Obligations
 02/12/1991-12/31/1995 FY95: \$1,000,000 TOTAL: \$4,895,154
Prin. Invest. NASA Tech. Officer CASE Category
 B S SPOONER HQ/R J WHITE 51-Biological Sci

NAGW 4291 Kansas State University 4356
 ADVANCED DESIGN PROGRAM
Period Obligations
 02/06/1995-07/31/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
 A COGLEY HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NAGW 4491 Kansas State University 4357
 EFFECTS OF SILVER AND OTHER METALS ON THE CYTOSKELETON
Period Obligations
 05/16/1995-02/14/1998 FY95: \$122,803 TOTAL: \$122,803
Prin. Invest. NASA Tech. Officer CASE Category
 G W CONRAD HQ/T K SCOTT 59-Life Sci, NEC

NAG10-142 Kansas State University 4358
 STARCH METABOLISM IN SPACE-GROWN SOYBEAN SEEDLINGS
Period Obligations
 07/15/1994-07/20/1995 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A GUIKEMA KSC/W M KNOTT 59-Life Sci, NEC

NCC 1-161 Kansas State University 4359
 SURFACE TREATMENT SIZING AND INTERFACE STUDIES OF CARBON FIBERS IN COMPOSITES
Period Obligations
 02/28/1992-02/20/1994 FY95: TOTAL: \$114,900
Prin. Invest. NASA Tech. Officer CASE Category
 P M SHERWOOD LARC/H G MAAHS 47-Materials Engr

NCC 2-871 Kansas State University 4360
 IMPACT OF GENERAL AVIATION ON THE CENTER-TRACON AUTOMATION SYSTEM (CTAS)
Period Obligations
 07/15/1994-05/14/1996 FY95: \$51,272 TOTAL: \$114,775
Prin. Invest. NASA Tech. Officer CASE Category
 P J GORDER ARC/R K GREIF 41-Aero Engr

NAG 1-1735 University of Kansas 4361
 INTERIOR NOISE REDUCTION BY ADAPTIVE FEEDBACK VIBRATION CONTROL
Period Obligations
 07/05/1995-07/04/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 T W LIM LARC/R J SILCOX 41-Aero Engr

NAG 3-1194 University of Kansas 4362
 RESEARCH ON COMPUTATIONAL HEAT TRANSFER IN GAS TURBINE ENGINES
Period Obligations
 07/16/1990-11/16/1994 FY95: TOTAL: \$395,585
Prin. Invest. NASA Tech. Officer CASE Category
 S FAROKHI LERC/R E GAUGLER 46-Mech Engr
 A AMERI

NAG 5-2344 University of Kansas 4363
 STUDIES OF MICROWAVE SCATTERING AND CANOPY ARCHITECTURE FOR BOREAL FORESTS
Period Obligations
 07/27/1993-08/14/1996 FY95: \$48,788 TOTAL: \$141,859
Prin. Invest. NASA Tech. Officer CASE Category
 S P GOGINENI GSFC/F G HALL 39-Env Sci, NEC
 P M RICH GSFC/P J SELLERS

NAG 5-2358 University of Kansas 4364
 STUDIES OF MICROWAVE SCATTERING AND CANOPY ARCHITECTURE FOR BOREAL FORESTS: ACQUISITION AND ...
Period Obligations
 09/13/1993-09/14/1996 FY95: \$39,900 TOTAL: \$120,359
Prin. Invest. NASA Tech. Officer CASE Category
 P M RICH GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P J SELLERS

NAG 8-958 University of Kansas 4365
 RADAR WIND SOUNDER
Period Obligations
 04/05/1993-09/30/1994 FY95: TOTAL: \$45,158
Prin. Invest. NASA Tech. Officer CASE Category
 R K MOORE MSFC/D E FITZJARRALD 31-Atmos Sci

NAG 8-1095 University of Kansas 4366
 A SATELLITE-BORNE RADAR WIND SENSOR
Period Obligations
 10/14/1994-10/15/1995 FY95: \$42,955 TOTAL: \$42,955
Prin. Invest. NASA Tech. Officer CASE Category
 R K MOORE MSFC/D FITZJARRALD 31-Atmos Sci

NAGW 1559 University of Kansas 4367
 PLASMA EFFECTS ON CHARGED PARTICLE TRANSPORT IN COMETS
Period Obligations
 01/26/1989-02/28/1994 FY95: TOTAL: \$281,729
Prin. Invest. NASA Tech. Officer CASE Category
 T E CRAVENS HQ/M M MELLOTT 13-Physics
 HQ/T W PERRY

NAGW 1588 University of Kansas 4368
 STUDIES IN PLANETARY AERONOMY
Period Obligations
 12/28/1988-03/31/1998 FY95: \$56,730 TOTAL: \$421,331
Prin. Invest. NASA Tech. Officer CASE Category
 T E CRAVENS HQ/J T BERGSTRAHL 11-Astronomy

NAGW 3043 University of Kansas 4369
 NAGW-3043/UNIV KANSAS/SEA-ICE CLASSIFICATION BY THE INTELLIGENT INTEGRATION OF ACTIVE AND PASSIVE
Period Obligations
 04/17/1992-04/30/1996 FY95: \$23,583 TOTAL: \$422,090
Prin. Invest. NASA Tech. Officer CASE Category
 C TSATSOU LIS HQ/R H THOMAS 33-Oceanography
 P GOGINENI HQ/R A SCHIFFER

**NASA'S UNIVERSITY PROGRAM
KANSAS (Continued)**

NAGW 3346 University of Kansas 4370
 NAGW-3346/UNIV KANSAS/ANALYSIS OF ICE SHEET ALTIME TRY
 DATA USING A COMBINED SURFACE/VOLUME
Period Obligations
 01/26/1993-12/31/1995 FY95: TOTAL: \$107,985
Prin. Invest. NASA Tech. Officer CASE Category
 S COGINENI HQ/R H THOMAS 39-Env Sci, NEC
 HQ/R A SCHIFFER

NAGW 3700 University of Kansas 4371
 MEASUREMENT OF THICKNESS OF THE GREENLAND ICE SHEET
 AND INVESTIGATION OF SCATTERING PROPERTIES
Period Obligations
 08/10/1993-05/31/1995 FY95: TOTAL: \$342,865
Prin. Invest. NASA Tech. Officer CASE Category
 S P GOGINENI HQ/R H THOMAS 39-Env Sci, NEC
 HQ/J S THEON

NAGW 3810 University of Kansas 4372
 NAGW-3810/B UNIV KANSAS 'DEV.OF A LAND USE MAPPING AND
 MONITORING.' 1/1/94 START
Period Obligations
 11/19/1993-01/31/1996 FY95: \$100,000 TOTAL: \$300,000
Prin. Invest. NASA Tech. Officer CASE Category
 K P PRICE HQ/A J TUYUHOV 39-Env Sci, NEC
 M D NELLIS HQ/S R SCHNEIDER

NAGW 3832 University of Kansas 4373
 PROBING LARGE SCALE STRUCTURE AND GALAXY INFO
Period Obligations
 12/14/1993-12/31/1995 FY95: \$35,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
 A L MELOTT HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 4239 University of Kansas 4374
 ADVANCED DESIGN PROGRAM
Period Obligations
 01/11/1995-09/30/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
 J ROSKAN HQ/A S MCGEE 49-Engr, NEC
 HQ/G SEIDEL

NAGW 4515 University of Kansas 4375
 EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESE
 ARCH (EPSCOR)
Period Obligations
 05/25/1995-03/31/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 D R DOWNING HQ/A S MCGEE 47-Materials Engr
 HQ/E T SCHWARTZ

NCC 1-172 University of Kansas 4376
 RESEARCH ON A NOVEL, SMART SUPERSONIC FLOW CONTROLLER
 NLPN 92-1206
Period Obligations
 02/22/1993-02/21/1996 FY95: TOTAL: \$74,000
Prin. Invest. NASA Tech. Officer CASE Category
 S FAROKHI LARC/D L CLER 41-Aero Engr
 R R TAGHAVI

NCC 2-588 University of Kansas 4377
 FIGHTER AGILITY METRICS, RESEARCH, AND TEST
Period Obligations
 03/13/1989-09/30/1995 FY95: TOTAL: \$458,953
Prin. Invest. NASA Tech. Officer CASE Category
 D R DOWNING ARC/J GERA 41-Aero Engr
 R K LIEFER ARC/R CLARKE
 J L VALASEK

NCC 2-805 University of Kansas 4378
 CONTROL ISSUES RELATED TO THE COMMERCIAL SUPERSONIC
 TRANSPORTS
Period Obligations
 06/11/1993-12/14/1994 FY95: TOTAL: \$42,633
Prin. Invest. NASA Tech. Officer CASE Category
 D R DOWNING ARC/E W AIKEN 41-Aero Engr
 ARC/J A FRANKLIN

NCC 3-251 University of Kansas 4379
 RESEARCH ON LASER-BASED DIAGNOSTIC TECHNIQUES IN F REE
 SHEAR LAYERS
Period Obligations
 02/20/1992-02/23/1996 FY95: \$21,196 TOTAL: \$70,755
Prin. Invest. NASA Tech. Officer CASE Category
 R TAGHAVI LERC/J M ABBOTT 41-Aero Engr

NGT 00-030-062 University of Kansas 4380
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/09/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M E JAKUBAUSKAS HQ/D M BUTLER 39-Env Sci, NEC
 K P PRICE HQ/G S WILSON

NGT 00-030-140 University of Kansas 4381
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/21/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A F ARBOGAST HQ/G ASRAR 32-Geological Sci
 HQ/D M BUTLER

NGT 00-030-189 University of Kansas 4382
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/02/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C TSATSOU LIS HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-202 University of Kansas 4383
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/02/1993-08/31/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 S P GOGINENI HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-040-026 University of Kansas 4384
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
 04/30/1991-02/28/1995 FY95: \$170,000 TOTAL: \$813,000
Prin. Invest. NASA Tech. Officer CASE Category
 D R DOWNING HQ/E T SCHWARTZ 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
KANSAS (Continued)**

NGT 00-050-604 University of Kansas 4385
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1990-09/30/1993 FY95: TOTAL: \$65,861
Prin. Invest. NASA Tech. Officer CASE Category
 D HAVERKAMP HQ/F C OWENS 45-Elec Engr

NAG 3-1694 Wichita State University 4393
 WSU STUDENT CO-OP IN MICROGRAVITY COMBUSTION RESEA
 RCH
Period Obligations
 01/17/1995-12/31/1995 FY95: \$17,186 TOTAL: \$17,186
Prin. Invest. NASA Tech. Officer CASE Category
 D N KOERT LERC/D L DIETRICH 46-Mech Engr

NGT 00-050-784 University of Kansas 4386
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/01/1991-06/30/1995 FY95: TOTAL: \$82,416
Prin. Invest. NASA Tech. Officer CASE Category
 T E CRAVENS HQ/F C OWENS 13-Physics

NAG 3-1775 Wichita State University 4394
 RESEARCH PROGRAM TO MODERNIZE AND EXPAND THE WATER
 IMPINGEMENT DATA BASE FOR AIRCRAFT SURFACE - PHAS
Period Obligations
 08/07/1995-01/06/1996 FY95: \$18,945 TOTAL: \$18,945
Prin. Invest. NASA Tech. Officer CASE Category
 D PAPADAKIS LERC/C S BIDWELL 41-Aero Engr

NGT 00-051-021 University of Kansas 4387
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/06/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S P GOGINENI GSFC/G SOFFEN 45-Elec Engr

NCA 1-106 Wichita State University 4395
 GENERAL AVIATION PROGRAM/AGATE
Period Obligations
 02/24/1995-12/31/1995 FY95: \$360,000 TOTAL: \$360,000
Prin. Invest. NASA Tech. Officer CASE Category
 H WILLIFORD LARC/W E RICKS 41-Aero Engr
 D ELLIS

NGT 00-051-123 University of Kansas 4388
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/05/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R K MOORE HQ/G LESANE 45-Elec Engr

NCC 1-187 Wichita State University 4396
 MATERIAL PROPERTIES AND DESIGN/CERTIFICATION GUIDELINES
 FOR GENERAL AVIATION STRUCTURES
Period Obligations
 02/03/1994-05/02/1995 FY95: TOTAL: \$131,000
Prin. Invest. NASA Tech. Officer CASE Category
 G BRINKMAN LARC/H B DEXTER 47-Materials Engr
 D ELLIS

NGT 5-3 University of Kansas 4389
 IONIZATION OF MIDDLE AND UPPER ATMOSPHERES AS DETECTED
 BY POLAR ICE CAP NITRATES
Period Obligations
 06/22/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 T P ARMSTRONG GSFC/G S SOFFEN 31-Atmos Sci
 GSFC/C H JACKMAN

NCC 1-195 Wichita State University 4397
 GENERAL AVIATION MARKET STUDY--IMPACT OF POTENTIAL
 TECHNOLOGY ADVANCEMENTS
Period Obligations
 09/07/1994-09/30/1995 FY95: \$178,632 TOTAL: \$308,630
Prin. Invest. NASA Tech. Officer CASE Category
 D R ELLIS LARC/B J HOLMES 41-Aero Engr
 LARC/C K WALKER

NAG 1-1488 Wichita State University 4390
 PROGRESSIVE DAMAGE ANALYSIS
Period Obligations
 02/25/1993-02/29/1996 FY95: \$60,008 TOTAL: \$179,991
Prin. Invest. NASA Tech. Officer CASE Category
 S J HOOPER LARC/T K O'BRION 41-Aero Engr

NCC 3-347 Wichita State University 4398
 GENERAL AVIATION ICING PROTECTION TECHNOLOGIES
Period Obligations
 04/20/1994-08/19/1995 FY95: TOTAL: \$31,917
Prin. Invest. NASA Tech. Officer CASE Category
 D R ELLIS LERC/T H BOND 41-Aero Engr
 LERC/T P RATVASKY

NAG 1-1649 Wichita State University 4391
 RELIABILITY ANALYSIS WITH QFD
Period Obligations
 11/03/1994-08/17/1995 FY95: \$51,602 TOTAL: \$51,602
Prin. Invest. NASA Tech. Officer CASE Category
 A S MASUD LARC/E B DEAN 49-Engn, NEC

NAG 3-566 Wichita State University 4392
 RESEARCH PROGRAM TO VERIFY WATER DROPLET TRAJECTORY
 CODES
Period Obligations
 07/25/1984-03/17/1994 FY95: TOTAL: \$721,482
Prin. Invest. NASA Tech. Officer CASE Category
 G W ZUMWALT LERC/G S BIDWELL 41-Aero Engr
 LERC/R J SHAW

NGT 00-050-984 Wichita State University 4399
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/04/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M PAPADAKIS LARC/E PRIOR 42-Astro Engr

**NASA'S UNIVERSITY PROGRAM
KENTUCKY**

KENTUCKY

NAG 8-1042 Centre College 4400
DEVELOPMENT OF SOFTWARE FOR HIGH SPEED ANALYSIS OF SOLAR MAGNETIC FIELD DATA
Period *Obligations*
03/25/1994-09/30/1995 FY95: TOTAL: \$7,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J I KINEKE MSFC/M J HAGYARD 11-Astronomy

NCC 2-5131 Kentucky State University 4401
PNEUMATIC SOIL SAMPLER FIELD TEST
Period *Obligations*
06/01/1995-09/30/1995 FY95: \$9,991 TOTAL: \$9,991
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J SCHAEFER ARC/G BRIGGS 42-Astro Engr
J STENCEL ARC/C MCKAY
J NEATHERY

NAG 8-1119 Morehead State University 4402
JOVE
Period *Obligations*
01/10/1995-05/31/1996 FY95: \$59,000 TOTAL: \$59,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B MALPHRUS MSFC/F SIX 11-Astronomy
A MARTIN

NAG 8-990 Northern Kentucky University 4403
JOVE
Period *Obligations*
11/03/1993-05/31/1996 FY95: \$26,231 TOTAL: \$85,789
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M FALBO-KENKEL MSFC/F SIX 11-Astronomy
R MC NEIL
D SCHNEIDER

NAG 1-1276 University of Kentucky 4404
INTEGRATED IMAGE DATABASE MANAGEMENT
Period *Obligations*
05/29/1991-07/20/1994 FY95: TOTAL: \$74,890
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R MEHROTRA LARC/P W GOODE 29-Math/Cmputer,NEC

NAG 3-1251 University of Kentucky 4405
ADVANCED THERMAL CONTROL OF ELECTRONICS
Period *Obligations*
02/26/1991-01/09/1995 FY95: TOTAL: \$279,066
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L L CHOW LERC/K W BAKES 46-Mech Engr
LERC/M O DUSTIN

NAG 3-1588 University of Kentucky 4406
FLIGHT TEST OF A FLAT PLATE HEAT PLATE WITH INTERFEREDERS
Period *Obligations*
05/01/1994-09/30/1995 FY95: \$60,234 TOTAL: \$90,388
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L C CHOW LERC/K W BAKER 46-Mech Engr

NAG 5-3010 University of Kentucky 4407
A SUPPLEMENTAL CATALOGUE OF IRAS CIRCUMSTELLAR SHELLS
MIS NO. 9501190844
Period *Obligations*
07/18/1995-07/31/1996 FY95: \$58,000 TOTAL: \$58,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M ELITZUR GSFC/D WEST 11-Astronomy

NAGW 3315 University of Kentucky 4408
PROBING THE CENTRAL REGIONS OF ACTIVE NUCLEI
Period *Obligations*
01/06/1993-10/31/1995 FY95: TOTAL: \$389,272
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G FERLAND HQ/G R RIEGLER 11-Astronomy

NAGW 3786 University of Kentucky 4409
VALIDATION OF SPECTRAL ANALYSIS AS A NONINVASIVE
Period *Obligations*
09/30/1993-06/30/1996 FY95: \$60,000 TOTAL: \$180,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C F KNAPP HQ/F M SULZMAN 56-Medical Sciences

NAGW 3839 University of Kentucky 4410
NAGW-3839/B UNIV. KENT. RES. FDTN. 'PHYSICS OF ACC RET. DISK WINDS..' —1/1/94 START
Period *Obligations*
12/17/1993-12/31/1995 FY95: \$30,000 TOTAL: \$60,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I SHLOSMAN HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILLER

NCC 2-5028 University of Kentucky 4411
SPECTROSCOPY AND IMAGERY OF THE ORION NEBULA
Period *Obligations*
02/03/1994-01/31/1996 FY95: \$24,500 TOTAL: \$70,333
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G FERLAND ARC/A TIELENS 11-Astronomy

NCC 2-5087 University of Kentucky 4412
EVALUATION OF A PNEUMATIC MARTIAN SOIL SAMPLER CONCEPT
Period *Obligations*
07/28/1994-10/31/1994 FY95: TOTAL: \$4,982
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J SCHAEFER ARC/G BRIGGS 42-Astro Engr
J STENCEL ARC/C MCKAY
J NEATHERY

NGT 00-040-049 University of Kentucky 4413
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period *Obligations*
07/24/1991-02/28/1996 FY95: \$205,000 TOTAL: \$793,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R HACKNEY HQ/E SCHWARTZ 99-Multi-Discip

NAG 2-707 University of Louisville 4414
1991-1993 COSMOS RHESUS MONKEY BED-REST AND FLIGHT IMMUNOLOGY STUDIES
Period *Obligations*
05/16/1991-04/30/1994 FY95: TOTAL: \$63,827
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G SONNENFELD ARC/J P CONNOLLY 51-Biological Sci
ARC/R W BALLARD

**NASA'S UNIVERSITY PROGRAM
KENTUCKY (Continued)**

NAG 9-617 University of Louisville 4415
CYTOKINES AND MACROPHAE FUNCTION IN HUMANS ROLE OF STRESS
Period *Obligations*
06/12/1992-07/01/1994 FY95: TOTAL: \$59,234
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G SONNENFELD JSC/C F SAMS 56-Medical Sciences

NAGW 4031 University of Louisville 4416
SPACE BIOLOGY RESEARCH ASSOCIATES PROGRAM
Period *Obligations*
06/22/1994-09/30/1996 FY95: \$253,150 TOTAL: \$501,704
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G SONNENFELD HQ/T W HALSTEAD 51-Biological Sci

NAG 5-2595 Western Kentucky University 4417
UNDERREPRESENTED MINORITIES AND ASTROPHYSICS
Period *Obligations*
05/11/1994-05/14/1997 FY95: \$263,868 TOTAL: \$365,868
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C H MCGRUDER GSFC/P J SAKIMOTO 11-Astronomy

NCCW 60 Western Kentucky University 4418
EPSCOR PROGRAM
Period *Obligations*
06/21/1994-06/30/1997 FY95: \$500,000 TOTAL: \$1,000,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R HACKNEY HQ/L KEFFER 99-Multi-Discip
HQ/E T SCHWARTZ

LOUISIANA

NAG 8-1010 Dillard University 4419
JOVE
Period *Obligations*
11/19/1993-05/31/1996 FY95: \$56,000 TOTAL: \$87,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G ROCHON MSFC/F SIX 54-Env Biology
G LOVE

NAG 1-1359 Louisiana State University - Baton Rouge 4420
HYPERVELOCITY IMPACT OF LARGE MASSES - DATA COLLECTION AND CORRELATION
Period *Obligations*
12/03/1991-07/09/1994 FY95: TOTAL: \$40,971
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R W COURTER LARC/W I SCALLION 19-Phys Sci, NEC

NAG 1-1672 Louisiana State University - Baton Rouge 4421
EFFICIENT PARALLEL KERNEL SOLVERS FOR COMPUTATIONAL FLUID DYNAMICS APPLICATION
Period *Obligations*
01/18/1995-01/17/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
X H SUN LARC/S MOLTRA 29-Math/Computer, NEC

NAG 3-1641 Louisiana State University - Baton Rouge 4422
LARGE EDDY SIMULATIONS IMPROVED TURBULENCE MODELING OF FILM COOLING
Period *Obligations*
07/12/1994-07/11/1996 FY95: \$95,637 TOTAL: \$123,977
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S ACHARYA LERC/J R SCHWAB 41-Aero Engr

NAG 5-71 Louisiana State University - Baton Rouge 4423
ULTRAVIOLET SPECTROSCOPY OF SELECTED ASTRONOMICAL SOURCES
Period *Obligations*
07/01/1980-01/31/1996 FY95: TOTAL: \$195,674
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J S DRILLING GSFC/D WEST 11-Astronomy
K HUNGER

NAG 5-2113 Louisiana State University - Baton Rouge 4424
LOWER AND UPPER BOUNDARIES OF THE ZZ CETI INSTABILITY STRIP
Period *Obligations*
10/08/1992-03/31/1995 FY95: TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D KOESTER GSFC/D WEST 11-Astronomy

NAG 5-2777 Louisiana State University - Baton Rouge 4425
ACCRETION PROCESSES IN ASTROPHYSICS
Period *Obligations*
10/28/1994-08/31/1995 FY95: \$58,300 TOTAL: \$58,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J FRANK GSFC/D WEST 11-Astronomy

NAG 5-3082 Louisiana State University - Baton Rouge 4426
ACCRETION ONTO MAGNETIC DEGENERATE STARS
Period *Obligations*
09/22/1995-09/30/1996 FY95: \$58,000 TOTAL: \$58,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G CHANMUGAM GSFC/D WEST 11-Astronomy

NAG 9-714 Louisiana State University - Baton Rouge 4427
CATABOLIC EFFECTS OF WEIGHTLESSNESS AND PROPOSED COUNTERMEASURE
Period *Obligations*
09/29/1993-08/31/1996 FY95: \$400,000 TOTAL: \$1,060,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G A BRAY JSC/H LANE 56-Medical Sciences

NAGW 1027 Louisiana State University - Baton Rouge 4428
COMPOSITION AND TRANSPORT OF GALACTIC COSMIC RAYS
Period *Obligations*
12/01/1986-11/30/1995 FY95: \$58,500 TOTAL: \$1,105,137
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J P WEFEL HQ/M M MELLOTT 13-Physics
HQ/W V JONES

**NASA'S UNIVERSITY PROGRAM
LOUISIANA (Continued)**

NAGW 1526 Louisiana State University - Baton Rouge 4429
 THE SYSTEMATIC INTERPRETATION OF COSMIC RAY DATA
Period Obligations
 12/14/1988-06/30/1997 FY95: \$125,000 TOTAL: \$809,652
Prin. Invest. NASA Tech. Officer CASE Category
 T G GUZIK HQ/M M MELLOTTE 13-Physics
 HQ/W V JONES

NAGW 3759 Louisiana State University - Baton Rouge 4436
 DEVELOPMENTAL AND PHYSIOLOGICAL PROCESSES INFLUENCING SEED PRODUCTION IN MICROGRAVITY
Period Obligations
 09/17/1993-09/30/1996 FY95: \$61,582 TOTAL: \$171,582
Prin. Invest. NASA Tech. Officer CASE Category
 M MUSGRAVE HQ/T W HALSTEAD 51-Biological Sci

NAGW 2033 Louisiana State University - Baton Rouge 4430
 ELECTRON POSITIVE ION INTERACTIONS
Period Obligations
 04/18/1990-11/30/1994 FY95: TOTAL: \$165,499
Prin. Invest. NASA Tech. Officer CASE Category
 Y K HO HQ/J BERGSTRALH 11-Astronomy

NAGW 4221 Louisiana State University - Baton Rouge 4437
 A GEOGRAPHIC INFORMATION SYSTEM FOR THE CHARACTERIZATION AND MODELING OF MULTISCALE SENSING
Period Obligations
 12/20/1994-08/31/1996 FY95: \$159,904 TOTAL: \$159,904
Prin. Invest. NASA Tech. Officer CASE Category
 N LAM HQ/R S MCGINNIS 22-Computer Science

NAGW 2052 Louisiana State University - Baton Rouge 4431
 DOWNDRIFT IMPACTS OF A DEVELOPING RIVER DELTA SYSTEM
Period Obligations
 07/02/1990-06/30/1994 FY95: TOTAL: \$271,620
Prin. Invest. NASA Tech. Officer CASE Category
 O HUH HQ/M BALTUCK 32-Geological Sci
 D L RICKMAN HQ/T J PIEPER

NAGW 4404 Louisiana State University - Baton Rouge 4438
 A SPDS NODE TO SUPPORT THE SYSTEMATIC INTERPRETATION OF COSMIC RAY DATA
Period Obligations
 04/04/1995-03/31/1996 FY95: \$26,106 TOTAL: \$26,106
Prin. Invest. NASA Tech. Officer CASE Category
 T G GUZIK HQ/J WILLEH 13-Physics

NAGW 2447 Louisiana State University - Baton Rouge 4432
 NAGW-2447/LOUISIANA STATE UNIV/ACCRETION PROCESSES IN ASTROPHYSICS
Period Obligations
 04/04/1991-01/31/1995 FY95: TOTAL: \$574,378
Prin. Invest. NASA Tech. Officer CASE Category
 J FRANK HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 4577 Louisiana State University - Baton Rouge 4439
 ADVANCED THIN IONIZATION CALORIMETER (ATIC)
Period Obligations
 06/28/1995-03/31/1996 FY95: \$447,397 TOTAL: \$447,397
Prin. Invest. NASA Tech. Officer CASE Category
 J P WEFEL HQ/W V JONES 13-Physics
 HQ/J D BOHLIN

NAGW 3289 Louisiana State University - Baton Rouge 4433
 NAGW-3289/LOUISIANA STATE UNIV/INSTRUMENTATION FOR AUTOMATED NUCLEAR PARTICLE TRACK ANALYSIS
Period Obligations
 11/27/1992-09/30/1994 FY95: TOTAL: \$50,370
Prin. Invest. NASA Tech. Officer CASE Category
 M L CHERRY HQ/J D BOHLIN 13-Physics

NAG10-75 Louisiana State University - Baton Rouge 4440
 DEVELOPMENTAL AND PHYSIOLOGICAL PROCESS INFLUENCING SEED PRODUCTION IN MICROGRAVITY
Period Obligations
 07/09/1990-07/08/1995 FY95: TOTAL: \$481,436
Prin. Invest. NASA Tech. Officer CASE Category
 M E MUSGRAVE JSC/W KNOTT 51-Biological Sci

NAGW 3560 Louisiana State University - Baton Rouge 4434
 AUTOMATED ANALYSIS OF ULTRA HIGH ENERGY COSMIC RAY EVENTS
Period Obligations
 04/27/1993-02/29/1996 FY95: \$61,000 TOTAL: \$183,595
Prin. Invest. NASA Tech. Officer CASE Category
 M L CHERRY HQ/J D BOHLIN 13-Physics

NAG10-139 Louisiana State University - Baton Rouge 4441
 PLANT REPRODUCTIVE DEVELOPMENT IN MICROGRAVITY
Period Obligations
 06/07/1994-11/06/1995 FY95: TOTAL: \$221,167
Prin. Invest. NASA Tech. Officer CASE Category
 M E MUSGRAVE KSC/W M KNOTT 55-Agriculture Sci

NAGW 3744 Louisiana State University - Baton Rouge 4435
 DESIGN AND DEVELOPMENT FOR A MINUTE-OF-ARC RESOLUTION GAMMA RAY IMAGING EXPERIMENT
Period Obligations
 09/29/1993-06/30/1996 FY95: \$50,000 TOTAL: \$135,000
Prin. Invest. NASA Tech. Officer CASE Category
 M L CHERRY HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NCC 2-5055 Louisiana State University - Baton Rouge 4442
 A PROTOTYPE MICROMACHINED LIGHT PATH FOR AN INTEGRATED OPTICAL CO2 SENSOR
Period Obligations
 05/19/1994-02/28/1995 FY95: TOTAL: \$39,926
Prin. Invest. NASA Tech. Officer CASE Category
 M C MURPHY ARC/J HINES 59-Life Sci, NEC

**NASA'S UNIVERSITY PROGRAM
LOUISIANA (Continued)**

NCCW 59 Louisiana State University - Baton Rouge 4443
 EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RES
Period Obligations
 07/01/1994-05/31/1997 FY95: \$500,000 TOTAL: \$1,000,000
Prin. Invest. NASA Tech. Officer CASE Category
 J P WEFEL HQ/L KEFFER 99-Multi-Discip
 E GOODELL HQ/E T SCHWARTZ

NGT 00-051-215 Louisiana State University - Baton Rouge 4451
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 04/25/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D D ADRIAN HQ/E MASSEY 44-Civil Engr

NGT 00-030-183 Louisiana State University - Baton Rouge 4444
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/26/1993-08/31/1995 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 K G HENDERSON HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-090-197 Louisiana State University - Baton Rouge 4452
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1996 FY95: \$10,300 TOTAL: \$32,600
Prin. Invest. NASA Tech. Officer CASE Category
 A STERLING HQ/D K RUSSELL 99-Multi-Discip

NGT 00-040-039 Louisiana State University - Baton Rouge 4445
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
 04/10/1991-02/28/1996 FY95: \$205,000 TOTAL: \$973,000
Prin. Invest. NASA Tech. Officer CASE Category
 J P WEFEL HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-090-198 Louisiana State University - Baton Rouge 4453
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1996 FY95: \$8,300 TOTAL: \$30,600
Prin. Invest. NASA Tech. Officer CASE Category
 A STERLING HQ/D K RUSSELL 99-Multi-Discip

NGT 00-051-015 Louisiana State University - Baton Rouge 4446
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/14/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D L CARVER SSC/A JOYCE 22-Computer Science

NGT13-52701 Louisiana State University - Baton Rouge 4454
 TRAINING GRANT - FLUX IN MARSHES SAME
Period Obligations
 06/23/1995-08/01/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J CRUISE SSC/JOYCE 49-Engr, NEC

NGT 00-051-097 Louisiana State University - Baton Rouge 4447
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/22/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M E MUSGRAVE KSC/B MARTIN 55-Agriculture Sci

NGT13-52703 Louisiana State University - Baton Rouge 4455
 TRAINING GRANT - HIGH RESOLUTION CLOUD AND SEA SURFACE
 TEATURE CLIMATOLOGY
Period Obligations
 06/23/1995-08/01/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 L ROUSE JR. SSC/JOYCE 49-Engr, NEC

NGT 00-051-183 Louisiana State University - Baton Rouge 4448
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/29/1993-08/22/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 N LAM MSFC/B SWINFORD 32-Geological Sci

NGT13-72701 Louisiana State University - Baton Rouge 4456
 TRAINING GRANT - THE USE OF REMOTE SENSING TECHNIQUES
 TO IDENTIFY SOIL TYPES
Period Obligations
 06/23/1995-08/01/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 W HUDNALL SSC/JOYCE 49-Engr, NEC

NGT 00-051-197 Louisiana State University - Baton Rouge 4449
 NGT-51197/LOUISIANA STATE UNIV/GSRP
Period Obligations
 11/05/1993-02/28/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 B A MCKEE SSC/A JOYCE 33-Oceanography

NGT 00-090-195 Louisiana Tech University 4457
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1996 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 J NELSON HQ/D RUSSELL 99-Multi-Discip

NGT 00-051-214 Louisiana State University - Baton Rouge 4450
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/06/1994-07/31/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 D L CARVER SSC/A JOYCE 22-Computer Science

NGT 00-090-196 Louisiana Tech University 4458
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1996 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 F AKI HQ/D RUSSELL 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
LOUISIANA (Continued)**

NGT13-52700 Louisiana Tech University 4459
 TRAINING GRANT THERMAL INSULATION SYSTEM FOR LARGE
 FLAME BUCKETS
Period Obligations
 06/22/1995-08/01/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 E CALLEN JR. SSC/JOYCE 49-Engr, NEC

NAGW 4013 Southern Univ & A&M College 4469
 SPACE COMMUNICATION AND INFO RESEARCH: IMPROVED SPAC
 E LINK PERFORMANCE VIA CONCATENATED FORWARD-ERROR
Period Obligations
 06/10/1994-05/31/1995 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 E W HINDS HQ/H L THEISS 22-Computer Science

NCC 3-365 Mcneese State University 4460
 OPTIMAL CONTROLLER SYNTHESIS FOR ISOLATION OF MICR
 OGRAVITY SCIENCE EXPERIMENTS IN SUPPORT OF PRIROD
Period Obligations
 10/12/1994-01/11/1996 FY95: \$30,031 TOTAL: \$30,031
Prin. Invest. NASA Tech. Officer CASE Category
 R D HAMPTON LERC/C M GRODSINSKY 46-Mech Engr

NAGW 4481 Southern Univ & A&M College 4470
 LIQUID PHASE PIEZOELECTRIC IMMUNOSENSORS
Period Obligations
 05/30/1995-05/31/1998 FY95: \$99,153 TOTAL: \$99,153
Prin. Invest. NASA Tech. Officer CASE Category
 A A SULEIMAN HQ/G C FOGLEMAN 59-Life Sci, NEC

NAG 8-150 Northwestern State University - Louisiana 4461
 JOINT VENTURE
Period Obligations
 03/20/1990-08/31/1994 FY95: TOTAL: \$113,661
Prin. Invest. NASA Tech. Officer CASE Category
 H W HYDE MSFC/C R CHAPPELL 19-Phys Sci, NEC
 MSFC/N F SIX

NAG10-127 Southern Univ & A&M College 4471
 FRACTOGRAPHICAL DOCUMENTATION AND CORROSION SENSORS
Period Obligations
 11/09/1993-12/31/1994 FY95: TOTAL: \$79,318
Prin. Invest. NASA Tech. Officer CASE Category
 R M DIWAN KSC/K THOMPSON 41-Aero Engr

NAG 2-1006 Southern Univ & A&M College 4464
 QFT DESIGN FRAMEWORK FOR ROTORCRAFT CONTROL
Period Obligations
 08/25/1995-08/31/1996 FY95: \$99,954 TOTAL: \$99,954
Prin. Invest. NASA Tech. Officer CASE Category
 G S GREWAL ARC/M B TISCHLER 41-Aero Engr

NAG10-149 Southern Univ & A&M College 4472
 LEAD IN POTABLE WATER
Period Obligations
 03/17/1995-03/31/1996 FY95: \$76,016 TOTAL: \$76,016
Prin. Invest. NASA Tech. Officer CASE Category
 I MIRSHAMS KSC/K POIMBOEUF 39-Env Sci, NEC
 A SULEIMAN KSC/D BROXTON

NAG 2-1015 Southern Univ & A&M College 4465
 LEARNING AND GENERALIZATION USING NEURAL NETWORKS WI
 TH APPLICATIONS TO ON-LINE F-16 REFERENCE MODEL
Period Obligations
 09/22/1995-07/31/1996 FY95: \$99,996 TOTAL: \$99,996
Prin. Invest. NASA Tech. Officer CASE Category
 D K TRIVEDI ARC/A J HATCH 43-Chem Engr
 J P MCGUIRK ARC/H LUM

NAG10-171 Southern Univ & A&M College 4473
 DEVELOPMENT AND UTILICATION OF A MULTIPURPOSE
 ATMOSPHERIC CORROSION SENSOR
Period Obligations
 06/15/1995-06/14/1996 FY95: \$118,995 TOTAL: \$118,995
Prin. Invest. NASA Tech. Officer CASE Category
 R DIWAN KSC/R LEE 54-Env Biology
 KSC/K POIMBOEUF

NAG 3-1662 Southern Univ & A&M College 4466
 INTELLIGENT KNOWLEDGE ACQUISITION FOR INTERACTIVE
 SOFTWARE FOR ROCKET ENGINE SYSTEM DESIGN
Period Obligations
 09/16/1994-09/15/1997 FY95: \$100,000 TOTAL: \$175,000
Prin. Invest. NASA Tech. Officer CASE Category
 D MOREMAN LERC/D F NOGA 41-Aero Engr

NGT 00-060-004 Southern Univ & A&M College 4474
 NGT-60004/SOUTHERN UNIV/SUMMER FACULTY FELLOWSHIP
 PROGRAM
Period Obligations
 04/19/1991-05/31/1996 FY95: \$267,459 TOTAL: \$817,172
Prin. Invest. NASA Tech. Officer CASE Category
 E HILDRETH HQ/A S MCGEE 49-Engr, NEC
 H HQ/E SCHWARTZ

NAG 8-252 Southern Univ & A&M College 4467
 ALUMINUM-LITHIUM STUDY
Period Obligations
 09/18/1992-06/18/1994 FY95: TOTAL: \$44,891
Prin. Invest. NASA Tech. Officer CASE Category
 R DIWAN MSFC/G FICHTL 47-Materials Engr
 MSFC/R WALKER

NGT 00-090-118 Southern Univ & A&M College 4475
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 09/25/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 D BAGAYOKO HQ/D K RUSSELL 99-Multi-Discip

NAGW 3882 Southern Univ & A&M College 4468
 NAGW3882/B SOUTHERN UNIV. 36-MONTH MUTLI YR AWARD
Period Obligations
 03/15/1994-12/31/1996 FY95: \$968,100 TOTAL: \$1,716,000
Prin. Invest. NASA Tech. Officer CASE Category
 V T MONTGOMERY HQ/I M BLANKSON 41-Aero Engr
 S S CHEHL

NGT 00-090-119 Southern Univ & A&M College 4476
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 09/25/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 D BAGAYOKO HQ/D K RUSSELL 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
LOUISIANA (Continued)**

NGT 00-090-266 Southern Univ & A&M College 4477
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 01/27/1995-08/14/1996 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 D BAGYOYOKO HQ/D K RUSSELL 13-Physics

NAGW 1516 Tulane University 4483
 INFLUENCE OF SYNAPTOGENESIS
Period Obligations
 11/21/1988-04/30/1996 FY95: TOTAL: \$288,193
Prin. Invest. NASA Tech. Officer CASE Category
 C D FERMIN HQ/T W HALSTEAD 59-Life Sci, NEC

NAG 8-1206 Southeastern Louisiana University 4462
 JOVE
Period Obligations
 09/25/1995-08/31/1998 FY95: \$39,000 TOTAL: \$39,000
Prin. Invest. NASA Tech. Officer CASE Category
 C W STEIDLEY MSFC/D SIX 19-Phys Sci, NEC
 W A PARKINSON
 W N NORTON

NCC 2-5011 Tulane University 4484
 CONSTRUCTION OF A SPECIALIZED CLONING STRAIN OF E COLI
 FOR THE NITRATE REDUCTASE GENES OF HALOFERAX
Period Obligations
 11/24/1993-11/30/1995 FY95: \$14,850 TOTAL: \$29,700
Prin. Invest. NASA Tech. Officer CASE Category
 E J JOHNSON ARC/L I HOCHSTEIN 51-Biological Sci

NAG10-131 Southeastern Louisiana University 4463
 INVENTORY AND MONITORING OF HERPETOLOGICAL—COMMUNIT-
 IES ON KSC/MERRITT IS NATIONAL WILDLIFE REFUGE
Period Obligations
 12/10/1993-01/02/1996 FY95: \$13,645 TOTAL: \$26,520
Prin. Invest. NASA Tech. Officer CASE Category
 R A SEIGEL KSC/W M KNOTT 39-Env Sci, NEC

NGT 00-030-262 Tulane University 4485
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/21/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R G WATTS HQ/J S THEON 39-Env Sci, NEC
 HQ/G ASRAR

NAG 2-999 Tulane University 4478
 EFFECT OF MICROGRAVITY ON AFFERENT INNEVATION
Period Obligations
 08/16/1995-04/30/1996 FY95: \$96,497 TOTAL: \$96,497
Prin. Invest. NASA Tech. Officer CASE Category
 C D FERMIN ARC/C M WINGET 51-Biological Sci
 ARC/G C JAHNS

NGT 00-050-695 Tulane University 4486
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/23/1991-08/31/1994 FY95: TOTAL: \$85,500
Prin. Invest. NASA Tech. Officer CASE Category
 E E MICHAELIDES HQ/F C OWENS 46-Mech Engr

NAG 5-2216 Tulane University 4479
 CLOUD IDENTIFICATION USING GENETIC ALGORITHMS AND
 MASSIVELY PARALLEL COMPUTATION
Period Obligations
 02/18/1993-11/30/1995 FY95: \$30,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
 B P BUCKLES GSFC/J R FISCHER 22-Computer Science
 F E PETRI/1

NGT 00-090-223 Tulane University 4487
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
 09/14/1993-08/14/1996 FY95: \$24,000 TOTAL: \$38,000
Prin. Invest. NASA Tech. Officer CASE Category
 S SULLIVAN HQ/D K RUSSELL 99-Multi-Discip

NAG 9-720 Tulane University 4480
 METHODOLOGIES TO DETERMINE FORCES ON BONES AND MUSCL
 ES OF BODY SEGMENTS DURING EXERCISE
Period Obligations
 10/18/1993-08/31/1994 FY95: TOTAL: \$16,000
Prin. Invest. NASA Tech. Officer CASE Category
 F FIGUEROA JSC/S GOLDSTEIN 59-Life Sci, NEC

NAG 1-1625 University of New Orleans 4488
 SIGNAL ANALYSIS OF DYNAMIC DATA FROM THE SEDS SATELLITE
 AND DEPLOYER
Period Obligations
 04/21/1994-12/31/1995 FY95: TOTAL: \$24,127
Prin. Invest. NASA Tech. Officer CASE Category
 J W IUOP LARC/B T UPCHURCH 13-Physics
 G E IOUP

NAG 9-733 Tulane University 4481
 INSECT - CELL CULTIVATION IN THE NASA HIGH-ASPECT RATIO
 VESSEL
Period Obligations
 05/19/1994-03/01/1995 FY95: TOTAL: \$30,914
Prin. Invest. NASA Tech. Officer CASE Category
 K O'CONNOR JSC/S GONDA 43-Chem Engr

NAG 3-1658 University of New Orleans 4489
 CRITICAL PHENOMENON, ELECTRODYNAMICS, AND GEOPHYS ICAL
 FLOWS
Period Obligations
 10/19/1994-10/18/1996 FY95: \$140,000 TOTAL: \$140,000
Prin. Invest. NASA Tech. Officer CASE Category
 J HEGSETH LERC/H K NAHRA 13-Physics
 LERC/A WILKINON

NAG 9-826 Tulane University 4482
 CELL CULTIVATION
Period Obligations
 08/09/1995-08/15/1996 FY95: \$110,000 TOTAL: \$110,000
Prin. Invest. NASA Tech. Officer CASE Category
 K O'CONNOR JSC/N PELLIS 51-Biological Sci

NAG 8-1116 University of New Orleans 4490
 JOVE
Period Obligations
 01/10/1995-05/31/1996 FY95: \$82,982 TOTAL: \$82,982
Prin. Invest. NASA Tech. Officer CASE Category
 J J HEGSETH MSFC/F SIX 99-Multi-Discip
 M L JOHNSON
 J J HOWARD

**NASA'S UNIVERSITY PROGRAM
LOUISIANA (Continued)**

NGT 00-051-213 University of New Orleans 4491
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/19/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
T SOLANKY SSC/A JOYCE 21-Mathematics

NAGW 4628 Xavier University - Louisiana 4499
PROJECT TEACH
Period Obligations
07/24/1995-06/30/1998 FY95: \$170,230 TOTAL: \$170,230
Prin. Invest. NASA Tech. Officer CASE Category
E E EDUOK HQ/D RUSSELL 99-Multi-Discip

NGT 00-051-317 University of New Orleans 4492
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
E P RUSSO SSC/A JOYCE 46-Mech Engr

NGT 00-090-004 Xavier University - Louisiana 4500
TRAINING GRANT
Period Obligations
01/01/1997-04/30/1996 FY95: \$137,271 TOTAL: \$1,072,730
Prin. Invest. NASA Tech. Officer CASE Category
G W BAKER HQ/L WARREN 49-Engr, NEC
HQ/M MORGOLIS

NGT13-52702 University of New Orleans 4493
TRAINING GRANT USING SINDA TO DEVELOP COMPUTER MODEL APPLICATIONS FOR SSC
Period Obligations
06/23/1995-08/01/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
E RUSSO SSC/JOYCE 49-Engr, NEC

MAINE

NAGW 1719 Bowdoin College 4501
EFFECTS OF GRAVITY IN EARLY AMPHIBIAN EMBRYOS
Period Obligations
04/17/1989-09/30/1995 FY95: \$361,718 TOTAL: \$361,718
Prin. Invest. NASA Tech. Officer CASE Category
C R PHILLIPS HQ/T W HALSTEAD 51-Biological Sci

NAG 3-1733 University of Southwestern Louisiana 4494
COMPUTATIONAL MODELING OF ADVANCED LOW EMISSION CO MBUSTION CONCEPTS
Period Obligations
04/12/1995-04/11/1996 FY95: \$60,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
N S WINOWICH LERC/K P KUNDU 41-Aero Engr

NAG 5-2590 University of Maine - Orono 4502
A STUDY OF THE DISTRIBUTION OF SOURCES AND SINKS O F BIOGENIC GAS FLUXES IN BOREAL FOREST VENUES
Period Obligations
05/12/1994-05/14/1996 FY95: \$22,501 TOTAL: \$40,880
Prin. Invest. NASA Tech. Officer CASE Category
S M GOLTZ GSFC/F G HALL 39-Env Sci, NEC
GSFC/P J SELLERS

NAG 5-2842 University of Southwestern Louisiana 4495
INTELLIGENT INFORMATION FUSION AND MANAGEMENT PROT OTYPE APPLICABLE TO EOSDIS
Period Obligations
12/14/1994-12/31/1995 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
N PISSINOU GSFC/W CAMPBELL 11-Astronomy

NAGW 3746 University of Maine - Orono 4503
ROOT-ASSOCIATED METHANE OXIDATION AND METHANOGENESIS: KEY DETERMINANTS OF METHANE EMISSIONS
Period Obligations
09/16/1993-07/31/1996 FY95: \$175,002 TOTAL: \$272,445
Prin. Invest. NASA Tech. Officer CASE Category
G M KING HQ/D E WICKLAND 39-Env Sci, NEC
HQ/A C JANETOS

NAGW 3565 University of Southwestern Louisiana 4496
MAGNETOPHORETIC INDUCTION OF ROOT CURVATURE
Period Obligations
05/26/1993-04/30/1996 FY95: \$60,000 TOTAL: \$170,000
Prin. Invest. NASA Tech. Officer CASE Category
K H HASENSTEIN HQ/T W HALSTEAD 51-Biological Sci

NAGW 4075 University of Maine - Orono 4504
CONSTRUCTION OF A GLOBAL OCEAN WAVE CLIMATOLOGICAL ATLAS BASED ON GEOSAT DATA'
Period Obligations
07/14/1994-04/14/1995 FY95: \$60,720 TOTAL: \$60,720
Prin. Invest. NASA Tech. Officer CASE Category
V PANCHANG HQ/J S THEON 33-Oceanography

NAG13-24 University of Southwestern Louisiana 4497
BUILDING AN INTEGRATED ENVIRONMENT BUILDING AN INTEGRATED ENVIRONMENT FOR MULTI-MEDIA
Period Obligations
03/17/1993-03/07/1996 FY95: \$72,480 TOTAL: \$213,178
Prin. Invest. NASA Tech. Officer CASE Category
T WILLIAMS SSC/JOYCE 31-Atmos Sci

NAGW 4410 University of Maine - Orono 4505
SOLID STATE SENSOR FOR AERONAUTICAL AND SPACE APPL ICATION
Period Obligations
04/14/1995-03/31/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
D J DWYER HQ/A S MCGEE 49-Engr, NEC
HQ/E T SCHWARTZ

NGT 00-051-007 University of Southwestern Louisiana 4498
NGT-51007/UNIV SOUTHEWESTERN LOUISIANA/GRADUATE STUDENT RESEARCHERS PORGRAM
Period Obligations
11/27/1992-01/04/1994 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
D MOREAU SSC/A JOYCE 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAG 1-1595 Johns Hopkins University 4524
 PULSED LASER DEPOSITION FOR THIN FILM PROCESSING OF
 PHOTOREFRACTIVE BAT103
Period Obligations
 02/10/1994-09/30/1995 FY95: TOTAL: \$50,500
Prin. Invest. NASA Tech. Officer CASE Category
 P R SHUSTER LARC/S S WELCH 47-Materials Engr

NAG 5-1538 Johns Hopkins University 4532
 THE OPTICAL CATEGORIZATION OF SATELLITE DISCOVERED
 SOURCES
Period Obligations
 05/02/1991-05/14/1995 FY95: TOTAL: \$135,917
Prin. Invest. NASA Tech. Officer CASE Category
 R BURG GSFC/R PETRE 11-Astronomy

NAG 1-1673 Johns Hopkins University 4525
 AN ANALYSIS OF THE MAGNETO-OPTIC IMAGING SYSTEM
Period Obligations
 12/22/1994-12/31/1995 FY95: \$115,087 TOTAL: \$115,087
Prin. Invest. NASA Tech. Officer CASE Category
 S NATH LARC/N NAMKUNG 45-Elec Engr

NAG 5-1601 Johns Hopkins University 4533
 STUDIES OF ELECTROMAGNETIC CYCLOTRON WAVES USING
 AMPTE/CCE AND DE-1
Period Obligations
 05/03/1991-05/31/1994 FY95: TOTAL: \$138,100
Prin. Invest. NASA Tech. Officer CASE Category
 R E ERLANDSON GSFC/G D BULLOCK 19-Phys Sci, NEC

NAG 1-1740 Johns Hopkins University 4526
 MICROWAVE METROLOGY FOR NONDESTRUCTIVE EVALUATION
Period Obligations
 07/19/1995-07/18/1996 FY95: \$47,000 TOTAL: \$47,000
Prin. Invest. NASA Tech. Officer CASE Category
 J W WAGNER LARC/E I MADARAS 41-Aero Engr

NAG 5-1617 Johns Hopkins University 4534
 SEARCH FOR CLOSE COMPANIONS OF NEARBY STARS AND TO
 SIMULATE ST IMAGES IN THE LABORATORY
Period Obligations
 05/24/1991-10/31/1995 FY95: \$182,000 TOTAL: \$681,278
Prin. Invest. NASA Tech. Officer CASE Category
 W G FASTIE GSFC/S SOBIESKI 11-Astronomy

NAG 2-935 Johns Hopkins University 4527
 CONFERENCE ON PLASTICITY AND RECOVERY OF THE NERVOUS
 SYSTEM
Period Obligations
 09/28/1994-04/30/1995 FY95: TOTAL: \$65,000
Prin. Invest. NASA Tech. Officer CASE Category
 G M MCKHANN ARC/M D ROSS 56-Medical Sciences
 ARC/N G DAUNTON

NAG 5-1673 Johns Hopkins University 4535
 PHASE SPACE DENSITIES OF ENERGETIC IONS
Period Obligations
 07/15/1991-07/14/1994 FY95: TOTAL: \$186,700
Prin. Invest. NASA Tech. Officer CASE Category
 A T LUI GSFC/G D BULLOCK 13-Physics

NAG 5-619 Johns Hopkins University 4528
 ROCHET AND LABORATORY EXPERIMENTS IN AERONOMY AND
 ASTRONOMY
Period Obligations
 03/01/1983-02/29/1996 FY95: \$525,000 TOTAL: \$7,346,000
Prin. Invest. NASA Tech. Officer CASE Category
 P D FELDMAN GSFC/L J EARLY 13-Physics
 A F DAVIDSEN GSFC/R H PLESS
 W G FASTIE

NAG 5-1674 Johns Hopkins University 4536
 CHARACTERISTICS OF SMALL SCALE SOLAR WIND FEATURES AND
 THEIR RELEVANCE TO TRANSIENT MAGNETOSPHERE...
Period Obligations
 07/15/1991-07/14/1994 FY95: TOTAL: \$187,900
Prin. Invest. NASA Tech. Officer CASE Category
 D SIBECK GSFC/G BULLOCK 13-Physics

NAG 5-1099 Johns Hopkins University 4529
 DATA INTERFACES ISTP GROUND BASED DARN PROGRAM
Period Obligations
 11/01/1988-02/29/1996 FY95: \$322,600 TOTAL: \$1,628,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A GREENWALD GSFC/S A CURTIS 13-Physics
 GSFC/M H ACUNA

NAG 5-1676 Johns Hopkins University 4537
 COMPARATIVE STUDIES OF THE OUTER PLANETS USING IUE
 SPECTRA
Period Obligations
 07/15/1991-07/14/1994 FY95: TOTAL: \$113,186
Prin. Invest. NASA Tech. Officer CASE Category
 H W MOOS GSFC/D WEST 11-Astronomy

NAG 5-1524 Johns Hopkins University 4530
 CURRENT SHEETS IN THE EARTH'S MAGNETOSPHERE: A PARTICLE
 PERSPECTIVE
Period Obligations
 05/03/1991-05/31/1994 FY95: TOTAL: \$189,200
Prin. Invest. NASA Tech. Officer CASE Category
 D G MITCHELL GSFC/G D BULLOCK 19-Phys Sci, NEC

NAG 5-1775 Johns Hopkins University 4538
 ULTRAVIOLET VARIABILITY IN THE IO PLASMA TORUS
Period Obligations
 09/10/1991-03/31/1995 FY95: TOTAL: \$39,500
Prin. Invest. NASA Tech. Officer CASE Category
 H W MOOS GSFC/D WEST 11-Astronomy

NAG 5-1537 Johns Hopkins University 4531
 ROSAT IMAGING OF M83
Period Obligations
 04/28/1991-04/30/1996 FY95: TOTAL: \$28,500
Prin. Invest. NASA Tech. Officer CASE Category
 W BLAIR GSFC/R PETRE 11-Astronomy

NAG 5-1793 Johns Hopkins University 4539
 SCATTERING AND GRAIN DESTRUCTION IN THE CYGNUS LOO P
Period Obligations
 10/27/1991-10/31/1994 FY95: TOTAL: \$18,500
Prin. Invest. NASA Tech. Officer CASE Category
 W P BLAIR GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAG 5-2399 Johns Hopkins University 4556
SEARCHING FOR SUNY AEV-ZELDOVICH DISTORTIONS IN THE
COBE DMR MAPS
Period *Obligations*
10/22/1993-10/31/1994 FY95: TOTAL: \$58,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A SZALAY GSFC/D WEST 11-Astronomy

NAG 5-2910 Johns Hopkins University 4564
PRESSURE BROADENING AS A TEST OF COLLISION RATES
Period *Obligations*
03/15/1995-03/14/1996 FY95: \$33,000 TOTAL: \$33,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L MONCHICK GSFC/S GREEN 13-Physics

NAG 5-2454 Johns Hopkins University 4557
EMISSION LINES FROM THE ERIDANUS SUPERBUBBLE
Period *Obligations*
01/04/1994-01/14/1995 FY95: TOTAL: \$1,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J MORTHY GSFC/D WEST 11-Astronomy

NAG 5-2935 Johns Hopkins University 4565
SIMULTANEOUS X-RAY AND FAR ULTRAVIOLET SPECTRA OF AGN
WITH ASCA AND HUT
Period *Obligations*
05/10/1995-11/14/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G KRISS GSFC/N WHITE 12-Chemistry

NAG 5-2465 Johns Hopkins University 4558
DETERMINING GAS DENSITIES AND GRAIN COMPOSITIONS
Period *Obligations*
01/04/1994-01/14/1996 FY95: TOTAL: \$2,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R H BUSS GSFC/D WEST 11-Astronomy

NAG 5-5016 Johns Hopkins University 4566
DENSITY AND TEMPERATURE MEASUREMENTS FOR MAP IN THE
STUDIES OF MESOSPHERIC AND LOWER THERMOSPHERIC
Period *Obligations*
05/28/1993-12/31/1995 FY95: TOTAL: \$75,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J H YEE GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-2466 Johns Hopkins University 4559
THE TEMPERATURE OF IO PLASMA TORUS ELECTRONS
Period *Obligations*
01/04/1994-01/14/1995 FY95: TOTAL: \$1,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D T HALL GSFC/D WEST 11-Astronomy

NAG 8-1133 Johns Hopkins University 4567
INTERDISCIPLINARY SCIENTIST FOR THE ADVANCED X-RAY
ASTROPHYSIC FACILITY
Period *Obligations*
01/11/1995-01/10/1996 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R GIACCONI MSFC/M E ROSENTHAL 11-Astronomy
R BURG

NAG 5-2478 Johns Hopkins University 4560
CYCLOTRON LINE DIAGNOSTICS OF GAMMA-RAY BURST EMISSION
MODELS
Period *Obligations*
01/24/1994-01/31/1996 FY95: \$3,209 TOTAL: \$29,454
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J H KROLIK GSFC/J P NORRIS 11-Astronomy
A K HARDING GSFC/N WHITE

NAG 9-654 Johns Hopkins University 4568
ENHANCEMENT OF CELL FUNCTION IN CULTURE BY CONTROL
LED AGGREGATION
Period *Obligations*
10/28/1992-01/31/1996 FY95: \$130,000 TOTAL: \$380,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W M SALTZMAN JSC/G SPAULDING 51-Biological Sci
K W LEONG

NAG 5-2548 Johns Hopkins University 4561
THE MOST LUMINOUS OBJECT IN THE UNIVERSE: PROTOGA LAXY
OR SHROUDED QUASAR
Period *Obligations*
03/03/1994-11/30/1995 FY95: TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T M HECKMAN GSFC/N WHITE 11-Astronomy

NAGW 648 Johns Hopkins University 4569
PLANETARY AERONOMY
Period *Obligations*
09/01/1984-12/31/1995 FY95: \$96,000 TOTAL: \$932,896
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D F STROBEL HQ/J T BERGSTRALH 31-Atmos Sci
HQ/W L QUAIDE

NAG 5-2622 Johns Hopkins University 4562
EUVE OBSERVATIONS OF THE JUPITER SYSTEM
Period *Obligations*
06/28/1994-06/30/1996 FY95: \$24,900 TOTAL: \$62,900
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D T HALL GSFC/R OLIVERSEN 11-Astronomy

NAGW 1650 Johns Hopkins University 4570
CORRELATIVE STUDIES OF SOLAR-PLANETARY RELATIONSHIPS
Period *Obligations*
03/02/1989-12/31/1995 FY95: \$30,250 TOTAL: \$711,682
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T A PSTEMRA HQ/M M MELLOTT 13-Physics

NAG 5-2728 Johns Hopkins University 4563
STAR FORMING DWARF GALAXIES AND THE X-RAY BACK-
GROUND
Period *Obligations*
09/21/1994-03/31/1996 FY95: \$44,015 TOTAL: \$59,367
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R GRIFFITHS GSFC/N WHITE 11-Astronomy

NAGW 1885 Johns Hopkins University 4571
MID INFRARED SPECTROSCOPIC INVESTIGATIONS
Period *Obligations*
12/06/1989-09/30/1995 FY95: \$45,000 TOTAL: \$714,055
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J W SALISBURY HQ/T A MAXWELL 32-Geological Sci
HQ/M BALTUCK

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAGW 1890 Johns Hopkins University 4572
ISSUES IN THE STUDY OF THE DIFFUSE COSMIC BACKGROUND RADIATION
Period *Obligations*
12/14/1989-10/31/1995 FY95: \$20,000 TOTAL: \$459,907
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R C HENRY HQ/G C CLAYTON 31-Atmos Sci

NAGW 2059 Johns Hopkins University 4573
SOLAR WIND CONTROL OF DAYSIDE IONOSPHERIC CONVECTION
Period *Obligations*
05/04/1990-06/30/1996 FY95: TOTAL: \$325,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K B BAKER HQ/M M MELLOTT 13-Physics
HQ/T PERRY

NAGW 2148 Johns Hopkins University 4574
NAGW-2148/JOHN HOPKINS UNIV/A PROPOSAL TO INVESTIGATE THE GENERATION, PROPAGATION AND EFFECTS OF IONS
Period *Obligations*
07/09/1990-05/31/1994 FY95: TOTAL: \$168,275
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D F STROBEL HQ/R D MCPETERS 31-Atmos Sci
HQ/M J PRATHER

NAGW 2373 Johns Hopkins University 4575
ENERGETIC PARTICLE TRANSPORT, SOURCES, AND LOSSES AT NEPTUNE
Period *Obligations*
02/25/1991-02/28/1994 FY95: TOTAL: \$200,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A F CHENG HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2433 Johns Hopkins University 4576
RESEARCH OF NEPTUNE'S MAGNETOSPHERE
Period *Obligations*
03/15/1991-12/31/1993 FY95: TOTAL: \$245,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B H MAUK HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2443 Johns Hopkins University 4577
NAGW-2443/JOHN HOPKINS UNIV/TRITON AERONOMY: VOYAGER UVS DATA ANALYSIS
Period *Obligations*
04/22/1991-03/31/1994 FY95: TOTAL: \$163,111
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D F STROBEL HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2508 Johns Hopkins University 4578
THE STUDY OF CLUSTERS OF GALAXIES AND LARGE-SCALE STRUCTURE
Period *Obligations*
07/25/1991-04/30/1996 FY95: \$112,400 TOTAL: \$504,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R BURG HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 2583 Johns Hopkins University 4579
NAGW-2583/JOHN HOPKINS UNIV/MODELING PERPENDICULAR CURRENT SHEETS IN THE EARTH'S MAGNETOTAIL
Period *Obligations*
08/12/1991-05/31/1998 FY95: \$64,400 TOTAL: \$291,784
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D G MITCHELL HQ/M M MELLOTT 13-Physics
HQ/J D BOHLIN

NAGW 2619 Johns Hopkins University 4580
PARTICLE ACCELERATION AND PROPAGATION IN THE OUTER HELIOSPHERE
Period *Obligations*
07/17/1991-08/31/1995 FY95: TOTAL: \$120,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R B DECKER HQ/W V JONES 13-Physics
HQ/J C LING

NAGW 2691 Johns Hopkins University 4581
AUTOMATED UNFOLDING OF GLOBAL MAGNETOSPHERIC IMAGE S
Period *Obligations*
08/07/1991-05/31/1997 FY95: \$73,500 TOTAL: \$341,058
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B H MAUK HQ/M M MELLOTT 13-Physics
HQ/J D BOHLIN

NAGW 2719 Johns Hopkins University 4582
SYNTHETIC APERTURE RADAR (SAR) OCEAN WAVE RESEARCH: METEOROLOGICAL APPLICATIONS PROGRAM
Period *Obligations*
09/16/1991-12/31/1994 FY95: TOTAL: \$190,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R C BEAL HQ/W C PATZERT 31-Atmos Sci
HQ/J S THEON

NAGW 2854 Johns Hopkins University 4583
AN EMPIRICAL MODEL OF IONOSPHERIC MAPPING BASED ON MAGNETOSPHERIC PRECIPITATION SOURCES
Period *Obligations*
01/31/1992-03/31/1995 FY95: TOTAL: \$195,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J NEWELL HQ/D L REASONER 13-Physics
HQ/J D BOHLIN

NAGW 2866 Johns Hopkins University 4584
INTEGRATED DUAL IMAGING DETECTOR
Period *Obligations*
02/10/1992-02/14/1996 FY95: TOTAL: \$616,100
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M RUST HQ/J K ALEXANDER 11-Astronomy
HQ/D A HOLLAND

NAGW 2874 Johns Hopkins University 4585
ADAPTABILITY, VARIABILITY, AND CHAOS IN THE VESTIBULAR AND OCULOMOTOR SYSTEMS
Period *Obligations*
02/10/1992-02/28/1995 FY95: TOTAL: \$320,384
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J SHELHAMER HQ/J K ALEXANDER 56-Medical Sciences
HQ/D A HOLLAND

NAGW 3052 Johns Hopkins University 4586
QUANTITATIVE ANALYSIS OF EMIC WAVE-PARTICLE INTERACTIONS
Period *Obligations*
05/15/1992-03/31/1995 FY95: TOTAL: \$213,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B J ANDERSON HQ/E C WHIPPLE 13-Physics
HQ/J D BOHLIN

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAGW 3058 Johns Hopkins University 4587
 NAGW-3058/JOHNS HOPKINS UNIV/GROUND-SATELLITE
 OBSERVATIONS OF P12 PULSATIONS
Period Obligations
 04/27/1992-03/31/1996 FY95: TOTAL: \$168,000
Prin. Invest. NASA Tech. Officer CASE Category
 K TAKAHASHI HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAGW 3394 Johns Hopkins University 4595
 PLANETARY GEOPHYSICS AND VOLCANISM
Period Obligations
 04/01/1993-02/28/1996 FY95: \$72,783 TOTAL: \$185,086
Prin. Invest. NASA Tech. Officer CASE Category
 M T ZUBER HQ/J M BOYCE 32-Geological Sci

NAGW 3125 Johns Hopkins University 4588
 NAGW-3125/JOHNS HOPKINS UNIV/RADIATION FIELD MODELLING
 AT TWILIGHT
Period Obligations
 09/12/1992-03/31/1995 FY95: TOTAL: \$67,134
Prin. Invest. NASA Tech. Officer CASE Category
 D E ANDERSON HQ/M J KURYLO 31-Atmos Sci
 HQ/R F HAMPSON

NAGW 3449 Johns Hopkins University 4596
 CROSS FIELD CURRENT DISRUPTION MECHANISM FOR SUBST ORM
 INITIATION
Period Obligations
 03/19/1993-02/28/1996 FY95: \$77,000 TOTAL: \$220,500
Prin. Invest. NASA Tech. Officer CASE Category
 A Y LUI HQ/E C WHIPPLE 13-Physics
 HQ/G L WITHBROE

NAGW 3129 Johns Hopkins University 4589
 NAGW-3129/JOHN HOPKINS UNIV/FUNDMENTAL ISSUES IN THE
 PHYSICS OF PAIR PLASMAS
Period Obligations
 07/14/1992-04/30/1995 FY95: TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
 J H KROLIK HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAGW 3523 Johns Hopkins University 4597
 SUBSTORMS AND MAGNETIC FLUX EROSION
Period Obligations
 04/14/1993-01/31/1996 FY95: \$127,137 TOTAL: \$177,137
Prin. Invest. NASA Tech. Officer CASE Category
 D G SIBECK HQ/E C WHIPPLE 13-Physics
 HQ/G L WITHBROE

NAGW 3147 Johns Hopkins University 4590
 NAGW-3147/JOHNS HOPKINS UNIV/A MULTIWAVELENGTH STU DY
 OF MOLECULES IN THE INTERSTELLAR MEDIUM
Period Obligations
 08/04/1992-05/31/1996 FY95: TOTAL: \$293,847
Prin. Invest. NASA Tech. Officer CASE Category
 D NEUFELD HQ/G R REGLER 11-Astronomy

NAGW 3697 Johns Hopkins University 4598
 VENUS TECTONICS AND LITHOSPHERE STRUCTURE
Period Obligations
 09/07/1993-07/31/1996 FY95: TOTAL: \$132,010
Prin. Invest. NASA Tech. Officer CASE Category
 M T ZUBER HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3156 Johns Hopkins University 4591
 NAGW-3156/JOHNS HOPKINS UNIV/VARIABILITY ANALYSIS AND THE
 STRUCTURE OF ACTIVE GALACTIC NUCLEI
Period Obligations
 09/04/1992-08/31/1996 FY95: \$148,441 TOTAL: \$518,523
Prin. Invest. NASA Tech. Officer CASE Category
 J KROLIK HQ/G R RIEGLER 11-Astronomy

NAGW 3831 Johns Hopkins University 4599
 SPATIAL DISTRIBUTION AND EVOLUTION OF LYMAN
 .
Period Obligations
 12/17/1993-12/31/1996 FY95: \$35,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
 A S SZALAY HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 3183 Johns Hopkins University 4592
 NAGW-3183/JOHNS HOPKINS UNIV/MISSION SCIENTIST ON THE
 EUROPEAN SPACE AGENCY INFRARED SPACE OBSERVATO
Period Obligations
 09/15/1992-06/30/1996 FY95: \$81,406 TOTAL: \$120,214
Prin. Invest. NASA Tech. Officer CASE Category
 D A NEUFELD HQ/L J CAROFF 11-Astronomy

NAGW 3861 Johns Hopkins University 4600
 JOHNS HOPKINS UNIV; STATISTICAL ANALYSIS OF TRIGON
 OMETRIC PARALLAXES
Period Obligations
 01/31/1994-04/31/1996 FY95: \$28,100 TOTAL: \$159,300
Prin. Invest. NASA Tech. Officer CASE Category
 S CASERTANO HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 3288 Johns Hopkins University 4593
 NAGW-3288/JOHNS HOPKINS UNIV/HIGH ENERGY ASTROPHYS ICS
 RESEARCH AND ANALYSIS PROGRAM
Period Obligations
 11/27/1992-06/30/1996 FY95: \$216,000 TOTAL: \$399,985
Prin. Invest. NASA Tech. Officer CASE Category
 R E GRIFFITHS HQ/L KALUZIENSKI 11-Astronomy

NAGW 3991 Johns Hopkins University 4601
 A GLOBAL 3D MODEL OF NEPTUNE'S MAGNETOSPHERE
Period Obligations
 06/15/1994-04/30/1996 FY95: \$37,000 TOTAL: \$72,000
Prin. Invest. NASA Tech. Officer CASE Category
 R L MCNUTT HQ/E C WHIPPLE 11-Astronomy
 HQ/J D BOHLIN

NAGW 3387 Johns Hopkins University 4594
 SPACEBORNE GEOPHYSICAL SAMPLING DEVICE
Period Obligations
 02/25/1993-03/31/1996 FY95: \$300,000 TOTAL: \$450,000
Prin. Invest. NASA Tech. Officer CASE Category
 A F CHENG HQ/H C BRINTON 19-Phys Sci, NEC

NAGW 4020 Johns Hopkins University 4602
 RELATIONSHIP TO BURSTY BULK FLOW
Period Obligations
 06/06/1994-04/30/1997 FY95: \$34,000 TOTAL: \$65,200
Prin. Invest. NASA Tech. Officer CASE Category
 V ANGELOPOULOS HQ/E C WHIPPLE 13-Physics

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAGW 4718 Johns Hopkins University 4619
MULTI-INSTRUMENT STUDIES OF IONOSPHERIC ELECTRIC FIELDS,
CURRENTS, AND CONDUCTIVITIES
Period Obligations
08/28/1995-10/30/1996 FY95: \$37,000 TOTAL: \$37,000
Prin. Invest. NASA Tech. Officer CASE Category
K B BAKER HQ/M M MELLOTT 13-Physics

NAS 5-32865 Johns Hopkins University 4627
DESIGN AND DEVELOPMENT OF ADVANCED CAMERA SCIENCE
Period Obligations
08/25/1995-12/31/1999 FY95: \$250,000 TOTAL: \$250,000
Prin. Invest. NASA Tech. Officer CASE Category
D FORD GSFC/C KREBS 42-Astro Engr
D ILLINGWORTH

NAGW 4729 Johns Hopkins University 4620
ANALYSIS OF ENERGETIC NEUTRAL ATOM IMAGES FOR THE
SWEDISH MICROSATELLITE ASTRID-1
Period Obligations
09/12/1995-08/31/1998 FY95: \$50,100 TOTAL: \$50,100
Prin. Invest. NASA Tech. Officer CASE Category
F C ROELOF HQ/R A HOFFMAN 13-Physics
HQ/J D BOHLIN

NAS 5-32914 Johns Hopkins University 4628
SCHMIDT PLATE ASTROMETRY AND THE SUBPLATE OVERLAP
CODE
Period Obligations
06/19/1995-06/18/1996 FY95: \$68,210 TOTAL: \$68,210
Prin. Invest. NASA Tech. Officer CASE Category
L TAFF GSFC/D WEST 11-Astronomy

NAGW 4745 Johns Hopkins University 4621
COOPERATIVE ANALYSIS OF THE CPFM DATA FROM THE ASH OE
IMAESA FIELD CAMPAIGN
Period Obligations
09/22/1995-08/31/1996 FY95: \$130,000 TOTAL: \$130,000
Prin. Invest. NASA Tech. Officer CASE Category
S A LLOYD HQ/M J KURYLO 31-Atmos Sci
HQ/D B PETERSON

NCC 2-5081 Johns Hopkins University 4629
VESTIBULAR-NERVE INPUTS TO LINEAR VESTIBULO-OCULAR
REFLEXES
Period Obligations
07/15/1994-07/14/1996 FY95: \$40,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
L B MINOR ARC/D L TOMKO 51-Biological Sci

NAS 5-26848 Johns Hopkins University 4622
PERFORM DEFINITION PHASE INVESTIGATION OF A
MULTISPECTRAL AURORAL IMAGING DEVICE FOR OPEN
Period Obligations
12/20/1982-07/01/1995 FY95: TOTAL: \$318,500
Prin. Invest. NASA Tech. Officer CASE Category
P D FELDMAN GSFC/F WAINSCOTT 19-Phys Sci, NEC

NCC 5-124 Johns Hopkins University 4630
STUDY ON VARIOUS DIE COATING MATERIALS FOR THE COB
ASSEMBLY
Period Obligations
09/25/1995-09/30/1996 FY95: \$39,866 TOTAL: \$39,866
Prin. Invest. NASA Tech. Officer CASE Category
B LE GSFC/M GARRISON 49-Engr, NEC
GSFC/R SAVAGE

NAS 5-27000 Johns Hopkins University 4623
DEVELOPMENT PHASE OF THE HOPKINS ULTRAVIOLET
TELESCOPE
Period Obligations
09/21/1981-05/31/1996 FY95: \$1,961,228 TOTAL: \$32,654,128
Prin. Invest. NASA Tech. Officer CASE Category
A F DAVIDSEN MSFC/J H OWENS 11-Astronomy

NGT 00-030-209 Johns Hopkins University 4631
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/26/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
G FEELEY-HARNIK HQ/G ASRAR 39-Env Sci, NEC
HQ/D M BUTLER

NAS 5-30403 Johns Hopkins University 4624
SPACE TELESCOPE IMAGING SPECTROGRAPH PROGRAM
SUPPORT
Period Obligations
02/04/1988-09/30/2001 FY95: \$170,000 TOTAL: \$662,686
Prin. Invest. NASA Tech. Officer CASE Category
W MOOS GSFC/D VITABLANO 41-Aero Engr

NGT 00-040-004 Johns Hopkins University 4632
NATIONAL SPACE GRANT COLLEGE
Period Obligations
10/04/1989-01/31/1998 FY95: \$448,542 TOTAL: \$2,216,542
Prin. Invest. NASA Tech. Officer CASE Category
R C HENRY HQ/E T SCHWARTZ 99-Multi-Discip

NAS 5-31248 Johns Hopkins University 4625
PHASE B DEFINITION OF LYMAN FOR ULTRAVIOLET
Period Obligations
08/01/1990-12/15/1995 FY95: \$11,582,864 TOTAL: \$21,239,704
Prin. Invest. NASA Tech. Officer CASE Category
W MOOS GSFC/E F THOMAS 11-Astronomy

NGT 00-050-587 Johns Hopkins University 4633
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/31/1990-08/31/1994 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
M T ZUBER HQ/J T LYNCH 32-Geological Sci

NAS 5-31373 Johns Hopkins University 4626
EOS INVESTIGATION
Period Obligations
12/13/1991-12/14/2001 FY95: \$85,000 TOTAL: \$300,000
Prin. Invest. NASA Tech. Officer CASE Category
J SALISBURY GSFC/H BLODGET 31-Atmos Sci

NGT 00-051-134 Johns Hopkins University 4634
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/19/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
W M SALTZMAN HQ/G LASANE 43-Chem Engr

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NGT 00-051-413 Johns Hopkins University 4635
 GSRP
Period *Obligations*
 08/29/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D SALTZMAN HQ/D GLASCO 43-Chem Engr

NCC 5-122 Morgan State University 4643
 MORGAN NETWORK RESOURCE TRAINING SITE
Period *Obligations*
 08/15/1995-08/14/1996 FY95: \$480,000 TOTAL: \$480,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W LUPTON GSFC/J BENNETT 22-Computer Science

NAG 1-1492 Morgan State University 4636
 CENTER FOR EXCELLENCE IN UNDERGRADUATE RESEARCH IN
 SCIENCE AND MATHEMATHS (CURE-SAM) NLPN 92-1021
Period *Obligations*
 03/02/1993-08/01/1996 FY95: \$207,681 TOTAL: \$718,291
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A L TEATE LARC/K H ABBOTT 29-Math/Cmputer,NEC
 C M WILLIAMS
 F W OLIVER

NGT 00-010-005 Morgan State University 4644
 MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP P
 PROGRAM
Period *Obligations*
 10/19/1993-02/28/1995 FY95: TOTAL: \$51,310
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C J SCOTT HQ/G S SEIDEL 41-Aero Engr
 C A FRY HQ/J R FACEY

NAG 5-2375 Morgan State University 4637
 RESEARCH ON HIGH T SUPERCONDUCTING COMPOUNDS
Period *Obligations*
 09/29/1993-03/31/1996 FY95: \$113,075 TOTAL: \$226,150
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F W OLIVER GSFC/W SULLIVAN 13-Physics

NGT 00-090-042 Morgan State University 4645
 NAGW-90042/MORGAN STATE UNIV/UNDERGRADUATE STUDENT
 RESEARCHERS PROGRAM (UMF)
Period *Obligations*
 08/14/1992-08/31/1995 FY95: TOTAL: \$142,622
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E DELOATCH HQ/D RUSSELL 49-Engr, NEC

NAG 5-2408 Morgan State University 4638
 MAINTENANCE AND TRAINING SUPPORT FOR THE ETA-10 SU
 PERCOMPUTER (A COMPENENT OF THE MU-SPIN PROGRAM)
Period *Obligations*
 10/25/1993-10/31/1995 FY95: \$184,229 TOTAL: \$498,624
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W LUPTON GSFC/J BENNETT 29-Math/Cmputer,NEC

NGT 00-090-116 Morgan State University 4646
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period *Obligations*
 09/24/1992-08/14/1995 FY95: TOTAL: \$36,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E DELOATCH HQ/D K RUSSELL 99-Multi-Discip

NAG 5-2686 Morgan State University 4639
 NEUTRAL NETWORKS AND STATISTICAL/MATHEMATICAL
 APPROACHES TO MODIS THERMAL-VACUUM CALIBRATION
Period *Obligations*
 08/11/1994-11/14/1995 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A D GRAINGER GSFC/B W GUENTHER 13-Physics

NGT 00-090-117 Morgan State University 4647
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period *Obligations*
 09/24/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E DELOATCH HQ/D K RUSSELL 99-Multi-Discip

NAG 5-2945 Morgan State University 4640
 THE ENGINEERING ENRICHMENT PROGRAM
Period *Obligations*
 06/08/1995-06/14/1996 FY95: \$60,000 TOTAL: \$60,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C WHITE GSFC/D MENCHAN 49-Engr, NEC

NGT 00-090-236 Morgan State University 4648
 GRADUATE TRAINING IN IMAGE PROCESSING
Period *Obligations*
 10/27/1993-08/31/1995 FY95: \$115,000 TOTAL: \$230,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E C HAMMOND JR. GSFC/G R BAKER 22-Computer Science
 GSFC/S STOVALL-ALEXANDER

NAGW 4093 Morgan State University 4641
 MINORITY UNIVERSITY RESEARCH IMPACT TRAINING
Period *Obligations*
 07/26/1994-08/31/1995 FY95: TOTAL: \$75,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A A TEATE HQ/B L WHITE 99-Multi-Discip

NGT 00-090-272 Morgan State University 4649
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period *Obligations*
 12/16/1994-08/14/1996 FY95: \$144,000 TOTAL: \$144,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E DELOATCH HQ/D K RUSSELL 45-Elec Engr

NCA 5-105 Morgan State University 4642
 ENGINEERING ENRICHMENT PROGRAM
Period *Obligations*
 06/26/1985-05/31/1995 FY95: TOTAL: \$517,901
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C WHITE GSFC/D MENCHAN 49-Engr, NEC

NGT 00-090-158 Prince George's Community College 4650
 PGCC-NASA COLLEGIATE PROGRAM
Period *Obligations*
 05/13/1993-10/31/1995 FY95: \$117,507 TOTAL: \$234,592
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P A CUNNIFF GSFC/D MENCHAN 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAG 8-992 Salisbury State University 4651
JOVE
Period *Obligations*
12/01/1993-05/31/1996 FY95: \$34,000 TOTAL: \$107,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J L TYROLL MSFC/F SIX 19-Phys Sci, NEC
A PICA
S HETZLER

NAG 5-1593 University of Maryland Baltimore County 4874
LABORATORY SPECTROSCOPY TO SUPPORT THE AIRS SOUNDER
Period *Obligations*
05/20/1991-06/30/1996 FY95: TOTAL: \$200,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L L STROW GSFC/J SUSSKIND 31-Atmos Sci

NAG 5-2194 University of Maryland Baltimore County 4875
ADAPTIVE PHASE ALIGNMENT OF SYNTHETIC APERTURES FOR COHERENT OPTICAL COMMUNICATIONS
Period *Obligations*
02/09/1993-02/14/1996 FY95: \$75,000 TOTAL: \$223,100
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M MORRIS GSFC/B D SEERY 45-Elec Engr

NAG 5-2379 University of Maryland Baltimore County 4876
A STUDY OF GIS FIELD MEASUREMENT TECHNIQUES FOR LONG-TERM MONITORING OF BOREAL FOREST ECOSYSTEMS
Period *Obligations*
09/23/1993-06/30/1995 FY95: \$962 TOTAL: \$12,717
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T W FORESMAN GSFC/F G HALL 39-Env Sci, NEC
GSFC/P J SELLERS

NAG 5-2407 University of Maryland Baltimore County 4877
A STUDY OF THE ROLES OF IMAGE PROCESSING, GIS AND VISUALIZATION IN REMOTE SENSING RESEARCH
Period *Obligations*
10/29/1993-07/31/1994 FY95: TOTAL: \$94,752
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T W FORESMAN GSFC/L M STUART 39-Env Sci, NEC

NAG 5-2751 University of Maryland Baltimore County 4878
OUTREACH PROGRAM FOR FEDERAL LABS
Period *Obligations*
10/07/1994-10/14/1995 FY95: \$102,850 TOTAL: \$102,850
Prin. Invest. *NASA Tech. Officer* *CASE Category*
HIABROWSKI GSFC/D MENCHEN 99-Multi-Discip

NAG 5-2855 University of Maryland Baltimore County 4879
AN INTEGRATED ADAPTIVE INTERFACE SYSTEM TO SUPPORT MULTI-AGENT BASED MODELS
Period *Obligations*
12/29/1994-01/14/1996 FY95: \$80,701 TOTAL: \$80,701
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H H EMVRIAN GSFC/W F TRUSZKOWSKI 22-Computer Science

NAG 5-2880 University of Maryland Baltimore County 4880
JOINT CONTINUING EDUCATIONAL RESEARCH OPPORTUNITIES
Period *Obligations*
01/25/1995-06/30/1995 FY95: \$23,074 TOTAL: \$23,074
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C WEIDEMANN GSFC/G A SOFFEN 46-Mech Engr

NAG 5-2893 University of Maryland Baltimore County 4881
INTERACTIVE STEREO VOLUME VISUALIZATION FOR SPACE PHYSICS DATA.
Period *Obligations*
02/17/1995-02/29/1996 FY95: \$34,273 TOTAL: \$34,273
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D S EBERT GSFC/D A ROBERTS 22-Computer Science

NAGW 4392 University of Maryland Baltimore County 4882
MOLECULAR DAMAGE OF HUMAN CELLS BY X-RAYS AND NEUTRONS
Period *Obligations*
04/17/1995-04/30/1998 FY95: \$219,699 TOTAL: \$219,699
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E K HQ/F M SULZMAN 56-Medical Sciences
BALCER-KUBICZEK
HQ/V THORNE

NAGW 4394 University of Maryland Baltimore County 4883
EFFECTS OF EXPOSURE TO HEAVY PARTICLES
Period *Obligations*
04/04/1995-02/14/1998 FY95: \$26,782 TOTAL: \$26,782
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B M RABIN HQ/F M SULZMAN 59-Life Sci, NEC

NAGW 4419 University of Maryland Baltimore County 4884
RESEARCH AND DEVELOPMENT FOR REMOTE SENSING APPLICATIONS SUPPORTING A NATIONAL REMOTE SENSING CORE
Period *Obligations*
04/19/1995-04/30/1997 FY95: \$98,864 TOTAL: \$98,864
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T FOREMAN HQ/M A PINE 39-Env Sci, NEC
HQ/L A OSTENDORF

NAS 5-31378 University of Maryland Baltimore County 4885
EOS EXECUTION PHASE
Period *Obligations*
12/16/1991-12/16/1995 FY95: \$264,000 TOTAL: \$747,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L L STROW GSFC/E R KREINS 39-Env Sci, NEC

NCC 2-921 University of Maryland Baltimore County 4886
REMOTE DECISION-MAKING FOR TRAUMA PATIENT RESUSCITATION
Period *Obligations*
08/28/1995-05/31/1996 FY95: \$96,864 TOTAL: \$96,864
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C F MACKENZIE ARC/J M ORASANU 69-Psych, NEC

NCC 5-57 University of Maryland Baltimore County 4887
NEURAL NETWORKS AND RELATED METHODS FOR ATMOSPHERIC RETRIEVALS
Period *Obligations*
10/07/1993-02/14/1996 FY95: \$20,000 TOTAL: \$41,185
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H MOTTELER GSFC/J SUSSKIND 31-Atmos Sci

NCC 5-76 University of Maryland Baltimore County 4888
A STUDY OF DIGITAL LAND RESEARCH TECHNIQUES USING THE SUDBURY BASIN, ONTARIO AS A CASE STUDY
Period *Obligations*
08/01/1994-07/31/1995 FY95: \$79,708 TOTAL: \$122,735
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P M MASOUKA GSFC/J WELKER 19-Phys Sci, NEC
T W FORESMAN GSFC/L STEWART

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NCC 5-80 University of Maryland Baltimore County 4889
DAYTIME MEASUREMENTS OF ATMOSPHERIC WATER VAPOR USING
A SCANNING RAMAN LIDAR

<i>Period</i>	<i>Obligations</i>	
11/18/1994-11/30/1995	FY95: \$25,000	TOTAL: \$25,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S H MELFI	GSFC/G K SCHWEMMER	31-Atmos Sci
D N WHITEMAN	GSFC/R F ADLER	

NCC 5-91 University of Maryland Baltimore County 4890
THE GSFC/UMBC RESEARCH FELLOWS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/05/1995-05/31/1996	FY95: \$51,004	TOTAL: \$51,004
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C WEIDEMANN	GSFC/G A SOFFEN	99-Multi-Discip

NCC 5-92 University of Maryland Baltimore County 4891
JOINT CENTER FOR EARTH SYSTEMS TECHNOLOGY

<i>Period</i>	<i>Obligations</i>	
06/27/1995-06/30/1996	FY95: \$191,889	TOTAL: \$191,889
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S H MELFI	GSFC/R E HARTLE	31-Atmos Sci
	GSFC/C E COTE	

NGT 00-070-331 University of Maryland Baltimore County 4892
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/29/1993-06/30/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J VINCENT	HQ/D K RUSSELL	12-Chemistry

NGT 00-090-137 University of Maryland Baltimore County 4893
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/24/1992-08/14/1996	FY95: \$12,000	TOTAL: \$48,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E BAKER	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-090-155 University of Maryland Baltimore County 4894
OUTREACH PROGRAM FOR FEDERAL LABS

<i>Period</i>	<i>Obligations</i>	
01/13/1993-12/31/1994	FY95:	TOTAL: \$221,300
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F HRABOYSKI	LARC/R LANG	99-Multi-Discip
	HQ/B WHITE	

NGT 00-090-180 University of Maryland Baltimore County 4895
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/27/1993-08/14/1996	FY95: \$12,000	TOTAL: \$36,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E BAKER	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-090-260 University of Maryland Baltimore County 4896
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)

<i>Period</i>	<i>Obligations</i>	
12/19/1994-08/14/1996	FY95: \$24,000	TOTAL: \$24,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E BAKER	HQ/D K RUSSELL	22-Computer Science

NGT 5-9 University of Maryland Baltimore County 4897
PERFORMING MODELING OF ON-LINE MASS STORAGE SYSTEM

<i>Period</i>	<i>Obligations</i>	
06/26/1995-06/30/1996	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Y YESHA	GSFC/G A SOFFEN	22-Computer Science
	GSFC/M HALEM	

NAG 1-1089 University of Maryland - College Park 4652
APPLICATION OF LARGE EDDY SIMULATIONS TO TRANSITIONAL
CHANNEL FLOWS

<i>Period</i>	<i>Obligations</i>	
01/18/1990-01/14/1996	FY95: \$25,001	TOTAL: \$238,827
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
U PIOMELLI	LARC/T A ZANG	41-Aero Engr
	LARC/A KUMAR	

NAG 1-1192 University of Maryland - College Park 4653
STUDIES OF ADVANCED HYPERSONIC WAVE RIDER CONFIGU-
RATIONS

<i>Period</i>	<i>Obligations</i>	
10/26/1990-10/31/1994	FY95:	TOTAL: \$244,197
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J D ANDERSON	LARC/S BAUER	41-Aero Engr
M J LEWIS	LARC/D S MILLER	

NAG 1-1285 University of Maryland - College Park 4654
SPACECRAFT TRAJECTORY OPTIMIZATION FOR CONTROLLED
RADIATION EXPOSURE

<i>Period</i>	<i>Obligations</i>	
06/03/1991-12/31/1994	FY95:	TOTAL: \$50,892
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M J LEWIS	LARC/J E NEALY	42-Astro Engr

NAG 1-1333 University of Maryland - College Park 4655
UNSTEADY FLOW PROPERTIES OF TYPE IV SHOCK/SOCK
INTERACTIONS

<i>Period</i>	<i>Obligations</i>	
09/06/1991-02/28/1995	FY95:	TOTAL: \$66,034
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M J LEWIS	LARC/A KUMAR	41-Aero Engr
J D ANDERSON		
B L HUNT		

NAG 1-1485 University of Maryland - College Park 4656
SCALABLE RUNTIME SUPPORT FOR SPARSE AND ADAPTIVE
COMPUTATIONS

<i>Period</i>	<i>Obligations</i>	
03/01/1993-02/29/1996	FY95: \$457,522	TOTAL: \$1,293,445
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J H SALTZ	LARC/E J PRIOR	22-Computer Science
	LARC/M D SALAS	

NAG 1-1521 University of Maryland - College Park 4657
A NEURAL NETWORK BASED HELICOPTER SIMULATOR NLPN
93-442

<i>Period</i>	<i>Obligations</i>	
07/19/1993-07/18/1995	FY95: \$74,031	TOTAL: \$127,295
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C Z SUN	LARC/G W WALKER	22-Computer Science
	LARC/A E PHELPS	

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAG 1-1528 University of Maryland - College Park 4658
EXPERIMENTAL AND NUMERICAL STUDY OF A 3-D, SHEAR- DRIVEN
BOUNDARY LAYER NLPN 93-504
Period *Obligations*
07/14/1993-07/13/1994 FY95: TOTAL: \$24,925
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M WALLACE LARC/M J WALSH 41-Aero Engr
U PIOMELLI

NAG 1-1540 University of Maryland - College Park 4659
DYNAMICS AND CONTROL OF SUPERSONIC/HYPERSONIC VEHICLES
-- A MULTIDISCIPLINARY STUDY NLPN 93-410
Period *Obligations*
08/24/1993-02/23/1996 FY95: TOTAL: \$180,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D K SCHMIDT LARC/L M GREGORY 41-Aero Engr
J D ANDERSON
M J LEWIS

NAG 1-1560 University of Maryland - College Park 4660
ADAPTIVE DIRECT STIMULATION MONTE CARLO METHODS ON
DISTRIBUTED MEMORY ARCHITECTURES AND WORKSTATION
Period *Obligations*
01/05/1994-06/30/1996 FY95: TOTAL: \$33,351
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J SALTZ LARC/R G WILMOTH 22-Computer Science
LARC/J N MOSS

NAG 1-1627 University of Maryland - College Park 4661
COMPUTATIONAL ASSESSMENT OF STRESS RECOVERY
TECHNIQUES
Period *Obligations*
04/22/1994-04/21/1995 FY95: \$20,000 TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S W LEE LARC/J M HOUSNER 46-Mech Engr

NAG 1-1655 University of Maryland - College Park 4662
IMPROVED CFD TRANSONICS FOR ROTORCRAFT APPLICATION S
Period *Obligations*
11/16/1994-09/30/1995 FY95: \$38,767 TOTAL: \$38,767
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J D BAEDER LARC/K S BRENTNER 41-Aero Engr

NAG 1-1730 University of Maryland - College Park 4663
IMPACT OF U.S. GOVERNMENT IN-HOUSE RESEARCH AND DE
VELOPMENT ON THE ADVANCEMENT OF AERODYNAMICS
Period *Obligations*
06/05/1995-06/04/1996 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J D ANDERSON LARC/D M BUSHNELL 41-Aero Engr
LARC/R V HARRIS

NAG 2-557 University of Maryland - College Park 4664
HIGH RESOLUTION FAR-INFRARED STUDIES OF COMPACT RE
GIONS OF STAR-FORMING MOLECULAR CLOUDS
Period *Obligations*
01/15/1989-12/31/1995 FY95: \$24,474 TOTAL: \$149,054
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L G MUNDY ARC/L C HAUGHNEY 11-Astronomy

NAG 2-627 University of Maryland - College Park 4665
PIONEER 10/11 DATA ANALYSIS AND INTERPRETATION
Period *Obligations*
03/15/1990-12/31/1996 FY95: \$220,000 TOTAL: \$2,115,721
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F B McDONALD ARC/L E LASHER 11-Astronomy
ARC/R O FIMMEL

NAG 2-787 University of Maryland - College Park 4666
EVOLUTION AND GRAVITY RECEPTORS IN THE EAR
Period *Obligations*
05/27/1992-04/30/1996 FY95: TOTAL: \$149,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A N POPPER ARC/M L CORCORAN 51-Biological Sci
ARC/C E WADE

NAG 2-793 University of Maryland - College Park 4667
SIMULATION MODELING FOR ADVANCED ROTORCRAFT FLIGHT
CONTROL SYSTEM DESIGN
Period *Obligations*
07/21/1992-08/31/1994 FY95: TOTAL: \$33,215
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R CELI ARC/M B TISCHLER 41-Aero Engr

NAG 2-794 University of Maryland - College Park 4668
TECHNIQUES FOR DESIGNING ROTORCRAFT SYSTEMS
Period *Obligations*
07/21/1992-03/31/1994 FY95: TOTAL: \$127,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W S LEVINE ARC/M B TISCHLER 41-Aero Engr
J B BARLOW

NAG 2-856 University of Maryland - College Park 4669
ENERGETICS, STRUCTURE, AND PHYSICAL CONDITIONS OVER
LARGE SCALES IN MOLECULAR CLOUDS
Period *Obligations*
08/06/1993-09/30/1994 FY95: TOTAL: \$13,018
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J E HOWE ARC/C D LAUGHLIN 11-Astronomy
ARC/C M GILLESPIE

NAG 2-889 University of Maryland - College Park 4670
HELICOPTER VIBRATION REDUCTION WITH DYNAMICALLY TU NED
BLADE PITCH LINKS
Period *Obligations*
03/24/1994-12/31/1995 FY95: \$40,000 TOTAL: \$80,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I CHOPRA ARC/S R KOTTAPALLI 41-Aero Engr

NAG 2-898 University of Maryland - College Park 4671
BLADE-VORTEX INTERACTION NOISE COMPARISONS WITH EX
PERIMENT
Period *Obligations*
05/09/1994-10/31/1995 FY95: TOTAL: \$29,766
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J D BAEDER ARC/C KITAPLIOGLU 41-Aero Engr

NAG 2-979 University of Maryland - College Park 4672
TRANSFER OF THE CONSOL-OPTCAD ROTORCRAFT DESIGN TO
OL TO INDUSTRY
Period *Obligations*
03/29/1995-01/14/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W S LEVINE ARC/M B TISCHLER 41-Aero Engr

NAG 3-1180 University of Maryland - College Park 4673
A THEOR STUDY OF THE INFL OF THE EARTH'S GRAV AND OF A
ZERO GRAV ENVIR ON EXP MEAS OF THE CRIT PROP
Period *Obligations*
06/14/1990-01/16/1994 FY95: TOTAL: \$302,277
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A FERRELL LERC/R A WILKINSON 13-Physics

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAG 3-1321 University of Maryland - College Park 4674
EXISTENCE, UNIQUENESS, AND ERROR ESTIMATION IN THE F
REED-WALKER NUMERICAL METHOD APPL TO MAT MODELING
Period Obligations
01/29/1992-09/01/1994 FY95: TOTAL: \$104,903
Prin. Invest. NASA Tech. Officer CASE Category
H W HASLACH LERC/A D FREED 47-Materials Engr

NAG 5-914 University of Maryland - College Park 4682
MESOSCALE SURFACE RADIATION BUDGETS FROM SATELLITE
OBSERVATIONNS: DERIVATIOONN AND VALIDATION
Period Obligations
07/01/1987-12/31/1995 FY95: \$137,000 TOTAL: \$944,482
Prin. Invest. NASA Tech. Officer CASE Category
R T PINKER GSFC/M D CHOU 31-Atmos Sci

NAG 3-1395 University of Maryland - College Park 4675
CRITICAL DYNAMICS OF FLUIDS
Period Obligations
12/21/1992-12/14/1995 FY95: \$217,778 TOTAL: \$581,778
Prin. Invest. NASA Tech. Officer CASE Category
R A FERRELL LERC/R A WILKINSON 13-Physics

NAG 5-1101 University of Maryland - College Park 4683
COMPREHENSIVE THEORETICAL AND COMPUTATIONAL MODELING
PROGRAM
Period Obligations
12/01/1988-04/30/1996 FY95: \$383,500 TOTAL: \$3,206,951
Prin. Invest. NASA Tech. Officer CASE Category
K PAPAPOPOULOS GSFC/S A CURTIS 13-Physics
GSFC/M H ACUNA

NAG 3-1488 University of Maryland - College Park 4676
PRIMARY ZONE FUEL-AIR MIXING STUDIES FOR LOW NOX A
DVANCED SUBSONIC COMBUSTOR DEVELOPMENT
Period Obligations
04/29/1993-03/20/1996 FY95: \$58,995 TOTAL: \$164,409
Prin. Invest. NASA Tech. Officer CASE Category
A K GUPTA LERC/T M SANDERS 41-Aero Engr
H L RUSSELL

NAG 5-1129 University of Maryland - College Park 4684
CLUSTER AND CORONAL MASS EJECTIONS
Period Obligations
04/15/1989-10/31/1995 FY95: \$31,101 TOTAL: \$331,895
Prin. Invest. NASA Tech. Officer CASE Category
M A COPLAN GSFC/K W OGIIVIE 13-Physics

NAG 3-1575 University of Maryland - College Park 4677
COOPERATIVE CONTROL THEORY AND INTEGRATED FLIGHT/PRO
PULSION CONTROL
Period Obligations
02/28/1994-02/27/1995 FY95: TOTAL: \$45,000
Prin. Invest. NASA Tech. Officer CASE Category
D K SCHMIDT LERC/S GARG 41-Aero Engr

NAG 5-1134 University of Maryland - College Park 4685
SPACE SCIENCES RESEARCH
Period Obligations
07/01/1989-09/30/1995 FY95: \$237,710 TOTAL: \$1,430,301
Prin. Invest. NASA Tech. Officer CASE Category
J D TRASCO GSFC/T KOSTIUK 11-Astronomy
R A BELL

NAG 3-1717 University of Maryland - College Park 4678
INTEGRATED FLIGHT/PROPULSION CONTROL OF HIGH - PER
FORMANCE AIRCRAFT
Period Obligations
02/09/1995-02/08/1996 FY95: \$58,090 TOTAL: \$58,090
Prin. Invest. NASA Tech. Officer CASE Category
D K SCHMIDT LERC/S GARG 41-Aero Engr

NAG 5-1272 University of Maryland - College Park 4686
ANALYSIS OF IUE SPECTRA OF COMETS
Period Obligations
08/15/1989-12/31/1995 FY95: \$33,000 TOTAL: \$160,000
Prin. Invest. NASA Tech. Officer CASE Category
M A A'HEARN GSFC/D WEST 11-Astronomy

NAG 3-1763 University of Maryland - College Park 4679
OPEN CORE COMPOSITE FLYWHEEL CHARACTERIZATION
Period Obligations
07/01/1995-01/31/1996 FY95: \$50,070 TOTAL: \$50,070
Prin. Invest. NASA Tech. Officer CASE Category
J A KIRK LERC/R F BEACH 46-Mech Engr

NAG 5-1299 University of Maryland - College Park 4687
PIONEER 10/11 AND VOYAGER 12 DATA ANALYSIS AND
INTERPRETATION
Period Obligations
09/15/1989-12/14/1995 FY95: \$40,000 TOTAL: \$351,275
Prin. Invest. NASA Tech. Officer CASE Category
F MCDONALD GSFC/N LAI 11-Astronomy

NAG 5-705 University of Maryland - College Park 4680
RESEARCH RELATIVE TO MP ION AND ELECTRON EXPERIMENT
Period Obligations
10/01/1985-11/30/1995 FY95: \$60,000 TOTAL: \$668,444
Prin. Invest. NASA Tech. Officer CASE Category
G GLOECKLER GSFC/G BULLOCK 11-Astronomy
A B GALVIN
G M MASON

NAG 5-1356 University of Maryland - College Park 4688
THEORETICAL STUDY OF 3-DIMENSIONAL RECONNECTIONS
Period Obligations
04/10/1990-05/31/1996 FY95: TOTAL: \$151,750
Prin. Invest. NASA Tech. Officer CASE Category
J M FINN GSFC/D S SPICER 13-Physics
GSFC/M L GOLDSTEIN

NAG 5-716 University of Maryland - College Park 4681
SCIENTIFIC ANALYSIS OF DATA FROM THE CHARGE ENERGY MASS
SPECTROMETER
Period Obligations
10/01/1985-03/14/1994 FY95: TOTAL: \$2,332,608
Prin. Invest. NASA Tech. Officer CASE Category
S GLOECKNER GSFC/S CURTIS 13-Physics
D HAMILTON
F IPAVICH

NAG 5-1450 University of Maryland - College Park 4689
MILLIMETER IMAGING OF ENERGETIC ELECTRONS
Period Obligations
08/23/1990-12/31/1995 FY95: \$40,000 TOTAL: \$225,000
Prin. Invest. NASA Tech. Officer CASE Category
M R KUNDU GSFC/J P NORRIS 11-Astronomy
S M WHITE GSFC/D A KNIFFEN

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAG 5-1471 University of Maryland - College Park 4690
COARSE RESOLUTION REMOTE SENSING OF THE SAHELIAN ENVIRONMENT
Period *Obligations*
10/01/1990-02/14/1994 FY95: TOTAL: \$542,953
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S D PRINCE GSFC/B N HOLBEN 39-Env Sci, NEC

NAG 5-1979 University of Maryland - College Park 4698
HIGH TC SUPERCONDUCTING BOLOMETERS ON SILICON SUBSTRATES
Period *Obligations*
05/04/1992-05/14/1994 FY95: TOTAL: \$47,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T VENKATESAN GSFC/J C BRASUNAS 13-Physics
S BHATTACHARYA

NAG 5-1694 University of Maryland - College Park 4691
COOPERATIVE RESEARCH IN THE STUDY OF TERRESTRIAL PLANETS
Period *Obligations*
07/01/1991-08/31/1994 FY95: TOTAL: \$926,170
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A BELL GSFC/J R HEIRTZLER 11-Astronomy
J D TRASCO

NAG 5-2001 University of Maryland - College Park 4699
SOLAR FLARE PHYSICS
Period *Obligations*
07/01/1992-06/30/1996 FY95: \$134,913 TOTAL: \$439,928
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M R KUNDU GSFC/C J CRANNELL 11-Astronomy
E J SCHMAHL
M J ASCHWANDER

NAG 5-1695 University of Maryland - College Park 4692
COOPERATIVE RESEARCH IN SPACE GEODESY AND CRUSTAL DYNAMICS
Period *Obligations*
07/01/1991-08/31/1994 FY95: TOTAL: \$987,065
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A BELL GSFC/B PUTNEY 11-Astronomy
J D TRASCO

NAG 5-2004 University of Maryland - College Park 4700
FLEX-GEAR ELECTRICAL/MECHANICAL POWER TRANSMISSION
Period *Obligations*
07/15/1992-09/30/1993 FY95: TOTAL: \$20,350
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L W TSAI GSFC/J M VRANISH 46-Mech Engr

NAG 5-1696 University of Maryland - College Park 4693
PARTICIPATION IN TOMS MISSION
Period *Obligations*
07/15/1991-12/14/1995 FY95: \$152,415 TOTAL: \$466,351
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D HUDSON GSFC/J R HERMAN 31-Atmos Sci
GSFC/R D MCPETERS

NAG 5-2011 University of Maryland - College Park 4701
CORONAL X-RAY EMISSION FROM SINGLE, MAGNETIC WHITE DWARFS
Period *Obligations*
07/15/1992-07/14/1995 FY95: TOTAL: \$17,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
V L TRIMBLE GSFC/R PETRE 11-Astronomy

NAG 5-1782 University of Maryland - College Park 4694
ATMOSPHERE LIDAR: METEOROLOGICAL OBSERVATIONS AND NEW INSTRUMENT CONCEPTS
Period *Obligations*
09/10/1991-12/31/1995 FY95: \$800 TOTAL: \$79,075
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T D WILKERSON GSFC/G K SCHWEMMER 31-Atmos Sci

NAG 5-2093 University of Maryland - College Park 4702
IUE OBSERVATIONS OF COMETS AND RELATED BODIES
Period *Obligations*
09/15/1992-07/31/1995 FY95: TOTAL: \$54,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M F A'HEARN GSFC/D WEST 11-Astronomy

NAG 5-1835 University of Maryland - College Park 4695
CLIMATE MODEL CALCULATIONS OF THE EFFECTS OF VOLCANOES ON GLOBAL CLIMATE
Period *Obligations*
11/27/1991-11/30/1996 FY95: \$95,000 TOTAL: \$442,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A ROBUCK GSFC/L S WALTER 31-Atmos Sci
K E TAYLOR

NAG 5-2107 University of Maryland - College Park 4703
A STUDY OF THE DEVELOPMENT OF GEOPHYSICAL DATA SET FROM REMOTE SENSING DATA
Period *Obligations*
10/13/1992-01/31/1996 FY95: \$251,161 TOTAL: \$607,538
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A J FLEIG GSFC/S SAMADI 22-Computer Science
J R TOWNSHEND GSFC/L M STUART

NAG 5-1966 University of Maryland - College Park 4696
PHOTOFRAGMENT SPECTROSCOPY OF HIGHLY CHARGED MOLECULAR IONS
Period *Obligations*
04/03/1992-04/30/1996 FY95: TOTAL: \$55,676
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J WEINER GSFC/J W KELLER 12-Chemistry

NAG 5-2117 University of Maryland - College Park 4704
BIOPHYSICAL MODELS AND SATELLITE DATA: FURTHER ANALYSIS OF THE FIFE RESULTS AT THE UNIV OF MARYLAND
Period *Obligations*
10/09/1992-12/31/1995 FY95: \$85,000 TOTAL: \$265,751
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D HUDSON GSFC/F HALL 39-Env Sci, NEC
GSFC/P SELLERS

NAG 5-1971 University of Maryland - College Park 4697
MEASURING VOLCANIC SULFUR DIOXIDE EMISSION FROM SATELLITES
Period *Obligations*
04/20/1992-04/30/1995 FY95: TOTAL: \$245,049
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C C SCHNETZLER GSFC/A J KRUEGER 39-Env Sci, NEC
GSFC/D L WILLIAMS

NAG 5-2202 University of Maryland - College Park 4705
DEVELOPMENT AND APPLICATION OF THREE-DIMENSIONAL RADIATION MAGNETOHYDRODYNAMIC CODE FOR MASSIVELY...
Period *Obligations*
02/23/1993-11/30/1995 FY95: \$30,000 TOTAL: \$88,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M STONE GSFC/J R FISCHER 22-Computer Science
J F HAWLEY

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAG 5-2293 University of Maryland - College Park 4706
BIOSPHERIC DYNAMICS IN THE BOREAL FOREST ECOTONE
Period *Obligations*
06/17/1993-06/30/1996 FY95: \$80,000 TOTAL: \$170,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S N GOWARD GSFC/F G HALL 39-Env Sci, NEC
GSFC/P SELLERS

NAG 5-2364 University of Maryland - College Park 4714
A SEARCH FOR ROTATIONAL MODULATION OF THE CORONAL/
TRANSITION REGION RADIATION FROM AB
Period *Obligations*
09/09/1993-03/14/1996 FY95: \$46,342 TOTAL: \$81,342
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S M WHITE HQ/R OLIVERSEN 11-Astronomy

NAG 5-2296 University of Maryland - College Park 4707
TRANSIENT 511 KEV EMISSION FROM 1E1740.7-2942 AND SOURCES
NEAR THE GALACTIC CENTER
Period *Obligations*
06/17/1993-02/29/1996 FY95: \$35,000 TOTAL: \$65,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M LEVENTHAL GSFC/J TUELLER 11-Astronomy

NAG 5-2370 University of Maryland - College Park 4715
MODELING AND REMOTE SENSING OF RADIANT ENERGY INTE
RACTION AND PHYSIOLOGICAL FUNCTIONING IN A . . .
Period *Obligations*
09/21/1993-03/31/1996 FY95: \$79,924 TOTAL: \$204,005
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J TOWNSHEND GSFC/D WILLIAMS 39-Env Sci, NEC
R MYNENI

NAG 5-2308 University of Maryland - College Park 4708
BIOPHYSICAL SIGNIFICANCE OF SPECTRAL VEGETATION IN DICES
IN THE BOREAL FOREST
Period *Obligations*
07/14/1993-07/14/1996 FY95: TOTAL: \$248,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C L WALTHALL GSFC/F G HALL 39-Env Sci, NEC
GSFC/P SELLERS

NAG 5-2374 University of Maryland - College Park 4716
EU V SPECTROSCOPY OF HERCULES X-1
Period *Obligations*
01/06/1994-07/14/1995 FY95: TOTAL: \$33,224
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S D VRTILEK GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2339 University of Maryland - College Park 4709
CO2 WATER FLUXES IN THE BOREAL FOREST OVERSTORY
Period *Obligations*
07/27/1993-07/31/1996 FY95: \$15,000 TOTAL: \$50,670
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J SULLIVAN GSFC/E MIDDLETON 39-Env Sci, NEC

NAG 5-2380 University of Maryland - College Park 4717
SEARCH FOR GALACTIC GAMMA-RAY LINE EMISSION USING
BATSE
Period *Obligations*
09/29/1993-09/30/1996 FY95: \$128,105 TOTAL: \$211,105
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M LEVENTHAL GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2340 University of Maryland - College Park 4710
DEVELOPMENT OF SURFACE PASSIVATION FOR HG CD TE IR
DETECTORS
Period *Obligations*
07/27/1993-10/31/1995 FY95: \$15,156 TOTAL: \$30,312
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A A ILIADIS GSFC/B MOTT 45-Elec Engr
GSFC/R MARTINEAU

NAG 5-2386 University of Maryland - College Park 4718
ANNIHILATION RADIATION FROM THE MILKY-WAY GALAXY
Period *Obligations*
10/06/1993-10/14/1996 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M LEVENTHAL GSFC/N GAHRELS 11-Astronomy

NAG 5-2352 University of Maryland - College Park 4711
ELECTRON BEAMS IN SOLAR FLARES
Period *Obligations*
08/12/1993-09/30/1994 FY95: TOTAL: \$50,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J ASCHWANDEN GSFC/J NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2396 University of Maryland - College Park 4719
AVHRR PATHFINDER LAND DATA VALIDATION
Period *Obligations*
10/15/1993-12/31/1995 FY95: \$86,075 TOTAL: \$172,341
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J TOWNSHEND GSFC/K J RANSON 39-Env Sci, NEC

NAG 5-2359 University of Maryland - College Park 4712
HIGH-SPEED MODULATION OF DIFFRACTION-LIMITED HIGH- POWER
SEMICONDUCTOR LASER AMPLIFIER
Period *Obligations*
09/09/1993-10/14/1995 FY95: TOTAL: \$94,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M DAGENAIS GSFC/D M CORNWALL 45-Elec Engr
GSFC/M A KRAINAK

NAG 5-2400 University of Maryland - College Park 4720
ASTROPHYSICS CONFERENCE SUPPORT
Period *Obligations*
10/13/1993-11/30/1995 FY95: \$25,000 TOTAL: \$75,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J D TRASKO GSFC/S S HOLT 11-Astronomy

NAG 5-2361 University of Maryland - College Park 4713
OBSERVATIONS OF OCEAN HEAT TRANSPORT
Period *Obligations*
08/31/1993-09/14/1994 FY95: TOTAL: \$12,985
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A CARTON GSFC/M M RIENECKER 33-Oceanography

NAG 5-2406 University of Maryland - College Park 4721
MEASURING SULFUR DIOXIDE EMISSION FROM EXPLOSIVE V
OLCANISM
Period *Obligations*
10/26/1993-10/31/1994 FY95: TOTAL: \$28,687
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G J BLUTH GSFC/L S WALTER 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAG 5-2429 University of Maryland - College Park 4722
MULTIWAVELENGTH STUDIES OF HER X-1
Period Obligations
11/09/1993-05/14/1995 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
S D VRTILEK GSFC/R PETRE 11-Astronomy

NAG 5-2647 University of Maryland - College Park 4730
DETERMINATION OF OPTICAL CONSTANTS OF SOME OXY-SUL FUR
COMPOUNDS IN THE THERMAL INFRARED REGION...
Period Obligations
06/30/1994-10/31/1994 FY95: TOTAL: \$13,075
Prin. Invest. NASA Tech. Officer CASE Category
R K KHANNA GSFC/J C PEARL 12-Chemistry

NAG 5-2482 University of Maryland - College Park 4723
PARALLEL COMPUTATION FOR IRREGULAR DATA STRUCTURES
AND PROBLEMS
Period Obligations
02/08/1994-02/14/1996 FY95: TOTAL: \$166,000
Prin. Invest. NASA Tech. Officer CASE Category
L DAVIS GSFC/J R FISCHER 22-Computer Science
GSFC/J E DORBAND

NAG 5-2648 University of Maryland - College Park 4731
NASA SPACE COMMUNICATIONS INFRASTRUCTURE SYSTEM OF
INFORMATION HANDLING AND RESOURCES MANAGEMENT...
Period Obligations
07/14/1994-07/14/1996 FY95: \$766,840 TOTAL: \$1,291,840
Prin. Invest. NASA Tech. Officer CASE Category
E E MILLER GSFC/D J HEI 49-Engr, NEC
AKIN

NAG 5-2500 University of Maryland - College Park 4724
MULTIWAVELENGTH OBSERVATIONS OF HER X-1
Period Obligations
02/10/1994-08/14/1995 FY95: TOTAL: \$1,500
Prin. Invest. NASA Tech. Officer CASE Category
S VITILEK GSFC/D WEST 11-Astronomy

NAG 5-2676 University of Maryland - College Park 4732
THE NON-AXISYMMETRIC MILKY WAY
Period Obligations
08/11/1994-08/14/1996 FY95: \$22,500 TOTAL: \$45,000
Prin. Invest. NASA Tech. Officer CASE Category
L BLITZ GSFC/D WEST 11-Astronomy

NAG 5-2531 University of Maryland - College Park 4725
X-RAY LINE DIAGNOSTICS FOR THE YOUNG ACTIVE STAR A B
DORADUS
Period Obligations
02/24/1994-03/14/1996 FY95: TOTAL: \$12,500
Prin. Invest. NASA Tech. Officer CASE Category
S M WHITE GSFC/N WHITE 11-Astronomy

NAG 5-2754 University of Maryland - College Park 4733
PREPARATION OF FLIGHT OPERATIONS AND IWS INTERGRA- TION
OF THE CELIAS EXPERIMENT ON THE SOHO SPACECR
Period Obligations
10/18/1994-10/31/1995 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
F IPAVICH GSFC/A POLAND 11-Astronomy

NAG 5-2532 University of Maryland - College Park 4726
PULSE PHASE SPECTROSCOPY OF LMC X-4 AND ILLUMINATING
THE ACCRETION PROCESS
Period Obligations
02/28/1994-09/14/1996 FY95: \$28,635 TOTAL: \$43,635
Prin. Invest. NASA Tech. Officer CASE Category
S D VRTILEK GSFC/N WHITE 11-Astronomy

NAG 5-2764 University of Maryland - College Park 4734
MEASUREMENT OF MEV CONTINUUM SOURCES WITH BATSE
Period Obligations
10/28/1994-10/31/1995 FY95: \$30,220 TOTAL: \$30,220
Prin. Invest. NASA Tech. Officer CASE Category
D M SMITH GSFC/J NORRIS
GSFC/N WHITE 11-Astronomy

NAG 5-2571 University of Maryland - College Park 4727
SEARCH FOR CORRELATION OF GAMMA RAY BURSTS WITH GR
AVITAITONAL WAVE ANTENNA OBSERVATIONS
Period Obligations
04/11/1994-12/31/1994 FY95: TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
J WEBER GSFC/N GEHRELS 13-Physics

NAG 5-2769 University of Maryland - College Park 4735
THE INTERACTION OF SHOCKED STELLAR WINDS AND NEBULAR
GAS: 1 X-RAY EMISSION FROM THE PLANETARY
Period Obligations
10/26/1994-03/14/1996 FY95: \$13,499 TOTAL: \$13,499
Prin. Invest. NASA Tech. Officer CASE Category
J HARRINGTON GSFC/N WHITE 11-Astronomy

NAG 5-2604 University of Maryland - College Park 4728
THE STUDY OF TRANSPORT OF GALACTIC COSMIC RAYS
Period Obligations
05/23/1994-05/31/1996 FY95: TOTAL: \$57,500
Prin. Invest. NASA Tech. Officer CASE Category
F MCDONALD GSFC/R STREITMATTER 11-Astronomy

NAG 5-2783 University of Maryland - College Park 4736
THRESHOLDING COREGISTRATION, AND STOCHASTIC METHOD S
OF VALIDATION OF RAINFALL ESTIMATES FROM SPACE
Period Obligations
11/10/1994-11/14/1995 FY95: \$90,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
B KEDEM GSFC/O W THIELE 31-Atmos Sci
D A SHORT

NAG 5-2640 University of Maryland - College Park 4729
A DEEP ROSAT HRI OBSERVATION OF NGC 1068
Period Obligations
07/05/1994-01/14/1996 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
A WILCOX GSFC/R PETRE 11-Astronomy

NAG 5-2800 University of Maryland - College Park 4737
RING CURRENT COMPOSITION AND DYNAMICS USING AMPTE/ CCE
CHEM DATA
Period Obligations
12/05/1994-12/14/1995 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
D C HAMILTON GSFC/J GREEN 13-Physics

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAG 5-2810 University of Maryland - College Park 4738
 THE SOLAR WIND AND SUPRATHERMAL ION COMPOSITION INVESTIGATION (SMS) ON THE WIND SPACECRAFT
Period *Obligations*
 12/12/1994-12/14/1995 FY95: \$422,300 TOTAL: \$422,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G GLOECKLER GSFC/K W OGILVIE 19-Phys Sci, NEC

NAG 5-2820 University of Maryland - College Park 4739
 REMOTE SENSING OF THE SAHELIAN ENVIRONMENT
Period *Obligations*
 12/14/1994-01/14/1995 FY95: \$94,314 TOTAL: \$94,314
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S D PRINCE GSFC/C J TUCKER 39-Env Sci, NEC

NAG 5-2856 University of Maryland - College Park 4740
 ANALYSES OF MULTISPECTRAL MULTIANGLE ASAS DATA ACQUIRED OVER BOREAL FOREST SITES
Period *Obligations*
 12/29/1994-01/14/1995 FY95: \$74,828 TOTAL: \$74,828
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A RUSSELL GSFC/J IRONS 39-Env Sci, NEC

NAG 5-2865 University of Maryland - College Park 4741
 MISSION OPERATIONS AND DATA ANALYSIS FOR THE STEP SUBSYSTEM OF THE EPACT EXPERIMENT ON THE WIND . .
Period *Obligations*
 01/09/1995-01/14/1996 FY95: \$130,000 TOTAL: \$130,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G M MASON GSFC/T T VON ROSENVINGE 19-Phys Sci, NEC
 D C HAMILTON

NAG 5-2885 University of Maryland - College Park 4742
 THE CONTRIBUTION OF ACTIVE STARS TO THE DIFFUSE GALACTIC GAMMA-RAY BACKGROUND
Period *Obligations*
 02/07/1995-02/14/1996 FY95: \$23,000 TOTAL: \$56,889
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S M WHITE GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2886 University of Maryland - College Park 4743
 THE DYNAMICS OF PROTOSTELLAR MASS OUTFLOWS
Period *Obligations*
 02/07/1995-02/14/1996 FY95: \$69,000 TOTAL: \$69,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M STONE GSFC/D WEST 11-Astronomy

NAG 5-2895 University of Maryland - College Park 4744
 DYNAMIC QUERIES INTERFACES FOR THE EOSDIS INFORMATION SYSTEM
Period *Obligations*
 02/17/1995-02/29/1996 FY95: \$103,145 TOTAL: \$103,145
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B SHNEIDERMAN GSFC/C A ROUFF 22-Computer Science
 C PLAISANE

NAG 5-2926 University of Maryland - College Park 4745
 MULTI-MISSION AND MULTISPECTRAL ASTROPHYSICS DATA CATALOG MANAGEMENT SYSTEM
Period *Obligations*
 04/03/1995-12/14/1995 FY95: \$44,132 TOTAL: \$44,132
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N ROUSSOPOULOS GSFC/C Y CHEUNG 22-Computer Science

NAG 5-2963 University of Maryland - College Park 4746
 SOLAR CYCLE DYNAMICS OF SOLAR MAGNETOSPHERIC AND HELIOSPHERIC PARTICLES AND LONG-TERM ATMOSPHERIC..
Period *Obligations*
 06/09/1995-09/30/1996 FY95: \$1,273,835 TOTAL: \$1,273,835
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G M MASON GSFC/T T VON ROSENVINGE 19-Phys Sci, NEC

NAG 5-2986 University of Maryland - College Park 4747
 GLOBAL LAND COVER MEASUREMENTS FOR GLOBAL CHANGE RESEARCH
Period *Obligations*
 06/29/1995-07/14/1996 FY95: \$71,074 TOTAL: \$71,074
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W LAWRENCE GSFC/D L WILLIAMS 39-Env Sci, NEC

NAG 5-3047 University of Maryland - College Park 4748
 GRIS BALLOON FLIGHTS IN AUSTRALIA IN 1995
Period *Obligations*
 08/11/1995-11/30/1995 FY95: \$10,360 TOTAL: \$10,360
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M LEVERTHAL GSFC/J TUELLER 11-Astronomy

NAG 5-3055 University of Maryland - College Park 4749
 OZONE INTERNAL CONCEPT STUDY
Period *Obligations*
 08/21/1995-02/31/1996 FY95: \$38,000 TOTAL: \$38,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D HUDSON GSFC/J R HERMAN 31-Atmos Sci

NAG 8-1027 University of Maryland - College Park 4750
 RADIO JET STUDY
Period *Obligations*
 01/27/1994-02/17/1995 FY95: \$83,000 TOTAL: \$117,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A S WILSON MSFC/M E ROSENTHAL 11-Astronomy

NAGW 902 University of Maryland - College Park 4751
 THEORETICAL SPECTROSCOPY OF COMETS
Period *Obligations*
 06/01/1996-12/31/1994 FY95: TOTAL: \$498,455
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M F A'HEARN HQ/H C BRINTON 11-Astronomy
 HQ/J H RAHE

NAGW 1152 University of Maryland - College Park 4752
 TOWARD NEW THEORIES IN MACROSEAL BIOCLIMATOLOGY
Period *Obligations*
 08/01/1987-07/31/1994 FY95: TOTAL: \$734,805
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S N GOWARD HQ/D E WICKLAND 39-Env Sci, NEC
 HQ/T J PIEPER

NAGW 1346 University of Maryland - College Park 4753
 3 DIMENSIONAL CONSIDERATIONS OF SOLAR LOOP EQUILIBRIA
Period *Obligations*
 07/06/1988-11/30/1995 FY95: \$20,000 TOTAL: \$405,788
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M FINN HQ/J D BOHLIN 13-Physics
 A B HASAM HQ/S KANE

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAGW 1541 University of Maryland - College Park 4754
RESEARCH IN SOLAR ASTRONOMY AT SHORT WAVELENGTHS

<i>Period</i>	<i>Obligations</i>	
12/06/1988-10/31/1998	FY95: \$57,958	TOTAL: \$541,958
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M R KUNDU	HQ/J D BOHLIN	13-Physics
	HQ/S KANE	

NAGW 2079 University of Maryland - College Park 4762
AN INVESTIGATION OF MAGNETIC RECONNECTION AND ASSOCIATED OBSERVATIONAL SIGNATURES IN COLL. PLASMA

<i>Period</i>	<i>Obligations</i>	
05/05/1990-05/31/1995	FY95: \$73,500	TOTAL: \$316,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T F EASTMAN	HQ/R M HOFFMAN	13-Physics
	HQ	

NAGW 1661 University of Maryland - College Park 4755
STUDY OF PLASMA INSTABILITIES IN THE MAGNETOSPHERE

<i>Period</i>	<i>Obligations</i>	
03/02/1989-01/31/1995	FY95:	TOTAL: \$302,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J F DRAKE	HQ/M MELLOTT	31-Atmos Sci

NAGW 2202 University of Maryland - College Park 4763
HUMAN RESOURCES NEEDS FOR OCEANIC REMOTE SENSING: A PROPOSAL TO TRAIN FUTURE SCIENTISTS

<i>Period</i>	<i>Obligations</i>	
07/26/1990-03/31/1996	FY95: \$109,224	TOTAL: \$318,356
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C F D'ELIA	HQ/M LEWIS	33-Oceanography

NAGW 1813 University of Maryland - College Park 4756
INFRARED AURORAL PROCESSES IN JUPITER

<i>Period</i>	<i>Obligations</i>	
07/10/1989-12/31/1995	FY95: \$60,000	TOTAL: \$273,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M J A'HEARN	HQ/J T BERGSTRALH	32-Geological Sci

NAGW 2245 University of Maryland - College Park 4764
TELEBOTICS SPACE OPERATIONS RESEARCH

<i>Period</i>	<i>Obligations</i>	
10/01/1990-01/31/1996	FY95: \$400,000	TOTAL: \$5,081,836
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D AKIN	HQ/L HOLCOMB	42-Astro Engr
	HQ/D LAVERY	

NAGW 1848 University of Maryland - College Park 4757
OBSERVATIONS OF THE MAGNETOPAUSE CURRENT LAYER

<i>Period</i>	<i>Obligations</i>	
09/22/1989-12/31/1994	FY95:	TOTAL: \$150,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T E EASTMAN	HQ/M M MELLOTT	13-Physics
	HQ/T W PERRY	

NAGW 2504 University of Maryland - College Park 4765
STUDY OF ENERGETIC PARTICLE PROCESSES IN THE HELIOSPHERE

<i>Period</i>	<i>Obligations</i>	
07/15/1991-04/30/1998	FY95: \$225,000	TOTAL: \$445,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F B MCDONALD	HQ/W V JONES	13-Physics
	HQ/J C LING	

NAGW 1886 University of Maryland - College Park 4758
OBSERVATIONS OF COMETS AND ASTEROIDS

<i>Period</i>	<i>Obligations</i>	
04/10/1990-11/30/1996	FY95: \$193,012	TOTAL: \$895,530
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M F AHEARN	HQ/J H RAHE	11-Astronomy

NAGW 2696 University of Maryland - College Park 4766
DIRECT MEASUREMENTS OF TROPOSPHERIC FROM OZONE TOMS DATA

<i>Period</i>	<i>Obligations</i>	
09/06/1991-01/31/1998	FY95: \$109,746	TOTAL: \$372,185
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R D HUDSON	HQ/J A KAYE	11-Astronomy
	HQ/R E MURPHY	

NAGW 1967 University of Maryland - College Park 4759
NAGW-1967/UNIV OF MD/PRIMARY PRODUCTION MODELLING IN THE SAHEL USING NOAA AVHRR DATA

<i>Period</i>	<i>Obligations</i>	
02/16/1990-09/30/1997	FY95: \$462,000	TOTAL: \$847,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S D PRINCE	HQ/G ASRAR	39-Env Sci, NEC
	HQ/T J PIEPER	

NAGW 2723 University of Maryland - College Park 4767
GLOBAL MAPPING OF VEGETATIVE LAND COVER

<i>Period</i>	<i>Obligations</i>	
09/10/1991-08/14/1995	FY95:	TOTAL: \$436,972
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J R TOWNSHEND	HQ/R H WARING	39-Env Sci, NEC
	HQ/R E MURPHY	

NAGW 1990 University of Maryland - College Park 4760
RESEARCH ON TECHNIQUES FOR MEASUREMENTS OF THE COMPOSITION OF SOLAR ENERGETIC PARTICLES

<i>Period</i>	<i>Obligations</i>	
04/30/1990-10/31/1995	FY95: \$110,000	TOTAL: \$645,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G M MASON	HQ/W V JONES	13-Physics
	HQ/J C LING	

NAGW 2062 University of Maryland - College Park 4761
NAGW-2062/UNIV OF MARYLAND @ COLLEGE PARK/RESEARCH IN CHARGED PARTICLE TRANSPORT THEORY

<i>Period</i>	<i>Obligations</i>	
05/05/1990-03/31/1998	FY95: \$30,000	TOTAL: \$180,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A EARL	HQ/W V JONES	13-Physics
	HQ/J C LING	

NAGW 2777 University of Maryland - College Park 4768
A PROPOSAL FOR ESTABLISHMENT OF A NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CENTER

<i>Period</i>	<i>Obligations</i>	
12/09/1991-10/31/1995	FY95: \$925,000	TOTAL: \$3,866,722
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J BARAS	HQ/V CEVENINI	99-Multi-Discip
A EPHREMIDES	HQ/C PITTMAN	

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAGW 2805 University of Maryland - College Park 4769
EMERGENCE OF SELF-REPRODUCING STRUCTURES IN CELLUL AR
AUTOMATION
Period *Obligations*
01/17/1992-01/14/1995 FY95: TOTAL: \$446,846
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A REGGIA HQ/J K ALEXANDER 51-Biological Sci
HQ/D A HOLLAND

NAGW 2928 University of Maryland - College Park 4770
AN ANALYSIS OF TOPOGRAPHIC EFFECTS AND SCALING PRO
PERTIES
Period *Obligations*
12/14/1992-12/31/1994 FY95: TOTAL: \$285,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R DUBAYAH HQ/R E MURPHY 19-Phys Sci, NEC
HQ/D M BUTLER

NAGW 2952 University of Maryland - College Park 4771
A EUROPEAN SUB-NODE FOR THE PDS SMALL BODIES NODE
Period *Obligations*
03/03/1992-12/31/1994 FY95: TOTAL: \$91,792
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M F A'HEARN HQ/W L QUAIDE 11-Astronomy

NAGW 3066 University of Maryland - College Park 4772
A LABORATORY OBSERVATIONAL STUDY OF THE CHEMICAL E
VOLUION OF PROTOSTELLAR NEBULAE
Period *Obligations*
04/28/1992-12/31/1995 FY95: \$60,000 TOTAL: \$120,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L MUNDY HQ/J A NUTH,III 19-Phys Sci, NEC

NAGW 3086 University of Maryland - College Park 4773
SEA LEVEL AND PRESSURE VARIATIONS IN THE WESTERN
TROPICAL ATLANTIC
Period *Obligations*
05/29/1992-05/31/1994 FY95: TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A CARTON HQ/D ADAMEC 33-Oceanography
HQ/R A SCHIFFER

NAGW 3193 University of Maryland - College Park 4774
NAGW-3193/UNIV MARYLAND @ COLLEGE PARK/ABSORBED PH
OTOSYNTHETICALLY ACTIVE RADIATION AND SURFACE HEMIS
Period *Obligations*
09/24/1992-06/30/1997 FY95: TOTAL: \$100,781
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C L WALTHALL HQ/D E WICKLAND 39-Env Sci, NEC
J R IRONS HQ/R E MURPHY
R HALTHORE

NAGW 3222 University of Maryland - College Park 4775
NAGW-3222/UNIV MARYLAND @ COLLEGE PARK/STUDIES OF THE
WESTWARD ELECTROJET AND FIELD-ALIGNED CURRENTS
Period *Obligations*
10/21/1992-05/31/1996 FY95: TOTAL: \$89,231
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R LOPEZ HQ/E C WIPPLE 13-Physics
HQ/J D BOHLIN

NAGW 3235 University of Maryland - College Park 4776
NAGW-3235/UNIV MARYLAND @ COLLEGE PARK/DETECTING THE
LOCATION, SPATIAL EXTENT, RATES AND IMPACTS
Period *Obligations*
10/26/1992-12/31/1996 FY95: \$869,843 TOTAL: \$1,791,069
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J TOWNSHEND HQ/M E MAIDEN 39-Env Sci, NEC
HQ/D M BUTLER

NAGW 3309 University of Maryland - College Park 4777
MONITORING MARS WATER VAPOR WITH THE VLA
Period *Obligations*
01/06/1993-11/30/1995 FY95: \$34,000 TOTAL: \$118,709
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A W GROSSMAN HQ/G C BRINTON 11-Astronomy

NAGW 3456 University of Maryland - College Park 4778
PULSED ACCELERATION IN SOLAR FLARES
Period *Obligations*
04/02/1993-06/30/1996 FY95: \$62,984 TOTAL: \$177,485
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J ASEHWANDEN HQ/W J WAGNER 33-Oceanography
HQ/J D BOHLIN

NAGW 3526 University of Maryland - College Park 4779
NAGW-3526/UNIV MARYLAND/COSMIC RAY PROTON AND HELIUM
SPECTRA IN A BALLOON BORNE EXPERIMENT
Period *Obligations*
04/22/1993-02/29/1996 FY95: \$114,000 TOTAL: \$344,770
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E SEO HQ/W V JONES 13-Physics
HQ/G L WITHBROE

NAGW 3588 University of Maryland - College Park 4780
AQUEOUS GEOCHEMISTRY, VOLCANOLOGY, AND THE EVOLUTI ON
OF THE MARTIAN ATMOSPHERE
Period *Obligations*
05/14/1993-02/29/1996 FY95: \$30,500 TOTAL: \$92,855
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M W SCHAEFER HQ/J M BOYCE 32-Geological Sci

NAGW 3596 University of Maryland - College Park 4781
DYNAMICAL MODELING AND PREDICTION OF SUBSTORMS
Period *Obligations*
06/11/1993-01/31/1996 FY95: \$77,000 TOTAL: \$220,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A SHARMA HQ/E C WHIPPLE 13-Physics
HQ/G L WITHBROE

NAGW 3598 University of Maryland - College Park 4782
SURFACE COMPOSITION OF IO
Period *Obligations*
05/26/1993-03/31/1996 FY95: \$71,554 TOTAL: \$186,837
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R KHANNA HQ/H C BRINTON 19-Phys Sci, NEC

NAGW 3625 University of Maryland - College Park 4783
RE-OS ISOTOPE INVESTIGATION OF METEORITES
Period *Obligations*
06/03/1993-07/31/1996 FY95: \$63,603 TOTAL: \$194,156
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R WALKER HQ/J BOYCE 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAGW 3640 University of Maryland - College Park 4784
CRYOGENIC MONOCRYSTALLINE OPTICAL CAVITY FOR LASER STABILIZATION AND PRECISE TIME MEASUREMENTS
Period *Obligations*
06/15/1993-03/31/1996 FY95: \$55,000 TOTAL: \$165,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J RICHARD HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NAGW 3715 University of Maryland - College Park 4785
CENTER FOR HYPERSONIC EDUCATION AND RESEARCH
Period *Obligations*
08/24/1993-08/31/1995 FY95: \$200,000 TOTAL: \$399,994
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J LEWIS HQ/S M WANDER 49-Engr, NEC

NAGW 3729 University of Maryland - College Park 4786
EVOLUTION OF AEROSOL SIZE DISTRIBUTION IN THE CLOUD BY BOUNDARY LAYER
Period *Obligations*
09/09/1993-08/31/1996 FY95: TOTAL: \$69,843
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G BLUTH HQ/M BALTUCK 31-Atmos Sci
HQ/A C JANETOS

NAGW 3758 University of Maryland - College Park 4787
MONITORING AND MODELING THE DYNAMICS OF COASTAL MARSHES: REGIONAL APPROACH USING LANDSAT DATA
Period *Obligations*
09/29/1993-09/30/1997 FY95: \$382,764 TOTAL: \$582,648
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M KEARNEY HQ/D M BUTLER 39-Env Sci, NEC

NAGW 3771 University of Maryland - College Park 4788
SUPPORT OF THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AVHRR PATHFINDER DATA SET PRODUCTION
Period *Obligations*
10/12/1993-05/31/1995 FY95: TOTAL: \$39,025
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R TOWNSHEND HQ/M E MAIDEN 39-Env Sci, NEC
HQ/D M BUTLER

NAGW 3791 University of Maryland - College Park 4789
NUCLEAR ELECTRIC PROPULSION SPACE TEST
Period *Obligations*
10/28/1993-08/30/1994 FY95: TOTAL: \$138,071
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R SAGDEEV HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAGW 4000 University of Maryland - College Park 4790
NAGW-4000/B UNIV. MD AT COLLEGE PARK 12 MO. ORGAN. AND COORD. OF SYMPOSIUM ON THE VALUE...
Period *Obligations*
05/14/1994-04/30/1995 FY95: TOTAL: \$74,993
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C S LIU HQ/C B PILCHER 99-Multi-Discip

NAGW 4010 University of Maryland - College Park 4791
MICROWAVE OBSERVATIONS OF JUPITER'S DEEP ATMOSPHERE AND CONSEQUENCES OF THE IMPACT OF COMET SHOEMAK
Period *Obligations*
05/25/1994-09/30/1995 FY95: TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A GROSSMAN HQ/J H RAHE 11-Astronomy

NAGW 4034 University of Maryland - College Park 4792
RANGER TELEROBOTICS FLIGHT EXPERIMENT
Period *Obligations*
06/17/1994-02/28/1996 FY95: TOTAL: \$2,750,049
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D L AKIN HQ/D B LAVERY 42-Astro Engr

NAGW 4070 University of Maryland - College Park 4793
SEARCH FOR CN EMISSION IN PLANET CROSSING ASTEROID S
Period *Obligations*
07/12/1994-03/31/1996 FY95: TOTAL: \$96,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L MCFADDEN HQ/J H RAHE 11-Astronomy

NAGW 4094 University of Maryland - College Park 4794
PRECOLLEGE SCIENCE EDUCATION WORKSHOP
Period *Obligations*
08/01/1994-04/01/1995 FY95: TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E LOPEZ HQ/M V PHELPS 99-Multi-Discip

NAGW 4188 University of Maryland - College Park 4795
BIOSPHERIC MONITORING FROM SPACE: ENVIRONMENTAL CONSTRAINTS ON PRIMARY PRODUCTION
Period *Obligations*
11/22/1994-08/31/1997 FY95: \$137,778 TOTAL: \$137,778
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S N GOWARD HQ/D E WICKLAND 39-Env Sci, NEC
HQ/A C JANETOS

NAGW 4206 University of Maryland - College Park 4796
GLOBAL MAPPING OF VEGETATIVE LAND COVER
Period *Obligations*
11/15/1994-08/14/1996 FY95: \$386,997 TOTAL: \$386,997
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R TOWNSHEND HQ/D E WICKLAND 39-Env Sci, NEC
R DEFRIES HQ/A C JANETOS
C JUSTICE

NAGW 4226 University of Maryland - College Park 4797
COMMERCIAL MICROGRAVITY TECHNOLOGIES SYMPOSIUM
Period *Obligations*
12/12/1994-04/30/1995 FY95: \$8,525 TOTAL: \$8,525
Prin. Invest. *NASA Tech. Officer* *CASE Category*
N DECLARIS HQ/T R BRUNEEL 56-Medical Sciences

NAGW 4269 University of Maryland - College Park 4798
MEASUREMENT OF THE SPIN VECTOR OF THE LAGEOS SPACE CRAFT
Period *Obligations*
01/25/1995-12/31/1995 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D CURRIE HQ/H HASAN 11-Astronomy
HQ/E J WEILER

NAGW 4285 University of Maryland - College Park 4799
A STUDY OF THE SURFACE PROPERTIES AND ICE DYNAMICS OF THE GREENLAND ICE SHEET
Period *Obligations*
01/31/1995-12/31/1997 FY95: \$140,111 TOTAL: \$140,111
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M FAHNESTOCK HQ/R H THOMAS 39-Env Sci, NEC
HQ/M BALTUCK

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAGW 4347 University of Maryland - College Park 4800
UNIVERSITY ADVANCED DESIGN PROGRAM

<i>Period</i>	<i>Obligations</i>	
03/21/1995-02/28/1996	FY95: \$17,350	TOTAL: \$17,350
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M LEWIS	HQ/A S MCGEE	49-Engr, NEC
	HQ/G JOHNSTON	

NAGW 4348 University of Maryland - College Park 4801
A COUPLED ICE-OCEAN MODEL OF MESOSCALE PHYSICAL/BIOLOGICAL INTERACTIONS IN THE SOUTHERN OCEAN

<i>Period</i>	<i>Obligations</i>	
03/22/1995-08/25/1995	FY95: \$46,552	TOTAL: \$46,552
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K ARRIGO	HQ/M BALTUCK	33-Oceanography
S HAKKINEN	HQ/R C HARRISS	

NAGW 4538 University of Maryland - College Park 4802
ADVANCED THIN IONIZATION CALORIMETER (ATIC)

<i>Period</i>	<i>Obligations</i>	
05/26/1995-02/29/1996	FY95: \$60,172	TOTAL: \$60,172
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F B MCDONALD	HQ/W V JONES	13-Physics
	HQ/J D BOHLIN	

NAGW 4554 University of Maryland - College Park 4803
TOPOGRAPHIC EFFECTS ON SOLAR RADIATION AND REMOTE Y SENSED RADIANCES

<i>Period</i>	<i>Obligations</i>	
06/09/1995-06/30/1998	FY95: \$61,627	TOTAL: \$61,627
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R DUBAYAH	HQ/D E WICKLAND	39-Env Sci, NEC
S LLANG	HQ/A C JANETOS	

NAGW 4569 University of Maryland - College Park 4804
RADIO INVESTIGATION OF THE SOLAR CORONA IN CONJUNCTION WITH YOHKOH SXT AND HXT EXPERIMENTS

<i>Period</i>	<i>Obligations</i>	
06/12/1995-03/31/1996	FY95: \$99,870	TOTAL: \$99,870
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M R KUNDU	HQ/W J WAGNER	13-Physics
	HQ/J D BOHLIN	

NAGW 4580 University of Maryland - College Park 4805
GLOBAL HELIOSPHERIC STRUCTURE AND DYNAMICS

<i>Period</i>	<i>Obligations</i>	
06/28/1995-03/14/1998	FY95: \$25,000	TOTAL: \$25,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C C GOODRICH	HQ/W V JONES	13-Physics
	HQ/J D BOHLIN	

NAGW 4581 University of Maryland - College Park 4806
TRACING CHROMOSPHERIC EVAPORATION IN RADIO AND SOFT X-RAYS

<i>Period</i>	<i>Obligations</i>	
06/21/1995-03/30/1996	FY95: \$56,000	TOTAL: \$56,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M J ASCHWANDEN	HQ/W J WAGNER	13-Physics
	HQ/J D BOHLIN	

NAGW 4661 University of Maryland - College Park 4807
DEVELOPMENT AND TESTING OF OPERATIONAL ATMOSPHERIC CORRECTION OF SATELLITE DATA FOR THE NSF-LTER SI

<i>Period</i>	<i>Obligations</i>	
08/16/1995-04/30/1997	FY95: \$93,869	TOTAL: \$93,869
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E VERMOTE	HQ/D E WICKLAND	39-Env Sci, NEC
J CASTLE	HQ/A C JANETOS	
J C ROGER		

NAGW 4662 University of Maryland - College Park 4808
SMALL BODIES NODE OF THE PLANETARY DATA SYSTEM

<i>Period</i>	<i>Obligations</i>	
07/28/1995-02/29/1996	FY95: \$203,500	TOTAL: \$203,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M F A'HEARN	HQ/J BERSTRALH	99-Multi-Discip

NAGW 4664 University of Maryland - College Park 4809
AN INVESTIGATION OF CORONAL STRUCTURE AND SHOCK SOURCES USING SORS RADIO SPECTROMETER OBSERVATIONS

<i>Period</i>	<i>Obligations</i>	
09/13/1995-05/31/1996	FY95: \$35,035	TOTAL: \$35,035
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
N N GOPALSWAMY	HQ/W J WAGNER	13-Physics
	HQ/J D BOHLIN	

NAGW 4670 University of Maryland - College Park 4810
PARALLAXES AND PROPER MOTIONS OF BRIGHTEST MEMBERS OF ASTROPHYSICALLY PUZZLING CLASSES OF STARS

<i>Period</i>	<i>Obligations</i>	
09/15/1995-08/31/1996	FY95: \$34,125	TOTAL: \$34,125
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
V TRIMBLE	HQ/R V STACHNIK	11-Astronomy
	HQ/E J WEILER	

NAGW 4700 University of Maryland - College Park 4811
THE UNITY OF ACTIVITY IN GALAXIES

<i>Period</i>	<i>Obligations</i>	
08/10/1995-10/31/1996	FY95: \$129,200	TOTAL: \$129,200
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P A WILSON	HQ/G R RIEGLER	11-Astronomy

NAGW 4740 University of Maryland - College Park 4812
EVALUATION OF SURFACE RADIATION BUDGET ALGORITHMS WITH PATHFINDER DATA

<i>Period</i>	<i>Obligations</i>	
09/07/1995-06/30/1997	FY95: \$83,057	TOTAL: \$83,057
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R T PINKER	HQ/M E MAIDEN	31-Atmos Sci

NAGW 4782 University of Maryland - College Park 4813
SUPPORT OF NASA AVHRRR PATHFINDER DATA SET PRODUCT ION

<i>Period</i>	<i>Obligations</i>	
09/22/1995-07/31/1996	FY95: \$39,211	TOTAL: \$39,211
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J TOWNSHEND	HQ/M E MAIDEN	39-Env Sci, NEC

NAGW 4790 University of Maryland - College Park 4814
A VERSION TWO AVHRR MULTIREOLUTION LAND PATHFINDER DATA SET

<i>Period</i>	<i>Obligations</i>	
09/22/1995-06/30/1998	FY95: \$241,514	TOTAL: \$241,514
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J TOWNSHEND	HQ/M E MAIDEN	39-Env Sci, NEC
E VORMOTE		

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NAS 3-25370 University of Maryland - College Park 4815
CRITICAL FLUID LIGHT SCATTERING EXPERIMENTS (ZENO)
Period Obligations
12/22/1988-04/06/1996 FY95: \$698,000 TOTAL: \$22,476,999
Prin. Invest. NASA Tech. Officer CASE Category
R W GAMMON LERC/R W LAUVER 49-Engr, NEC

NAS 8-38137 University of Maryland - College Park 4823
DEVELOPEMNT OF A 3 AXIS SUPERCONDUCTING GRAVITY
GRADIOMETER FOR SPACE- BORNE GRAVITY SURVEY
Period Obligations
06/29/1989-12/31/1995 FY95: TOTAL: \$1,538,669
Prin. Invest. NASA Tech. Officer CASE Category
H J PAIK MSFC/S H MORGAN JR. 42-Astro Engr
M V MOODY

NAS 5-30370 University of Maryland - College Park 4816
SOLAR WIND AND SUPERTHERMAL ION COMPOSITION
INSTRUMENT
Period Obligations
03/10/1989-08/16/1995 FY95: TOTAL: \$4,311,500
Prin. Invest. NASA Tech. Officer CASE Category
S GLOECKLER GSFC/D CROSBY 41-Aero Engr

NASW 4885 University of Maryland - College Park 4824
IN-STEP PROGRAM PHASE A AWARD
Period Obligations
05/12/1994-02/12/1995 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
H J PAIK HQ/J LANDERS 99-Multi-Discip

NAS 5-30704 University of Maryland - College Park 4817
LETTER CONTRACT FOR SOLAR ANOMALOUS AND
MAGETOSPHERIC
Period Obligations
08/02/1989-07/31/1995 FY95: \$68,599 TOTAL: \$8,627,599
Prin. Invest. NASA Tech. Officer CASE Category
G M MASON GSFC/W R NAGEL 13-Physics

NCA 2-624 University of Maryland - College Park 4825
NUMERICAL EXPERIMENTS CONCERNING THE UNSTEADY FLOW
IN HYPERSONIC IMPULSE FACILITIES
Period Obligations
06/17/1991-12/31/1993 FY95: TOTAL: \$39,634
Prin. Invest. NASA Tech. Officer CASE Category
M J LEWIS ARC/G S DEIWERT 41-Aero Engr
J D ANDERSON

NAS 5-30927 University of Maryland - College Park 4818
REFURBISH AND FABRICATE STEP INSTRUMENT
Period Obligations
07/03/1990-04/30/1995 FY95: \$1,824 TOTAL: \$924,824
Prin. Invest. NASA Tech. Officer CASE Category
G M MASON GSFC/T VON ROSENVINGE 31-Atmos Sci

NCC 2-829 University of Maryland - College Park 4826
EVALUATION OF METHODOLGY FOR TESTING AND ANALYSIS OF
ADVANCED ROTORS
Period Obligations
09/30/1993-12/31/1995 FY95: \$60,000 TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
I CHOPRA ARC/W G WARBRODT 41-Aero Engr
F HARRIS ARC/F FELKER

NAS 5-31166 University of Maryland - College Park 4819
ISTP INVESTIGATION DEFINITION PHASE SOHO'S CELIAS
Period Obligations
06/01/1990-10/31/1995 FY95: \$514,803 TOTAL: \$3,457,903
Prin. Invest. NASA Tech. Officer CASE Category
F IPAVICH GSFC/L CHRISTENSEN 31-Atmos Sci

NCC 2-5003 University of Maryland - College Park 4827
THE VELOCITY AND VORTICITY FIELDS OF THE TURBULENT NEAR
WAKE OF A CIRCULAR CYLINDER
Period Obligations
09/28/1993-10/31/1994 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
J M WALLACE ARC/P MOIN 41-Aero Engr

NAS 5-31365 University of Maryland - College Park 4820
EOS EXECUTION PHASE
Period Obligations
01/02/1992-12/14/2001 FY95: \$475,000 TOTAL: \$1,241,790
Prin. Invest. NASA Tech. Officer CASE Category
C JUSTICE GSFC/H OSEROFF 39-Env Sci, NEC

NCC 2-5160 University of Maryland - College Park 4828
DEVELOPMENT OF HIGH FORCE, HIGH DIS0PLACEMENT SMAR T
ACTUATOR FOR A ROTOR
Period Obligations
09/11/1995-09/14/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
I CHOPRA ARC/C TUNG 99-Multi-Discip

NAS 5-31732 University of Maryland - College Park 4821
R AND D STUDIES IN BIOSHPERE-ATOMOSPHERE INTERACTIONS
Period Obligations
11/22/1991-12/31/1999 FY95: \$127,100 TOTAL: \$678,400
Prin. Invest. NASA Tech. Officer CASE Category
C JUSTICE GSFC/P SELLERS 31-Atmos Sci

NCC 5-26 University of Maryland - College Park 4829
ANALYSIS OF TERRESTRIAL CONDITIONS AND DYNAMICS
Period Obligations
12/01/1982-10/31/1994 FY95: \$5,024 TOTAL: \$1,551,510
Prin. Invest. NASA Tech. Officer CASE Category
S N GOWARD GSFC/E M MIDDLETON 31-Atmos Sci
C WALTHALL GSFC/C J TUCKER

NAS 5-32378 University of Maryland - College Park 4822
ATM/ACTS INTERFACE
Period Obligations
06/20/1995-06/19/1996 FY95: \$39,942 TOTAL: \$39,942
Prin. Invest. NASA Tech. Officer CASE Category
J S BARAS GSFC/P GARY 31-Atmos Sci

NCC 5-35 University of Maryland - College Park 4830
RESEARCH RELATIVE TO ATMOSPHERIC PHYSICS AND
SPACECRAFT APPLICATIONS STUDIES
Period Obligations
11/14/1985-07/31/1995 FY95: \$11,000 TOTAL: \$4,232,001
Prin. Invest. NASA Tech. Officer CASE Category
S W GREENWOOD GSFC/W R HOEGY 19-Phys Sci, NEC
GSFC/F HERRERO

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NCC 5-39 University of Maryland - College Park 4831
RESEARCH ATMOSPHERIC SCIENCES--SUMMER INSTITUTE
Period *Obligations*
07/15/1988-04/30/1996 FY95: \$67,839 TOTAL: \$742,563
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F BAER GSFC/E R KREINS 31-Atmos Sci

NCC 5-86 University of Maryland - College Park 4839
ATMOSPHERIC EFFECTS OF MID-SIZED VOLCANIC ERUPTION
Period *Obligations*
03/28/1995-04/30/1996 FY95: \$69,078 TOTAL: \$69,078
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C C SCHNETZLER GSFC/A KRUEGER 39-Env Sci, NEC

NCC 5-54 University of Maryland - College Park 4832
COOPERATIVE RESEARCH IN SATELLITE BASED STUDIES OF
PHOTONS AND CHARGED PARTICLES
Period *Obligations*
08/04/1993-08/14/1996 FY95: \$908,162 TOTAL: \$2,575,609
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J TRASCO GSFC/A K HARDING 13-Physics

NCC 5-87 University of Maryland - College Park 4840
AN INVESTIGATION OF THE FORMATION, GROWTH AND
STRUCTURE OF ASTROPHYSICAL SILICATE DUST BY IR....
Period *Obligations*
04/05/1995-04/14/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R KHANNA GSFC/J A NUTH 11-Astronomy

NCC 5-55 University of Maryland - College Park 4833
JOINT CENTER FOR EARTH SYSTEM SCIENCE
Period *Obligations*
09/22/1993-10/31/1995 FY95: \$922,908 TOTAL: \$1,366,829
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D HUDSON GSFC/F EINAUDI 11-Astronomy
GSFC/C E COTE

NCC 5-94 University of Maryland - College Park 4841
COOPERATIVE RESEARCH IN SPACE SCIENCES
Period *Obligations*
07/10/1995-02/29/1996 FY95: \$208,290 TOTAL: \$208,290
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J D TRASCO GSFC/T KOSTIUK 11-Astronomy
M LEVETHAL

NCC 5-58 University of Maryland - College Park 4834
STUDY OF IMPACT CRATERS ON THE TERRESTRIAL PLANETS
Period *Obligations*
10/22/1993-10/31/1994 FY95: TOTAL: \$4,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C C SCHNETZLER GSFC/J B GARVIN 32-Geological Sci

NCC 8-25 University of Maryland - College Park 4842
GAMMA RAY STUDIES
Period *Obligations*
09/10/1993-12/09/1994 FY95: TOTAL: \$31,281
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R SAGDEEV MSFC/G FISHMAN 11-Astronomy

NCC 5-59 University of Maryland - College Park 4835
UNIVERSITY OF MARYLAND PROGRAM IN TERRESTRIAL AND
PLANETARY GEOLOGY AND GEOPHYSICS
Period *Obligations*
11/15/1993-11/14/1994 FY95: \$113,228 TOTAL: \$148,191
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M SCHAEFER GSFC/S COHEN 11-Astronomy

NCC 8-70 University of Maryland - College Park 4843
BATSE STUDIES
Period *Obligations*
03/13/1995-03/12/1996 FY95: \$17,964 TOTAL: \$17,964
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I M MITROFANOV MSFC/G J FISHMAN 11-Astronomy
R SAGDEEV

NCC 5-60 University of Maryland - College Park 4836
COOPERATIVE RESEARCH IN SPACE GEODESY AND CRUSTAL
DYNAMICS
Period *Obligations*
12/06/1993-11/30/1995 FY95: \$303,385 TOTAL: \$646,325
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E C PAVLIS GSFC/P MC CLAIN 11-Astronomy
J D TRASCO

NCCW 38 University of Maryland - College Park 4844
EVA INSTRUMENTATION FLIGHT EXPERIMENT
Period *Obligations*
03/08/1994-04/30/1996 FY95: \$50,000 TOTAL: \$149,834
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D L AKIN HQ/R A GUALDONI 41-Aero Engr
B SORENSON

NCC 5-81 University of Maryland - College Park 4837
SCANNING RAMAN LIDAR TO MEASURE WATER VAPOR AND AE
ROSOLS FOR THE STUDY OF ATMOSPHERIC RADIATIVE....
Period *Obligations*
11/18/1994-11/30/1995 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R ELLINGSON GSFC/G K SCHWEMMER 31-Atmos Sci
S H MELFI GSFC/R F ADLER
R A FERRARE

NCCW 39 University of Maryland - College Park 4845
NCCW-0039/B UNIV. OF MD COLLEGE PK 'FLIGHT TESTING OF A
WATER CAPILLARY PUMPED LOOP' 12-MONTH AWARD
Period *Obligations*
03/30/1994-02/29/1996 FY95: \$154,796 TOTAL: \$199,896
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K R KOLOS HQ/R GUALDONI 13-Physics

NCC 5-85 University of Maryland - College Park 4838
ESTABLISHMENT OF FLIGHT DYNAMICS AND CONTROL
LABORATORY
Period *Obligations*
03/22/1995-03/31/1996 FY95: \$130,391 TOTAL: \$130,391
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D K SCHMIDT GSFC/P L CROUSE 42-Astro Engr
GSFC/T H STENGLE

NCCW 69 University of Maryland - College Park 4846
COOPERATIVE PROGRAM IN U.S. RUSSIAN SPACE TECHNOLOGY
Period *Obligations*
01/11/1995-12/31/1995 FY95: \$442,590 TOTAL: \$442,590
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R SAGDEEV HQ/G LESANE 59-Life Sci, NEC

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NCCW 80 University of Maryland - College Park 4847
 DEVELOPMENT OF THE RANGER TELEROBOTIC FLIGHT EXPERIMENT

<i>Period</i>	<i>Obligations</i>	
08/16/1995-03/31/1996	FY95: \$2,300,000	TOTAL: \$2,300,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D L AKIN	HQ/D LAVERY	42-Astro Engr

NGT 00-030-332 University of Maryland - College Park 4855
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/31/1995-08/31/1998	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B KEDEM	HQ/G ASRAR	31-Atmos Sci
	HQ/R A SCHIFFER	

NGT 00-030-038 University of Maryland - College Park 4848
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/23/1991-12/31/1994	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Y QIAN	HQ/D M BUTLER	22-Computer Science
F BAER	HQ/G S WILSON	

NGT 00-050-718 University of Maryland - College Park 4856
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/15/1991-08/31/1994	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L KANAL	HQ/F C OWENS	21-Mathematics

NGT 00-030-130 University of Maryland - College Park 4849
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/21/1992-08/31/1995	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A C SOFFER	HQ/G ASRAR	39-Env Sci, NEC
	HQ/D M BUTLER	

NGT 00-050-721 University of Maryland - College Park 4857
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
04/30/1991-08/31/1994	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R RAMATY	HQ/F C OWENS	13-Physics

NGT 00-030-168 University of Maryland - College Park 4850
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/23/1993-08/31/1995	FY95:	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S D PRINCE	HQ/G ASRAR	39-Env Sci, NEC
	HQ/D M BUTLER	

NGT 00-050-926 University of Maryland - College Park 4858
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/15/1992-06/30/1996	FY95: \$22,000	TOTAL: \$88,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K E HEROLD	GSFC/G SOFFEN	46-Mech Engr

NGT 00-030-201 University of Maryland - College Park 4851
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/27/1993-08/31/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J R TOWNSHEND	HQ/G ASRAR	39-Env Sci, NEC
	HQ/D M BUTLER	

NGT 00-050-951 University of Maryland - College Park 4859
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/14/1992-08/31/1996	FY95: \$32,765	TOTAL: \$98,765
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J JAJA	GSFC/G SOFFEN	45-Elec Engr

NGT 00-030-242 University of Maryland - College Park 4852
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/22/1994-08/31/1996	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H SOMET	HQ/E LUCIER	22-Computer Science
	HQ/G ASRAR	

NGT 00-050-957 University of Maryland - College Park 4860
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/26/1992-07/31/1995	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A GALVIN	HQ/J K ALEXANDER	13-Physics

NGT 00-030-276 University of Maryland - College Park 4853
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/22/1994-08/31/1997	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S NIGAM	HQ/J S THEON	39-Env Sci, NEC
	HQ/G ASRAR	

NGT 00-051-017 University of Maryland - College Park 4861
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
05/13/1993-06/30/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M DAGENAIS	GSFC/G SOFFEN	45-Elec Engr

NGT 00-030-331 University of Maryland - College Park 4854
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/05/1995-08/31/1998	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J TOWNSHEND	HQ/A C JANETOS	39-Env Sci, NEC
	HQ/G ASRAR	

NGT 00-051-096 University of Maryland - College Park 4862
 GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/07/1993-06/30/1996	FY95:	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R MUSHOTZKY	GSFC/M BURRELL	11-Astronomy

NGT 00-051-181 University of Maryland - College Park 4863
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/29/1993-08/31/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L W HARDING	GSFC/M BURRELL	33-Oceanography

**NASA'S UNIVERSITY PROGRAM
MARYLAND (Continued)**

NGT 00-051-391 University of Maryland - College Park 4864
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/28/1995-08/14/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S W LEE HQ/D GLASCO 41-Aero Engr

NGT 00-060-006 University of Maryland - College Park 4865
SUMMER FACULTY FELLOWSHIP PROGRAM
Period *Obligations*
05/07/1991-12/31/1994 FY95: TOTAL: \$835,318
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H R BOROSON HQ/A S MCGEE 49-Engr, NEC
HQ/E T SCHWARTZ

NGT 00-060-010 University of Maryland - College Park 4866
SUMMER FACULTY FELLOWSHIP PROGRAM
Period *Obligations*
04/26/1994-12/31/1995 FY95: TOTAL: \$512,573
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H R BOROSON HQ/J T LYNCH 11-Astronomy

NGT 00-070-321 University of Maryland - College Park 4867
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
06/29/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M C RABENHORST HQ/D K RUSSELL 99-Multi-Discip

NGT 5-1 University of Maryland - College Park 4868
X-RAY OBSERVATIONS OF GALACTIC NUCLEI
Period *Obligations*
06/22/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A GOODMAN GSFC/G A SOFFEN 11-Astronomy
GSFC/P J SERLEMITOS

NGT 5-2 University of Maryland - College Park 4869
EXAMINING ABUNDANCE ANOMALIES IN GLOBULAR CLUSTER
STARS
Period *Obligations*
06/22/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A BELL GSFC/G A SOFFEN 11-Astronomy
GSFC/A V SWEIGART

NSG-5123 University of Maryland - College Park 4870
EVALUATION OF SOFTWARE ENGR DISCIPLINES
Period *Obligations*
08/01/1976-12/31/1995 FY95: \$365,000 TOTAL: \$3,454,292
Prin. Invest. *NASA Tech. Officer* *CASE Category*
V R BASILI GSFC/R PAJERSKI 22-Computer Science
D H ROMBACH
M V ZELKOWITZ

NAG 5-2765 University of Maryland - Eastern Shore 4871
UNIVERSITY OF MARYLAND EASTERN SHORE ENGINEERING
PROGRAM
Period *Obligations*
10/26/1994-05/31/1996 FY95: \$96,330 TOTAL: \$96,330
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R MULLER GSFC/D MENCHEN 99-Multi-Discip

NCA 5-99 University of Maryland - Eastern Shore 4872
ENGINEERING AND PRE-ENGINEERING ACTIVITIES
Period *Obligations*
06/15/1982-05/31/1994 FY95: TOTAL: \$521,798
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E MULLER GSFC/D MENCHAN 45-Elec Engr
GSFC/J W CHAPMAN

NGT 00-090-045 University of Maryland - Eastern Shore 4873
UNDERGRADUATE STUDENT RESEARCHERS PRG
Period *Obligations*
08/21/1991-08/31/1995 FY95: \$38,619 TOTAL: \$161,712
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B ANDERSON HQ/B WHITE 49-Engr, NEC

NAG 5-2042 Center For Environ & Estuarine Studies 4516
U of Md.
TREE REGENERATION IN SMALL FOREST PATCHES: INTERA CTIONS
OF BROWSING INTENSITY AND ABIOTIC FACTORS
Period *Obligations*
07/15/1992-01/31/1996 FY95: \$16,398 TOTAL: \$88,043
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S W SEAGLE GSFC/G A SOFFEN 54-Env Biology
GSFC/P J SAKIMOTO

NAGW 3891 Center For Environ & Estuarine Studies 4517
U of Md.
USE OF OCEAN COLOR DATA FROM SEAWIFS TO DETECT SEA
SONAL AND INTERANNUAL VARIABILITY OF PHYTOPLANKTON
Period *Obligations*
03/18/1994-03/31/1996 FY95: \$75,753 TOTAL: \$155,495
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L W HARDING HQ/A C JANETOS 33-Oceanography
C F DELIA HQ/D E WICKLAND

NAGW 3947 Center For Environ & Estuarine Studies 4518
U of Md.
EVAL. OF REGIONAL AND TEMPORAL VARIATION OF PRIMARY
PRODUCTIVITY W/IN CASE II SHELF WATERS - SEAWIFS
Period *Obligations*
04/20/1994-02/28/1998 FY95: \$79,275 TOTAL: \$131,766
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T R FISHER HQ/A C JANETOS 33-Oceanography
J HARDING HQ/D E WICKLAND

MASSACHUSETTS

NAG 1-955 Boston College 4898
ENHANCEMENT OF SOLID-STATE INFRARED LASER OUTPUT VIA
INTERIONIC ENERGY TRANSFER
Period *Obligations*
01/17/1989-11/30/1995 FY95: \$45,972 TOTAL: \$239,063
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B DIBARTOLO LARC/P BROCKMAN 13-Physics

NAGW 4578 Boston College 4899
STUDY OF THE SOURCE REGIONS OF CORONAL MASS EJECTI
ONS USING YOHKOH SXT DATA
Period *Obligations*
06/30/1995-04/30/1996 FY95: \$46,307 TOTAL: \$46,307
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D F WEBB HQ/W J WAGNER 13-Physics
HQ/J D BOHLIN

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NGT 00-050-996 Boston College 4900
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/20/1992-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R L CORNVILLANN HQ/J K ALEXANDER 13-Physics

NAG 5-695 Boston University 4908
 A COLLIDING PHOTOIONIZATION SOLAR SPECTROMETER
Period Obligations
 09/10/1992-11/30/1995 FY95: TOTAL: \$270,000
Prin. Invest. NASA Tech. Officer CASE Category
 S CHAKRABARTI GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 1-1580 Boston University 4901
 SONIC BOOMS IN THE TURBULENT ATMOSPHERE
Period Obligations
 02/18/1994-02/16/1996 FY95: \$68,454 TOTAL: \$138,454
Prin. Invest. NASA Tech. Officer CASE Category
 A D PIERCE LARC/G L MCANINCH 41-Aero Engr

NAG 5-1566 Boston University 4909
 GAMMA RAY EMISSION FROM RADIO-LOUD QUASARS
Period Obligations
 04/17/1991-11/14/1993 FY95: TOTAL: \$108,777
Prin. Invest. NASA Tech. Officer CASE Category
 A P MARSCHER GSFC/J NORRIS 11-Astronomy
 GSFC/D A KNIFFEN

NAG 1-1688 Boston University 4902
 COMPUTATIONAL AEROACOUSTICS OF FLUID-ELASTIC STRUCTURE INTERACTIONS -- MY 1/2
Period Obligations
 02/16/1995-02/14/1996 FY95: \$30,757 TOTAL: \$30,757
Prin. Invest. NASA Tech. Officer CASE Category
 M S HOWE LARC/J C HARDIN 49-Engr, NEC

NAG 5-1943 Boston University 4910
 ROSAT/VLBI/JCMT OBSERVATIONS OF FLAT SPECTRUM RADIO SOURCES
Period Obligations
 03/16/1992-09/30/1995 FY95: TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 A P MARSCHER GSFC/R PETRE 11-Astronomy

NAG 1-1712 Boston University 4903
 TESTING AND IMPLEMENTATION OF ADVANCED REYNOLDS STRESS MODELS
Period Obligations
 03/20/1995-03/19/1996 FY95: \$8,313 TOTAL: \$8,313
Prin. Invest. NASA Tech. Officer CASE Category
 C G SPEZIALE LARC/T B GATSKI 41-Aero Engr

NAG 5-1997 Boston University 4911
 LOW MASS STARS IN BOK GLOBULES
Period Obligations
 06/12/1992-06/14/1996 FY95: \$29,400 TOTAL: \$87,491
Prin. Invest. NASA Tech. Officer CASE Category
 D P CLEMENS GSFC/D WEST 11-Astronomy

NAG 2-1013 Boston University 4904
 SENSITIVE DETECTION OF MYOSIN HEAVY CHAIN EXPRESSION IN SKELETAL MUSCLE FROM RATS
Period Obligations
 09/21/1995-12/31/1995 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 S KANDARIAN ARC/W E HINDS 51-Biological Sci

NAG 5-2028 Boston University 4912
 GAMMA-RAY EMISSION FROM THE STARBURST GALAXY NGC 2 53
Period Obligations
 07/08/1992-07/14/1994 FY95: TOTAL: \$49,952
Prin. Invest. NASA Tech. Officer CASE Category
 J M JACKSON GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-640 Boston University 4905
 NEAR EARTH SPACE ENVIRONMENT EXPERIMENT
Period Obligations
 01/08/1987-12/31/1994 FY95: TOTAL: \$765,586
Prin. Invest. NASA Tech. Officer CASE Category
 M MENDILLO GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-2260 Boston University 4913
 FIRST MEASUREMENTS OF HELIUM ON MARS
Period Obligations
 05/04/1993-05/14/1996 FY95: TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
 S CHAKRABARTI GSFC/D WEST 11-Astronomy

NAG 5-690 Boston University 4906
 A SOUNDING ROCKET PROGRAM IN EXTREME AND FAR UV INTERFEROMETRY
Period Obligations
 04/29/1992-06/30/1996 FY95: \$275,000 TOTAL: \$1,067,000
Prin. Invest. NASA Tech. Officer CASE Category
 S CHAKRABARTI GSFC/R H PLESS 13-Physics

NAG 5-2266 Boston University 4914
 CLUSTER RAPID IMAGING ELECTRON SPECTROMETER EFFORT
Period Obligations
 05/07/1993-12/31/1995 FY95: \$231,833 TOTAL: \$351,233
Prin. Invest. NASA Tech. Officer CASE Category
 T A FRITZ GSFC/M L GOLDSTEIN 13-Physics

NAG 5-694 Boston University 4907
 PARTICIPATION IN THE GEMINI ROCKET PROGRAM
Period Obligations
 06/19/1992-12/31/1993 FY95: TOTAL: \$69,610
Prin. Invest. NASA Tech. Officer CASE Category
 S CHAKRABARTI GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-2508 Boston University 4915
 INVESTIGATION OF HIGH ENERGY GAMMA-RAY EMISSION FROM AGN'S: A DEEP EXPOSURE AT HIGH GALACTIC...
Period Obligations
 02/10/1994-02/29/1996 FY95: \$65,600 TOTAL: \$166,912
Prin. Invest. NASA Tech. Officer CASE Category
 A P MARSCHER GSFC/J P NORRIS 11-Astronomy
 R C HARTMAN GSFC/N WHITE

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAG 5-2578 Boston University 4916
 GGS POLAR CAMMICE FLIGHT PREPARATIONA ND IANDT PHASE
Period Obligations
 04/14/1994-12/31/1995 FY95: \$121,000 TOTAL: \$171,000
Prin. Invest. NASA Tech. Officer CASE Category
 T A FRITZ GSFC/M H ACUNA 13-Physics

NAG 5-2643 Boston University 4917
 HIRES DUST IMAGING OF THE NGC 8334 COMPLEX
Period Obligations
 07/05/1994-07/14/1996 FY95: \$37,600 TOTAL: \$70,600
Prin. Invest. NASA Tech. Officer CASE Category
 J M JACKSON GSFC/D WEST 11-Astronomy

NAG 8-1053 Boston University 4918
 DEVELOPMENT AND EVALUATION OF MULTILAYER COATINGS FOR
 IMAGER ABOARD IMI
Period Obligations
 03/10/1994-08/31/1995 FY95: TOTAL: \$70,645
Prin. Invest. NASA Tech. Officer CASE Category
 S GHAKRABARTI MSFC/C L JOHNSON 31-Atmos Sci

NAGW 1627 Boston University 4919
 MAGNETOSPHERIC SUBSTORMS
Period Obligations
 03/13/1989-07/31/1996 FY95: \$63,000 TOTAL: \$411,285
Prin. Invest. NASA Tech. Officer CASE Category
 W J HUGHES HQ/M M MELLOTT 13-Physics
 HQ/T W PERRY

NAGW 1629 Boston University 4920
 ACTIVE EXPERIMENTS: NEW APPROACHES TO ANALYSIS
Period Obligations
 03/02/1989-02/28/1995 FY95: TOTAL: \$456,250
Prin. Invest. NASA Tech. Officer CASE Category
 M MENDILLO HQ/M M MELLOTT 13-Physics
 HQ/T W PERRY

NAGW 2138 Boston University 4921
 MAGPIE: A MAGNETIC PASSIVE ISOTOPE EXPERIMENT
Period Obligations
 07/30/1990-02/28/1996 FY95: \$120,000 TOTAL: \$660,000
Prin. Invest. NASA Tech. Officer CASE Category
 S P AHLEN HQ/W V JONES 13-Physics
 HQ/J C LING

NAGW 2627 Boston University 4922
 NAGW-2627/BOSTON UNIV/CONFIGURATION OF THE NEAR-EA RTH
 PLASMA SHEET
Period Obligations
 08/19/1991-05/31/1997 FY95: \$60,000 TOTAL: \$294,837
Prin. Invest. NASA Tech. Officer CASE Category
 G M ERICKSON HQ/M M MELLOTT 13-Physics
 HQ/J D BOHLIN

NAGW 2679 Boston University 4923
 STUDIES OF JUPITER'S SODIUM MAGNETO-NEBULA AND OTH ER
 POSSIBLE EXTENDED STRUCTURES
Period Obligations
 07/26/1991-04/30/1996 FY95: TOTAL: \$278,000
Prin. Invest. NASA Tech. Officer CASE Category
 M MENDILLO HQ/M M MELLOTT 13-Physics
 HQ/J D BOHLIN

NAGW 2856 Boston University 4924
 THE INFLUENCE OF GLOBAL CONVECTION ON REGION-1 BIR
 KELAND CURRENT STRUCTURE
Period Obligations
 01/31/1992-03/31/1995 FY95: TOTAL: \$168,484
Prin. Invest. NASA Tech. Officer CASE Category
 G M ERICKSON HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAGW 2890 Boston University 4925
 RING MICROSIGNATURES AT NEPTUNE
Period Obligations
 02/19/1992-09/30/1994 FY95: TOTAL: \$67,034
Prin. Invest. NASA Tech. Officer CASE Category
 W J HUGHES HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 3876 Boston University 4926
 BOSTON UNIV IMAGING SCIENCE IN VEST. OF THE MOON'S
 EXTENDED ATMOSPHERE
Period Obligations
 02/25/1994-02/28/1995 FY95: TOTAL: \$38,400
Prin. Invest. NASA Tech. Officer CASE Category
 M MENDILLO HQ/J H RAHE 11-Astronomy

NAGW 3953 Boston University 4927
 STUDIES OF WESTWARD ELECTROJETS AND FIELD-ALIGNED
 CURRENTS IN THE MAGNETOTAL DURING SUBSTORMS...
Period Obligations
 04/25/1994-02/29/1996 FY95: \$19,978 TOTAL: \$39,937
Prin. Invest. NASA Tech. Officer CASE Category
 H E SPENCE HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAGW 3998 Boston University 4928
 CRRES DATA SETS - A COORDINATED STUDY OF IONOSPHER IC
 PLASMA INSTABILITIES SPANNING THE EQUATOR
Period Obligations
 05/14/1994-06/30/1995 FY95: TOTAL: \$49,000
Prin. Invest. NASA Tech. Officer CASE Category
 M MENDILLO HQ/M M MELLOTT 13-Physics
 HQ/J D BOHLIN

NAGW 4024 Boston University 4929
 SPIFI THE SOUTH PLE IMAGING FABRY PEROT
Period Obligations
 05/24/1994-04/30/1996 FY95: \$34,900 TOTAL: \$83,151
Prin. Invest. NASA Tech. Officer CASE Category
 J M JACKSON HQ/L J CAROFF 11-Astronomy
 HQ

NAGW 4085 Boston University 4930
 THE PULSAUR-II IMAGING ELECTRON SPECTROMETER DATA
 REDUCTION AND ANALYSIS
Period Obligations
 07/19/1994-03/31/1995 FY95: TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 T A FRITZ HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAGW 4196 Boston University 4931
 THEORETICAL STUDIES OF THE PLASMA ENVIRONMENT OF T HE
 OUTER PLANETS
Period Obligations
 11/09/1994-09/30/1995 FY95: \$61,900 TOTAL: \$61,900
Prin. Invest. NASA Tech. Officer CASE Category
 G SISCOE HQ/J BERGSTRALH 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAGW 4488 Boston University 4932
GLOBAL MAGNETIC GEOMETRY
Period Obligations
05/16/1995-04/30/1998 FY95: \$68,000 TOTAL: \$68,000
Prin. Invest. NASA Tech. Officer CASE Category
G L SISCOE HQ/R A HOFFMAN 13-Physics
HQ/J D BOHLIN

NGT 00-051-333 Boston University 4940
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/26/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
S CHAKRABARTI HQ/D HOLLAND 11-Astronomy

NAGW 4537 Boston University 4933
EMPIRICAL MODELING OF THE INNER MAGNETOSPHERIC PLASMA ENVIRONMENT: APPLICATIONS TO MAGNETIC EQ. ST
Period Obligations
06/20/1995-06/30/1998 FY95: \$27,752 TOTAL: \$27,752
Prin. Invest. NASA Tech. Officer CASE Category
H E SPENCE HQ/R A HOFFMAN 13-Physics
HQ/J D BOHLIN

NAGW 4065 Brandeis University 4941
SENSORY-MOTOR CONTROL AND MOTION SICKNESS IN AN ARTIFICIAL GRAVITY ENVIRONMENT
Period Obligations
06/29/1994-03/31/1995 FY95: TOTAL: \$375,000
Prin. Invest. NASA Tech. Officer CASE Category
J R LACKNER HQ/F R SULZMAN 51-Biological Sci

NAGW 4571 Boston University 4934
MAGNETIC TOPOLOGY OF HELIOSPHERIC STRUCTURES
Period Obligations
06/08/1995-03/31/1998 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
N U CROOKER HQ/W V JONES 13-Physics
HQ/J D BOHLIN

NAGW 4374 Brandeis University 4942
MOTOR ADAPTATION TO CORIOLIS AND CONTACT FORCES
Period Obligations
03/31/1995-02/14/1998 FY95: \$196,482 TOTAL: \$196,482
Prin. Invest. NASA Tech. Officer CASE Category
J R LACKNER HQ/F SULZMAN 59-Life Sci, NEC

NAGW 4622 Boston University 4935
USE OF ENERGETIC NEUTRAL ATOMS AS DIAGNOSTICS OF MAGNETOSPHERIC PROCESSES
Period Obligations
08/02/1995-04/30/1998 FY95: \$47,900 TOTAL: \$47,900
Prin. Invest. NASA Tech. Officer CASE Category
M MENDILLO HQ/R A HOFFMAN 13-Physics
HQ/J D BOHLIN

NAGW 4375 Brandeis University 4943
ADAPTATION IN ARTIFICIAL GRAVITY ENVIRONMENTS
Period Obligations
03/31/1995-02/14/1998 FY95: \$221,625 TOTAL: \$221,625
Prin. Invest. NASA Tech. Officer CASE Category
J R LACKNER HQ/F SULZMAN 59-Life Sci, NEC

NAGW 4798 Boston University 4936
ANALYSIS AND INTERPRETATION OF UV SPECTRA FROM THE SL-9 IMPACT SITES
Period Obligations
09/22/1995-08/31/1996 FY95: \$45,000 TOTAL: \$45,000
Prin. Invest. NASA Tech. Officer CASE Category
R YELLE HQ/D BARKER 31-Atmos Sci

NAGW 4733 Brandeis University 4944
GRAYBIEL LABORATORY ROTATING ROOM RESEARCH FACILITY
Period Obligations
09/15/1995-08/31/1996 FY95: \$250,000 TOTAL: \$250,000
Prin. Invest. NASA Tech. Officer CASE Category
J R LACKNER HQ/V SCHNEIDER 59-Life Sci, NEC

NAS 5-31369 Boston University 4937
MODERATE RESOLUTION IMAGING SPECTROMETER INVESTIGATION - LAND COVER CHANGES
Period Obligations
12/30/1991-12/14/2001 FY95: \$554,000 TOTAL: \$1,352,440
Prin. Invest. NASA Tech. Officer CASE Category
W STRAHLER GSFC/H OSEROFF 31-Atmos Sci

NGT 00-051-078 Brandeis University 4945
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/03/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D H ROBERTS HQ/D HOLLAND 42-Astro Engr

NAS 8-36324 Boston University 4938
STUDY ENTITLED RELEASES TO INDUCE PLASMA INSTABILITIES AT THE EQUATOR
Period Obligations
04/16/1985-09/30/1994 FY95: TOTAL: \$2,654,918
Prin. Invest. NASA Tech. Officer CASE Category
M MENDILLO MSFC/D L REASONER 31-Atmos Sci

NAG 8-1011 Bridgewater State College 4946
JOVE
Period Obligations
11/19/1993-05/31/1996 FY95: \$56,000 TOTAL: \$87,000
Prin. Invest. NASA Tech. Officer CASE Category
J SULONOWSKI MSFC/F SIX 31-Atmos Sci
R ENRIGHT

NGT 00-050-878 Boston University 4939
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/14/1992-05/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
T G BIFANO MSFC/F SIX 46-Mech Engr

NAG 3-1402 Clark University 4947
ABSOLUTE AND CONVECTIVE INSTABILITY OF A LIQUID JET AT MICROGRAVITY
Period Obligations
12/29/1992-12/31/1995 FY95: \$65,000 TOTAL: \$201,300
Prin. Invest. NASA Tech. Officer CASE Category
S P LIN LERC/M E HILL 19-Phys Sci, NEC

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAGW 3187 Clark University 4948
 NAGW-3187/CLARK UNIV/THE USE OF SATELLITE IMAGERY IN ASSESSING ENVIRONMENTAL CRITICALITY IN THE
Period Obligations
 08/21/1992-08/31/1995 FY95: TOTAL: \$104,020
Prin. Invest. NASA Tech. Officer CASE Category
 R KASPERSON HQ/M R HELFERT 39-Env Sci, NEC
 B TURNER HQ/D M BUTLER

NAG 1-1759 Harvard University 4955
 THE ORIGIN OF TROPOSPHERIC OZONE OVER THE SOUTH PACIFIC: ANALYSIS OF PEM-TROPIC DATA
Period Obligations
 09/25/1995-09/30/1997 FY95: \$176,962 TOTAL: \$176,962
Prin. Invest. NASA Tech. Officer CASE Category
 D J JACOB LARC/J M HOELL JR 31-Atmos Sci
 D A LOGAN LARC/R J BENDURA

NGT 00-030-179 Clark University 4949
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/01/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J R EASTMAN HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NAG 2-704 Harvard University 4956
 MUSCLE PROTEIN LOSS IN WEIGHTLESS ENVIRONMENTS: ROLE OF THE ATP-UBIQUITIN-DEPENDENT PROTEOLYTIC..
Period Obligations
 05/16/1991-12/31/1994 FY95: TOTAL: \$255,923
Prin. Invest. NASA Tech. Officer CASE Category
 A GOLDBERG ARC/E M HOLTON 51-Biological Sci

NGT 00-030-344 Clark University 4950
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/08/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R E KASPERSON HQ/A C JANETOS 99-Multi-Discip
 HQ/G ASRAR

NAG 2-731 Harvard University 4957
 HIGH SPEED RESEARCH PROGRAM
Period Obligations
 08/26/1991-11/30/1994 FY95: TOTAL: \$486,329
Prin. Invest. NASA Tech. Officer CASE Category
 S C WOFSY ARC/E P CONDON 31-Atmos Sci
 ARC/O B TOON

NAG 1-1305 Harvard University 4951
 HIGH ALTITUDE AIRCRAFT AND BALLOON-BORNE OBSERVATI ON IN EARTH'S STRATOSPHERE
Period Obligations
 08/28/1991-12/31/1995 FY95: \$1,799,999 TOTAL: \$8,432,079
Prin. Invest. NASA Tech. Officer CASE Category
 J G ANDERSON LARC/L R POOLE 31-Atmos Sci

NAG 2-843 Harvard University 4958
 MICROBIAL BIOFILM FORMATION AND ITS CONSEQUENCES FOR THE CELSS PROGRAM
Period Obligations
 06/10/1993-03/31/1996 FY95: TOTAL: \$266,000
Prin. Invest. NASA Tech. Officer CASE Category
 R MITCHELL ARC/R D MACELROY 51-Biological Sci

NAG 1-1421 Harvard University 4952
 PHOTOCHEMICAL AND BIOMASS BURNING INFLUENCES OVER THE SOUTH TROPICAL ATLANTIC: AN ANALYSIS OF TRACE
Period Obligations
 03/20/1992-02/28/1996 FY95: TOTAL: \$267,351
Prin. Invest. NASA Tech. Officer CASE Category
 D J JACOB LARC/J M HOELL 31-Atmos Sci
 LARC/R J BENDURA

NAG 2-974 Harvard University 4959
 STRATOSPHERIC TRACERS OF ATMOSPHERIC TRANSPORT (STRAT) MISSION SCIENTIST
Period Obligations
 03/24/1995-12/31/1996 FY95: \$36,542 TOTAL: \$36,542
Prin. Invest. NASA Tech. Officer CASE Category
 S C WOFSY ARC/E P CONDON 31-Atmos Sci

NAG 1-1609 Harvard University 4953
 SOUTHERN HEMISPHERE IN SITU OBSERVATIONS OF OH, HO2, ClO, AND BRO, FROM THE ER-2 AIRCRAFT FOR THE
Period Obligations
 04/11/1994-04/10/1995 FY95: TOTAL: \$158,424
Prin. Invest. NASA Tech. Officer CASE Category
 J G ANDERSON LARC/L R POOLE 31-Atmos Sci
 P S WORLD LARC/G L MADDRERO

NAG 3-1385 Harvard University 4960
 THE EXTENSIONAL RHEOLOGY OF NON-NEWTONIAN MATERIAL S
Period Obligations
 12/22/1992-12/13/1995 FY95: \$183,000 TOTAL: \$418,000
Prin. Invest. NASA Tech. Officer CASE Category
 G MCKINLEY LERC/F CHIARAMONTE 46-Mech Engr

NAG 1-1617 Harvard University 4954
 SOUTHERN HEMISPHERE IN SITU OBSERVATIONS OF OH, HO2, ClO, AND BRO, FROM THE ER-2 AIRCRAFT FOR THE
Period Obligations
 04/11/1994-04/10/1995 FY95: TOTAL: \$258,152
Prin. Invest. NASA Tech. Officer CASE Category
 J G ANDERSON LARC/L R POOLE 31-Atmos Sci
 P S WORLD LARC/G L MADDRERO

NAG 5-1624 Harvard University 4961
 SEARCH FOR NEW LOW LUMINOSITY GLOBULAR CLUSTER X-R AY SOURCES
Period Obligations
 06/07/1991-12/14/1996 FY95: \$20,330 TOTAL: \$115,698
Prin. Invest. NASA Tech. Officer CASE Category
 J E GRINDLAY GSFC/R PETRE 11-Astronomy

NAG 5-1690 Harvard University 4962
 GAMMA RAYS FROM SUPERNOVAE
Period Obligations
 10/16/1991-10/31/1993 FY95: TOTAL: \$98,967
Prin. Invest. NASA Tech. Officer CASE Category
 J E GRINDLAY GSFC/J P NORRIS 11-Astronomy
 GSFC/C A GEHRELS

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAG 5-1904 Harvard University 4963
OBSERVATIONAL IMPLICATIONS OF MERGERS OF NEUTRON STAR AND BLACK HOLE BINARIES
Period Obligations
02/20/1992-12/31/1995 FY95: \$32,703 TOTAL: \$112,703
Prin. Invest. NASA Tech. Officer CASE Category
R NARAYAN GSFC/J NORRIS 11-Astronomy
T PIRAN GSFC/N GEHRELS

NAG 5-2688 Harvard University 4971
ASSESSMENT OF THE EFFECTS OF SUBSONIC AIRCRAFT ON OZONE USING A THREE DIMENSIONAL MODEL
Period Obligations
10/07/1994-10/14/1995 FY95: \$261,426 TOTAL: \$261,426
Prin. Invest. NASA Tech. Officer CASE Category
D J JACOB GSFC/R W STEWART 31-Atmos Sci

NAG 5-2076 Harvard University 4964
GAMMA-RAYS FROM MOLECULAR CLOUDS IN THE OUTER GALAXY
Period Obligations
08/25/1992-08/31/1995 FY95: TOTAL: \$152,790
Prin. Invest. NASA Tech. Officer CASE Category
P THADDEUS GSFC/J P NORRIS 11-Astronomy
S W DIGEL GSFC/N WHITE

NAG 5-2763 Harvard University 4972
BATSE STUDY OF HARD X-RAY EMISSION FROM BURSTERS
Period Obligations
10/28/1994-10/31/1995 FY95: \$58,000 TOTAL: \$58,000
Prin. Invest. NASA Tech. Officer CASE Category
J E GRINDLAY GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2077 Harvard University 4965
MULTIDIMENSIONAL SUPERCOMPUTER SIMULATIONS OF THE INTERSTELLAR MEDIUM: A LINK BETWEEN THE
Period Obligations
08/25/1992-08/31/1994 FY95: TOTAL: \$52,000
Prin. Invest. NASA Tech. Officer CASE Category
R NARAYAN GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2958 Harvard University 4973
UTILIZATION OF THE STRAT DATA FOR THE VALIDATION OF ASSESSMENT MODELS
Period Obligations
06/07/1995-06/14/1996 FY95: \$39,000 TOTAL: \$39,000
Prin. Invest. NASA Tech. Officer CASE Category
M B MCELROY GSFC/R W STEWART 31-Atmos Sci

NAG 5-2243 Harvard University 4966
SEARCH FOR GAMMA-RAY EMISSION FROM MILLISECOND PULSARS AND COMPACT BINARIES IN THE GLOBULAR
Period Obligations
04/08/1993-04/14/1994 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
J E GRINDLAY GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2971 Harvard University 4974
INVESTIGATIONS OF THE EARTH'S MAIN MAGNETIC FIELD AND THE INTERIOR OF THE EARTH
Period Obligations
06/16/1995-06/30/1996 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
J BLOXAM GSFC/P TAYLOR 32-Geological Sci

NAG 5-2253 Harvard University 4967
EDDY CORRELATION FLUX MEASUREMENTS OF CO2, O3, AND NOY FOR BOREAS
Period Obligations
04/30/1993-04/30/1996 FY95: \$220,326 TOTAL: \$688,261
Prin. Invest. NASA Tech. Officer CASE Category
S C WOFSY GSFC/F G HALL 39-Env Sci, NEC
GSFC/P SELLERS

NAG 5-3020 Harvard University 4975
SPECTROSCOPIC DATA FOR AN ASTRONOMY DATABASE LINE EMISSION
Period Obligations
07/21/1995-07/31/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
W H PARKINSON GSFC/D WEST 11-Astronomy

NAG 5-2305 Harvard University 4968
CONTINUING ULTRAVIOLET SPECTROSCOPY OF SN 1987A
Period Obligations
07/07/1993-07/14/1994 FY95: TOTAL: \$18,204
Prin. Invest. NASA Tech. Officer CASE Category
R P KIRSHNER GSFC/D WEST 11-Astronomy

NAG 5-3022 Harvard University 4976
BINARY SYSTEMS CONTAINING COLLAPSED STARS: EVOLUTION AND OBSERVATIONAL CONSEQUENCES
Period Obligations
07/25/1995-07/31/1996 FY95: \$17,700 TOTAL: \$17,700
Prin. Invest. NASA Tech. Officer CASE Category
R DISTEFANO GSFC/D WEST 11-Astronomy

NAG 5-2487 Harvard University 4969
SUPERNOVA SPECTROSCOPY
Period Obligations
02/02/1994-02/14/1996 FY95: TOTAL: \$19,500
Prin. Invest. NASA Tech. Officer CASE Category
R KIRSHNER GSFC/D WEST 11-Astronomy

NAG 8-1034 Harvard University 4977
TIMING AND SPECTRAL STUDIES OF THE LMXB1916-05
Period Obligations
02/07/1994-03/31/1996 FY95: TOTAL: \$14,848
Prin. Invest. NASA Tech. Officer CASE Category
J E TRINDLEY MSFC/J VARGAS 11-Astronomy

NAG 5-2600 Harvard University 4970
PRELIMINARY 3-D MODEL STUDY OF EFFECT OF SUBSONIC AIRCRAFT ON TROPOSPHERIC OZONE AND OH IN NORTHERN
Period Obligations
06/01/1994-06/30/1996 FY95: \$9,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
D J JACOB GSFC/R W STEWART 31-Atmos Sci

NAGW 599 Harvard University 4978
PALEOSOLS AS INDICATORS OF ATMOSPHERIC EVOLUTION
Period Obligations
04/01/1984-09/30/1996 FY95: \$109,219 TOTAL: \$839,678
Prin. Invest. NASA Tech. Officer CASE Category
A D HOLLAND HQ/J D RUMMEL 32-Geological Sci
HQ/M AVERNER

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAGW 624 Harvard University 4979
DEVELOPMENT OF AN ENERGETIC X-RAY IMAGING EXPERIMENT
(EXITE) AND ASSOCIATED BALLON GONDOLA
Period *Obligations*
04/01/1984-11/30/1995 FY95: \$350,909 TOTAL: \$3,307,338
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J GRINDLAY HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAGW 2838 Harvard University 4987
CRYSTAL NUCLEATION, HYDROSTATIC TENSION AND DIFFUSION
IN METAL AND SEMICONDUCTOR MELTS
Period *Obligations*
01/31/1992-03/31/1996 FY95: \$53,000 TOTAL: \$368,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F A SPAEPEN HQ/B M CARPENTER 13-Physics
D TURNBULL
M J AZIZ

NAGW 893 Harvard University 4980
CONTINUED RESEARCH
Period *Obligations*
05/15/1986-11/30/1996 FY95: \$85,533 TOTAL: \$661,308
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A H KNOLL HQ/J D RUMMEL 32-Geological Sci
HQ/M AUVERNER

NAGW 2858 Harvard University 4988
ISOTOPIIC STUDIES OF THE ORIGIN OF THE SOLAR SYSTEM
Period *Obligations*
01/31/1992-10/31/1995 FY95: \$70,000 TOTAL: \$314,959
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S B JACOBSEN HQ/J A NUTH 19-Phys Sci, NEC

NAGW 1230 Harvard University 4981
STRATOSPHERIC CHEMISTRY DRY
Period *Obligations*
02/29/1988-11/30/1997 FY95: \$175,000 TOTAL: \$1,609,203
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S C WOFSEY HQ/R D MCPETERS 31-Atmos Sci
HQ/M J PRATHER

NAGW 2872 Harvard University 4989
WIDE-BAND WIDTH HIGH RESOLUTION SEARCH FOR EXTRATERRESTRIAL
INTELLIGENCE
Period *Obligations*
02/14/1992-12/14/1994 FY95: TOTAL: \$235,930
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P HOROWITZ HQ/J D RUMMEL 11-Astronomy

NAGW 1596 Harvard University 4982
ABSOLUTE TRANSITION PROBABILITIES OF LINES
Period *Obligations*
12/27/1988-12/14/1995 FY95: \$70,000 TOTAL: \$482,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W H PARKINSON HQ/G C CLAYTON 31-Atmos Sci

NAGW 3000 Harvard University 4990
STUDIES OF MANTLE FLOW, CONVECTION AND GEOPHYSICAL
OBSERVABLES
Period *Obligations*
03/13/1992-08/31/1995 FY95: TOTAL: \$186,884
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J O'CONNELL HQ/R E MURPHY 32-Geological Sci
HQ/D M BUTLER

NAGW 1598 Harvard University 4983
THEORETICAL RESEARCH IN PLANETARY PHYSICS
Period *Obligations*
01/23/1989-09/30/1995 FY95: \$69,113 TOTAL: \$480,746
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A G CAMERON HQ/J M BOYCE 32-Geological Sci
HQ

NAGW 3082 Harvard University 4991
DIRECT MEASUREMENTS OF ECOSYSTEM FLUXES OF CO2 AND
NOY
Period *Obligations*
05/15/1992-12/31/1997 FY95: \$274,585 TOTAL: \$1,085,014
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S C WOFSEY HQ/A C JANETOS 39-Env Sci, NEC
HQ/D E WICKLAND

NAGW 1687 Harvard University 4984
LABORATORY STUDIES IN ULTRAVIOLET SOLAR PHYSICS
Period *Obligations*
03/13/1989-09/30/1996 FY95: \$94,000 TOTAL: \$753,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W H PARKINSON HQ/J D BOHLIN 13-Physics
HQ/S KANE

NAGW 3280 Harvard University 4992
NAGW-3280/HARVARD UNIV/COMPACT OBJECTS AND BINARIES IN
GLOBULAR CLUSTERS AND THE GALAXY
Period *Obligations*
11/27/1992-09/30/1995 FY95: \$65,300 TOTAL: \$186,969
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J GRINDLAY HQ/G R RIEGLER 11-Astronomy

NAGW 2277 Harvard University 4985
INVESTIGATIONS OF STAR FORMATION PROCESSES
Period *Obligations*
01/09/1991-01/31/1996 FY95: \$59,278 TOTAL: \$279,278
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A G CAMERON HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3467 Harvard University 4993
GEOMAGNETIC FIELD MODELS INCORPORATION PHYSICAL
CONSTRAINTS ON THE SECULAR VARIATIONS
Period *Obligations*
04/09/1993-02/28/1996 FY95: \$70,000 TOTAL: \$202,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J BLOXHAM HQ/B F CHAO 32-Geological Sci
HQ/R E MURPHY

NAGW 2632 Harvard University 4986
THREE-DIMENSIONAL MODELING OF TROPOSPHERIC TRACE
GASES
Period *Obligations*
08/22/1991-02/14/1997 FY95: \$213,885 TOTAL: \$999,585
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M B MCELROY HQ/J A KAYE 31-Atmos Sci
S C WOFSEY HQ/R E MURPHY

NAGW 3996 Harvard University 4994
CRYSTAL-LIQUID DENSITY INVERSIONS IN TERRESTRIAL AND
LUNAR BASALTS
Period *Obligations*
05/14/1994-03/31/1996 FY95: \$68,250 TOTAL: \$133,250
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C AGEE HQ/J BOYCE 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAGW 4170 Harvard University 4995
DEVELOPMENT OF HOT-ELECTRON MICROCALORIMETERS FOR X-RAY ASTRONOMY
Period Obligations
10/20/1994-09/30/1995 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
M NAHUM HQ/L J KALUZIENSKI 11-Astronomy

NAGW 4609 Harvard University 4996
CROSS SECTION MEASUREMENTS FOR SOLAR COSMIC RAY STUDIES
Period Obligations
08/17/1995-06/30/1998 FY95: \$65,311 TOTAL: \$65,311
Prin. Invest. NASA Tech. Officer CASE Category
M FRANKLIN HQ/D NAVA 12-Chemistry

NAGW 4781 Harvard University 4997
DEVELOPMENT OF AN ULTRA-SENSITIVE FAR-INFRARED SPECTROMETER, AND A 100 MK REFRIGERATOR, INTEGRATED
Period Obligations
09/20/1995-08/31/1998 FY95: \$150,000 TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
M NAHUM HQ/D A HOLLAND 11-Astronomy
HQ/J H BREDEKAMP

NAS 1-18946 Harvard University 4998
SAGE III SCIENCE SUPPORT; P.I. - WOFYS
Period Obligations
11/28/1989-01/31/2005 FY95: \$70,000 TOTAL: \$130,000
Prin. Invest. NASA Tech. Officer CASE Category
S C WOFYS LARC/G MADDREA 19-Phys Sci, NEC

NAS 1-19955 Harvard University 4999
SAGE II SCIENTIFIC INVESTIGATIONS
Period Obligations
05/03/1993-05/02/1996 FY95: \$45,000 TOTAL: \$140,000
Prin. Invest. NASA Tech. Officer CASE Category
S C WOFYS LARC/G L MADDREA 31-Atmos Sci
LARC/M P MCCORMICK

NAS 5-32587 Harvard University 5000
NRA-SPECTROSCOPIC DATA FOR AN ASTRONOMY DATABASE PI: PARKINSON
Period Obligations
04/06/1994-08/05/1995 FY95: TOTAL: \$53,000
Prin. Invest. NASA Tech. Officer CASE Category
W H PARKINSON GSFC/D WEST 11-Astronomy

NCC 2-694 Harvard University 5001
DEVELOPMENT OF A HIGH-SENSITIVITY, FAST RESPONSE INSTRUMENT FOR IN SITU DETERMINATION OF CO₂
Period Obligations
09/27/1990-09/30/1995 FY95: \$309,000 TOTAL: \$1,118,648
Prin. Invest. NASA Tech. Officer CASE Category
S C WOFYS ARC/E P CONDON 31-Atmos Sci
D W TOOHEY

NCC 2-786 Harvard University 5002
HIGH ALTITUDE NO AND NOY MEASUREMENTS USING A NEW LIGHTWEIGHT CHEMILUMINESCENCE INSTRUMENT
Period Obligations
04/02/1993-09/30/1995 FY95: \$361,000 TOTAL: \$822,723
Prin. Invest. NASA Tech. Officer CASE Category
S C WOFYS ARC/E CONDON 31-Atmos Sci

NCC 2-790 Harvard University 5003
HIGH-ALTITUDE, TROPICAL LATITUDE C10,BRO,O3,P AND T OBSERVATIONS FROM THE PERSEUS FOR THE 1994 ASHOM..
Period Obligations
04/02/1993-09/30/1996 FY95: TOTAL: \$779,556
Prin. Invest. NASA Tech. Officer CASE Category
J G ANDERSON ARC/E CONDON 31-Atmos Sci
ARC/C DULLEN

NCC 2-875 Harvard University 5004
MEASUREMENT OF BLOOD FLOWS, PRESSURES, AND CARDIAC DIMENSIONS
Period Obligations
09/27/1994-08/31/1995 FY95: TOTAL: \$97,000
Prin. Invest. NASA Tech. Officer CASE Category
S F VATNER ARC/A R HARGENS 56-Medical Sciences

NCC 2-892 Harvard University 5005
AIRBORNE INSTRUMENTS FOR THE IN SITU DETECTION OF ClONO₂, NO₂, ClO, AND BRO IN THE STRATOSPHERE
Period Obligations
03/16/1995-12/31/1995 FY95: \$812,279 TOTAL: \$812,279
Prin. Invest. NASA Tech. Officer CASE Category
G J ANDERSON ARC/S S WEGENER 31-Atmos Sci

NCC 2-897 Harvard University 5006
LIGHTWEIGHT HIGH-PRECISION, FAST RESPONSE INSTRUMENT FOR AIRBORNE CO₂ MEASUREMENTS FOR UAVS
Period Obligations
03/22/1995-12/31/1995 FY95: \$273,340 TOTAL: \$273,340
Prin. Invest. NASA Tech. Officer CASE Category
S C WOFYS ARC/S S WEGENER 31-Atmos Sci

NCC 2-898 Harvard University 5007
A NEW FAST RESPONSE PHOTOFRAGMENT FLUORESCENCE HYGROMETER FOR USE ON THE PERSUES UNMANNED AIRCRAFT
Period Obligations
03/24/1995-03/31/1996 FY95: \$59,537 TOTAL: \$59,537
Prin. Invest. NASA Tech. Officer CASE Category
J G ANDERSON ARC/S S WEGENER 31-Atmos Sci

NCC 2-913 Harvard University 5008
STRAT CAMPAIGN: ER-2 PARTICIPATION
Period Obligations
08/25/1995-02/29/1996 FY95: \$92,886 TOTAL: \$92,886
Prin. Invest. NASA Tech. Officer CASE Category
J G ANDERSON ARC/S S WEGENER 31-Atmos Sci

NGT 00-030-044 Harvard University 5009
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/23/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
S L BASSOW HQ/D M BUTLER 39-Env Sci, NEC
F A BAZZAZ HQ/G S WILSON

NGT 00-030-071 Harvard University 5010
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/23/1991-06/30/1996 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
T TOOLAN HQ/D M BUTLER 33-Oceanography
J MCCARTHY HQ/G S WILSON

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NGT 00-030-082 Harvard University 5011
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/09/1991-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A E DESSLER HQ/D M BUTLER 31-Atmos Sci
 J G ANDERSON HQ/G S WILSON

NGT 00-030-172 Harvard University 5012
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D JACOB HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-030-182 Harvard University 5013
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/02/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M S MCELROY HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-184 Harvard University 5014
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/02/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D JACOB HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-030-195 Harvard University 5015
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/01/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 F A BAZZAZ HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-256 Harvard University 5016
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/06/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 S B JACOBSEN HQ/M BALTUCK 32-Geological Sci
 HQ/G ASRAR

NGT 00-050-663 Harvard University 5017
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/13/1990-11/30/1993 FY95: TOTAL: \$65,431
Prin. Invest. NASA Tech. Officer CASE Category
 I I SHAPIRO HQ/F C OWENS 11-Astronomy

NGT 00-050-699 Harvard University 5018
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/12/1991-05/31/1995 FY95: TOTAL: \$71,000
Prin. Invest. NASA Tech. Officer CASE Category
 I I SHAPIRO HQ/F C OWENS 13-Physics

NGT 00-050-814 Harvard University 5019
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1991-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 M J GELLER HQ/J ALEXANDER 11-Astronomy

NGT 00-050-819 Harvard University 5020
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/10/1990-09/30/1993 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J P HOUCHEA HQ/F C OWENS 11-Astronomy

NGT 00-050-851 Harvard University 5021
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 F K THIELEMANN HQ/F C OWENS 11-Astronomy

NGT 00-050-874 Harvard University 5022
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/15/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D INGBER JSC/S GOLDSTEIN 56-Medical Sciences

NGT 00-050-942 Harvard University 5023
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A R BARRON LERC/F MONTEGANI 12-Chemistry

NGT 00-050-994 Harvard University 5024
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/11/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R P KIRSHNER HQ/J K ALEXANDER 11-Astronomy

NGT 00-050-999 Harvard University 5025
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/28/1992-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J E GRINDLAY HQ/J K ALEXANDER 13-Physics

NGT 00-051-081 Harvard University 5026
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/09/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R KIRSHNER HQ/J LYNCH 11-Astronomy

NGT 00-051-093 Harvard University 5027
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/27/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R P KIRSHNER HQ/D HOLLAND 13-Physics

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NGT 00-051-312 Harvard University 5028
GRADUATE STUDENT RESEARCHER PROGRAM
Period Obligations
08/22/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
R KIRSHNER ARC/M MOORE 11-Astronomy

NAG 1-1252 Massachusetts Institute of Technology 5036
METEOROLOGICAL ANALYSIS OF PACIFIC EXPLORATORY MISSION-WEST (PEM-WEST)
Period Obligations
04/15/1991-07/14/1996 FY95: \$163,000 TOTAL: \$928,873
Prin. Invest. NASA Tech. Officer CASE Category
R E NEWELL LARC/J M HOELL 31-Atmos Sci
LARC/M C SHIPHAM

NGT 00-051-336 Harvard University 5029
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/26/1994-08/31/1997 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
M J GELLER HQ/D HOLLAND 11-Astronomy

NAG 1-1360 Massachusetts Institute of Technology 5037
AIR PARCEL TRAJECTORIES - LOWER STRATOSPHERE USING WINDS FROM THE 'SKIHI' GENERAL CIRCULATION MODEL
Period Obligations
12/17/1991-10/10/1994 FY95: TOTAL: \$225,443
Prin. Invest. NASA Tech. Officer CASE Category
R A PLUMB LARC/R E TURNER 31-Atmos Sci
J D MAHLMAN LARC/W T BLACKSHEAR

NGT 00-051-405 Harvard University 5030
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/27/1995-07/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
M NAHUM HQ/D HOLLAND 13-Physics

NAG 1-1463 Massachusetts Institute of Technology 5038
PREDICTION OF THERMAL CYCLING INDUCED CRACKING IN POLYMER MATRIX COMPOSITES - MY 1/3
Period Obligations
01/29/1993-09/30/1995 FY95: \$2,001 TOTAL: \$103,059
Prin. Invest. NASA Tech. Officer CASE Category
H L MCMANUS LARC/D E BOWLES 47-Materials Engr
LARC/S S THOMPSON

NGT 00-090-172 Harvard University 5031
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
L BUELL HQ/D K RUSSELL 51-Biological Sci

NAG 1-1511 Massachusetts Institute of Technology 5039
COMPRESSIBLE MIXING AND NOISE GENERATION DOWNSTREAM OF LOBED MIXERS
Period Obligations
06/25/1993-08/31/1995 FY95: \$188,806 TOTAL: \$403,838
Prin. Invest. NASA Tech. Officer CASE Category
I A WAITZ LARC/J M SEINER 41-Aero Engr
F M GREITZER LARC/M K PONTON
C S TAN

NGT 00-090-254 Harvard University 5032
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
12/20/1994-08/14/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
L BUELL HQ/D K RUSSELL 51-Biological Sci

NAG 1-1512 Massachusetts Institute of Technology 5040
SUCTION AND BLOWING STRATEGIES FOR REDUCTION OF FAN NOISE
Period Obligations
06/25/1993-09/30/1995 FY95: \$301,786 TOTAL: \$516,412
Prin. Invest. NASA Tech. Officer CASE Category
I A WAITZ LARC/C H GERHOLD 41-Aero Engr
K U INGARD
A H EPSTEIN

NGT10-52601 Harvard University 5033
GRADUATE STUDENT RESEARCH GRANT
Period Obligations
06/05/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
M J HULLER KSC/J SAGER 55-Agriculture Sci

NAG 1-801 Massachusetts Institute of Technology 5034
THE DYNAMIC CONTROL OF ROBOTIC MANIPULATORS IN SPACE
Period Obligations
08/17/1987-01/31/1995 FY95: TOTAL: \$1,649,308
Prin. Invest. NASA Tech. Officer CASE Category
S DUBOWSKY LARC/J KOLAROV 49-Engr, NEC
LARC/J E PENNINGTON

NAG 1-1519 Massachusetts Institute of Technology 5041
NONLINEAR GEOMETRICAL ACOUSTICS NLPN 93-503
Period Obligations
07/12/1993-07/31/1995 FY95: TOTAL: \$141,761
Prin. Invest. NASA Tech. Officer CASE Category
R R ROSALES LARC/K R MEADOWS 41-Aero Engr

NAG 1-991 Massachusetts Institute of Technology 5035
COMPOSITE FUSELAGE TECHNOLOGY
Period Obligations
04/10/1989-04/06/1996 FY95: \$40,000 TOTAL: \$670,133
Prin. Invest. NASA Tech. Officer CASE Category
P A LAGACE LARC/J H STARNES 41-Aero Engr
M J GRAVES LARC/M J SHUART

NAG 1-1525 Massachusetts Institute of Technology 5042
PROBLEMS IN SUPERSONIC BOUNDARY LAYER STABILITY
Period Obligations
06/30/1993-05/31/1996 FY95: \$24,999 TOTAL: \$44,438
Prin. Invest. NASA Tech. Officer CASE Category
K S BREYER LARC/S K ROBINSON 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAG 1-1531 Massachusetts Institute of Technology 5043
ANALYSIS OF NOISE MINIMAL APPROACH AND DEPARTURE
PROCEDURES USING ADVANCED FLIGHT GUIDANCE TECHNIQU

<i>Period</i>	<i>Obligations</i>	
08/30/1993-08/31/1996	FY95: \$99,928	TOTAL: \$225,609
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R J HANSMAN JR.	LARC/C A POWELL	41-Aero Engr
	LARC/K P SHEPHERD	

NAG 1-1577 Massachusetts Institute of Technology 5044
FUTURE POTENTIAL FOR A LARGE ALL-CARGO AIRCRAFT SYSTEM
(LACAS)

<i>Period</i>	<i>Obligations</i>	
01/26/1994-01/31/1996	FY95: \$75,000	TOTAL: \$160,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R W SIMPSON	LARC/S J MORRIS	41-Aero Engr

NAG 1-1587 Massachusetts Institute of Technology 5045
FINITE ELEMENT METHODS FOR THE SIMULATION OF HYPERSONIC
FLOWS

<i>Period</i>	<i>Obligations</i>	
01/31/1994-05/31/1996	FY95: \$59,965	TOTAL: \$121,556
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J PERAIRE	LARC/K S BEY	41-Aero Engr
	LARC/A R WIETING	

NAG 1-1602 Massachusetts Institute of Technology 5046
MIT ENGINEERING/RESEARCH INTERNSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
02/01/1994-05/31/1996	FY95: \$33,521	TOTAL: \$73,991
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
I A WAITZ	LARC/D S MILLAR	49-Engr, NEC

NAG 1-1613 Massachusetts Institute of Technology 5047
SURROGATES FOR NUMERICAL SIMULATIONS; AN OPTIMIZAT ION
FRAMEWORK

<i>Period</i>	<i>Obligations</i>	
05/06/1994-05/31/1996	FY95: \$80,703	TOTAL: \$160,311
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A T PATERA	LARC/T W ROBERTS	46-Mech Engr

NAG 1-1637 Massachusetts Institute of Technology 5048
DESIGN, PLANNING AND CONTROL OF ROBOTIC SYSTEMS IN
SPACE

<i>Period</i>	<i>Obligations</i>	
07/22/1994-09/30/1995	FY95: \$105,000	TOTAL: \$140,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S DUBROWSKY	LARC/H A ALDRIDGE	46-Mech Engr
	LARC/L K BARKER	

NAG 1-1717 Massachusetts Institute of Technology 5049
STRUCTURAL TECHNOLOGY FOR ADVANCED SPACECRAFT

<i>Period</i>	<i>Obligations</i>	
06/06/1995-03/05/1996	FY95: \$400,000	TOTAL: \$400,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E F CRAWLEY	LARC/W BELVIN	49-Engr, NEC

NAG 1-1758 Massachusetts Institute of Technology 5050
PHYSICAL PROCESSES GOVERNING ATMOSPHERIC TRACE
CONSTITUENTS MEASURED FROM AIRCRAFT IN PEM-TROPICS

<i>Period</i>	<i>Obligations</i>	
09/25/1995-03/31/1997	FY95: \$246,000	TOTAL: \$246,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D E NEWELL	LARC/J M HOELL JR.	31-Atmos Sci
	LARC/R J BENDURA	

NAG 2-832 Massachusetts Institute of Technology 5051
LABORATORY STUDIES OF STRATOSPHERIC AEROSOL CHEMI
STRY

<i>Period</i>	<i>Obligations</i>	
05/02/1990-12/31/1995	FY95: \$108,000	TOTAL: \$885,240
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M J MOLINA	ARC/E CONDON	31-Atmos Sci
	ARC/B TOON	

NAG 2-693 Massachusetts Institute of Technology 5052
DEVELOPMENT OF A11-NB SIS DIRECTOR DETECTORS

<i>Period</i>	<i>Obligations</i>	
02/28/1991-02/28/1995	FY95:	TOTAL: \$224,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Q HU	ARC/C R MCCREIGHT	13-Physics
	ARC/R E MCMURRAY	

NAG 2-716 Massachusetts Institute of Technology 5053
SITUATIONAL AWARENESS ISSUES IN THE IMPLEMENTATIO N OF
DATALINK

<i>Period</i>	<i>Obligations</i>	
06/26/1991-05/31/1996	FY95: \$266,111	TOTAL: \$809,617
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R J HANSMAN	ARC/K CORKER	49-Engr, NEC

NAG 2-729 Massachusetts Institute of Technology 5054
MODELING INFORMATION PROCESSING IN FLIGHT MANAGEM ENT

<i>Period</i>	<i>Obligations</i>	
08/27/1991-01/31/1996	FY95: \$150,000	TOTAL: \$524,987
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T B SHERIDAN	ARC/K M CORKER	69-Psych, NEC
	ARC/E J HARTZELL	

NAG 2-853 Massachusetts Institute of Technology 5055
CONFLUENT WAKE/BOUNDARY-LAYER METHOD FOR HIGH-LIFT
AIRFOIL FLOW PREDICTION

<i>Period</i>	<i>Obligations</i>	
06/30/1993-09/30/1995	FY95:	TOTAL: \$80,769
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M DRELA	ARC/L L ERIKSON	41-Aero Engr

NAG 2-855 Massachusetts Institute of Technology 5056
ARCHIVING OF PLANETARY RING DATA

<i>Period</i>	<i>Obligations</i>	
07/16/1993-06/30/1996	FY95: \$35,020	TOTAL: \$82,380
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L ELLIOT	ARC/J N CUZZI	11-Astronomy

NAG 2-884 Massachusetts Institute of Technology 5057
VISUALIZATION OF UNSTEADY COMPUTATIONAL FLUID DYNA
MICS

<i>Period</i>	<i>Obligations</i>	
02/23/1994-12/31/1995	FY95: \$90,005	TOTAL: \$175,534
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R HAIMES	ARC/M J GERALD-YAMASAKI	49-Engr, NEC

NAG 2-997 Massachusetts Institute of Technology 5058
EXISTING AND REQUIRED MODELING CAPABILITIES FOR EVAL
UATING ATM SYSTEMS AND CONCEPTS

<i>Period</i>	<i>Obligations</i>	
08/25/1995-09/30/1995	FY95: \$55,648	TOTAL: \$55,648
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A R ODoni	ARC/W T KRAMER	41-Aero Engr
J J DEYST	ARC/S HASAN	
E FERON		

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAG 2-4002 Massachusetts Institute of Technology 5059
UNSTRUCTURED GRID METHODS FOR THE SIMULATION OF 3D
TRANSIENT INVISCID FLOWS
Period *Obligations*
01/05/1994-11/15/1994 FY95: TOTAL: \$65,178
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J PERAIRE DFRG/K GUPTA 41-Aero Engr

NAG 2-4008 Massachusetts Institute of Technology 5060
MIT DEVELOPMENT AND TESTING OF AIRFOILS FOR HIGH ALTITUDE
AIRCRAFT
Period *Obligations*
09/28/1994-08/31/1995 FY95: TOTAL: \$76,407
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M DRELA GSFC/R J GEENEN 41-Aero Engr
T WASHINGTON GSFC/J BAUER

NAG 3-660 Massachusetts Institute of Technology 5061
DIRECT SIMULATION OF 3-D FLUID MECHANICAL PHENOMENA IN
INTERNAL FLOWS
Period *Obligations*
11/08/1985-09/30/1994 FY95: \$6,474 TOTAL: \$428,072
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E E COVERT LERC/J J ADAMCZYK 41-Aero Engr
C S TAN

NAG 3-666 Massachusetts Institute of Technology 5062
QUANTITATIVE STUDIES OF ICE ACCRETION UTILIZING ULTRASONIC
MEASUREMENT TECHNIQUES
Period *Obligations*
11/08/1985-05/31/1995 FY95: \$16,180 TOTAL: \$416,007
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J HANSMAN LERC/M G POTAPCZUK 41-Aero Engr

NAG 3-695 Massachusetts Institute of Technology 5063
INVESTIGATION OF INTERACTION BETWEEN AC POWER LINES AND
SPACE PLASMAS
Period *Obligations*
02/06/1986-09/30/1995 FY95: TOTAL: \$476,224
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D E HASTINGS LERC/D B SNYDER 19-Phys Sci, NEC
S OLBERT

NAG 3-844 Massachusetts Institute of Technology 5064
UNSTEADY FLOW TURBOMACHINES
Period *Obligations*
12/04/1987-06/30/1995 FY95: \$737 TOTAL: \$49,077
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E M GREITZER LERC/J J ADAMCZYK 41-Aero Engr

NAG 3-953 Massachusetts Institute of Technology 5065
INLET DISTORTION IN ENGINES ON VSTOL AIRCRAFT
Period *Obligations*
12/20/1988-12/31/1993 FY95: TOTAL: \$401,494
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C S TAN LERC/C DRUMMOND 41-Aero Engr
E M GREITZER LERC/F A NEWMAN

NAG 3-1013 Massachusetts Institute of Technology 5066
STATE VARIABLE MEASUREMENT IN HIGH SPEED TURBOMACH
INERY
Period *Obligations*
02/28/1989-04/30/1995 FY95: TOTAL: \$833,281
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A H EPSTEIN LERC/A J STRAZISAR 41-Aero Engr

NAG 3-1176 Massachusetts Institute of Technology 5067
UNSTEADY THREE-DIMENSIONAL FLOW IN MARINE PROPULSO RS
Period *Obligations*
05/01/1990-06/30/1994 FY95: TOTAL: \$99,038
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C S TAN LERC/J J ADAMCZYK 41-Aero Engr

NAG 3-1214 Massachusetts Institute of Technology 5068
INFLUENCE OF INLET TEMPERATURE DISTORTION ON TURBI NE
HEAT TRANSFER AND AERODYNAMICS
Period *Obligations*
11/02/1990-10/28/1994 FY95: TOTAL: \$344,240
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A H EPSTEIN LERC/J D HEIDMANN 41-Aero Engr
G R GUENETTE

NAG 3-1237 Massachusetts Institute of Technology 5069
VORT STRUCT IN COMPRESSOR ENDWALL FLOWFIELDS: BASI C
FLUID MECH AND IMPACT ON PERFORMANCE AND STABILITY
Period *Obligations*
03/14/1991-12/31/1995 FY95: \$121,789 TOTAL: \$471,908
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E M GREITZER LERC/G J SKOCH 41-Aero Engr

NAG 3-1364 Massachusetts Institute of Technology 5070
LOBED MIXER OPTIMIZATION FOR ADVANCED EJECTOR GEOM
ETRIES
Period *Obligations*
08/17/1992-02/15/1995 FY95: TOTAL: \$306,724
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I A WAITZ LERC/C K DRUMMOND 41-Aero Engr
E M GREITZER LERC/J R DEBONIS
C S TAN

NAG 3-1443 Massachusetts Institute of Technology 5071
ICING PREDICTION ON MULTI-ELEMENT AIRFOILS
Period *Obligations*
02/10/1993-05/30/1995 FY95: TOTAL: \$91,588
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M DRELA LERC/M G POTAPCZUK 41-Aero Engr

NAG 3-1448 Massachusetts Institute of Technology 5072
MODELLING OF THE T-55 COMPRESSOR STABILITY
Period *Obligations*
02/10/1993-06/30/1994 FY95: TOTAL: \$45,341
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A H EPSTEIN LERC/C K DRUMMOND 41-Aero Engr
G J HENDRICKS

NAG 3-1457 Massachusetts Institute of Technology 5073
IDENTIFICATION AND CONTROL OF ROTATING STALL MODES IN
THE ADVANCED DUCTED PROPULSOR
Period *Obligations*
02/23/1993-02/14/1996 FY95: \$255,035 TOTAL: \$594,088
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J D PADUANO LERC/M M BRIGHT 46-Mech Engr

NAG 3-1510 Massachusetts Institute of Technology 5074
MODELING AND ANALYSIS OF POWER SYSTEMS FOR SPACE APP
LICATIONS
Period *Obligations*
07/19/1993-07/06/1995 FY95: TOTAL: \$40,283
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S D UMANS LERC/M D KANKAM 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAG 3-1513 Massachusetts Institute of Technology 5075
EFFECTS OF FLOW UNSTEADINESS ON MULTISTAGE COMPRESSOR PERFORMANCE

<i>Period</i>	<i>Obligations</i>	
08/06/1993-07/18/1996	FY95: \$35,586	TOTAL: \$107,638
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E M GREITZER	LERC/A J STRAZISAR	41-Aero Engr
F E MARBLE		
N A CUMPSTY		

NAG 3-1567 Massachusetts Institute of Technology 5076
THREE-DIMENSIONAL AERODYNAMIC INSTABILITIES IN MULTISTAGE COMPRESSORS

<i>Period</i>	<i>Obligations</i>	
01/26/1994-12/12/1995	FY95: \$99,955	TOTAL: \$211,357
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C S TAN	LERC/C K DRUMMOND	41-Aero Engr
E M GREITZER	LERC/F A NEWMAN	

NAG 3-1591 Massachusetts Institute of Technology 5077
UTILITY OF THE FLOW SUBSTITUTION PRINCIPLE FOR HIGH SPEED PROPULSION APPLICATIONS

<i>Period</i>	<i>Obligations</i>	
06/01/1994-03/31/1996	FY95: \$45,000	TOTAL: \$79,992
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C S TAN	LERC/M MIZUKAMI	41-Aero Engr
E M GREITZER	LERC/C K DRUMMOND	

NAG 3-1598 Massachusetts Institute of Technology 5078
FLUID MECHANICS OF A CENTRIFUGAL COMPRESSOR STORAGE AND ITS DESIGN

<i>Period</i>	<i>Obligations</i>	
05/12/1994-09/30/1995	FY95: \$20,457	TOTAL: \$20,457
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C S TAN	LERC/R REDDY	41-Aero Engr
E M GREITZER		
W R HAWTHORNE		

NAG 3-1640 Massachusetts Institute of Technology 5079
CHEMICAL INHIBITOR EFFECTS ON DIFFUSION FLAMES IN MICROGRAVITY

<i>Period</i>	<i>Obligations</i>	
06/30/1994-06/29/1998	FY95: \$78,824	TOTAL: \$157,466
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S HOCHGREB	LERC/H ROSS	46-Mech Engr
G T LINTERIS		

NAG 3-1664 Massachusetts Institute of Technology 5080
CHEMICAL PROCESSES IN THE TURBINE AND EXHAUST NOZZLE

<i>Period</i>	<i>Obligations</i>	
09/19/1994-02/18/1996	FY95: \$241,421	TOTAL: \$244,657
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
I A WALTZ	LERC/L S N	46-Mech Engr
R C MIAKE-LYE	LERC/H L NGUYEN	

NAG 3-1679 Massachusetts Institute of Technology 5081
DIRECT SIMULATION OF THREE DIMENSIONAL FLUID MECHANICAL PHENOMENA IN INTERNAL FLOWS

<i>Period</i>	<i>Obligations</i>	
11/09/1994-11/08/1995	FY95: \$62,142	TOTAL: \$62,142
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C S TAN	LERC/J J ADAMCZYK	41-Aero Engr

NAG 3-1760 Massachusetts Institute of Technology 5082
EFFECTS OF MATERIAL DEGRADATION ON THE STRUCTURAL INTEGRITY OF COMPOSITE MATERIALS

<i>Period</i>	<i>Obligations</i>	
06/22/1995-01/21/1996	FY95: \$40,871	TOTAL: \$40,871
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H L MCMANUS	LERC/C C CHAMIS	41-Aero Engr
	LERC/P N MURTHY	

NAG 3-1761 Massachusetts Institute of Technology 5083
QUANTITATIVE STUDIES OF ICE ACCRETION PROCESSES

<i>Period</i>	<i>Obligations</i>	
06/22/1995-05/21/1996	FY95: \$59,847	TOTAL: \$59,847
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R J HANSMAN	LERC/M G POTAPCZUK	41-Aero Engr
K S BREUER		

NAG 3-1771 Massachusetts Institute of Technology 5084
STATE VARIABLE MEASUREMENT IN HIGH SPEED TURBOMACHINERY

<i>Period</i>	<i>Obligations</i>	
07/14/1995-07/13/1996	FY95: \$43,180	TOTAL: \$43,180
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A E EPSTEIN	LERC/A STRAZISAR	41-Aero Engr

NAG 4-100 Massachusetts Institute of Technology 5085
UNSTRUCTURED GRID METHODS ON AIRCRAFT

<i>Period</i>	<i>Obligations</i>	
02/16/1995-02/16/1996	FY95: \$52,640	TOTAL: \$52,640
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J PERAIRE	DFRC/K K GUPTA	41-Aero Engr
	DFRC/L VOELKER	

NAG 5-10 Massachusetts Institute of Technology 5086
IMPROVED MICROWAVE RETRIEVAL TECHNIQUES FOR ATMOSPHERIC TEMPERATURES, WIND, AND HUMIDITY

<i>Period</i>	<i>Obligations</i>	
05/23/1990-03/14/1994	FY95:	TOTAL: \$1,991,307
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D H STAELIN	GSFC/J C SHIUE	31-Atmos Sci
P W ROSENKRANZ	GSFC/J R WANG	

NAG 5-584 Massachusetts Institute of Technology 5087
ANALYSIS OF THE SOLAR WIND EXPERIMENT - IMP-8

<i>Period</i>	<i>Obligations</i>	
10/01/1985-12/31/1995	FY95: \$159,876	TOTAL: \$1,054,375
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A J LAZARUS	GSFC/G BULLOCK	11-Astronomy

NAG 5-1314 Massachusetts Institute of Technology 5088
SCIENCE ANALYSIS FROM COBE DATA

<i>Period</i>	<i>Obligations</i>	
12/07/1989-12/31/1994	FY95:	TOTAL: \$1,226,979
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R WEISS	GSFC/J MATHER	11-Astronomy

NAG 5-1328 Massachusetts Institute of Technology 5089
INTERANNUAL VARIABILITY OF THE GLOBAL CARBON AND ENERGY

<i>Period</i>	<i>Obligations</i>	
02/05/1990-01/14/1995	FY95:	TOTAL: \$249,792
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P H STONE	GSFC/D RIND	31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAG 5-1615 Massachusetts Institute of Technology 5090
MODEL OF THE TROPICAL ATMOSPHERE FOR ALGORITHM DEVELOPMENT AND TESTING

<i>Period</i>	<i>Obligations</i>	
05/24/1991-03/31/1996	FY95:	TOTAL: \$343,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R L BRAS	GSFC/D SHORT	31-Atmos Sci

NAG 5-1906 Massachusetts Institute of Technology 5098
STUDIES OF ERROR SOURCES IN GEODETIC VLBI

<i>Period</i>	<i>Obligations</i>	
02/21/1992-02/29/1996	FY95: \$65,000	TOTAL: \$247,637
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A E ROGERS	GSFC/B G BILLS	32-Geological Sci

NAG 5-1625 Massachusetts Institute of Technology 5091
ROSAT STUDY OF THE ECLIPSES AND ROTATION OF THE UNIQUE AMHERST OBJECT HO538+608

<i>Period</i>	<i>Obligations</i>	
06/07/1991-06/14/1994	FY95:	TOTAL: \$20,545
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A M LEVINE	GSFC/R PETRE	11-Astronomy

NAG 5-1911 Massachusetts Institute of Technology 5099
CRUSTAL DEFORMATION FROM SURFACE AND INTERNAL LOADS

<i>Period</i>	<i>Obligations</i>	
02/26/1992-02/29/1996	FY95: \$93,000	TOTAL: \$315,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B H HAGER	GSFC/B G BILLS	32-Geological Sci

NAG 5-1656 Massachusetts Institute of Technology 5092
INVESTIGATION OF THE X-RAY ECLIPSE PHENOMENA OF LM CX-4 AND DEEP SURVEY OF THE SURROUNDING FIELD

<i>Period</i>	<i>Obligations</i>	
06/24/1991-06/30/1996	FY95:	TOTAL: \$127,999
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G W CLARK C R CANIZARES	GSFC/R PETRE	11-Astronomy

NAG 5-1947 Massachusetts Institute of Technology 5100
GPS SURVEY OF THE WESTERN TIEN SHAN PROPOSAL

<i>Period</i>	<i>Obligations</i>	
03/16/1992-03/14/1996	FY95: \$70,000	TOTAL: \$250,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P MOLNAR	GSFC/B G BILLS	31-Atmos Sci

NAG 5-1682 Massachusetts Institute of Technology 5093
SEARCH FOR A QUIESCENT X-RAY COUNTERPART TO THE GAMMA-RAY BURST SOURCE; SEARCH FOR QUIESCENT X-RAY.

<i>Period</i>	<i>Obligations</i>	
07/15/1991-07/14/1995	FY95:	TOTAL: \$33,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G R RICKER	GSFC/R PETRE	11-Astronomy

NAG 5-1951 Massachusetts Institute of Technology 5101
SPECTRA OF HIGH REDSHIFT RADIO QUIET QUASARS

<i>Period</i>	<i>Obligations</i>	
03/18/1992-12/31/1995	FY95:	TOTAL: \$65,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C R CANIZARES	GSFC/R PETRE	11-Astronomy

NAG 5-1784 Massachusetts Institute of Technology 5094
IDENTIFICATIONS OF X-RAY SOURCES FROM THE ROSAT GALACTIC PLAN SURVEY

<i>Period</i>	<i>Obligations</i>	
10/15/1991-01/14/1995	FY95:	TOTAL: \$75,405
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R A REMILLARD	GSFC/R PETRE	11-Astronomy

NAG 5-2046 Massachusetts Institute of Technology 5102
PULSE TIMING OF VELA X-1

<i>Period</i>	<i>Obligations</i>	
07/28/1992-07/31/1996	FY95: \$55,654	TOTAL: \$140,154
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W H LEWIN M VAN DER KLIS	GSFC/J P NORRIS GSFC/N WHITE	11-Astronomy

NAG 5-1826 Massachusetts Institute of Technology 5095
CONTEMPORANEOUS ROSAT/GINGA OBSERVATIONS OF X-RAY DIP SOURCES

<i>Period</i>	<i>Obligations</i>	
11/13/1991-05/14/1996	FY95: \$56,644	TOTAL: \$155,644
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W H LEWIN	GSFC/R PETRE	11-Astronomy

NAG 5-2165 Massachusetts Institute of Technology 5103
ACCURATE, SIMULTANEOUS GAMMA RAY BURST POSITION DETERMINATION USING THE BURST AND TRANSIENT. . . .

<i>Period</i>	<i>Obligations</i>	
12/31/1992-12/31/1995	FY95: \$72,000	TOTAL: \$122,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G R RICKER	GSFC/J P NORRIS GSFC/N WHITE	11-Astronomy

NAG 5-1865 Massachusetts Institute of Technology 5096
X-RAY IMAGING OF C1 1358+62, A DISTANT, X-RAY SELECTED CLUSTER OF GALAXIES

<i>Period</i>	<i>Obligations</i>	
01/22/1992-08/14/1995	FY95:	TOTAL: \$34,905
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C R CANIZARES	GSFC/R PETRE	11-Astronomy

NAG 5-2185 Massachusetts Institute of Technology 5104
PARTICIPATION IN THE MARS OBSERVER LASER ALTIMETER (MOLA) TEAM

<i>Period</i>	<i>Obligations</i>	
02/09/1993-02/14/1995	FY95:	TOTAL: \$59,614
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G H PETTENGILL	GSFC/D E SMITH	11-Astronomy

NAG 5-1905 Massachusetts Institute of Technology 5097
STRATEGIES FOR SPACE GEODETIC MONITORING OF INFRASEISMIC AND SUBSEISMIC TRANSIENT DEFORMATIONS

<i>Period</i>	<i>Obligations</i>	
02/20/1992-02/29/1996	FY95: \$56,000	TOTAL: \$206,870
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T H JORDAN	GSFC/B G BILLS	32-Geological Sci

NAG 5-2230 Massachusetts Institute of Technology 5105
A STUDY OF 4 SUPERNOVA REMNANT-RICH FIELDS IN THE CARINA SPIRAL ARM

<i>Period</i>	<i>Obligations</i>	
03/23/1993-09/30/1994	FY95:	TOTAL: \$19,788
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T H MARKERT	GSFC/R PETRE	11-Astronomy

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAG 5-2255 Massachusetts Institute of Technology 5106
MICRO/MESOSCALE PHENOMENA OF CHARGED PARTICLE ENER
GIZATION, DIFFUSION AND TRANSPORT
Period *Obligations*
04/27/1993-04/30/1996 FY95: \$265,000 TOTAL: \$670,119
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T CHANG GSFC/T J BIRMINGHAM 13-Physics
GSFC/J D BOHLIN

NAG 5-2490 Massachusetts Institute of Technology 5107
FACTORS CONTROLLING POLEWARD HEAT TRANSPORT IN CLI
MATE MODELS
Period *Obligations*
01/27/1994-01/31/1996 FY95: \$50,640 TOTAL: \$101,280
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P H STONE GSFC/D G DUFFY 31-Atmos Sci

NAG 5-2536 Massachusetts Institute of Technology 5108
SEARCHING FOR THE BASE OF THE GALACTIC HALO: IUE
OBSERVATIONS OF HIGHLY IONIZED GAS IN INTERARM....
Period *Obligations*
03/09/1994-09/14/1995 FY95: TOTAL: \$1,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K SEMBACH GSFC/D WEST 11-Astronomy

NAG 5-2540 Massachusetts Institute of Technology 5109
SPECTROSCOPIC STUDY OF LMC X-4 ECLIPSE PHENOMENA
Period *Obligations*
02/28/1994-03/14/1997 FY95: \$47,000 TOTAL: \$59,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G W CLARK GSFC/N WHITE 11-Astronomy

NAG 5-2541 Massachusetts Institute of Technology 5110
OBSERVATIONS OF DISTANT, X-RAY SELECTED CLUSTERS O F
GALAXIES
Period *Obligations*
02/28/1994-03/14/1996 FY95: TOTAL: \$8,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M W BAUTE GSFC/N WHITE 11-Astronomy

NAG 5-2542 Massachusetts Institute of Technology 5111
X-RAY SPECTRAL STUDY OF THE SUPERNOVA REMNANT G296
.1-0.7
Period *Obligations*
02/24/1994-03/14/1996 FY95: \$10,000 TOTAL: \$26,922
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T H MARKERT GSFC/N WHITE 11-Astronomy

NAG 5-2545 Massachusetts Institute of Technology 5112
IMPROVED PASSIVE MICROWAVE SOUNDING OF THE ATMOSPHE
RE
Period *Obligations*
03/09/1994-03/14/1996 FY95: \$135,000 TOTAL: \$270,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D H STAELIN GSFC/J SHIUE 31-Atmos Sci

NAG 5-2582 Massachusetts Institute of Technology 5113
PARTICIPATION IN ASHOE/MAESA EXPERIMENT
Period *Obligations*
04/21/1994-04/30/1995 FY95: TOTAL: \$80,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A PLUMB GSFC/R W STEWART 31-Atmos Sci

NAG 5-2632 Massachusetts Institute of Technology 5114
ROSAT STUDIES OF TRANSIENT BINARY X-RAY PULSARS
Period *Obligations*
06/23/1994-12/31/1995 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P JOSS GSFC/R PETRE 11-Astronomy

NAG 5-2661 Massachusetts Institute of Technology 5115
LOW LUMINOSITY X-RAY SOURCE(S) IN 47-TUC, SPECTRAL AND
IMAGING STUDIES OF THE SUPERNOVA REMNANT PKS
Period *Obligations*
07/21/1994-10/31/1995 FY95: TOTAL: \$32,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S RAPPAPORT GSFC/N WHITE 11-Astronomy

NAG 5-2685 Massachusetts Institute of Technology 5116
CONTINUATION OF RESEARCH AND IN ORBIT MONITORING OF
THE SOLID STATE IMAGING SPECTROMETER
Period *Obligations*
08/11/1994-08/14/1996 FY95: TOTAL: \$327,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G RICKER GSFC/N WHITE 11-Astronomy

NAG 5-2734 Massachusetts Institute of Technology 5117
X-RAY BURST SPECTROSCOPY
Period *Obligations*
09/21/1994-03/31/1996 FY95: TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W LEWIS GSFC/N WHITE 11-Astronomy

NAG 5-2740 Massachusetts Institute of Technology 5118
CHARACTERIZING STELLAR CORONAE
Period *Obligations*
09/27/1994-03/31/1996 FY95: \$27,351 TOTAL: \$27,351
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D HUENEMOERDER GSFC/N WHITE 11-Astronomy

NAG 5-2812 Massachusetts Institute of Technology 5119
DIAGNOSIS OF STROTSpheric TRANSPORT USING MEASUREM
ENTS OF LONG-LIVED TRACERS FROM UARS
Period *Obligations*
12/07/1994-12/14/1995 FY95: \$99,930 TOTAL: \$99,930
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A PLUMB GSFC/C H JACKMAN 31-Atmos Sci

NAG 5-2816 Massachusetts Institute of Technology 5120
COSMOLOGY AND STRUCTURE FORMATION.
Period *Obligations*
12/07/1994-12/14/1996 FY95: \$200,000 TOTAL: \$200,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E BERTSCHINGER GSFC/D WEST 11-Astronomy

NAG 5-2839 Massachusetts Institute of Technology 5121
SUPPORT OF REDUCTION AND ANALYSIS OF DATA FROM THE
WIND SPACECRAFT DURING THE MOANODA PHASE OF THE PRO
Period *Obligations*
12/14/1994-12/14/1995 FY95: \$167,700 TOTAL: \$167,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A J LAZARUS GSFC/K W OGILVIE 19-Phys Sci, NEC

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAG 5-2890 Massachusetts Institute of Technology 5122
 BINARY SYSTEMS CONTAINING COLLAPSED STARS: EVOLUTION AND OBSERVATIONAL CONSEQUENCES
Period Obligations
 02/17/1995-02/29/1996 FY95: \$32,300 TOTAL: \$32,300
Prin. Invest. NASA Tech. Officer CASE Category
 S A RAPPAPORT GSFC/D WEST 11-Astronomy

NAG 5-2899 Massachusetts Institute of Technology 5123
 DEFINITION STUDY OF X-RAY CCD FOCAL PLANE ASSEMBLIES AND ELECTRONICS FOR THE ASTRO-E MISSION
Period Obligations
 02/23/1995-11/30/1995 FY95: \$214,682 TOTAL: \$214,682
Prin. Invest. NASA Tech. Officer CASE Category
 G R RICKER MSFC/R E DONNELLY 11-Astronomy
 MSFC/J B HARTMAN

NAG 5-2907 Massachusetts Institute of Technology 5124
 PARTICIPATION IN THE GISS EOS PROPOSAL
Period Obligations
 03/14/1995-01/14/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 P STONE GSFC/D RIND 31-Atmos Sci

NAG 5-2921 Massachusetts Institute of Technology 5125
 MEASUREMENT OF MASS DISTRIBUTION IN ABELL CLUSTERS
Period Obligations
 03/22/1995-09/30/1996 FY95: \$46,672 TOTAL: \$46,672
Prin. Invest. NASA Tech. Officer CASE Category
 D CANIZARES GSFC/N WHITES 11-Astronomy

NAG 5-2928 Massachusetts Institute of Technology 5126
 ANALYSIS OF GRAVITY, MAGNETIC, AND SEISMIC REFLECTION DATA FROM TIBET AND NEIGHBORING REGIONS ETC.
Period Obligations
 04/14/1995-04/14/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 M MCNUTT GSFC/B G BILLS 32-Geological Sci

NAG 5-3009 Massachusetts Institute of Technology 5127
 SYSTEMATIC STUDY OF BLACK-HOLE CANDIDATES WITH GINGA DATA GALAXIES
Period Obligations
 07/18/1995-08/31/1996 FY95: \$34,750 TOTAL: \$34,750
Prin. Invest. NASA Tech. Officer CASE Category
 W H LEWIN GSFC/D WEST 11-Astronomy

NAG 8-185 Massachusetts Institute of Technology 5128
 DETERMINATION OF THE ATMOSPHERIC STRUCTURE OF THE BO-STAR COMPANION OF SMC X-1 BY ANALYSIS OF DATA
Period Obligations
 03/25/1991-07/09/1994 FY95: TOTAL: \$97,369
Prin. Invest. NASA Tech. Officer CASE Category
 G W CLARK MSFC/J V VARGAS 31-Atmos Sci

NAG 8-285 Massachusetts Institute of Technology 5129
 MASSIVE X-RAY BINARIES WITH GINGA
Period Obligations
 03/16/1993-09/15/1995 FY95: TOTAL: \$59,574
Prin. Invest. NASA Tech. Officer CASE Category
 S RAPPAPORT MSFC/J VARGAS 11-Astronomy
 A M LEVINE

NAG 8-286 Massachusetts Institute of Technology 5130
 SYSTEMATIC STUDY OF BLACK HOLE CANDIDATES
Period Obligations
 03/31/1993-03/30/1996 FY95: TOTAL: \$149,430
Prin. Invest. NASA Tech. Officer CASE Category
 W H LEWIN MSFC/J VARGAS 11-Astronomy

NAG 8-295 Massachusetts Institute of Technology 5131
 MODELING OF OUTGASSING AND MATRIX DECOMPOSITION IN CARBON-PHENOLIC COMPOSITES
Period Obligations
 05/20/1993-08/31/1995 FY95: TOTAL: \$108,766
Prin. Invest. NASA Tech. Officer CASE Category
 H L MCMANUS MSFC/R M SULLIVAN 49-Engr, NEC
 MSFC/R G CLINTON

NAG 8-935 Massachusetts Institute of Technology 5132
 R/S 'PRECIPITATION AND LIGHTNING IN TROPICAL CONVECTION'
Period Obligations
 09/08/1992-09/07/1995 FY95: \$66,400 TOTAL: \$189,880
Prin. Invest. NASA Tech. Officer CASE Category
 E R WILLIAMS MSFC/H J CHRISTIAN 31-Atmos Sci

NAG 8-949 Massachusetts Institute of Technology 5133
 BSO/BTO IDENTIFICATION OF GRAVITY RELATED EFFECTS ON CRYSTAL GROWTH, SEGREGATION AND DEFECT FORMATION
Period Obligations
 01/28/1993-01/27/1996 FY95: \$199,974 TOTAL: \$598,857
Prin. Invest. NASA Tech. Officer CASE Category
 A F WITT MSFC/E C ETHRIDGE 19-Phys Sci, NEC

NAG 8-951 Massachusetts Institute of Technology 5134
 INTERFACIAL TRANSPORT AND CELLULAR SOLUBILIZATION PROCESS
Period Obligations
 01/22/1993-01/14/1996 FY95: \$110,000 TOTAL: \$388,000
Prin. Invest. NASA Tech. Officer CASE Category
 T A HATTON MSFC/B FACEMIRE 13-Physics

NAG 8-961 Massachusetts Institute of Technology 5135
 MODEL CONVECTION AND CRYSTAL GROWTH IN DIRECT SOLIDIFICATION OF SEMICONDUCTOR AND OXIDES MATERIALS
Period Obligations
 06/15/1993-06/30/1996 FY95: \$125,000 TOTAL: \$375,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A BROWN MSFC/S L LEHOCZKY 43-Chem Engr

NAG 8-962 Massachusetts Institute of Technology 5136
 MICROSTRUCTURE FORMATION WHILE DIRECT SOLIDIFICATION OF BINARY ALLOYS WITH NO CONVECTION
Period Obligations
 07/15/1993-06/30/1996 FY95: \$125,000 TOTAL: \$375,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A BROWN MSFC/F R SZOFRAN 43-Chem Engr

NAG 8-970 Massachusetts Institute of Technology 5137
 MEASUREMENTS OF THE VISCOSITY OF UNDERCOOLED SELTS UNDER THE CORDITION OF MICROGRAVITY AND SUPPORTI
Period Obligations
 05/21/1993-02/28/1994 FY95: TOTAL: \$109,325
Prin. Invest. NASA Tech. Officer CASE Category
 J SZEKELY MSFC/R C DARTY 12-Chemistry

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAG 8-971 Massachusetts Institute of Technology 5138
ALLOY UNDERCOOLING EXPERIMENTS
Period *Obligations*
03/19/1993-03/18/1995 FY95: TOTAL: \$439,998
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M FLEMINGS MSFC/R C DARTY 13-Physics

NAG 9-694 Massachusetts Institute of Technology 5146
INTERNSHIP PROGRAM
Period *Obligations*
05/26/1993-04/30/1995 FY95: \$4,000 TOTAL: \$53,129
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J L KERREBROCK JSC/D SICKOREZ 41-Aero Engr

NAG 8-1069 Massachusetts Institute of Technology 5139
DROPLETS RESEARCH
Period *Obligations*
09/12/1994-09/11/1996 FY95: \$50,002 TOTAL: \$100,002
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J SZEKELY MSFC/M B ROBINSON 19-Phys Sci, NEC
MSFC/B SCHRICK

NAG 9-836 Massachusetts Institute of Technology 5147
MICROGRAVITY TISSUE ENGINEERING
Period *Obligations*
09/19/1995-08/31/1996 FY95: \$1,032,518 TOTAL: \$1,032,518
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D E FREED JSC/D R PELLIS 51-Biological Sci

NAG 8-1078 Massachusetts Institute of Technology 5140
VISCOSITY MEASUREMENTS
Period *Obligations*
05/01/1994-04/30/1995 FY95: TOTAL: \$108,826
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J SZEKELY MSFC/R C DARTY 12-Chemistry

NAGW 474 Massachusetts Institute of Technology 5148
INTERPRETATION OF NIMBUS-7 AND SAGE-1 AEROSOL AND TRACE
GAS DATA USING THREE-DIMENSIONAL MODELS
Period *Obligations*
06/17/1983-12/31/1995 FY95: \$123,000 TOTAL: \$1,218,654
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R G PRINN HQ/J A KAYE 31-Atmos Sci
HQ/R E MURPHY

NAG 8-1110 Massachusetts Institute of Technology 5141
CRYSTAL RESEARCH
Period *Obligations*
12/07/1994-12/06/1995 FY95: \$59,999 TOTAL: \$59,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P CEBE MSFC/B G PENN 19-Phys Sci, NEC

NAGW 525 Massachusetts Institute of Technology 5149
STUDIES OF GLOBAL SCALE EVALUATION PROCESS OF THE EARTH'S
ATMOSPHERE
Period *Obligations*
11/01/1983-09/30/1995 FY95: \$84,000 TOTAL: \$1,634,575
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R S LINDZEN HQ/R K KAKAR 31-Atmos Sci
R DOLE HQ/J THEON

NAG 9-302 Massachusetts Institute of Technology 5142
CRYSTALLIZATION PROCESS IN EUCRITE BODY
Period *Obligations*
07/11/1988-07/01/1994 FY95: TOTAL: \$189,590
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T L GROVE JSC/I D BROWNE 32-Geological Sci

NAGW 706 Massachusetts Institute of Technology 5150
SOLAR SYSTEM DYNAMICS
Period *Obligations*
02/01/1985-09/30/1995 FY95: \$105,000 TOTAL: \$736,523
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J WISDOM HQ/J R UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

NAG 9-602 Massachusetts Institute of Technology 5143
EFFECT OF MICROGRAVITY ON MICROBIAL SECONDARY
METABOLISM
Period *Obligations*
05/05/1992-05/01/1996 FY95: TOTAL: \$246,648
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A L DEMAIN JSC/D L PIERSON 51-Biological Sci

NAGW 732 Massachusetts Institute of Technology 5151
GLOBAL ATMOSPHERIC GASES EXPERIMENT (GAGE)
Period *Obligations*
11/01/1984-01/31/1996 FY95: \$422,590 TOTAL: \$2,227,989
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R G PRINN HQ/R D MCPETERS 31-Atmos Sci
HQ/M J PRATHER

NAG 9-655 Massachusetts Institute of Technology 5144
MICROGRAVITY STUDIES OF CELL POLYMER CARTILAGE
IMPLANTS
Period *Obligations*
01/22/1993-03/01/1996 FY95: \$160,000 TOTAL: \$470,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L E FREED JSC/G SPAULDING 51-Biological Sci

NAGW 1048 Massachusetts Institute of Technology 5152
FOUR MONTH NCE THROUGH 2/28/89 UNDER NEW CLAUSE
Period *Obligations*
05/01/1987-02/28/1995 FY95: \$201,995 TOTAL: \$1,239,030
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C WUNSCH HQ/J G RICHMAN 33-Oceanography
HQ/W S WILSON

NAG 9-678 Massachusetts Institute of Technology 5145
STABLE GRASPING OF OBJECTS USING VISION AND TOUCH
INFORMATION: STATIC CYLINDERS
Period *Obligations*
04/01/1993-10/01/1994 FY95: TOTAL: \$33,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J K SALISBURY JSC/L LI 46-Mech Engr

NAGW 1335 Massachusetts Institute of Technology 5153
CENTER FOR SPACE ENGINEERING RESEARCH
Period *Obligations*
08/09/1988-10/31/1995 FY95: \$365,600 TOTAL: \$8,749,851
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E F CRAWLEY HQ/G I JOHNSTON 49-Engr, NEC

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAGW 1386 Massachusetts Institute of Technology 5154
A STUDY OF INTERFEROMETRIC METHODS FOR THE DETECTION OF PLANETS

<i>Period</i>	<i>Obligations</i>	
08/03/1988-06/30/1997	FY95: \$75,000	TOTAL: \$525,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B I BURKE	HQ/C PILCHER	11-Astronomy

NAGW 1727 Massachusetts Institute of Technology 5162
LARGE-SCALE DYNAMICS AND TRANSPORT IN THE STRATOSPHERE

<i>Period</i>	<i>Obligations</i>	
03/17/1989-02/28/1996	FY95: \$130,770	TOTAL: \$801,249
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R A PLUMB	HQ/R D MCPETERS	31-Atmos Sci
	HQ/M J PRATHER	

NAGW 1450 Massachusetts Institute of Technology 5155
PHOTOMETRY OF PLUTO-CHARON MUTUAL EVENTS

<i>Period</i>	<i>Obligations</i>	
08/23/1988-09/30/1997	FY95: \$100,000	TOTAL: \$363,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R BINZEL	HQ/J H RAHE	11-Astronomy

NAGW 1951 Massachusetts Institute of Technology 5163
PROPOSAL FOR THE STUDY OF RATES AND GEOMETRIES OF DEFORMATION IN AN ACTIVE 'BACK-ARC' EXTENSIONAL REGIME

<i>Period</i>	<i>Obligations</i>	
04/19/1990-09/30/1995	FY95: \$40,000	TOTAL: \$200,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L H ROYDEN	HQ/M BALTUCK	51-Biological Sci

NAGW 1494 Massachusetts Institute of Technology 5156
OCULTATION STUDIES OF THE SOLAR SYSTEM

<i>Period</i>	<i>Obligations</i>	
12/12/1988-11/30/1997	FY95: \$104,998	TOTAL: \$570,778
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L ELLIOT	HQ/J H RAHE	11-Astronomy

NAGW 1961 Massachusetts Institute of Technology 5164
NAGW-1961/MASS INSTITUTE OF TECHNOLOGY/GPS DENSIFICATION OF THE SLR NETWORK IN TURKEY

<i>Period</i>	<i>Obligations</i>	
04/18/1990-09/30/1995	FY95: \$92,000	TOTAL: \$378,990
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M N TOKSOZ	HQ/M BALTUCK	19-Phys Sci, NEC

NAGW 1532 Massachusetts Institute of Technology 5157
PLASMA TURBULENCE AND PARTICLE ACCELERATION IN THE

<i>Period</i>	<i>Obligations</i>	
11/29/1988-12/31/1994	FY95:	TOTAL: \$409,802
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T S CHANG	HQ/M M MELLOTT	13-Physics
	HQ/T W PERRY	

NAGW 2003 Massachusetts Institute of Technology 5165
EXPERIMENTAL AND OBSERVATIONAL INVESTIGATIONS IN HIGH ENERGY ASTROPHYSICS

<i>Period</i>	<i>Obligations</i>	
04/20/1990-12/31/1996	FY95: \$125,000	TOTAL: \$1,924,570
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G CLARK	HQ/L J KALUZIENSKI	11-Astronomy
	HQ/A N BUNNER	

NAGW 1545 Massachusetts Institute of Technology 5158
THEORETICAL STUDIES OF COLLAPSED OBJECTS IN BINARY

<i>Period</i>	<i>Obligations</i>	
12/01/1988-12/31/1995	FY95:	TOTAL: \$339,004
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P C JOSS	HQ/L J KALUZIENSKI	11-Astronomy
S RAPPAPORT	HQ/A N BUNNER	

NAGW 2014 Massachusetts Institute of Technology 5166
SPACE ENGINEERING (SECTION II)

<i>Period</i>	<i>Obligations</i>	
02/28/1990-09/30/1995	FY95: \$125,000	TOTAL: \$590,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E F CRAWLEY	HQ/E W BULL	49-Engr, NEC
E CRAWLEY	HQ/S L VENNERI	
J W MAR		

NAGW 1550 Massachusetts Institute of Technology 5159
INVESTIGATIONS OF THE INTERPLANETARY MEDIUM

<i>Period</i>	<i>Obligations</i>	
12/06/1988-05/31/1998	FY95: \$68,657	TOTAL: \$638,787
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A J LAZARUS	HQ/M M MELLOTT	13-Physics
	HQ/W V JONES	

NAGW 2048 Massachusetts Institute of Technology 5167
SPACE-TIME EVOLUTION OF CYCLOTRON MASER INSTABILITIES GENERATING AURORAL KILOMETRIC RADIATION

<i>Period</i>	<i>Obligations</i>	
05/08/1990-03/31/1994	FY95:	TOTAL: \$222,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A BERS	HQ/M M MELLOTT	13-Physics
	HQ/T PERRY	

NAGW 1617 Massachusetts Institute of Technology 5160
REMOTE SENSING OF EARTH TERRAIN

<i>Period</i>	<i>Obligations</i>	
01/19/1989-12/31/1994	FY95:	TOTAL: \$570,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A KONG	HQ/G ASRAR	13-Physics

NAGW 1667 Massachusetts Institute of Technology 5161
INELASTIC COLLISION PROCESSES IN OZONE AND THEIR RELATION

<i>Period</i>	<i>Obligations</i>	
03/08/1989-05/31/1996	FY95: \$69,327	TOTAL: \$515,286
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J I STEINFELD	HQ/M J KURYLO	31-Atmos Sci
	HQ/S G TILFORD	

NAGW 2049 Massachusetts Institute of Technology 5168
ELECTRONIC SPECTRA OF MATERIALS SIMULATING PLANETARY SURFACES: OXIDATION PRODUCTS ON MARS AND VENUS

<i>Period</i>	<i>Obligations</i>	
04/05/1990-10/31/1995	FY95:	TOTAL: \$259,200
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R BURNS	HQ/T A MAXWELL	32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAGW 2089 Massachusetts Institute of Technology 5169
CONTINUED DEVELOPMENT OF AN EXPLOSIVE TRANSIENT CA
MERA FOR IDENTIFICATION OF GAMMA RAY BURST SOURCE

<i>Period</i>	<i>Obligations</i>	
06/06/1990-11/30/1995	FY95: \$173,000	TOTAL: \$1,436,848
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G RICKER	HQ/L J KALUZIENSKI	11-Astronomy
	HQ/A N BUNNER	

NAGW 2155 Massachusetts Institute of Technology 5170
NAGW-2155/MASS INSTITUTE TECHNOLOGY/GEODETIC, REMO TE
SENSING, GEOLOGICAL AND GEOPHYSICAL STUDY

<i>Period</i>	<i>Obligations</i>	
08/08/1990-05/31/1996	FY95:	TOTAL: \$405,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B G BURCHFIEL	HQ/M BALTUCK	32-Geological Sci
	HQ/T PIEPER	

NAGW 2161 Massachusetts Institute of Technology 5171
CONVECTION IN VENUS: OBSERVATIONS, MODELS AND COM
PARISON WITH EARTH

<i>Period</i>	<i>Obligations</i>	
06/13/1990-12/31/1994	FY95:	TOTAL: \$209,999
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B H HAGER	HQ/T A MAXWELL	32-Geological Sci

NAGW 2190 Massachusetts Institute of Technology 5172
NAGW-2190/MASS INSTITUTE OF TECHNOLOGY/LABORATORY
CHEMISTRY OF CHLORINE AND FLUORINE COMPOUNDS

<i>Period</i>	<i>Obligations</i>	
08/08/1990-12/31/1995	FY95: \$198,110	TOTAL: \$1,179,605
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M J MOLINA	HQ/M J KURYLO	31-Atmos Sci
	HQ/R T WATSON	

NAGW 2310 Massachusetts Institute of Technology 5173
NAGW-2310/MASS INSTITUTE TECHNOLOGY/THE FEASIBILIT Y OF
A RADIO ASTROMETRIC SEARCH FOR PLANETARY

<i>Period</i>	<i>Obligations</i>	
01/23/1991-10/31/1993	FY95:	TOTAL: \$135,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J N HEWITT	HQ/J A NUTH	19-Phys Sci, NEC

NAGW 2341 Massachusetts Institute of Technology 5174
THE PREBIOTIC SYNTHESIS OF POLYNUCLEOTIDES AND POL
YNUCLEOTIDE DIRECTED POLYPEPTIDES

<i>Period</i>	<i>Obligations</i>	
02/14/1991-11/30/1995	FY95: \$72,370	TOTAL: \$339,899
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A RICH	HQ/J D RUMMEL	51-Biological Sci

NAGW 2385 Massachusetts Institute of Technology 5175
ANALYSIS OF VARIATIONS IN NEPTUNE'S ATMOSPHERE COR
RELATED SPACECRAFT/GROUND-BASED IMAGING AND PHOTO

<i>Period</i>	<i>Obligations</i>	
05/21/1991-02/28/1994	FY95:	TOTAL: \$251,250
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H B HAMMEL	HQ/W L QUAIDE	19-Phys Sci, NEC

NAGW 2387 Massachusetts Institute of Technology 5176
NAGW-2387/MASS INSTITUTE TECHNOLOGY/SPECTRAL LINE
POSITIONS, INTENSITIES, AND ASSIGNMENTS FOR METHANE

<i>Period</i>	<i>Obligations</i>	
06/04/1991-06/30/1995	FY95:	TOTAL: \$192,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J I STEINFELD	HQ/J T BERGSTRALH	11-Astronomy

NAGW 2403 Massachusetts Institute of Technology 5177
DETAILED ANALYSIS OF LOW ENERGY PLASMA DATA

<i>Period</i>	<i>Obligations</i>	
06/10/1991-03/31/1994	FY95:	TOTAL: \$445,999
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J W BELCHER	HQ/W L QUAIDE	19-Phys Sci, NEC

NAGW 2711 Massachusetts Institute of Technology 5178
THE APPLICATION OF THE ADJOINT METHOD TO THE CME

<i>Period</i>	<i>Obligations</i>	
09/04/1991-03/31/1996	FY95:	TOTAL: \$431,140
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P MALANOTTE-RIZZO	HQ/D ADAMEO	31-Atmos Sci
	HQ/R A SCHIFFER	

NAGW 2795 Massachusetts Institute of Technology 5179
EVOLUTION OF LATE ARCHEAN CARBONATE SEDIMENTS, STR
OMATOLITES, AND ENVIRONMENTS

<i>Period</i>	<i>Obligations</i>	
12/18/1991-12/31/1994	FY95:	TOTAL: \$228,979
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J P GROTZINGER	HQ/J D RUMMEL	32-Geological Sci

NAGW 2807 Massachusetts Institute of Technology 5180
INFRARED EMISSION OF MICROWAVE BACKGROUND ANISOTRO
PHY FROM COSMOLOGICAL N-BODY SIMULATIONS

<i>Period</i>	<i>Obligations</i>	
01/06/1992-03/31/1995	FY95:	TOTAL: \$115,060
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E BERTSCHINGER	HQ/L J CAROFF	11-Astronomy

NAGW 2942 Massachusetts Institute of Technology 5181
A COUPLED REMOTE SENSINGS AND MODELING APPROACH TO
ESTIMATION OF MOISTURE AND TEMPERATURE

<i>Period</i>	<i>Obligations</i>	
02/28/1992-12/31/1994	FY95:	TOTAL: \$148,417
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D ENTEKHABI	HQ/R E MURPHY	39-Env Sci, NEC
	HQ/D M BUTLER	

NAGW 2956 Massachusetts Institute of Technology 5182
GENERAL CIRCULATION OF PLANETARY ATMOSPHERES

<i>Period</i>	<i>Obligations</i>	
03/03/1992-12/31/1995	FY95: \$50,000	TOTAL: \$206,406
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T E DOWLING	HQ/W L QUAIDE	11-Astronomy

NAGW 3007 Massachusetts Institute of Technology 5183
ANALYSIS OF SPACE GEODETIC MEASUREMENTS FOR STUDYI NG
THE DYNAMICS OF SOLID EARTH

<i>Period</i>	<i>Obligations</i>	
03/20/1992-12/31/1994	FY95:	TOTAL: \$385,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T A HERRING	HQ/R E MURPHY	32-Geological Sci
	HQ/D M BUTLER	

NAGW 3296 Massachusetts Institute of Technology 5184
PLUTO-CHARON PHYSICAL STUDIES WITH OBSERVATIONS FR OM
MAUNA KEA

<i>Period</i>	<i>Obligations</i>	
01/06/1993-11/30/1994	FY95:	TOTAL: \$68,600
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L ELLIOT	HQ/H C BRINTON	11-Astronomy

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAGW 3310 Massachusetts Institute of Technology 5185
 NAGW-3310/MASS INSTITUTE OF TECHNOLOGY/VERTICAL
 AEROSOL DISTRIBUTION ON NEPTUNE AND URANUS
Period *Obligations*
 01/06/1993-06/30/1996 FY95: TOTAL: \$68,730
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H B HAMMEL HQ/H C BRINTON 11-Astronomy

NAGW 3927 Massachusetts Institute of Technology 5193
 NASA CENTER FOR QUANTITATIVE CARDIOVASCULAR PHYSIO
 LOGY
Period *Obligations*
 04/12/1994-01/14/1996 FY95: \$388,257 TOTAL: \$696,763
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R J COHEN HQ/R J WHITE 59-Life Sci, NEC

NAGW 3422 Massachusetts Institute of Technology 5186
 STUDIES OF ACTIVE COOL STARS
Period *Obligations*
 02/25/1993-06/30/1995 FY95: TOTAL: \$92,273
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D P HUENEMOERDER HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 3936 Massachusetts Institute of Technology 5194
 THEORETICAL STUDY OF SOLAR ACOUSTIC OSCILLATIONS
Period *Obligations*
 04/11/1994-01/31/1996 FY95: \$87,999 TOTAL: \$172,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P KUMAR HQ/W J WAGONER 13-Physics
 HQ/J D BOHLIN

NAGW 3511 Massachusetts Institute of Technology 5187
 THEORETICAL STUDY OF HIGH FREQUENCY SOLAR ACOUSTIC AL
 OSCILLATIONS
Period *Obligations*
 04/06/1993-01/31/1994 FY95: TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P KUMAR HQ/W J WAGNER 13-Physics
 HQ/J D BOHLIN

NAGW 3941 Massachusetts Institute of Technology 5195
 DEVELOPMENT OF A LOW MASS LOW POWER HIGH VOLTAGE
Period *Obligations*
 05/02/1994-12/31/1994 FY95: TOTAL: \$55,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A J LAZARUS HQ/W V JONES 13-Physics
 HQ/J D BOHLIN

NAGW 3586 Massachusetts Institute of Technology 5188
 PHASE EQUILIBRIUM INVESTIGATIONS OF PLANETARY MATE
 RIALS
Period *Obligations*
 05/12/1993-06/30/1996 FY95: \$61,290 TOTAL: \$152,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T GROVE HQ/J BOYCE 32-Geological Sci

NAGW 3958 Massachusetts Institute of Technology 5196
 VISUAL VESTIBULAR INTERACTION
Period *Obligations*
 05/10/1994-02/29/1996 FY95: \$330,000 TOTAL: \$660,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L R YOUNG HQ/F M SULZMAN 56-Medical Sciences
 C M OMAN

NAGW 3608 Massachusetts Institute of Technology 5189
 NON-EQUILIBRIUM CHEMISTRY OF THE EARLY SOLAR SYSTE M
Period *Obligations*
 05/21/1993-09/30/1995 FY95: TOTAL: \$38,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R PRINN HQ/J BOYCE 32-Geological Sci

NAGW 4163 Massachusetts Institute of Technology 5197
 EXTENSIONS AND TESTING OF HYDROLOGIC PARAMETERIZATI ONS
 IN THE GISS GCM
Period *Obligations*
 10/24/1994-12/31/1997 FY95: \$105,797 TOTAL: \$105,797
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D ENTEKHABI HQ/R A SCHIFFER 39-Env Sci, NEC

NAGW 3787 Massachusetts Institute of Technology 5190
 INVESTIGATION OF VENUS SURFACE ELECTRICAL AND MECH
 ANICAL
Period *Obligations*
 10/06/1993-06/30/1996 FY95: \$120,000 TOTAL: \$260,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P G FORD HQ/J T BERGSTRALH 32-Geological Sci

NAGW 4164 Massachusetts Institute of Technology 5198
 MUTUAL INTERACTION OF SOIL MOISTURE AND CLIMATE DY
 NAMICS
Period *Obligations*
 10/24/1994-12/31/1997 FY95: \$92,500 TOTAL: \$92,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D ENTEKHABI HQ/M Y WEI 39-Env Sci, NEC
 HQ/J S THEON

NAGW 3808 Massachusetts Institute of Technology 5191
 AFRICAN CLIMATE AND VEGETATION STUDIES RELATED TO THE
 HAPEX SAHEL
Period *Obligations*
 12/13/1993-07/31/1994 FY95: TOTAL: \$31,477
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D ENTEKHABI HQ/R E MURPHY 39-Env Sci, NEC
 S N NICHOLSON HQ/D E WICKLAND

NAGW 4333 Massachusetts Institute of Technology 5199
 SPACELAB ROTATING CHAIR EXTENDED DATA ANALYSIS
Period *Obligations*
 03/04/1995-01/14/1996 FY95: \$138,897 TOTAL: \$138,897
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C M OMAN HQ/R J WHITE 59-Life Sci, NEC

NAGW 3901 Massachusetts Institute of Technology 5192
 SPECTROSCOPY OF NEW EARTH OBJECTS
Period *Obligations*
 03/18/1994-12/31/1994 FY95: TOTAL: \$28,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R BINZEL HQ/J A RAHE 11-Astronomy

NAGW 4336 Massachusetts Institute of Technology 5200
 DEVELOPMENT OF DATA-DRIVEN MODELS TO DESCRIBE ASTR
 ONAUT PERFORMANCE IN MICROGRAVITY
Period *Obligations*
 03/15/1995-01/14/1998 FY95: \$91,718 TOTAL: \$91,718
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D J NEWMAN HQ/R J WHITE 59-Life Sci, NEC

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAGW 4351 Massachusetts Institute of Technology 5201
INVESTIGATION OF VENUS SURFACE ELECTRICAL AND
MECHANICAL PROPERTIES
Period *Obligations*
03/15/1995-12/31/1995 FY95: \$55,000 TOTAL: \$55,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P FORD HQ/H BRINTON 31-Atmos Sci

NAGW 4427 Massachusetts Institute of Technology 5202
ADVANCED DESIGN PROGRAM
Period *Obligations*
04/25/1995-01/24/1996 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S WEISS HQ/A S MCGEE 49-Engr, NEC
HQ/G JOHNSTON

NAGW 4498 Massachusetts Institute of Technology 5203
TELEMEDICINE WORKSTATION, EVALUATION AND TECHNOLOGY
ASSESSMENT
Period *Obligations*
05/13/1995-01/31/1996 FY95: \$22,232 TOTAL: \$22,232
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J NEWMAN HQ/E W FERGUSON 99-Multi-Discip

NAGW 4508 Massachusetts Institute of Technology 5204
A COUPLED REMOTE SENSING AND MODELING APPROACH TO
ESTIMATION OF SOIL MOISTURE
Period *Obligations*
05/15/1995-03/31/1996 FY95: \$53,438 TOTAL: \$53,438
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D ENTEKHABI HQ/D E WICKLAND 39-Env Sci, NEC
E NJOKU HQ/A C JANETOS

NAGW 4621 Massachusetts Institute of Technology 5205
MIT PARTICIPATION AS ASUB-NODE IN THE PLANETARY DA TA
SYSTEM GEOSCIENCES NODE
Period *Obligations*
07/31/1995-06/30/1996 FY95: \$46,250 TOTAL: \$46,250
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P FORD HQ/J BERGSTR LH 11-Astronomy

NAGW 4691 Massachusetts Institute of Technology 5206
MICROMACHINED MILLIMETER AND SUBMILLIMETER-WAVE SI S
HETERODYNE RECEIVERS FOR REMOTE SENSING
Period *Obligations*
08/09/1995-07/31/1998 FY95: \$90,000 TOTAL: \$90,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
Q HU HQ/G ASRAR 41-Aero Engr

NAGW 4707 Massachusetts Institute of Technology 5207
TOPOGRAPHY AND THE LARGE-SCALE SPATIAL DISTRIBUTION OF
SOIL MOISTURE
Period *Obligations*
08/16/1995-05/31/1998 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E ELTAHR HQ/M Y WEI 39-Env Sci, NEC
HQ/A C JANETOS

NAGW 4750 Massachusetts Institute of Technology 5208
ON THE SPACE TIME ORGANIZATION OF SOIL MOISTURE FIELDS:
DYNAMICS AND INTERACTION W/ATMOSPHERE
Period *Obligations*
09/22/1995-08/31/1998 FY95: \$41,798 TOTAL: \$41,798
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D ENTEKHABI HQ/M Y WEI 39-Env Sci, NEC
I RODRIGUEZ-ITUBE HQ/A C JANETOS

NAGW 4762 Massachusetts Institute of Technology 5209
USING DATA ASSIMILATION
Period *Obligations*
09/18/1995-08/31/1998 FY95: \$109,686 TOTAL: \$109,686
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D MCLAUGHLIN HQ/M Y WEI 41-Aero Engr
D ENTEKHABI HQ/A C JANETOS

NAGW 4778 Massachusetts Institute of Technology 5210
GORDON CONFERENCE ON HYDROLOGY, BIOLOGY, AND GEOCHEM
ISTRY OF FORESTED CATCHMENTS
Period *Obligations*
09/15/1995-09/30/1995 FY95: \$5,000 TOTAL: \$5,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H HEMOND HQ/M Y WEI 39-Env Sci, NEC

NAS 1-18690 Massachusetts Institute of Technology 5211
MID-DECK 0-GRAVITY DYNAMICS EXPERIMENT
Period *Obligations*
12/06/1988-04/30/1996 FY95: \$263,270 TOTAL: \$5,462,174
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E CROWLEY LARC/L G CLARK 42-Astro Engr
LARC/S M BECK

NAS 1-19622 Massachusetts Institute of Technology 5212
MIDDECK ACTIVE CONTROLS EXPERIMENT (MACE) PHASE C/D
Period *Obligations*
08/14/1992-03/14/1996 FY95: \$481,817 TOTAL: \$4,236,135
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E CRAWLEY LARC/G STOVER 41-Aero Engr
LARC/J B MILLER

NAS 3-27550 Massachusetts Institute of Technology 5213
MODELING OF ENVIRONMENTALLY INDUCED CHARGING IN CO
MPOSITE SPACE STRUCTURE
Period *Obligations*
06/12/1995-06/11/1996 FY95: \$81,598 TOTAL: \$81,598
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H L MC MANUS LERC/R CHOCK 41-Aero Engr

NAS 5-30543 Massachusetts Institute of Technology 5214
VLBI SUPPORT TO CRUSTAL DYNAMICS PROJECT
Period *Obligations*
02/08/1989-02/07/1994 FY95: TOTAL: \$9,424,398
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A E ROGERS GSFC/W T WILDES 32-Geological Sci
A E NIELL

NAS 5-30550 Massachusetts Institute of Technology 5215
FARADAY CUP SENSORS AND MEASUREMENT CHAIN FOR WIND
Period *Obligations*
03/15/1989-12/01/1994 FY95: \$6,000 TOTAL: \$2,217,996
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J LAZARUS GSFC/K OGALVIE 42-Astro Engr

NAS 5-30612 Massachusetts Institute of Technology 5216
ALL SKY MONITOR INSTRUMENTS
Period *Obligations*
12/15/1989-09/30/1997 FY95: \$1,310,000 TOTAL: \$21,134,328
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H BRADT GSFC/W DAVIS 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAS 5-31376 Massachusetts Institute of Technology 5217
 RECURSIVE ESTIMATION OF GEOGRAPHICAL PRODUCTS WITH
 AIRS/AMSU DATA (EOS INVESTIGATION)
Period *Obligations*
 01/10/1992-12/14/2001 FY95: \$264,000 TOTAL: \$768,000
Prin. Invest. NASA Tech. Officer CASE Category
 D H STAELIN GSFC/E KREINS 32-Geological Sci
 P W ROSENKRANZ

NAS 5-31721 Massachusetts Institute of Technology 5218
 EOS INVESTIGATION 'GLOBAL HYDROLOGIC PROCESSES
 CLIMATE'
Period *Obligations*
 09/19/1991-09/18/1996 FY95: \$125,000 TOTAL: \$533,250
Prin. Invest. NASA Tech. Officer CASE Category
 P EAGLESON GSFC/W LAU 39-Env Sci, NEC

NAS 5-31728 Massachusetts Institute of Technology 5219
 ACQUISITION OF VLBI CORRELATOR
Period *Obligations*
 03/19/1992-03/19/1997 FY95: \$1,689,872 TOTAL: \$3,844,556
Prin. Invest. NASA Tech. Officer CASE Category
 A R WHITNEY GSFC/B WILDES 32-Geological Sci

NAS 5-32353 Massachusetts Institute of Technology 5220
 MARK III VLBI SUPPORT
Period *Obligations*
 02/08/1994-02/07/1999 FY95: \$1,398,252 TOTAL: \$2,375,352
Prin. Invest. NASA Tech. Officer CASE Category
 A NEILL GSFC/W WILDES 32-Geological Sci

NAS 5-33017 Massachusetts Institute of Technology 5221
 GLRS SCIENCE TEAM MEMBER STUDY
Period *Obligations*
 09/01/1989-12/31/1995 FY95: \$105,000 TOTAL: \$298,000
Prin. Invest. NASA Tech. Officer CASE Category
 T HERRING GSFC/G SOFFEN 39-Env Sci, NEC

NAS 8-37716 Massachusetts Institute of Technology 5222
 CONDUCT AN X-RAY IMAGING SPECTROSCOPY SCIENTIFIC
 INVESTIGATION
Period *Obligations*
 07/23/1990-03/01/1999 FY95: \$21,493,000 TOTAL: \$42,974,000
Prin. Invest. NASA Tech. Officer CASE Category
 G RICKER MSFC/N B CUMINGS 11-Astronomy

NAS 8-38249 Massachusetts Institute of Technology 5223
 AXAF (HETGS)
Period *Obligations*
 07/13/1990-11/30/1999 FY95: \$3,600,000 TOTAL: \$16,290,000
Prin. Invest. NASA Tech. Officer CASE Category
 C R CANIZARES MSFC/C E WINKLER 11-Astronomy

NAS 9-16523 Massachusetts Institute of Technology 5224
 INS 102/VESTIBULAR EXPER/SPACELAB
Period *Obligations*
 01/01/1982-06/30/1995 FY95: \$37,304 TOTAL: \$6,680,671
Prin. Invest. NASA Tech. Officer CASE Category
 L R YOUNG JSC/M BUNTIN 59-Life Sci, NEC

NAS 9-18734 Massachusetts Institute of Technology 5225
 SPACELAB LIFE SCI MISSION SUPPORT
Period *Obligations*
 08/28/1992-11/30/1993 FY95: TOTAL: \$356,198
Prin. Invest. NASA Tech. Officer CASE Category
 L R YOUNG JSC/K NEWKIRK 59-Life Sci, NEC

NAS 9-19217 Massachusetts Institute of Technology 5226
 ROLE OF VISUAL CUES IN SPATIAL ORIENTATION
Period *Obligations*
 10/20/1994-09/30/1995 FY95: \$52,291 TOTAL: \$52,291
Prin. Invest. NASA Tech. Officer CASE Category
 C M OMAN JSC/S SAWYER 51-Biological Sci

NASW 4690 Massachusetts Institute of Technology 5227
 HIGH ENERGY TRANSIENT EXPERIMENT TO DETERMINE ORIG IN
 AND NATURE OF GAMMA-RAY BURSTS
Period *Obligations*
 03/30/1992-09/30/1995 FY95: \$1,791,425 TOTAL: \$13,415,425
Prin. Invest. NASA Tech. Officer CASE Category
 G RICKER HQ/D GILMAN 13-Physics
 HQ/L KALUZIENSKI

NASW 4870 Massachusetts Institute of Technology 5228
 BASIC RESEARCH ON CONTROL OF FLEXIBLE SYSTEMS
Period *Obligations*
 06/15/1994-03/14/1995 FY95: TOTAL: \$132,689
Prin. Invest. NASA Tech. Officer CASE Category
 W SEERING HQ/A B DOUGHERTY 46-Mech Engr

NASW 4886 Massachusetts Institute of Technology 5229
 IN-STEP PROGRAM PHASE A AWARD
Period *Obligations*
 05/12/1994-02/12/1995 FY95: \$77 TOTAL: \$120,077
Prin. Invest. NASA Tech. Officer CASE Category
 E F CRAWLEY HQ/J LANDERS 99-Multi-Discip

NCC 1-157 Massachusetts Institute of Technology 5230
 AEROELASTIC CONTROL USING STRAIN ACTUATED ADAPTIVE
 STRUCTURES
Period *Obligations*
 08/05/1991-12/30/1995 FY95: \$50,000 TOTAL: \$516,600
Prin. Invest. NASA Tech. Officer CASE Category
 E F CRAWLEY LARC/J HEEG 41-Aero Engr

NCC 2-570 Massachusetts Institute of Technology 5231
 PRINCIPAL INVESTIGATOR IN A BOX
Period *Obligations*
 12/29/1988-12/31/1995 FY95: \$158,086 TOTAL: \$1,760,276
Prin. Invest. NASA Tech. Officer CASE Category
 L R YOUNG ARC/S LAU 22-Computer Science
 ARC/D A ROSENTHAL

NCC 2-771 Massachusetts Institute of Technology 5232
 INERTIAL HEAD TRACKER FOR USE IN SUPER AUDITORY LO
 CALIZATION EXPERIMENTS
Period *Obligations*
 10/14/1992-08/31/1995 FY95: TOTAL: \$190,500
Prin. Invest. NASA Tech. Officer CASE Category
 N I PURLACH ARC/E M WENZEL 69-Psych, NEC
 ARC/C N NULL

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NCC 2-4001 Massachusetts Institute of Technology 5233
ALGORITHMS FOR IN-FLIGHT MODIFICATION ALGORITHMS FOR
IN-FLIGHT MODIFICATION

<i>Period</i>	<i>Obligations</i>	
12/16/1993-12/30/1995	FY95: \$67,566	TOTAL: \$136,424
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J D PADUANO	DFRC/J BURKEN	41-Aero Engr

NCC 2-5018 Massachusetts Institute of Technology 5234
RESEARCH IN SUPPORT OF INCREASED HELICOPTER MANUEV
ERABILITY AND AGILITY

<i>Period</i>	<i>Obligations</i>	
11/30/1993-12/31/1995	FY95: \$9,999	TOTAL: \$19,998
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
N D HAM	ARC/R T CHEN	41-Aero Engr

NCC 2-5116 Massachusetts Institute of Technology 5235
METHODS FOR IN-FLIGHT ROBUSTNESS EVALUATION

<i>Period</i>	<i>Obligations</i>	
02/02/1995-10/31/1995	FY95: \$40,000	TOTAL: \$40,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J PADUANO	DFRC/M J BRENNER	41-Aero Engr
E FERON		

NCC 3-256 Massachusetts Institute of Technology 5236
VISUAL 3 ENHANCEMENTS

<i>Period</i>	<i>Obligations</i>	
03/17/1992-11/14/1995	FY95: \$48,807	TOTAL: \$178,804
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R HAIMES	LERC/G J FOLLEN	29-Math/Cmputer,NEC

NCC 3-265 Massachusetts Institute of Technology 5237
MIT ENGINEERING INTERNSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
05/20/1992-06/13/1996	FY95: \$63,615	TOTAL: \$218,217
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L KERREBROCK	LERC/S A APP	41-Aero Engr

NCC 3-307 Massachusetts Institute of Technology 5238
LOBED MIXER EXPERIMENTS IN REACTING FLOWS

<i>Period</i>	<i>Obligations</i>	
05/05/1993-06/30/1995	FY95: \$23,169	TOTAL: \$177,029
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
I A WAITZ	LERC/C J MAREK	41-Aero Engr

NCC 3-414 Massachusetts Institute of Technology 5239
LOBED MIXER OPTIMIZATION FOR ADVANCED EJECTOR
GEOMETRICS

<i>Period</i>	<i>Obligations</i>	
05/09/1995-05/08/1996	FY95: \$102,000	TOTAL: \$102,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
I A WAITZ	LERC/J R DEBONIS	41-Aero Engr
E N GREITZER		
C S TAN		

NGL22-9640 Massachusetts Institute of Technology 5240
JOINT UNIVERSITY RESEARCH PROGRAM FOR AIR
TRANSPORTATION NEEDS \$94,000

<i>Period</i>	<i>Obligations</i>	
11/16/1971-01/31/1995	FY95:	TOTAL: \$1,885,990
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R W SIMPSON	LARC/F R MORRELL	41-Aero Engr

NGR22-9727 Massachusetts Institute of Technology 5241
STUDY IN NUMERICAL MODELLING OF ATMOSPHERIC
PHENOMENA

<i>Period</i>	<i>Obligations</i>	
02/01/1973-12/31/1993	FY95:	TOTAL: \$2,671,886
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P H STONE	GSFC/D DUFFY	31-Atmos Sci

NGT 00-010-010 Massachusetts Institute of Technology 5242
MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP P
ROGRAM

<i>Period</i>	<i>Obligations</i>	
10/18/1993-03/31/1994	FY95:	TOTAL: \$49,739
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E M MURMAN	HQ/G S SEIDEL	41-Aero Engr
	HQ/J R FACEY	

NGT 00-010-032 Massachusetts Institute of Technology 5243
SPACE ENGINEERING RESEARCH CENTER (SERC)

<i>Period</i>	<i>Obligations</i>	
12/16/1994-09/30/1997	FY95: \$232,870	TOTAL: \$232,870
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E F CRAWLEY	HQ/V BITTINGER	46-Mech Engr

NGT 00-030-109 Massachusetts Institute of Technology 5244
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/22/1992-08/31/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
N M MAHOWALD	HQ/G ASRAR	33-Oceanography
	HQ/D M BUTLER	

NGT 00-030-151 Massachusetts Institute of Technology 5245
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/22/1992-08/31/1995	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A M MACDONALD	HQ/G ASRAR	39-Env Sci, NEC
	HQ/R A SCHIFFER	

NGT 00-030-232 Massachusetts Institute of Technology 5246
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/05/1994-08/31/1996	FY95: \$44,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C CHRYSSTOMIAIS	HQ/F MULLER-KARGER	33-Oceanography
	HQ/G ASRAR	

NGT 00-030-251 Massachusetts Institute of Technology 5247
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/06/1994-08/31/1997	FY95: \$44,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R PLUMB	HQ/A C JANETOS	31-Atmos Sci
	HQ/G ASRAR	

NGT 00-030-284 Massachusetts Institute of Technology 5248
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/06/1994-08/31/1997	FY95: \$44,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E A BOYLE	HQ/R A SCHIFFER	33-Oceanography
	HQ/G ASRAR	

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NGT 00-030-309 Massachusetts Institute of Technology 5249
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/31/1995-08/31/1998	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C WUNSCH	HQ/G ASRAR	33-Oceanography
	HQ/M BALTUCK	

NGT 00-090-149 Massachusetts Institute of Technology 5258
 UNDERGRADUATE STUDENT RESEARCH PROGRAM/UMF

<i>Period</i>	<i>Obligations</i>	
11/13/1992-08/14/1995	FY95: \$12,000	TOTAL: \$36,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D WILSON	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-040-001 Massachusetts Institute of Technology 5250
 NATIONAL SPACE GRANT COLLEGE

<i>Period</i>	<i>Obligations</i>	
10/10/1989-01/31/1996	FY95: \$380,000	TOTAL: \$2,175,903
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L R YOUNGNGS	HQ/E T SCHWARTZ	99-Multi-Discip

NGT 00-090-208 Massachusetts Institute of Technology 5259
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/16/1993-08/14/1995	FY95: \$12,000	TOTAL: \$24,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J JACKSON	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-051-069 Massachusetts Institute of Technology 5251
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
05/19/1993-06/30/1996	FY95:	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J SZEKELY	HQ/B CARPENTER	47-Materials Engr

NGT 00-090-209 Massachusetts Institute of Technology 5260
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/16/1993-08/14/1995	FY95: \$12,000	TOTAL: \$24,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L OSGOOD	HQ/D K RUSSELL	42-Astro Engr

NGT 00-051-136 Massachusetts Institute of Technology 5252
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/22/1993-08/31/1994	FY95:	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P CEBE	HQ/D A HOLLAND	47-Materials Engr

NGT 00-090-210 Massachusetts Institute of Technology 5261
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/16/1993-08/14/1995	FY95: \$12,000	TOTAL: \$24,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J JACKSON	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-051-158 Massachusetts Institute of Technology 5253
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/23/1993-08/31/1996	FY95:	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D ENTEKHABI	HQ/G LESANE	44-Civil Engr

NGT 00-090-211 Massachusetts Institute of Technology 5262
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/14/1993-08/14/1995	FY95: \$12,000	TOTAL: \$24,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J JACKSON	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-051-228 Massachusetts Institute of Technology 5254
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
05/25/1994-06/30/1997	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D J NEWMAN	JSC/S GOLDSTEIN	41-Aero Engr

NGT 00-090-212 Massachusetts Institute of Technology 5263
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/16/1993-08/14/1995	FY95: \$12,000	TOTAL: \$24,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J JACKSON	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-051-330 Massachusetts Institute of Technology 5255
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/26/1994-12/21/1994	FY95:	TOTAL: \$0
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L MCKNIGHT	HQ/D HOLLAND	22-Computer Science

NGT 00-090-213 Massachusetts Institute of Technology 5264
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/16/1993-08/14/1995	FY95: \$12,000	TOTAL: \$24,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D WILSON	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-051-369 Massachusetts Institute of Technology 5256
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/06/1994-06/30/1996	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W H LEWIN	MSFC/F SIX	13-Physics

NGT 00-090-231 Massachusetts Institute of Technology 5265
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/16/1993-08/14/1995	FY95: \$12,000	TOTAL: \$24,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J JACKSON	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-051-407 Massachusetts Institute of Technology 5257
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/17/1995-08/31/1998	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L W MCKNIGHT	HQ/D HOLLAND	99-Multi-Discip

NGT 00-090-282 Massachusetts Institute of Technology 5266
 USGRP

<i>Period</i>	<i>Obligations</i>	
05/31/1995-08/14/1995	FY95: \$12,000	TOTAL: \$12,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L OSGOOD	HQ/D K RUSSELL	99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NGT 2-52206 Massachusetts Institute of Technology 5267
 VISUAL VESTIBULAR RESPONSE TO LINEAR ACCELERATION
Period *Obligations*
 09/14/1995-07/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C WALL ARC/D L TOMKO 56-Medical Sciences
 A ASSAD ARC/M M COHEN

NAGW 3577 Tufts University 5275
 IMAGE RESTORATION AND FUNDAMENTAL LIMITATIONS OF H ST
 WF/PC IMAGERY
Period *Obligations*
 05/05/1993-12/31/1993 FY95: TOTAL: \$45,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R A GONSALES HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NGT 3-52305 Massachusetts Institute of Technology 5268
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/31/1995-08/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M LERC/F M CURRAN 42-Astro Engr
 MARTINEZ-SANCHEZ

NAGW 4677 Tufts University 5276
 VERY LARGE ARRAY AND RATAN 600 OBSERVATIONS IN SUPPORT
 OF THE CORONAS-I MISSION
Period *Obligations*
 08/18/1995-05/31/1996 FY95: \$84,310 TOTAL: \$84,310
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K R LANG HQ/W J WAGNER 13-Physics
 HQ/J D BOHLIN

NGT 5-4 Massachusetts Institute of Technology 5269
 ACTUATORS FOR CONTROL OF MICRO-SATELLITES
Period *Obligations*
 06/22/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J L KERREBROCK GSFC/G A SOFFEN 42-Astro Engr
 GSFC/D R SKILLMAN

NCC 2-918 Tufts University 5277
 EDUCATION, TRAINING AND LIFELONG LEARNING IN AERONAU
 TICS
Period *Obligations*
 07/26/1995-10/31/1995 FY95: \$33,612 TOTAL: \$33,612
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C B ROGERS ARC/M J LEON 99-Multi-Discip
 ARC/W C LIKENS

NAGW 1792 Mt Holyoke College 5270
 SUMMER MATH PROGRAM FOR MINORITY GIRLS
Period *Obligations*
 06/30/1989-12/31/1995 FY95: \$117,543 TOTAL: \$536,177
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J MORROW HQ/B L WHITE 29-Math/Computer,NEC
 C MORROW HQ/L WARREN

NGT 00-050-943 Tufts University 5278
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/14/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A SAIGAL LERC/F MONTEGANI 46-Mech Engr

NAG 3-1129 Northeastern University 5271
 ANALYSIS AND NDE OF ADHESIVELY BONDED COMPOSITE JOIN
 TS
Period *Obligations*
 01/22/1990-09/30/1995 FY95: TOTAL: \$97,880
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H N HASEMI LERC/A VARY 47-Materials Engr
 J N ROSSETTOS LERC/H E KAUTZ

NAG 1-1261 University of Massachusetts 5281
 CALCULATIONS OF LINE WIDTHS AND LINE SHIFTS FOR CH4
 PERTURBED BY CH4 N2 AND O2
Period *Obligations*
 04/12/1991-09/30/1994 FY95: TOTAL: \$211,093
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R R GAMACHE LARC/J G WELLS 31-Atmos Sci
 LARC/J M RUSSELL

NAG 1-1523 Tufts University 5272
 INTERFACING THE IFA 750 WITH LABVIEW NLPN 93-519
Period *Obligations*
 06/28/1993-09/30/1993 FY95: TOTAL: \$8,075
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C ROGERS LARC/M J WALSH 41-Aero Engr

NAG 8-1055 University of Massachusetts 5282
 STRUMENT DEFINITION OF A RADIO SOUNDER FOR GLOBAL
 MAGNETOSPHERIC IMAGING
Period *Obligations*
 03/23/1994-02/01/1995 FY95: TOTAL: \$110,953
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B W REINISCH MSFC/C L JOHNSON 41-Aero Engr

NAG 1-1685 Tufts University 5273
 RUNNING A NEFF WITH A DESKTOP COMPUTER: IS IT POSS IBLE?
Period *Obligations*
 01/20/1995-09/19/1995 FY95: \$9,950 TOTAL: \$9,950
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C ROGERS LARC/J T KEGELMAN 41-Aero Engr

NAG 8-1145 University of Massachusetts 5283
 ALYZHEIMER'S DISEASE AMYLOID IN BICROGRAVITY
Period *Obligations*
 08/03/1995-08/02/1996 FY95: \$148,962 TOTAL: \$148,962
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D KIRSCHINGER MSFC/L KURR 59-Life Sci, NEC
 MSFC/D C CARTER

NAGW 2383 Tufts University 5274
 OBSERVATIONS OF SOLAR ACTIVITY AT RADIO WAVELENGTH S
 IN SUPPORT OF NASA BALLOON AND SATELLITE MISSIO
Period *Obligations*
 03/18/1991-10/31/1995 FY95: \$25,000 TOTAL: \$446,788
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K LANG HQ/W J WAGNER 13-Physics
 HQ/K LANG

NCC 2-5029 University of Massachusetts 5284
 THEORETICAL CALCULATIONS OF PRESSURE BROADENING CO
 EFFICIENTS FOR H2O PERTURBED BY HYDROGEN OR HELIU
Period *Obligations*
 02/03/1994-01/31/1995 FY95: TOTAL: \$20,882
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R R GAMACHE ARC/J B POLLACK 13-Physics

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NGT 00-051-217 University of Massachusetts 5285
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/19/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
G G GRINSTEIN SSC/A JOYCE 22-Computer Science

NAG 9-819 Univ of Massachusetts @ Worcester 5279
STEM CELL EXPANSION IN ROTATING BIOREACTORS
Period Obligations
08/17/1995-08/30/1996 FY95: \$166,000 TOTAL: \$166,000
Prin. Invest. NASA Tech. Officer CASE Category
P J QUESENBERY JSC/N PELLIS 56-Medical Sciences

NAG 9-820 Univ of Massachusetts @ Worcester 5280
INFLUENCE OF MICROGRAVITY CONDITIONS ON GENE TRANSFER INTO EXPANDED POPULATIONS
Period Obligations
08/17/1995-08/30/1996 FY95: \$205,000 TOTAL: \$205,000
Prin. Invest. NASA Tech. Officer CASE Category
F M STEWART JSC/N PELLIS 56-Medical Sciences

NAG 1-1022 University of Massachusetts - Amherst 5286
GROUND-BASED MILLIMETER-WAVE MEASUREMENT OF OZONE IN THE MIDDLE ATMOSPHERE
Period Obligations
06/19/1989-04/30/1996 FY95: \$182,542 TOTAL: \$715,663
Prin. Invest. NASA Tech. Officer CASE Category
A D PARRISH LARC/B J CONNOR 31-Atmos Sci

NAG 3-1458 University of Massachusetts - Amherst 5287
MODEL-BASED FAULT DIAGNOSIS OF HELICOPTER GEARBOXES
Period Obligations
04/01/1993-07/09/1996 FY95: \$61,728 TOTAL: \$182,255
Prin. Invest. NASA Tech. Officer CASE Category
K DANAI LERC/D G LEWICKI 46-Mech Engr
LERC/J J ZAKRAJSEK

NAG 5-1288 University of Massachusetts - Amherst 5288
INFRARED EMISSION ASSOCIATED WITH MOLECULAR CLOUDS
Period Obligations
08/31/1989-09/30/1993 FY95: TOTAL: \$96,215
Prin. Invest. NASA Tech. Officer CASE Category
R L SNELL GSFC/D WEST 11-Astronomy

NAG 5-1999 University of Massachusetts - Amherst 5289
DETERMINING THE LARGE SCALE STRUCTURE OF THE GALAXY
Period Obligations
07/01/1992-06/30/1994 FY95: TOTAL: \$70,900
Prin. Invest. NASA Tech. Officer CASE Category
M WEINBERG GSFC/D WEST 11-Astronomy

NAG 5-2713 University of Massachusetts - Amherst 5290
IRAS (HIRES) STUDIES OF HIGH MASS STAR FORMATION
Period Obligations
08/31/1994-09/14/1995 FY95: TOTAL: \$6,000
Prin. Invest. NASA Tech. Officer CASE Category
E F LADD GSFC/D WEST 11-Astronomy

NAG 5-2873 University of Massachusetts - Amherst 5291
EXCITATION AND EVOLUTION OF STRUCTURE IN GALAXIES
Period Obligations
01/23/1995-01/31/1996 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
M D WEINBERG GSFC/D WEST 11-Astronomy

NAG 5-3011 University of Massachusetts - Amherst 5292
DISCOVERY OF SUPERSOFT X-RAY SOURCES FROM ROSAT POINTED OBSERVATIONS
Period Obligations
07/19/1995-07/31/1996 FY95: \$45,000 TOTAL: \$45,000
Prin. Invest. NASA Tech. Officer CASE Category
S A RAPPAPORT GSFC/D WEST 11-Astronomy

NAG 5-3013 University of Massachusetts - Amherst 5293
AN INVESTIGATION OF THE COLD INTERSTELLAR MEDIUM OF THE OUTER GALAXY
Period Obligations
07/18/1995-07/31/1996 FY95: \$47,600 TOTAL: \$47,600
Prin. Invest. NASA Tech. Officer CASE Category
M H HEYER GSFC/D WEST 11-Astronomy

NAG 9-848 University of Massachusetts - Amherst 5294
GAS EXCHANGE AND DEVELOPMENT OF PLANTS IN REDUCED PRESSURE AND VARIED OXYGEN ATMOSPHERES
Period Obligations
09/25/1995-05/31/1996 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
K A COVEY JSC/D G SICKOREZ 32-Geological Sci

NAGW 436 University of Massachusetts - Amherst 5295
BOUNDARY CONDITIONS FOR THE PALEOENVIRONMENT: CHEMICAL AND PHYSICAL PROCESSES IN THE PRE-SOLAR NEBULA
Period Obligations
02/15/1983-10/14/1995 FY95: \$71,939 TOTAL: \$705,093
Prin. Invest. NASA Tech. Officer CASE Category
W M IRVINE HQ/J D RUMMEL 32-Geological Sci
F P SCHLOERB HQ/M AVERNER

NAGW 1112 University of Massachusetts - Amherst 5296
MICROWAVE REMOTE SENSING OF OCEANIC PROCESSES
Period Obligations
06/01/1987-11/30/1994 FY95: TOTAL: \$1,337,998
Prin. Invest. NASA Tech. Officer CASE Category
R E MCINTOSH HQ/G S LAGERLOEF 33-Oceanography
HQ/W S WILSON

NAGW 1417 University of Massachusetts - Amherst 5297
THE EVOLUTION OF YOUNG STELLAR OBJECT DISKS THEIR ENVIRONMENT
Period Obligations
09/22/1988-04/30/1995 FY95: TOTAL: \$201,486
Prin. Invest. NASA Tech. Officer CASE Category
S E STROM HQ/J H RAHE 11-Astronomy

NAGW 1483 University of Massachusetts - Amherst 5298
STUDIES IN RADIATIVE TRANSFER
Period Obligations
11/02/1988-12/31/1995 FY95: \$77,133 TOTAL: \$477,184
Prin. Invest. NASA Tech. Officer CASE Category
F P SCHLOERB HQ/J H RAHE 11-Astronomy

NAGW 1935 University of Massachusetts - Amherst 5299
STUDY PHASE FOR A NEW 2 MICRON SKY SURVEY
Period Obligations
02/06/1990-06/30/1995 FY95: TOTAL: \$1,786,348
Prin. Invest. NASA Tech. Officer CASE Category
M SKRUTSKIE HQ/G S LEVY 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAGW 1965 University of Massachusetts - Amherst 5300
 NAGW-1965/UNIV OF MASSACHUSETTS/PLANETARY TECTONIC S,
 AREAL GEOLOGY, AND GEOLOGICAL HISTORY

<i>Period</i>	<i>Obligations</i>	
01/24/1990-01/31/1996	FY95: \$35,300	TOTAL: \$239,528
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G E MCGILL	HQ/T A MAXWELL	32-Geological Sci

NAG10-91 University of Massachusetts - Amherst 5308
 MONITORING ETHYLENE AND AMMONIA GAS EMISSIONS FROM
 PLANTS CULTURED FOR A CELSS

<i>Period</i>	<i>Obligations</i>	
08/19/1991-03/28/1995	FY95:	TOTAL: \$124,896
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K A COREY	KSC/W M KNOTT	43-Chem Engr

NAGW 1989 University of Massachusetts - Amherst 5301
 MICROBIAL CONTRIBUTIONS TO THE PRECAMBRIAN EARTH

<i>Period</i>	<i>Obligations</i>	
04/27/1990-12/31/1995	FY95: \$80,000	TOTAL: \$519,401
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L MARGOLIS	HQ/J D RUMMELT	51-Biological Sci

NAS 5-31757 University of Massachusetts - Amherst 5309
 DEVELOPMENT OF SYNTHETIC APERTURE RADIOMETER

<i>Period</i>	<i>Obligations</i>	
12/16/1992-02/07/1996	FY95: \$70,343	TOTAL: \$295,956
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C SWIFT	GSFC/D LEVINE	46-Mech Engr

NAGW 2430 University of Massachusetts - Amherst 5302
 DEVELOPMENT OF A 1036 HETERODYNE RECEIVER FOR ASTR
 OPHYSICAL APPLICATIONS

<i>Period</i>	<i>Obligations</i>	
07/31/1991-03/31/1994	FY95:	TOTAL: \$150,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
N ERICKSON	HQ/M BICAY	13-Physics

NCCW 67 University of Massachusetts - Amherst 5310
 A 2 MICRON ALL SKY SURVEY

<i>Period</i>	<i>Obligations</i>	
02/07/1995-09/30/1995	FY95: \$1,274,000	TOTAL: \$1,274,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M SKRUTSKIE	HQ/L LAPIANA	11-Astronomy

NAGW 3532 University of Massachusetts - Amherst 5303
 STRUCTURAL EVOLUTION OF VENUSIAN PLAINS

<i>Period</i>	<i>Obligations</i>	
04/22/1993-02/28/1995	FY95:	TOTAL: \$134,664
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G E MCGILL	HQ/J T BERGSTRALH	32-Geological Sci

NGT 00-030-149 University of Massachusetts - Amherst 5311
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/30/1992-08/31/1995	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J D ISHAM	HQ/G ASRAR	39-Env Sci, NEC
	HQ/D M BUTLER	

NAGW 3685 University of Massachusetts - Amherst 5304
 RADAR ALTIMETRY STUDIES OVER THE GREENLAND ICE SHE ET:
 EXPERIMENT AND ANALYSIS

<i>Period</i>	<i>Obligations</i>	
07/16/1993-05/31/1996	FY95: \$189,003	TOTAL: \$274,154
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C T SWIFT	HQ/R H THOMAS	31-Atmos Sci

NGT 00-050-828 University of Massachusetts - Amherst 5312
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/25/1991-06/30/1994	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K M LAU	HQ/F C OWENS	45-Elec Engr

NAGW 3809 University of Massachusetts - Amherst 5305
 THE RADIAL DISTRIBUTION OF INFRARED LUMINOSITY IN LARGE
 SPIRAL GALAXIES

<i>Period</i>	<i>Obligations</i>	
12/17/1993-08/31/1995	FY95: \$27,254	TOTAL: \$53,881
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J YOUNG	HQ/G R RIEGLER	11-Astronomy

NGT 00-051-277 University of Massachusetts - Amherst 5313
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/14/1994-06/30/1997	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R E MCINTOSH	JPL/C HIX	45-Elec Engr

NAGW 4263 University of Massachusetts - Amherst 5306
 COMPARISON OF SEAFLOOR AND VENUSIAN PANCAKE DOMES

<i>Period</i>	<i>Obligations</i>	
01/25/1995-10/31/1995	FY95: \$35,000	TOTAL: \$35,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G MCGILL	HQ/H BRINTON	32-Geological Sci

NGT 00-051-282 University of Massachusetts - Amherst 5314
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/26/1994-08/31/1997	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K A COREY	HQ/G LESANE	55-Agriculture Sci

NAGW 4514 University of Massachusetts - Amherst 5307
 SHOCK AND THERMAL HISTORY OF IRON AND CHONDRITIC M
 ETEORITES

<i>Period</i>	<i>Obligations</i>	
07/12/1995-06/30/1998	FY95: \$148,631	TOTAL: \$148,631
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J GOLDSTEIN	HQ/D NAVA	42-Astro Engr

NGT 00-070-234 University of Massachusetts - Amherst 5315
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/05/1991-06/30/1994	FY95:	TOTAL: \$88,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K M LAU	HQ/F C OWENS	45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NGT 00-070-358 University of Massachusetts - Amherst 5316
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 08/31/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W B CROFT HQ/D K RUSSELL 22-Computer Science

NAG 2-814 Wellesley College 5317
 EARTH-BASED RING OCCULTATION
Period *Obligations*
 12/01/1992-06/30/1996 FY95: \$23,674 TOTAL: \$45,674
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R G FRENCH ARC/J N CUZZI 11-Astronomy

NAGW 1368 Wellesley College 5318
 DYNAMICS AND STRUCTURE OF PLANETARY RINGS
Period *Obligations*
 07/11/1988-09/30/1995 FY95: \$48,800 TOTAL: \$326,100
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R G FRENCH HQ/J UNDERWOOD 32-Geological Sci
 HQ/J M BOYCE

NAGW 2511 Wellesley College 5319
 OCCULTATION STUDIES OF NEPTUNE'S RINGS AND ATMOSPHERE
Period *Obligations*
 05/07/1991-06/30/1995 FY95: TOTAL: \$99,721
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P G FRENCH HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 3607 Wellesley College 5320
 ANALYSIS OF VOYAGER OCCULTATION MEASUREMENTS OF THE
 ATMOSPHERES OF TITAN AND TRITON
Period *Obligations*
 05/21/1993-12/31/1995 FY95: TOTAL: \$34,866
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G STARK HQ/J T BERGSTRALH 19-Phys Sci, NEC

NAG 5-2884 Woods Hole Oceanographic Institution 5321
 EOSDIS CORE SYSTEM USABILITY TEST
Period *Obligations*
 02/08/1995-02/14/1996 FY95: \$130,954 TOTAL: \$130,954
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D M GLOVER GSFC/K R MCDONALD 33-Oceanography

NAGW 1666 Woods Hole Oceanographic Institution 5322
 GULF STREAM UPPER OCEAN STUDIES
Period *Obligations*
 02/23/1989-08/30/1995 FY95: TOTAL: \$536,544
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K A KELLY HQ/G S LAGERLOEF 33-Oceanography
 T M JOYCE HQ/W S WILSON

NAGW 2431 Woods Hole Oceanographic Institution 5323
 BIOGEOCHEMICAL FLUXES AT THE OCEAN/ATMOSPHERE INTERFACE
Period *Obligations*
 04/25/1991-12/31/1995 FY95: \$783,000 TOTAL: \$4,089,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P G BREWER HQ/B MITCHELL 33-Oceanography

NAGW 3648 Woods Hole Oceanographic Institution 5324
 A COUPLED BIOLOGICAL-PHYSICAL MODEL FOR STUDYING ANNUAL
 AND INTER-ANNUAL VARIABILITY IN SEAWIFS
Period *Obligations*
 07/14/1993-05/31/1996 FY95: \$109,334 TOTAL: \$234,099
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D M GLOVER HQ/R MURPHY 33-Oceanography

NAGW 4331 Woods Hole Oceanographic Institution 5325
 DEVELOPMENT OF A GENERAL CIRCULATION MODEL FOR OCEANIC
 FORECASTING AND CLIMATE STUDY
Period *Obligations*
 03/04/1995-11/30/1996 FY95: \$95,000 TOTAL: \$95,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R XIN HUANG HQ/R A SCHIFFER 33-Oceanography

NAGW 4709 Woods Hole Oceanographic Institution 5326
 UPWELLING-INDUCED PRIMARY PRODUCTIVITY IN COASTAL
 WATERS OF THE BLACK SEA
Period *Obligations*
 09/16/1995-07/31/1998 FY95: \$340,000 TOTAL: \$340,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J C GOLDMAN HQ/M BALTUCK 13-Physics
 K H BRINK
 G C GAWARKIEWICZ

NAGW 4720 Woods Hole Oceanographic Institution 5327
 SEARCHING FOR NATURAL MASS FRACTIONATION OF MOLYBDENUM
 ISOTOPES
Period *Obligations*
 08/24/1995-08/31/1997 FY95: \$70,000 TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G E RAVIZZA HQ/D A HOLLAND 12-Chemistry
 HQ/J H BREDEKAMP

NAG 1-1476 Worcester Polytechnic Institute 5328
 ENGINEERING DESIGN OF SUB-MICRON TOPOGRAPHICS FOR
 SIMULTANEOUSLY ADHERENT AND REFLECTIVE METAL-POLYMER
 COATINGS
Period *Obligations*
 01/15/1993-01/12/1994 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A BROWN LARC/D M STOKLEY 46-Mech Engr
 LARC/A K ST. CLAIR

NAG 1-1606 Worcester Polytechnic Institute 5329
 ANALYSIS OF RUNWAY SURFACE TOPOGRAPHIES FOR
 CONCURRENT ENGINEERING DESIGN
Period *Obligations*
 02/22/1994-02/21/1996 FY95: \$56,210 TOTAL: \$133,210
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A BROWN LARC/J A TANNER 46-Mech Engr

NAGW 4257 Worcester Polytechnic Institute 5330
 ADVANCED DESIGN PROGRAM
Period *Obligations*
 01/13/1995-12/31/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D OLINGER HQ/A S MCGEE 49-Engr, NEC
 HQ/G SEIDEL

NAGW 4290 Worcester Polytechnic Institute 5331
 ADVANCED DESIGN PROGRAM
Period *Obligations*
 02/06/1995-09/30/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H JOHARI HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

**NASA'S UNIVERSITY PROGRAM
MASSACHUSETTS (Continued)**

NAS 8-40222 Worcester Polytechnic Institute 5332
USML 2 PAYLOAD SPECIALIST
Period *Obligations*
07/06/1994-03/21/1996 FY95: \$250,000 TOTAL: \$425,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A SACCO MSFC/P GILBERT 19-Phys Sci, NEC

NAS 8-40260 Worcester Polytechnic Institute 5333
ZEOLITE CRYSTAL GROWHT
Period *Obligations*
12/15/1994-09/30/1996 FY95: \$950,000 TOTAL: \$950,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A SACCOJR. MSFC/M NALL 19-Phys Sci, NEC

NGT 00-050-827 Worcester Polytechnic Institute 5334
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/16/1993-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D SISSON HQ/F C OWENS 47-Materials Engr

NGT 00-051-107 Worcester Polytechnic Institute 5335
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
05/28/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C A BROWN LARC/E PRIOR 46-Mech Engr

MICHIGAN

NAG 8-999 Alma College 5336
JOVE
Period *Obligations*
11/01/1993-05/31/1996 FY95: \$44,000 TOTAL: \$75,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J E DAVIS MSFC/F SIX 19-Phys Sci, NEC
STRAIT

NAGW 3208 Delta College 5337
NAGW-3208/DELTA COLLEGE/DELTA COLLEGE SCIENCE LEARNING CENTER
Period *Obligations*
09/17/1992-05/31/1997 FY95: \$6,825,000 TOTAL: \$8,750,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H ARMAN HQ/M PHELPS 99-Multi-Discip

NAGW 3073 Eastern Michigan University 5338
TEACHER TRAINING PRE-SERVICE PILOT PROGRAM
Period *Obligations*
05/29/1992-12/31/1995 FY95: \$10,013 TOTAL: \$92,421
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J BARNES HQ/D GALLAWAY 99-Multi-Discip

NAG 8-226 Grand Valley State University 5339
JOVE
Period *Obligations*
02/25/1992-08/24/1996 FY95: TOTAL: \$136,782
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W A CHREN MSFC/F SIX 59-Life Sci, NEC
K C COLE
R A REYNOLDS

NAG 1-1480 Hope College 5340
BUILDING A SOFTWARE INFRASTRUCTURE FOR PARALLEL SOFTWARE DESIGN NLPN 92-910
Period *Obligations*
02/23/1993-06/30/1996 FY95: \$32,675 TOTAL: \$83,634
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J JIPPING LARC/D E ECKHARDT 22-Computer Science

NAG 8-263 Hope College 5341
JOVE
Period *Obligations*
11/09/1992-09/01/1996 FY95: \$1,150 TOTAL: \$85,488
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P L GONTHIER MSFC/F SIX 13-Physics
M J JIPPING

NAG 1-1106 Michigan State University 5342
LIPA MEASUREMENTS OF HIGH REYNOLDS NUMBER CYLINDER FLOW
Period *Obligations*
03/02/1990-09/30/1993 FY95: TOTAL: \$70,001
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E FALCO LARC/L M WEINSTEIN 41-Aero Engr
C GENDRICH LARC/J B ANDERS

NAG 1-1591 Michigan State University 5343
A DISCRETE-LAYER FINITE ELEMENT MODEL FOR STATIC A ND DYNAMIC PROGRESSIVE FAILURE ANALYSIS OF LARGE
Period *Obligations*
01/31/1994-01/27/1996 FY95: \$58,629 TOTAL: \$92,398
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R C AVERILL LARC/A TESSLER 46-Mech Engr

NAG 3-1271 Michigan State University 5344
AN EXPERIMENTAL THEORETICAL STUDY OF RADIATIVE EXT INCTION OF DIFFUSION FLAMES
Period *Obligations*
04/15/1991-03/24/1996 FY95: TOTAL: \$230,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A ATREYA LERC/K R SACKSTEDER 49-Engr, NEC
I S WICHMAN

NAG 3-1304 Michigan State University 5345
INVESTIGATION ON THE USE OF DIGITAL SIGNAL PROCESS ING FOR PHASE STEPPING INTERFEROMETRY
Period *Obligations*
11/05/1991-03/17/1995 FY95: \$17,000 TOTAL: \$121,595
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H J SCHOCK LERC/C R MERCER 45-Elec Engr
LERC/D J LESCO

NAG 3-1459 Michigan State University 5346
TIME RESOLVED MEASUREMENTS OF THE STREAMWISE VORTI VITY IN THE MIXING LAYER FROM A TABBED NOZZLE
Period *Obligations*
02/22/1993-03/01/1996 FY95: \$30,000 TOTAL: \$105,047
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J F FOSS LERC/K Q ZAMAN 46-Mech Engr

NAG 3-1626 Michigan State University 5347
STUDIES OF WIND-AIDED FLAME SPREAD OVER THEN CELLU LOSIC FUELS IN MICROGRAVITY
Period *Obligations*
06/22/1994-06/21/1996 FY95: \$63,000 TOTAL: \$123,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I S WICHMAN LERC/H D ROSS 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NAG 3-1749 Michigan State University 5348
 IMAGE TILING FOR HIGH RESOLUTION SOLID SURFACE PRO
 FILING
Period Obligations
 05/26/1995-05/26/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 A K JAIN LERC/C R MERCER 22-Computer Science

NGT 00-050-791 Michigan State University 5356
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/28/1991-12/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 K L POFF HQ/F C OWENS 55-Agriculture Sci

NAG 3-1779 Michigan State University 5349
 EVALUATION OF IMAGING SYSTEM FOR PROFILING OBJECT W HOS
 SIZE IS LARGER THAN THE FIELD VIEW IMAGING SY
Period Obligations
 08/14/1995-12/01/1995 FY95: \$17,000 TOTAL: \$17,000
Prin. Invest. NASA Tech. Officer CASE Category
 H J SCHUCK LERC/C R MERCER 49-Engr, NEC

NGT 00-070-316 Michigan State University 5357
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 06/29/1993-06/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 M KEMP HQ/D K RUSSELL 99-Multi-Discip
 M CRIMP

NAG 5-2434 Michigan State University 5350
 X-RAY BIMODALITY IN A2151
Period Obligations
 11/16/1993-05/31/1995 FY95: TOTAL: \$18,000
Prin. Invest. NASA Tech. Officer CASE Category
 T C BEERS GSFC/R PETRE 11-Astronomy

NGT 00-070-376 Michigan State University 5358
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/23/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 B H CHENG HQ/D K RUSSELL 22-Computer Science

NAG 5-2489 Michigan State University 5351
 STELLAR/SOLAR CONVECTION SIMULATIONS
Period Obligations
 02/04/1994-02/14/1996 FY95: \$29,964 TOTAL: \$59,946
Prin. Invest. NASA Tech. Officer CASE Category
 R F STEIN GSFC/J R FISCHER 22-Computer Science

NAG 2-820 Michigan Technological University 5359
 DEVELOPMENT OF A RATIONAL MODELING APPROACH FOR TH E
 DESIGN, AND OPTIMIZATION OF THE MULTIFILTRATION..
Period Obligations
 12/15/1992-12/31/1995 FY95: \$84,912 TOTAL: \$242,447
Prin. Invest. NASA Tech. Officer CASE Category
 D W HAND ARC/J E FINN 43-Chem Engr
 J C CRITTENDEN ARC/E L FORCE

NAG 5-2621 Michigan State University 5352
 COORDINATED HST - EUVE OBSERVATIONS OF YZ CMI
Period Obligations
 07/01/1994-06/30/1995 FY95: TOTAL: \$7,461
Prin. Invest. NASA Tech. Officer CASE Category
 S L HAWLEY GSFC/R J OLIVERSEN 11-Astronomy

NAG 3-1109 Michigan Technological University 5360
 NUMERICAL STUDY OF DILUTION JET MIXING OF COMBUSTO RS
Period Obligations
 12/21/1989-12/19/1994 FY95: TOTAL: \$366,000
Prin. Invest. NASA Tech. Officer CASE Category
 S L YANG LERC/H L NGUYEN 13-Physics

NAGW 1695 Michigan State University 5353
 SOLAR CONVECTOR DYNAMICS AND OSCILLATIONS
Period Obligations
 02/27/1989-11/30/1995 FY95: \$49,000 TOTAL: \$289,186
Prin. Invest. NASA Tech. Officer CASE Category
 R F STEIN HQ/J D BOHLIN 13-Physics
 HQ/S KANE

NAG 3-1462 Michigan Technological University 5361
 THERMOSOLUTAL CONVECTION AND PARTICULATE TRANSPORT D
 URING ALLOY SOLIDIFICATION
Period Obligations
 03/04/1993-02/28/1994 FY95: TOTAL: \$50,760
Prin. Invest. NASA Tech. Officer CASE Category
 A HELLAWELL LERC/A CHAIT 47-Materials Engr

NCC 1-175 Michigan State University 5354
 DEVELOPING A DYNAMIC MODEL AND SIMULATION PROGRAM FOR
 THE ADVANCED AEROELASTIC ROTOR EXPERIMENT SYS
Period Obligations
 03/31/1993-05/31/1995 FY95: TOTAL: \$118,979
Prin. Invest. NASA Tech. Officer CASE Category
 P M FITZSIMONS LARC/P H MIRICK 41-Aero Engr
 LARC/W T YEAGER

NAG 3-1659 Michigan Technological University 5362
 THERMAL-SOLUTAL CONVECTION AND PARTICULATE TRANSPORT
 DURING ALLOY SOLIDIFICATION
Period Obligations
 08/01/1994-07/31/1996 FY95: \$53,814 TOTAL: \$106,080
Prin. Invest. NASA Tech. Officer CASE Category
 A HELLAWELL LERC/T GLASGOW 47-Materials Engr

NCC 7-2 Michigan State University 5355
 BUILDING COMMUNICATIONS NETWORK
Period Obligations
 09/02/1994-09/02/1997 FY95: \$2,196,000 TOTAL: \$2,196,000
Prin. Invest. NASA Tech. Officer CASE Category
 M MOCH NMO/A HUSAIN 22-Computer Science
 N ALTIERO

NAG 5-1838 Michigan Technological University 5363
 GROUND TRUTH SPECTROMETRY AND IMAGERY OF ERUPTION
 CLOUDS TO MAXIMIZE UTILITY OF SATELLITE IMAGERY
Period Obligations
 11/26/1991-11/30/1994 FY95: TOTAL: \$208,000
Prin. Invest. NASA Tech. Officer CASE Category
 W I ROSE GSFC/L S WALTER 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NAG 5-2324 Michigan Technological University 5364
COMPARISON OF AVHRR AND TOMS IMAGERY OF VOLCANIC CLOUDS
Period *Obligations*
07/14/1993-07/31/1996 FY95: \$31,189 TOTAL: \$92,917
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W I ROSE GSFCA/J KRUEGER 31-Atmos Sci

NAGW 3390 Michigan Technological University 5365
MODELING OF COLLISION INDUCED ABSORPTION SPECTRA OF CO₂-CO₂ PAIRS FOR PLANETARY ATMOSPHERE OF VENUS
Period *Obligations*
03/09/1993-03/31/1995 FY95: TOTAL: \$81,627
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A BORYSOW HQ/J BERGSTRALH 31-Atmos Sci

NAGW 4088 Michigan Technological University 5366
CONTRIBUTION OF VOLCANIC ACTIVITY TO THE SULFUR DIOXIDE BUDGET
Period *Obligations*
07/28/1994-05/31/1995 FY95: TOTAL: \$62,247
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G BLUTH HQ/M BALTUCK 31-Atmos Sci

NAGW 4566 Michigan Technological University 5367
MODELING OF COLLISION INDUCED ABSORPTION SPECTRA OF CO₂-CO₂ PAIRS FOR PLANETARY ATMOSPHERE OF VENUUS
Period *Obligations*
06/02/1995-04/30/1996 FY95: \$39,947 TOTAL: \$39,947
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A BORYSOW HQ/J BERGSTRALH 99-Multi-Discip

NCC 1-145 Michigan Technological University 5368
ACOUSTIC PROPAGATION IN FORESTED AREAS
Period *Obligations*
09/17/1990-06/30/1995 FY95: TOTAL: \$74,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J C ROGERS LARC/A W MUELLER 13-Physics
F J PELON LARC/D R HOAD

NCC 3-406 Michigan Technological University 5369
NUMERICAL SIMULATION FOR LOW EMISSIONS COMBUSTORS USING KIVA CODE (PHASE V1)
Period *Obligations*
02/10/1995-02/09/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S L YANG LERC/K P KUNDU 41-Aero Engr

NGT 00-030-128 Michigan Technological University 5370
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
11/02/1992-02/28/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A N PILANT HQ/G ASRAR 39-Env Sci, NEC
HQ/D M BUTLER

NGT 00-030-174 Michigan Technological University 5371
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
08/27/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W I ROSE HQ/G ASRAR 32-Geological Sci
HQ/D M BUTLER

NGT 00-030-275 Michigan Technological University 5372
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/02/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E HONRATH HQ/A C JANETOS 31-Atmos Sci
HQ/G ASRAR

NGT 00-051-024 Michigan Technological University 5373
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/14/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W C KERFOOT ARC/M MOORE 51-Biological Sci

NAG 1-869 University of Michigan - Ann Arbor 5374
AN ADAPTIVE MULTI-GRID CODE FOR FLUID DYNAMICS BASED ON GENUINELY MULTI-DIMENSIONAL CONCEPTS
Period *Obligations*
03/25/1988-11/30/1995 FY95: \$47,835 TOTAL: \$525,353
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B VAN LEER LARC/J L THOMAS 21-Mathematics
K POWELL LARC/J C SOUTH JR.

NAG 1-1220 University of Michigan - Ann Arbor 5375
STUDY OF DESIGN FOR VALIDATION IN DISTRIBUTED FAULT-TOLERANT SYSTEMS
Period *Obligations*
02/14/1991-08/31/1996 FY95: TOTAL: \$446,709
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K G SHIN LARC/A L WHITE 22-Computer Science

NAG 1-1290 University of Michigan - Ann Arbor 5376
ANALYSIS OF UNSTEADY FLOW IN A SCRAMJET
Period *Obligations*
06/26/1991-08/31/1995 FY95: TOTAL: \$168,785
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T C ADAMSON LARC/R W GUY 41-Aero Engr
W H WOODRUFF LARC/G Y ANDERSON

NAG 1-1315 University of Michigan - Ann Arbor 5377
CORRELATIVE MEASUREMENT SUPPORT OF THE UPPER ATMOSPHERE RESEARCH SATELLITE (UARS)
Period *Obligations*
07/17/1991-01/14/1996 FY95: TOTAL: \$345,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T L KILLEEN LARC/J G WELLS 31-Atmos Sci
F G MCCORMAC
R M JOHNSON

NAG 1-1317 University of Michigan - Ann Arbor 5378
SUPERPLASTIC FORMABILITY OF PARTICULATE REINFORCED AL-LI ALLOY D
Period *Obligations*
07/12/1991-09/30/1994 FY95: TOTAL: \$106,832
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A GHOSH LARC/W D BREWER 47-Materials Engr
LARC/D M ROYSTER

NAG 1-1331 University of Michigan - Ann Arbor 5379
HIGH RESOLUTION DOPPLER LIDAR MEASUREMENTS - FDP
Period *Obligations*
09/24/1991-02/29/1996 FY95: \$74,981 TOTAL: \$300,303
Prin. Invest. *NASA Tech. Officer* *CASE Category*
V J ABREU LARC/G L MADDREA 13-Physics
P B MAYS LARC/L R POOLE
A K SMITH

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NAG 1-1410 University of Michigan - Ann Arbor 5380
ELECTROREHEOLOGY FOR SMART LANDING GEAR - FDP
INCREMENTALLY FUNDED THROUGH DECEMBER 31, 1992

<i>Period</i>	<i>Obligations</i>	
03/20/1992-10/31/1995	FY95:	TOTAL: \$107,153
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R D ERVIN	LARC/W E HOWELL	46-Mech Engr
Z LOU	LARC/R H DAUGHERTY	
F E FILISKO		

NAG 1-1755 University of Michigan - Ann Arbor 5387
THE MODELING AND EVALUATION OF THRUST LOSSES AND
PERFORMANCE OF HIGH-SPEED AEROSPACE ENGINES

<i>Period</i>	<i>Obligations</i>	
09/20/1995-02/28/1997	FY95: \$257,993	TOTAL: \$257,993
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D A CARROLL	LARC/J M HOELLJR	31-Atmos Sci
D ALBER	LARC/R J BENDURA	

NAG 1-1465 University of Michigan - Ann Arbor 5381
GLOBAL TROPOSPHERIC EXPERIMENT AT THE HONG KONG
ATMOSPHERIC CHEMISTRY MEASUREMENT STATION

<i>Period</i>	<i>Obligations</i>	
12/07/1992-12/31/1995	FY95: \$34,912	TOTAL: \$96,197
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M A CARROLL	LARC/J M HOELL	31-Atmos Sci
	LARC/R J BENDURA	

NAG 2-866 University of Michigan - Ann Arbor 5388
DEVELOPMENT AND PARALLELIZATION OF THE FINITE ELEMEN T
METHOD WITH MIXED TERMINATION SCHEMES

<i>Period</i>	<i>Obligations</i>	
08/11/1993-12/31/1994	FY95:	TOTAL: \$150,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L VOLAKIS	ARC/A C WOO	45-Elec Engr
	ARC/M J SCHUH	

NAG 1-1478 University of Michigan - Ann Arbor 5382
ANALYSIS OF CONFORMAL ANTENNAS IN COMPOSITE SURFACES
NLPN 92-1107

<i>Period</i>	<i>Obligations</i>	
02/05/1993-08/04/1996	FY95: \$38,000	TOTAL: \$163,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L VOLAKIS	LARC/F B BECK	45-Elec Engr

NAG 2-879 University of Michigan - Ann Arbor 5389
DATA ARCHIVE FOR NOX AND NOY FROM OBSERVATIONS AND
CON STRUCTION AND TESTING OF AIRBORNE INSTRUMENT FOR
..

<i>Period</i>	<i>Obligations</i>	
01/10/1994-12/31/1995	FY95: \$54,973	TOTAL: \$144,973
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M A CARROLL	ARC/E CONDON	31-Atmos Sci
	ARC/A MARGOZZI	

NAG 1-1493 University of Michigan - Ann Arbor 5383
DEVELOPMENT AND OPERATION OF A SOFTWARE FAULT
INJECTOR

<i>Period</i>	<i>Obligations</i>	
04/30/1993-10/31/1995	FY95:	TOTAL: \$93,986
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K G SHIN	LARC/A L WHITE	22-Computer Science

NAG 3-988 University of Michigan - Ann Arbor 5390
STUDIES ON HIGH-PERFORMANCE ELECTRONIC DEVICES AT
CRYOGENIC TEMPERATURES (77K)

<i>Period</i>	<i>Obligations</i>	
02/01/1989-06/15/1995	FY95:	TOTAL: \$473,915
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P K BHATTACHARGA	LERC/S A ALTEROVITZ	45-Elec Engr

NAG 1-1514 University of Michigan - Ann Arbor 5384
PROPOSAL FOR RESEARCH INTO COMPUTATIONAL ACOUSTICS
NLPN 93-425

<i>Period</i>	<i>Obligations</i>	
05/28/1993-05/31/1994	FY95:	TOTAL: \$94,140
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P L ROE	LARC/K S BRENTNER	41-Aero Engr

NAG 3-1133 University of Michigan - Ann Arbor 5391
DROPLET EVAPORATION UNDER MICROGRAVITY

<i>Period</i>	<i>Obligations</i>	
01/31/1990-06/23/1996	FY95: \$65,022	TOTAL: \$275,662
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
V S ARPACI	LERC/A T CHAI	19-Phys Sci, NEC

NAG 1-1544 University of Michigan - Ann Arbor 5385
A FOUR CHANNEL NO/O3 CHEMILUMINESCENCE INSTRUMENT FOR
SIMULTANEOUS AIRBORNE MEASUREMENTS OF NITRIC

<i>Period</i>	<i>Obligations</i>	
09/28/1993-09/27/1996	FY95: \$238,876	TOTAL: \$835,627
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M A CARROLL	LARC/G L GREGORY	31-Atmos Sci
	LARC/J M HOELL JR.	

NAG 3-1245 University of Michigan - Ann Arbor 5392
THE INVESTIGATION OF LAMINAR JET DIFFUSION FLAMES

<i>Period</i>	<i>Obligations</i>	
03/01/1991-04/24/1996	FY95: \$175,401	TOTAL: \$753,576
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G M FAETH	LERC/D STOCKER	49-Engr, NEC

NAG 1-1720 University of Michigan - Ann Arbor 5386
COMPARISON OF DOUBLE ETALON VS. MULTIPLEXING
FABRY-PEROT INTERFEROMETERS FOR DETERMINING TOTAL

<i>Period</i>	<i>Obligations</i>	
05/08/1995-01/07/1996	FY95: \$106,558	TOTAL: \$106,558
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W B COOK	LARC/A M LARAR	31-Atmos Sci
P B HAYS		

NAG 3-1310 University of Michigan - Ann Arbor 5393
A PRELIMINARY STUDY TO FORCED CONVECTION BOILING I N
MICROGRAVITY

<i>Period</i>	<i>Obligations</i>	
12/05/1991-01/31/1996	FY95: \$65,788	TOTAL: \$221,135
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H MERTE	LERC/J A PLATT	46-Mech Engr
	LERC/R W VERNON	

NAG 3-1317 University of Michigan - Ann Arbor 5394
COMPUTATIONAL STUDIES OF DROP COLLISION AND COALESCE
NCE

<i>Period</i>	<i>Obligations</i>	
01/24/1992-06/12/1996	FY95: \$59,000	TOTAL: \$253,090
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G TRYGGVASON	LERC/D A JACQMIN	46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NAG 3-1460 University of Michigan - Ann Arbor 5395
AN EXPERIMENTAL AND THEORETICAL STUDY OF RADIATIVE EXTINCTION OF DIFFUSION FLAMES
Period *Obligations*
02/18/1993-11/21/1995 FY95: TOTAL: \$120,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A ATREYA LERC/K R SACKSTEDER 49-Engr, NEC

NAG 3-1504 University of Michigan - Ann Arbor 5396
A PRELIMINARY INVESTIGATION OF HALL THRUSTER TECHNOLOGY
Period *Obligations*
06/10/1993-07/18/1996 FY95: \$32,329 TOTAL: \$107,783
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A D GALLIMORE LERC/F M CURREN 11-Astronomy

NAG 3-1572 University of Michigan - Ann Arbor 5397
USED FOR MODERN COMPUTATIONAL TOOLS TO MODEL THE THERMAL CHARACTERISTICS OF A 30-CM
Period *Obligations*
02/16/1994-12/15/1995 FY95: \$24,114 TOTAL: \$44,135
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A D GALLIMORE LERC/J S SOVEY 49-Engr, NEC
LERC/T W HAAG

NAG 3-1639 University of Michigan - Ann Arbor 5398
FLAME-VORTEX INTERACTIONS IMAGED IN MICROGRAVITY
Period *Obligations*
06/30/1994-06/29/1995 FY95: TOTAL: \$135,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J F DRISCOLL LERC/J E BROOKER 49-Engr, NEC

NAG 3-1684 University of Michigan - Ann Arbor 5399
STUDY OF POOL BOILING IN MICROGRAVITY - REWETTING FOLLOWING DRYOUT
Period *Obligations*
11/17/1994-12/31/1995 FY95: \$166,181 TOTAL: \$166,181
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H MERTE LERC/F P CHIARAMONTE 46-Mech Engr

NAG 5-472 University of Michigan - Ann Arbor 5400
DYNAMICS EXPLORER INVESTIGATIONS
Period *Obligations*
01/20/1988-01/31/1994 FY95: TOTAL: \$824,420
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A F NAGY GSFC/G D BULLOCK 19-Phys Sci, NEC
GSFC/R A HOFFMAN

NAG 5-653 University of Michigan - Ann Arbor 5401
SOUNDING ROCKET SPECTROMETER TO MEASURE DAPPLER
Period *Obligations*
01/01/1989-12/31/1995 FY95: \$126,961 TOTAL: \$823,264
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J T CLARKE GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-1030 University of Michigan - Ann Arbor 5402
ULTRAVIOLET OBSERVATIONS OF THE AURORA AND ELECTROGLOW FOR NEPTUNE
Period *Obligations*
01/01/1988-12/31/1994 FY95: TOTAL: \$175,034
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T J CLARKE GSFC/D WEST 11-Astronomy

NAG 5-1658 University of Michigan - Ann Arbor 5403
X-RAY OBSERVATIONS OF THE HOT INTERSTELLAR MEDIUM IN SPIRAL GALAXIES
Period *Obligations*
06/27/1991-07/31/1994 FY95: TOTAL: \$77,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J N BREGMAN GSFC/R PETRE 11-Astronomy

NAG 5-1691 University of Michigan - Ann Arbor 5404
DEVELOP A SOLAR FLUX MONITOR FOR EARTH AND PLANETARY MISSIONS
Period *Obligations*
07/15/1991-09/30/1995 FY95: TOTAL: \$113,555
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G R CARRIGAN GSFC/W R HOEGY 19-Phys Sci, NEC
GSFC/J M GREBOWSKY

NAG 5-1781 University of Michigan - Ann Arbor 5405
A CONTINUING EVALUATION OF EOSDIS VO
Period *Obligations*
09/12/1991-09/14/1996 FY95: \$180,223 TOTAL: \$349,480
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A W ENGLAND GSFC/H K RAMAPRIYAN 39-Env Sci, NEC

NAG 5-1955 University of Michigan - Ann Arbor 5406
THE GEOMETRY AND FILLING FACTOR OF THE HOT INTERSTELLAR MEDIUM
Period *Obligations*
03/26/1992-03/31/1996 FY95: \$15,072 TOTAL: \$152,072
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J N BREGMAN GSFC/R PETRE 11-Astronomy

NAG 5-2071 University of Michigan - Ann Arbor 5407
MODELS FOR GAMMA-RAY BURSTS
Period *Obligations*
08/25/1992-08/31/1994 FY95: TOTAL: \$105,048
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M FATUZZO GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2110 University of Michigan - Ann Arbor 5408
VARIATION OF THE SOLAR LYMAN ALPHA LINE PROFILE WITH SOLAR ACTIVITY
Period *Obligations*
10/08/1992-01/31/1995 FY95: TOTAL: \$19,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M R COMBI GSFC/D WEST 11-Astronomy

NAG 5-2250 University of Michigan - Ann Arbor 5409
A MARS UPPER ATMOSPHERE DYNAMICS, ENERGETICS, AND EVOLUTION (MAUDEE) MISSION
Period *Obligations*
04/27/1993-04/30/1995 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T L KILLEEN GSFC/R E HARTLE 19-Phys Sci, NEC

NAG 5-2397 University of Michigan - Ann Arbor 5410
ANALYSIS OF IUE OBSERVATIONS OF HYDROGEN IN COMETS
Period *Obligations*
10/15/1993-10/31/1995 FY95: \$33,279 TOTAL: \$63,779
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M R COMBI GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NAG 5-2457 University of Michigan - Ann Arbor 5411
X-RAY EMISSIONS FROM COMPACT GROUPS OF GALAXIES
Period Obligations
01/11/1994-07/14/1995 FY95: TOTAL: \$29,000
Prin. Invest. NASA Tech. Officer CASE Category
A E EVRARD GSFC/R PETRE 11-Astronomy

NAG 5-2458 University of Michigan - Ann Arbor 5412
SPECTROSCOPIC STUDY OF JOVIAN AURORAL PHENOMENA DISCOVERED BY HST/FOC
Period Obligations
01/11/1994-01/14/1996 FY95: \$6,000 TOTAL: \$7,500
Prin. Invest. NASA Tech. Officer CASE Category
W HARRIS GSFC/D WEST 11-Astronomy

NAG 5-2459 University of Michigan - Ann Arbor 5413
JOVIAN EQUATORIAL H LYMAN-ALPHA AND THE IONOSPHERE
Period Obligations
01/11/1994-02/14/1996 FY95: TOTAL: \$1,500
Prin. Invest. NASA Tech. Officer CASE Category
G E BALLESTER GSFC/D WEST 11-Astronomy

NAG 5-2506 University of Michigan - Ann Arbor 5414
CORRELATIVE ANALYSIS OF ENERGETIC GAMMA-RAY EMISSION FROM THE CRAB NEBULA AND GEMINGA
Period Obligations
02/16/1994-02/29/1996 FY95: \$24,000 TOTAL: \$76,435
Prin. Invest. NASA Tech. Officer CASE Category
C W AKERLOF GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2522 University of Michigan - Ann Arbor 5415
THE X-RAY SIGNATURE OF MERGERS IN ELLIPTICALS
Period Obligations
02/10/1994-02/28/1996 FY95: TOTAL: \$28,395
Prin. Invest. NASA Tech. Officer CASE Category
D O RICHSTONE GSFC/R PETRE 11-Astronomy

NAG 5-2552 University of Michigan - Ann Arbor 5416
SOLAR AND MAGNETOSPHERE INPUTS TO THE MULTI REGION INTERDISCIPLINARY SCIENCE INVESTIGATION. . . .
Period Obligations
03/15/1994-12/31/1994 FY95: TOTAL: \$49,000
Prin. Invest. NASA Tech. Officer CASE Category
J KOZYRA GSFC/R CAMPBELL 11-Astronomy

NAG 5-2649 University of Michigan - Ann Arbor 5417
THE ENCOUNTER OF P/SHOEMAKER - LEVY 9 WITH THE JOVIAN PLASMA TORUS AND EXTENDED SODIUM CLOUD
Period Obligations
07/05/1994-07/14/1996 FY95: TOTAL: \$13,000
Prin. Invest. NASA Tech. Officer CASE Category
R J NICIEJENSKI GSFC/R J OLIVERSEN 11-Astronomy

NAG 5-2732 University of Michigan - Ann Arbor 5418
THE CLUSTER MASS FUNCTION AND BARYON FRACTION FROM A COMPLETE X-RAY SAMPLE
Period Obligations
09/21/1994-03/31/1996 FY95: \$40,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
J BREGMAN GSFC/N WHITE 11-Astronomy

NAG 5-2752 University of Michigan - Ann Arbor 5419
CASE STUDIES OF THE OZONE DEFICIT: COMPARING THE NEW NCAR TIME-GCM WITH SIMULTANEOUS DATA FROM UARS
Period Obligations
10/14/1994-10/14/1996 FY95: \$93,915 TOTAL: \$93,915
Prin. Invest. NASA Tech. Officer CASE Category
W E SHARP GSFC/C H JACKMAN 31-Atmos Sci

NAG 5-2758 University of Michigan - Ann Arbor 5420
NUCLEI F NORMAL GALAXIES
Period Obligations
10/19/1994-10/31/1995 FY95: \$89,993 TOTAL: \$89,993
Prin. Invest. NASA Tech. Officer CASE Category
D O RICHSTONE GSFC/D WEST 11-Astronomy

NAG 5-2790 University of Michigan - Ann Arbor 5421
GAS DYNAMIC SIMULATIONS OF GROUPS AND CLUSTERS AND GALAXIES
Period Obligations
11/14/1994-08/31/1996 FY95: \$195,600 TOTAL: \$195,600
Prin. Invest. NASA Tech. Officer CASE Category
A E EVRARD GSFC/D WEST 11-Astronomy

NAG 5-2869 University of Michigan - Ann Arbor 5422
STAR FORMATION STUDIES: DYNAMICS AND INFRARED SIGNATURES
Period Obligations
01/12/1995-01/14/1997 FY95: \$130,000 TOTAL: \$130,000
Prin. Invest. NASA Tech. Officer CASE Category
F C ADAMS GSFC/D WEST 11-Astronomy

NAG 5-2876 University of Michigan - Ann Arbor 5423
WINDOWS TO THE UNIVERSE-AN EARTH AND SPACE SCIENCE INTERNET-BASED ACTIVE LEARNING SYSTEM
Period Obligations
01/19/1995-01/31/1996 FY95: \$475,000 TOTAL: \$475,000
Prin. Invest. NASA Tech. Officer CASE Category
R JOHNSON GSFC/F HASLER 39-Env Sci, NEC

NAG 5-2918 University of Michigan - Ann Arbor 5424
ANALOG ELECTRONICS AND ELECTRICAL GROUND SUPPORT EQUIPMENT FOR THE PLANET-B NEUTRAL MASS SPECTRO.
Period Obligations
03/21/1995-08/30/1995 FY95: \$388,288 TOTAL: \$388,288
Prin. Invest. NASA Tech. Officer CASE Category
G R CARRIGAN GSFC/S H WAY 45-Elec Engr

NAG 5-3044 University of Michigan - Ann Arbor 5425
ARCHIVAL STUDY OF ENERGETIC PROCESSES IN THE UPPER ATMOSPHERE OF THE OUTER PLANE
Period Obligations
08/03/1995-08/14/1996 FY95: \$50,800 TOTAL: \$50,800
Prin. Invest. NASA Tech. Officer CASE Category
G E BALLESTER GSFC/W WEST 11-Astronomy

NAG 5-5003 University of Michigan - Ann Arbor 5426
MEASUREMENTS OF THE ION DENSITY OF THE E-REGION AND MEASUREMENT OF ATOMIC OXYGEN IN DIFFUSE AURORA
Period Obligations
04/16/1993-03/31/1996 FY95: \$37,208 TOTAL: \$132,847
Prin. Invest. NASA Tech. Officer CASE Category
W E SHARP GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NAG 5-5030 University of Michigan - Ann Arbor 5427
SOLAR AND MAGNETOSPHERIC INPUTS TO THE MLTI REGION
Period Obligations
03/03/1995-12/31/1995 FY95: \$44,974 TOTAL: \$44,974
Prin. Invest. NASA Tech. Officer CASE Category
J U KOZYRA GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAGW 1642 University of Michigan - Ann Arbor 5435
SUPERCONDUCTING MAGNET INSTRUMENT FOR LIGHT ISOTOPES
Period Obligations
01/26/1989-01/31/1996 FY95: \$190,000 TOTAL: \$1,280,000
Prin. Invest. NASA Tech. Officer CASE Category
G TARLE HQ/M M MELLOTT 13-Physics
HQ/W V JONES

NAG 9-465 University of Michigan - Ann Arbor 5428
PREDICTING VARIATION IN DRUG PLASMA LEVELS DUE TO VAIABLE
GASTRIC EMPTYING AND INTESTINAL TRANSIT
Period Obligations
08/01/1990-06/01/1995 FY95: TOTAL: \$256,850
Prin. Invest. NASA Tech. Officer CASE Category
G L AMIDON JSC/L PUTCHA 56-Medical Sciences
JSC/N CINTRON

NAGW 1766 University of Michigan - Ann Arbor 5436
ANALYSIS OF MULTI=D-WAVELENGTH OBSERVATIONS OF THE
AURORA
Period Obligations
05/31/1989-10/31/1995 FY95: TOTAL: \$338,327
Prin. Invest. NASA Tech. Officer CASE Category
J T CLARKE HQ/J T BERGSTRALH 11-Astronomy

NAG 9-652 University of Michigan - Ann Arbor 5429
SHEAR SENSITIVES OF HUMAN BONE MARROW CULTURES
Period Obligations
10/28/1992-12/01/1995 FY95: \$105,000 TOTAL: \$315,000
Prin. Invest. NASA Tech. Officer CASE Category
B PALSSON HQ/G SPAULDING 51-Biological Sci

NAGW 1771 University of Michigan - Ann Arbor 5437
A PROGRAM FOR RESEARCH IN PLANETARY ATMOSPHERES
Period Obligations
05/26/1989-11/30/1996 FY95: \$90,000 TOTAL: \$569,508
Prin. Invest. NASA Tech. Officer CASE Category
S ATREYA HQ/J T BERGSTRALH 11-Astronomy

NAG 9-709 University of Michigan - Ann Arbor 5430
SPIFEX
Period Obligations
08/30/1993-08/19/1995 FY95: \$25,018 TOTAL: \$70,018
Prin. Invest. NASA Tech. Officer CASE Category
A GALLIMORE JSC/R MACHIN 41-Aero Engr

NAGW 1907 University of Michigan - Ann Arbor 5438
THE DISTRIBUTION OF GAS IN THE INNER CORNAE OF COMETS
Period Obligations
12/27/1989-10/31/1995 FY95: \$82,253 TOTAL: \$437,109
Prin. Invest. NASA Tech. Officer CASE Category
M R COMBI HQ/J BERGSTRALH 11-Astronomy

NAGW 176 University of Michigan - Ann Arbor 5431
INTERACTION OF BIOTA AND ATMOSPHERE: THE GEOLOGICAL
RECORDS
Period Obligations
04/01/1981-12/31/1997 FY95: \$133,188 TOTAL: \$1,501,539
Prin. Invest. NASA Tech. Officer CASE Category
J C WALKER HQ/J D RUMMEL 12-Chemistry
HQ/M AVERNER

NAGW 2124 University of Michigan - Ann Arbor 5439
A PRECISE MEASUREMENT OF THE TEMPERATURE OF THE CO
SMIC BACKGROUND RADIATION
Period Obligations
05/23/1990-05/31/1996 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
D J HEYGI HQ/G LEVY 31-Atmos Sci

NAGW 1334 University of Michigan - Ann Arbor 5432
CENTER FOR NEAR-MILLIMETER WAVE COMM. AND SENSING
TECH.
Period Obligations
07/13/1988-10/31/1995 FY95: \$462,600 TOTAL: \$11,196,825
Prin. Invest. NASA Tech. Officer CASE Category
F T ULABY HQ/S C HARTMAN 49-Engr, NEC

NAGW 2125 University of Michigan - Ann Arbor 5440
A PRECISE MEASUREMENT OF THE TEMPERATURE OF THE CO
SMIC BACKGROUND RADIATION
Period Obligations
05/23/1990-02/28/1995 FY95: TOTAL: \$262,000
Prin. Invest. NASA Tech. Officer CASE Category
D J HEYGI HQ/G LEVY 31-Atmos Sci

NAGW 1366 University of Michigan - Ann Arbor 5433
MODELING OF COMETARY ATMOSPHERE
Period Obligations
07/13/1988-11/30/1995 FY95: \$70,000 TOTAL: \$534,832
Prin. Invest. NASA Tech. Officer CASE Category
T I GOMBOSI HQ/J T BERGSTRALH 11-Astronomy
HQ/W L QUIADE

NAGW 2135 University of Michigan - Ann Arbor 5441
THE HOT INTERSTELLAR MEDIUM IN SPIRAL AND ELLIPTIC AL
GALAXIES
Period Obligations
10/23/1990-12/31/1995 FY95: \$77,276 TOTAL: \$860,505
Prin. Invest. NASA Tech. Officer CASE Category
J N BREGMAN HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 1619 University of Michigan - Ann Arbor 5434
STUDIES OF IONOSPHERE-PLASMASPHERE-MAGNETOSPHERE
SYSTEM
Period Obligations
02/27/1989-12/31/1994 FY95: TOTAL: \$1,281,368
Prin. Invest. NASA Tech. Officer CASE Category
A F NAGY HQ/M M MELLOTT 13-Physics
HQ/T W PERRY

NAGW 2151 University of Michigan - Ann Arbor 5442
INVESTIGATION OF POLARIMETRIC RADAR RESPONSE TO SO IL
MOISTURE AND SURFACE ROUGHNESS
Period Obligations
07/02/1990-04/30/1996 FY95: \$210,000 TOTAL: \$648,000
Prin. Invest. NASA Tech. Officer CASE Category
F ULABY HQ/G ASRAR 39-Env Sci, NEC
HQ/T J PIEPER

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NAGW 2367 University of Michigan - Ann Arbor 5443
 NAGW-2367/UNIV MICHIGAN/HYDRODYNAMIC SIMULATIONS OF
 THE INTRACLUSTER MEDIUM
Period *Obligations*
 03/11/1991-06/30/1994 FY95: TOTAL: \$293,117
Prin. Invest. NASA Tech. Officer CASE Category
 A E EVRRARD HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 3430 University of Michigan - Ann Arbor 5451
 LINKING GCM HYDROLOGIC PARAMETERS TO THE RADIOBRIG
 HTNESS OF NORTHERN PRAIRIE AND ARCTIC TUNDRA
Period *Obligations*
 03/03/1993-12/31/1995 FY95: \$100,000 TOTAL: \$300,000
Prin. Invest. NASA Tech. Officer CASE Category
 A W ENGLAND HQ/R E MURPHY 39-Env Sci, NEC

NAGW 2501 University of Michigan - Ann Arbor 5444
 NAGW-2501/UNIV MICHIGAN/PARTICIPATION AS A CO-INVE
 STIGATOR ON THE MARS 94 ELISMA INVESTIGATION
Period *Obligations*
 06/13/1991-12/31/1995 FY95: \$5,000 TOTAL: \$169,669
Prin. Invest. NASA Tech. Officer CASE Category
 L H BRACE HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 3457 University of Michigan - Ann Arbor 5452
 DATA ANALYSIS AND THEORETICAL STUDIES OF THE LOWER
 THERMOSPHERE
Period *Obligations*
 03/19/1993-02/29/1996 FY95: \$92,676 TOTAL: \$263,810
Prin. Invest. NASA Tech. Officer CASE Category
 T L KILLEEN HQ/M M MELLOTT 13-Physics
 HQ/G L WITHBROE

NAGW 2533 University of Michigan - Ann Arbor 5445
 MARS 94 INVESTIGATIONS
Period *Obligations*
 07/30/1991-01/31/1996 FY95: \$10,000 TOTAL: \$215,428
Prin. Invest. NASA Tech. Officer CASE Category
 A NAGY HQ/W L QUAIDE 31-Atmos Sci

NAGW 3579 University of Michigan - Ann Arbor 5453
 INVESTIGATION OF THE IONOSPHERE AND IONOTAIL OF VE NUS
Period *Obligations*
 05/25/1993-03/14/1996 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 L BRACE HQ/J T BERGSTALH 31-Atmos Sci

NAGW 2561 University of Michigan - Ann Arbor 5446
 MARS '94 PARTICIPATING SCIENTIST: INVESTIGATION OF STABILITY
 OF THE MARTIAN ATMOSPHERE
Period *Obligations*
 07/31/1991-01/31/1996 FY95: \$5,000 TOTAL: \$152,773
Prin. Invest. NASA Tech. Officer CASE Category
 S K ATREYA HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 3585 University of Michigan - Ann Arbor 5454
 STUDIES FOR THE LOSS OF ATOMIC AND MOLECULAR SPECI ES
 FROM IO
Period *Obligations*
 05/12/1993-04/30/1996 FY95: \$36,057 TOTAL: \$102,734
Prin. Invest. NASA Tech. Officer CASE Category
 M COMB HQ/H C BRINTON 19-Phys Sci, NEC

NAGW 2608 University of Michigan - Ann Arbor 5447
 PHOTO-BIOREACTOR ENGINEERING: LIGHT DELIVERY, AND ALGAL
 GROWTH AND GAS EXCHANGE
Period *Obligations*
 09/12/1991-07/14/1994 FY95: TOTAL: \$744,014
Prin. Invest. NASA Tech. Officer CASE Category
 B O PALSSON HQ/M M AVERNER 51-Biological Sci

NAGW 3789 University of Michigan - Ann Arbor 5455
 GRAVITROPIC RESPONSE MECHANISM IN CEREAL GRASS
Period *Obligations*
 10/06/1993-12/31/1995 FY95: TOTAL: \$29,988
Prin. Invest. NASA Tech. Officer CASE Category
 P B KAUFMAN HQ/T W HALSTEAD 51-Biological Sci

NAGW 2802 University of Michigan - Ann Arbor 5448
 STAR FORMATION STUDIES: DYNAMICS AND INFRARED SIGN
 ATURES
Period *Obligations*
 01/03/1992-11/30/1994 FY95: TOTAL: \$232,746
Prin. Invest. NASA Tech. Officer CASE Category
 F C ADAMS HQ/L J CAROFF 11-Astronomy

NAGW 3962 University of Michigan - Ann Arbor 5456
 MULTIDIMENSIONAL MHD MODEL STUDIES OF THE IONOSPHE RES
 OF VENUS AND MARS
Period *Obligations*
 05/13/1994-03/31/1997 FY95: \$84,000 TOTAL: \$154,000
Prin. Invest. NASA Tech. Officer CASE Category
 A NAGY HQ/J BERGSTALH 31-Atmos Sci

NAGW 3417 University of Michigan - Ann Arbor 5449
 STUDIES OF THE TENOUS PLANETARY ATMOSPHERES
Period *Obligations*
 03/09/1993-12/31/1995 FY95: \$90,000 TOTAL: \$249,931
Prin. Invest. NASA Tech. Officer CASE Category
 M COMBI HQ/H C BRINTON 19-Phys Sci, NEC

NAGW 4009 University of Michigan - Ann Arbor 5457
 IUE OBSERVATION OF JOVIAN ATMOSPHERIC CHANGES RELA TED
 TO THE SHOEMAKER LEVY ENCOUNTER
Period *Obligations*
 05/23/1994-11/30/1994 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 G E BALLESTER HQ/J H RAHE 11-Astronomy

NAGW 3423 University of Michigan - Ann Arbor 5450
 ANAL. AND INTRE. OF PION. VENUS LAR. PROBE NEUTRAL MASS
 SPECTROMETER DATA
Period *Obligations*
 03/01/1993-12/31/1994 FY95: TOTAL: \$117,365
Prin. Invest. NASA Tech. Officer CASE Category
 T M DONAHUE HQ/H C BRINTON 19-Phys Sci, NEC

NAGW 4021 University of Michigan - Ann Arbor 5458
 MODELING OF MAGNETOSPHERIC THERMAL PLASMA PHENOMEN
 A WITH AN ADAPTIVE MHD METHOD
Period *Obligations*
 05/25/1994-02/28/1995 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 J U KOZYRA HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NAGW 4175 University of Michigan - Ann Arbor 5459
DEVELOPMENT OF THE SPACE TETHERED INSTRUMENT CONCEPT FOR ITM SCIENCE

<i>Period</i>	<i>Obligations</i>	
10/28/1994-06/30/1997	FY95: \$110,000	TOTAL: \$110,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B GILCHRIST	HQ/M M MELLOTT	13-Physics
	HQ/J D BROHLIN	

NAGW 4494 University of Michigan - Ann Arbor 5467
FULLY IMPLANTABLE INTEGRATED SILICON BIOTELEMETRY MICROSYSTEMS

<i>Period</i>	<i>Obligations</i>	
05/16/1995-02/28/1998	FY95: \$194,232	TOTAL: \$194,232
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K NAJAFI	HQ/G C FOGLEMAN	59-Life Sci, NEC

NAGW 4179 University of Michigan - Ann Arbor 5460
REGIONAL SCALE LAND-COVER CLASSIFICATION USING EXISTING ORBITAL IMAGING RADAR

<i>Period</i>	<i>Obligations</i>	
10/26/1994-03/31/1996	FY95: \$199,560	TOTAL: \$199,560
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F T ULABY	HQ/D E WICKLAND	39-Env Sci, NEC
M C DOBSON	HQ/A C JANETOS	
L E PIERCE		

NAGW 4555 University of Michigan - Ann Arbor 5468
DIGITAL TOPOGRAPHY FROM SAR INTERFEROMETRY: DETERMINATION OF AND CORRECTION FOR VEGETATION HEIGHT

<i>Period</i>	<i>Obligations</i>	
06/06/1995-03/14/1998	FY95: \$103,119	TOTAL: \$103,119
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K SARABANDI	HQ/D E WICKLAND	39-Env Sci, NEC
M C DOBSON	HQ/A C JANETOS	
J VANZYL		

NAGW 4180 University of Michigan - Ann Arbor 5461
DEVELOPMENT OF SAR ALGORITHMS FOR MAPPING SOIL MOISTURE AND SHORT VEGETATION BIOMASS

<i>Period</i>	<i>Obligations</i>	
10/26/1994-09/30/1997	FY95: \$200,000	TOTAL: \$200,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F T ULABY	HQ/M Y WEI	39-Env Sci, NEC
	HQ/J S THEON	

NAGW 4611 University of Michigan - Ann Arbor 5469
STUDIES OF INNER MAGNETOSPHERIC PROCESS AND COUPLING TO THE UNDERLYING ATMOSPHERE

<i>Period</i>	<i>Obligations</i>	
08/02/1995-04/30/1998	FY95: \$75,000	TOTAL: \$75,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J U KOZYRA	HQ/J BOHLIN	13-Physics

NAGW 4240 University of Michigan - Ann Arbor 5462
ADVANCED DESIGN PROGRAM

<i>Period</i>	<i>Obligations</i>	
01/18/1995-12/31/1995	FY95: \$17,350	TOTAL: \$17,350
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J EISLEY	HQ/A S MCGEE	49-Engr, NEC

NAGW 4704 University of Michigan - Ann Arbor 5470
AN INNOVATIVE MINIATURE HIGH RESOLUTION FABRY-PEROT SPECTROMETER FOR PLANETARY ATMOSPHERIC RESEARCH

<i>Period</i>	<i>Obligations</i>	
08/24/1995-06/30/1997	FY95: \$98,178	TOTAL: \$98,178
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W COOK	HQ/T KOSTIUK	11-Astronomy

NAGW 4367 University of Michigan - Ann Arbor 5463
ARCHIVING AND RESTORATION OF VISIBLE AIRGLOW DATA FROM THE AE-C, AE-D, AND AE-E, AND DE-2 SPACECRAFT

<i>Period</i>	<i>Obligations</i>	
03/18/1995-12/31/1995	FY95: \$52,523	TOTAL: \$52,523
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M D BURRAGE	HQ/J B WILLETT	22-Computer Science

NAGW 4797 University of Michigan - Ann Arbor 5471
THE SHOEMAKER-LEVY 9/JUPITER IMPACT: AURORAL AND HIGH ENERGY PROCESSES

<i>Period</i>	<i>Obligations</i>	
09/22/1995-08/31/1996	FY95: \$91,000	TOTAL: \$91,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M COMBI	HQ/E BARKER	99-Multi-Discip

NAGW 4388 University of Michigan - Ann Arbor 5464
COMPOSITION AND EVALUATION OF THE ATMOSPHERE OF VENUS

<i>Period</i>	<i>Obligations</i>	
03/30/1995-12/31/1998	FY95: \$39,560	TOTAL: \$39,560
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T DONAHUE	HQ/J BERGSTRALH	11-Astronomy

NAS 1-18290 University of Michigan - Ann Arbor 5472
HALOE SCIENTIFIC INVESTIGATION

<i>Period</i>	<i>Obligations</i>	
05/08/1986-09/30/1997	FY95: \$71,105	TOTAL: \$777,705
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S R DRAYSON	LARC/E M SULLIVAN	31-Atmos Sci
	LARC/J M RUSSELL III	

NAGW 4446 University of Michigan - Ann Arbor 5465
ANALYSIS OF THE IUE SPECTRA OBTAINED DURING THE SHOEMAKER LEVY ENCOUNTER

<i>Period</i>	<i>Obligations</i>	
05/10/1995-04/30/1997	FY95: \$57,000	TOTAL: \$57,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W HARRIS	HQ/J BERGSTRALH	99-Multi-Discip

NAS 3-25812 University of Michigan - Ann Arbor 5473
SCIENTIFIC SUPPORT FOR: POOL BOILING EXPERIMENT (PBE)

<i>Period</i>	<i>Obligations</i>	
02/28/1990-03/01/1995	FY95:	TOTAL: \$649,936
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H MERTE	LERC/F P CHIARAMONTE	46-Mech Engr

NAGW 4448 University of Michigan - Ann Arbor 5466
THE HOT INTERSTELLAR MEDIUM IN SPIRALS, ELLIPTICAL AND CLUSTERS OF GALAXIES

<i>Period</i>	<i>Obligations</i>	
05/02/1995-04/30/1996	FY95: \$115,000	TOTAL: \$115,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J N BREGMAN	HQ/G R RIEGLER	11-Astronomy

NAS 3-27141 University of Michigan - Ann Arbor 5474
INFLUENCE OF MICROSTRUCTURE ON THE ELEVATED TEMPERATURE MECHANICAL BEHAVIOR OF FIBER-REINFORCED CERAMIC

<i>Period</i>	<i>Obligations</i>	
09/29/1993-11/13/1995	FY95:	TOTAL: \$91,565
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J W HOLMES	LERC/R T BHATT	47-Materials Engr

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NAS 5-27751 University of Michigan - Ann Arbor 5475
DESIGN, FABRICATE AND DELIVER A PROTOFLIGHT HIGH
RESOLUTION DOPPLER IMAGER FOR THE UARS
Period Obligations
09/26/1983-11/30/1995 FY95: \$1,742,470 TOTAL: \$36,693,795
Prin. Invest. NASA Tech. Officer CASE Category
P HAYS GSFC/G HONEYCUTT 31-Atmos Sci
GSFC/J DONLEY

NAS 5-30119 University of Michigan - Ann Arbor 5476
SCIENTIFIC INTERPRETATION OF GPMS DATA
Period Obligations
06/15/1987-04/30/1997 FY95: \$75,000 TOTAL: \$225,668
Prin. Invest. NASA Tech. Officer CASE Category
S K ATREYA GSFC/B NIEMANN 31-Atmos Sci

NAS 5-30120 University of Michigan - Ann Arbor 5477
SCIENTIFIC INTERPRETATION OF GPMS DATA
Period Obligations
06/15/1987-04/30/1994 FY95: TOTAL: \$133,000
Prin. Invest. NASA Tech. Officer CASE Category
T M DONAHUE GSFC/J R RICHARDS 31-Atmos Sci

NAS 5-30943 University of Michigan - Ann Arbor 5478
ELECTRONICS PACKAGE FOR THE COMET RENDEZVOUS ASTEROID
FLYBY NEUTRAL GAS ION MASS SPECTROMETER
Period Obligations
02/25/1991-10/01/1997 FY95: \$487,000 TOTAL: \$2,417,098
Prin. Invest. NASA Tech. Officer CASE Category
G CARIGNAN GSFC/R L FROST 31-Atmos Sci

NAS 5-30955 University of Michigan - Ann Arbor 5479
ELECTRONICS PACKAGE FOR THE HUYGENS PROBE; GAS
CHROMATOGRAPH MASS SPECTROMETER
Period Obligations
04/08/1991-09/30/1995 FY95: \$598,333 TOTAL: \$2,972,510
Prin. Invest. NASA Tech. Officer CASE Category
G CARIGNAN GSFC/R L FROST 31-Atmos Sci

NAS 5-32361 University of Michigan - Ann Arbor 5480
CASSINI/HUYGENS GAS CHROMATOGRAPH MASS SPECTROMETER
(GC-MS) INVESTIGATION
Period Obligations
05/05/1994-11/15/1997 FY95: \$25,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
S ATREYA GSFC/J RICHARDS 39-Env Sci, NEC

NAS 5-38096 University of Michigan - Ann Arbor 5481
TIMED TEMPERATURE, WIND, NEUTRALS AND IONS EXPERIMENT
(TWINNIE)
Period Obligations
02/23/1994-02/22/1995 FY95: TOTAL: \$27,000
Prin. Invest. NASA Tech. Officer CASE Category
G R CARIGNAN GSFC/F SCHMIDT 42-Astro Engr

NAS 8-37108 University of Michigan - Ann Arbor 5482
STUDY ENTITLED 'RESEARCH ON ORBITAL
PLASMA-ELECTRODYNAMICS (ROPE).'
Period Obligations
04/14/1987-02/28/1997 FY95: \$10,000 TOTAL: \$91,000
Prin. Invest. NASA Tech. Officer CASE Category
E G FONTHEIM MSFC/M F MALONE 31-Atmos Sci
MSFC/R HOLDER

NAS 8-39381 University of Michigan - Ann Arbor 5483
SHUTTLE ELECTRODYNAMIC TETHER SYSTEM
Period Obligations
06/26/1992-02/28/1997 FY95: \$1,778,000 TOTAL: \$4,096,131
Prin. Invest. NASA Tech. Officer CASE Category
P M BANKS MSFC/J H KERR 42-Astro Engr
B E GILEHRIST

NAS 8-40578 University of Michigan - Ann Arbor 5484
CONTINUING DEVELOPMENT OF HYBRID MODEL OF THE NEUTRAL
THERMOSPHERE
Period Obligations
04/19/1995-04/18/1998 FY95: \$74,239 TOTAL: \$74,239
Prin. Invest. NASA Tech. Officer CASE Category
A BURNS GSFC/J ANDERSON 31-Atmos Sci
GSFC/S PEARSON

NASW 5008 University of Michigan - Ann Arbor 5485
A TIMED DOPPLER INTERFEROMETER (TIDI)
Period Obligations
05/26/1993-09/30/1995 FY95: \$449,946 TOTAL: \$449,946
Prin. Invest. NASA Tech. Officer CASE Category
T KILLEEN HQ/R HOWARD 49-Engr, NEC

NCA 2-839 University of Michigan - Ann Arbor 5486
ANALYSIS OF CYLINDRICAL WRAP-AROUND AND DOUBLY CONFO
RMAL PATCH ANTENNAS VIA THE FINITE ELEMENT-ARTIFI
Period Obligations
08/25/1993-09/30/1994 FY95: TOTAL: \$29,000
Prin. Invest. NASA Tech. Officer CASE Category
J L VOLAKIS ARC/A C WOO 45-Elec Engr

NCC 2-856 University of Michigan - Ann Arbor 5487
EFFECTS OF MICROGRAVITY ON DEVELOPMENT OF THIGH MU
SCLER
Period Obligations
05/25/1994-04/30/1996 FY95: \$98,203 TOTAL: \$219,398
Prin. Invest. NASA Tech. Officer CASE Category
K I CLARK ARC/D A REISS-BUBENHEIM 51-Biological Sci
K F BARALD ARC/C M WINGET

NCC 3-355 University of Michigan - Ann Arbor 5488
FUNDAMENTALS OF MOLD-FREE CASTINGS EXPERIMENTAL AN D
COMPUTATIONAL STUDIES
Period Obligations
07/11/1994-07/10/1996 FY95: \$45,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
G TRYGGVASON LERC/R ROGERS 47-Materials Engr
S CECCIO LERC/T GLASGOW

NCC 3-381 University of Michigan - Ann Arbor 5489
POLYMER PRECURSORS FOR BARIUM AND STRONTIUM ALUMIN
OSILICATE FIBER REINFORCE CERAMIC MATRICES
Period Obligations
12/20/1994-12/19/1995 FY95: \$45,011 TOTAL: \$45,011
Prin. Invest. NASA Tech. Officer CASE Category
R M LAINE LERC/N P BANSAL 47-Materials Engr

NGR23-5360 University of Michigan - Ann Arbor 5490
A PROGRAM IN AERONOMY \$179,225
Period Obligations
12/29/1969-09/30/1995 FY95: TOTAL: \$4,428,984
Prin. Invest. NASA Tech. Officer CASE Category
W E SHARP GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NGT 00-010-023 University of Michigan - Ann Arbor 5491
 NGT-10023/UNIV MICHIGAN ANN ARBOR/MULTIDISCIPLINAR Y
 DESIGN AND ANALYSIS FELLOWSHIP PROGRAM
Period Obligations
 04/01/1994-12/31/1994 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 J G EISLEY HQ/G S SEIDEL 41-Aero Engr
 HQ/J R FACEY

NGT 00-010-028 University of Michigan - Ann Arbor 5492
 USERC PROGRAM
Period Obligations
 12/22/1994-09/30/1995 FY95: \$276,828 TOTAL: \$276,828
Prin. Invest. NASA Tech. Officer CASE Category
 F T ULABY HQ/G JOHNSTON 49-Engr, NEC

NGT 00-030-103 University of Michigan - Ann Arbor 5493
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/04/1992-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 L L GEZON HQ/G ASRAR 99-Multi-Discip
 HQ/D M BUTLER

NGT 00-030-208 University of Michigan - Ann Arbor 5494
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/27/1993-08/31/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 W KUHN HQ/D M BUTLER 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-219 University of Michigan - Ann Arbor 5495
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/30/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 P J SAMSON HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-258 University of Michigan - Ann Arbor 5496
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/21/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A TEERI HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-040-007 University of Michigan - Ann Arbor 5497
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
 10/18/1989-05/31/1996 FY95: \$760,000 TOTAL: \$2,197,000
Prin. Invest. NASA Tech. Officer CASE Category
 R JOHNSON HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-050-901 University of Michigan - Ann Arbor 5498
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/22/1992-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J N BREGMAN HQ/J ALEXANDER 11-Astronomy

NGT 00-050-928 University of Michigan - Ann Arbor 5499
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/13/1992-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 H MERTE HQ/J K ALEXANDER 46-Mech Engr

NGT 00-050-931 University of Michigan - Ann Arbor 5500
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/17/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 P ROE ARC/B HASTINGS 41-Aero Engr

NGT 00-050-977 University of Michigan - Ann Arbor 5501
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A M WAAS LARC/E J PRIOR 42-Astro Engr

NGT 00-051-057 University of Michigan - Ann Arbor 5502
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/25/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J T HOLLAND JSC/S GOLDSTEIN 22-Computer Science

NGT 00-051-070 University of Michigan - Ann Arbor 5503
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/02/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G TRYGGVASON HQ/D A HOLLAND 46-Mech Engr

NGT 00-051-120 University of Michigan - Ann Arbor 5504
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/09/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D C MARTIN MSFC/F SIX 47-Materials Engr

NGT 00-051-126 University of Michigan - Ann Arbor 5505
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/13/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 E A RUNDENSTEINER HQ/D HOLLAND 22-Computer Science

NGT 00-051-137 University of Michigan - Ann Arbor 5506
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/28/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 L KILLEEN HQ/D HOLLAND 33-Oceanography

NGT 00-051-166 University of Michigan - Ann Arbor 5507
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/14/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 B E GILCHRIST MSFC/F SIX 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NGT 00-051-180 University of Michigan - Ann Arbor 5508
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/02/1993-09/05/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
J U KOZYRA MSFC/B SWINFORD 13-Physics

NGT 00-090-262 University of Michigan - Ann Arbor 5517
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
12/19/1994-08/14/1996 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
S GREGERMAN HQ/D K RUSSELL 22-Computer Science

NGT 00-051-235 University of Michigan - Ann Arbor 5509
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/07/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
K G POWELL LERC/F MONTEGANI 41-Aero Engr

NGT 8-52805 University of Michigan - Ann Arbor 5518
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/01/1995-07/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
C AKERLOT MSFC/F SIX 13-Physics

NGT 00-051-256 University of Michigan - Ann Arbor 5510
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/17/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
A M WAAS LARC/L EVANS 41-Aero Engr

NGT 9-3 University of Michigan - Ann Arbor 5519
EFFECTS OF AGE/VESTIBULAR REHABILITATION ON POSTURAL CONTROL
Period Obligations
05/31/1995-08/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
A B SCHULTZ JSC/D G SOCKORES 47-Materials Engr

NGT 00-051-260 University of Michigan - Ann Arbor 5511
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/17/1994-06/30/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
T C ANDERSON LARC/L EVANS 41-Aero Engr

NGT23-5802 University of Michigan - Ann Arbor 5520
GSRP BASIC
Period Obligations
06/01/1994-12/31/1993 FY95: \$1,008,946 TOTAL: \$1,008,946
Prin. Invest. NASA Tech. Officer CASE Category
D J WEINTRAUB HQ/F C OWENS 49-Engr, NEC

NGT 00-051-323 University of Michigan - Ann Arbor 5512
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/06/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
T I GOMBOSI HQ/D HOLLAND 13-Physics

NAG 1-1175 Wayne State University 5521
ACTIVE CONTROL OF PANEL VIBRATIONS INDUCED BY A BOUNDARY-LAYER FLOW
Period Obligations
08/10/1990-10/31/1995 FY95: \$19,932 TOTAL: \$71,237
Prin. Invest. NASA Tech. Officer CASE Category
P L CHOW LARC/L MAESTRELLO 41-Aero Engr
LARC/C A POWELL

NGT 00-051-335 University of Michigan - Ann Arbor 5513
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/26/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
T I GOMBOSI HQ/D HOLLAND 31-Atmos Sci

NAG 3-1140 Wayne State University 5522
FUEL/AIR PROC IN MULTI-VENTURI-TUBE FUEL INJ FOR A DV GAS TURB APPL
Period Obligations
02/12/1990-12/05/1994 FY95: \$415,874 TOTAL: \$415,874
Prin. Invest. NASA Tech. Officer CASE Category
M C LAI LERC/R R TACINA 41-Aero Engr

NGT 00-051-408 University of Michigan - Ann Arbor 5514
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/17/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
J N BERGMAN HQ/D HOLLAND 11-Astronomy

NAG 3-1265 Wayne State University 5523
MEASUREMENT AND MODELING OF SOOTING TURBULENT JET DI FFUSION FLAMES UNDER NORMAL AND REDUCED GRAVITY CON
Period Obligations
03/21/1991-08/22/1995 FY95: \$295,000 TOTAL: \$295,000
Prin. Invest. NASA Tech. Officer CASE Category
J C KU LERC/P S GREENBERG 46-Mech Engr

NGT 00-051-409 University of Michigan - Ann Arbor 5515
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/17/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
J P BOYD HQ/D HOLLAND 31-Atmos Sci

NGT 00-090-207 University of Michigan - Ann Arbor 5516
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
09/14/1993-08/14/1996 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
S GREGERMAN HQ/D K RUSSELL 99-Multi-Discip

NAG 3-1569 Wayne State University 5524
LEWIS ADVANCED CLUSTER ENVIRONMENTAL SYSTEMS: PER FORMANCE ANALYSIS
Period Obligations
02/14/1994-11/13/1994 FY95: \$39,822 TOTAL: \$39,822
Prin. Invest. NASA Tech. Officer CASE Category
E YAPRAK LERC/G F FOLLEN 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
MICHIGAN (Continued)**

NAG 3-1703 Wayne State University 5525
 FUEL/AIR PROCESSES IN MULTIPLE-VENTURI-TUBE FUEL INJECTOR FOR ADVANCED GAS TURBINE APPLICATIONS
Period *Obligations*
 01/26/1995-01/25/1996 FY95: \$82,019 TOTAL: \$82,019
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M C LAI LERC/R R TACINA 41-Aero Engr

NAG 3-1729 Wayne State University 5526
 SOOT AND RADIATION-MEASUREMENT IN MICROGRAVITY TURBULENT JET DIFFUSION FLAMES
Period *Obligations*
 04/01/1995-03/31/1996 FY95: \$74,000 TOTAL: \$74,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J KU LERC/P S GREENBERG 46-Mech Engr

NAG 5-2098 Wayne State University 5527
 ESTIMATION OF NET CARBON FLUX OVER THE FIFE SITE U SING GROUND AND SATELLITE DATA
Period *Obligations*
 09/15/1992-09/14/1994 FY95: TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N S GOEL GSFC/F G HALL 11-Astronomy
 J M NORMAN GSFC/P SELLEERS

NAG 5-2237 Wayne State University 5528
 BOREAL FOREST COMMUNITY COMPOSITION AND STRUCTURE, PHOTOSYNTHESIS, REMOTE SENSING, SCALING AND NET...
Period *Obligations*
 04/09/1993-04/14/1995 FY95: TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N S GOEL GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P SELLERS

NAGW 3260 Wayne State University 5529
 NAGW-3260/WAYNE STATE UNIV/ARCHITECTURALLY REALISTIC IC MODELS FOR OPTICAL RADIATION REGIME IN VEGETATION
Period *Obligations*
 11/27/1992-09/30/1996 FY95: \$250,000 TOTAL: \$453,039
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N S GOEL HQ/D E WICKLAND 39-Env Sci, NEC
 HQ/A C JANETOS

NGT 00-051-074 Wayne State University 5530
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 05/27/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R G REYNOLDS HQ/D HOLLAND 22-Computer Science

NAG 3-1668 Western Michigan University 5531
 REYNOLDS-AVERAGED NAVIER-STOKES STUDIES OF LOW REYNOLDS NUMBER EFFECT ON THE LOSSES IN A LOW-PRESSURE
Period *Obligations*
 09/23/1994-10/31/1995 FY95: \$11,532 TOTAL: \$21,532
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D J DORNEY LERC/D E ASHPIS 41-Aero Engr

NAG 3-1669 Western Michigan University 5532
 COMPUTATIONAL SIMULATION OF THIN FILM HEAT FLUX GAUGE USING FLUENT
Period *Obligations*
 09/23/1994-06/22/1995 FY95: TOTAL: \$9,560
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C S CHO LERC/G C FRALICK 46-Mech Engr

NAG 3-1671 Western Michigan University 5533
 NUMERICAL SIMULATIONS OF UNSTEADY BLADE ROW INTERACTION IN MULTIPLE-STAGE TURBINES
Period *Obligations*
 09/26/1994-06/30/1996 FY95: \$20,090 TOTAL: \$43,288
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D J DORNEY LERC/J R SCHWAB 41-Aero Engr

MINNESOTA

NAG 8-1001 Augsburg College 5534
 JOVE
Period *Obligations*
 12/08/1993-05/31/1996 FY95: \$27,692 TOTAL: \$82,548
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 MSFC/F SIX 11-Astronomy

NAG 9-623 Bemidji State University 5535
 EFFECT OF RADIATIONS ON THE RODENT LENS EPITHELIUM
Period *Obligations*
 06/30/1992-09/01/1994 FY95: TOTAL: \$68,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A L LINDGREN JSC/C YANG 51-Biological Sci

NAGW 4199 Bemidji State University 5536
 RODENT LENS EPITHELIUM
Period *Obligations*
 12/07/1994-10/31/1995 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A L LINDGREN HQ/V THORPE 59-Life Sci, NEC

NAG 5-2363 Mankato State University 5537
 FURTHER MODELS OF THE SPATIAL AND LUMINOSITY DISTRIBUTION OF BATSE GAMMA-RAY BURSTS
Period *Obligations*
 09/30/1993-09/30/1994 FY95: TOTAL: \$50,596
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J E HAKKILA GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 8-192 Mankato State University 5538
 PROJECT JOVE
Period *Obligations*
 04/25/1991-06/14/1996 FY95: TOTAL: \$124,007
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J HAKKILA MSFC/F SIX 99-Multi-Discip
 H SHENG
 E BOYD

NAG 3-1367 University of Minnesota-Duluth 5602
 I COME HERE TO LEARN: RECRUITMENT AND RETENTION OF MINORITIES IN SCIENCE, MATHEMATICS, AND ENGINEERING
Period *Obligations*
 09/17/1992-02/29/1996 FY95: \$99,205 TOTAL: \$280,294
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T B HOLST LERC/R ROMERO 99-Multi-Discip
 LERC/R F LAWRENCE

**NASA'S UNIVERSITY PROGRAM
MINNESOTA (Continued)**

NCA 2-819 University of Minnesota-Duluth 5603
 A HYBRID COMPUTATIONAL METHODOLOGY FOR HYPERSONIC
 TRANSITIONAL FLOWS: CONTINUUM FORMULATION
Period Obligations
 06/03/1993-05/31/1995 FY95: TOTAL: \$59,965
Prin. Invest. NASA Tech. Officer CASE Category
 G V CANDLER ARC/G S DEIWERT 41-Aero Engr

NAG 2-904 Univ of Minnesota - Minneapolis-St Paul 5546
 ROBUST PRECONDITIONED ITERATIVE TECHNIQUES FOR CFE
 APPLICATIONS
Period Obligations
 05/25/1994-12/31/1995 FY95: \$42,273 TOTAL: \$132,397
Prin. Invest. NASA Tech. Officer CASE Category
 Y SAAD ARC/A C WOO 22-Computer Science

NAG 1-1254 Univ of Minnesota - Minneapolis-St Paul 5539
 VIBRATION ATTENUATION OF THE NASA LANGLEY EVOLUTIONARY
 STRUCTURE EXPERIMENT USING H AND STRUCTURED SI
Period Obligations
 05/03/1991-04/30/1995 FY95: TOTAL: \$150,622
Prin. Invest. NASA Tech. Officer CASE Category
 G J BALAS LARC/E S ARMSTRONG 42-Astro Engr

NAG 3-1249 Univ of Minnesota - Minneapolis-St Paul 5547
 MEASUREMENTS IN A TRANSITIONAL BOUNDARY LAYER ON A
 CONCAVE SURFACE
Period Obligations
 03/01/1991-03/28/1995 FY95: TOTAL: \$245,000
Prin. Invest. NASA Tech. Officer CASE Category
 T W SIMON LERC/F F SIMON 46-Mech Engr

NAG 1-1380 Univ of Minnesota - Minneapolis-St Paul 5540
 FEEDBACK CONTROL LAWS FOR HIGHLY MANEUVERABLE
 AIRCRAFT
Period Obligations
 02/13/1992-01/31/1996 FY95: TOTAL: \$195,012
Prin. Invest. NASA Tech. Officer CASE Category
 W L GARRARD LARC/B J BACON 41-Aero Engr
 G BALAS

NAG 3-1332 Univ of Minnesota - Minneapolis-St Paul 5548
 ARC CATHODE ATTACHMENT STUDY
Period Obligations
 02/27/1992-05/08/1996 FY95: \$40,000 TOTAL: \$155,000
Prin. Invest. NASA Tech. Officer CASE Category
 J V HEBERLEIN LERC/C J SARMIENTO 46-Mech Engr
 HQ/F M CURRAN

NAG 1-1470 Univ of Minnesota - Minneapolis-St Paul 5541
 COMPUTATIONAL TECHNIQUES FOR FLOWS WITH FINITE- RATE
 CONDENSATION
Period Obligations
 12/17/1992-06/30/1994 FY95: TOTAL: \$36,700
Prin. Invest. NASA Tech. Officer CASE Category
 G V CANDLER LARC/L R HUNT 41-Aero Engr

NAG 3-1638 Univ of Minnesota - Minneapolis-St Paul 5549
 FILM COOLING WITH ANISOTROPIC DIFFUSION AND HOLE ENTRY
 EFFECTS: EXPERIMENTS AND COMPUTATION
Period Obligations
 07/01/1994-11/13/1996 FY95: \$108,006 TOTAL: \$148,171
Prin. Invest. NASA Tech. Officer CASE Category
 S V PATANKAR LERC/J R SCHWAB 41-Aero Engr
 T W SIMON

NAG 1-1498 Univ of Minnesota - Minneapolis-St Paul 5542
 COMPUTATIONAL METHODS FOR THE SIMULATION OF HYPER-
 SONIC RE-ENTRY FLOWS
Period Obligations
 05/25/1993-06/15/1996 FY95: \$60,979 TOTAL: \$158,634
Prin. Invest. NASA Tech. Officer CASE Category
 G V CANDLER LARC/K SUTTON 41-Aero Engr
 LARC/P A GNOFFO

NAG 3-1721 Univ of Minnesota - Minneapolis-St Paul 5550
 A NOVEL SOFT-SWITCHING DC-DC CONVERTER WITH ASYMMETRIC
 CYCLE CONTROL
Period Obligations
 03/27/1995-03/26/1996 FY95: \$59,124 TOTAL: \$59,124
Prin. Invest. NASA Tech. Officer CASE Category
 N MOHAN LERC/I G HANSEN 45-Elec Engr
 LERC/M E ROTH

NAG 1-1605 Univ of Minnesota - Minneapolis-St Paul 5543
 THE USE OF KIRCHHOFF'S METHOD IN JET AEROACOUSTICS
Period Obligations
 02/23/1994-09/15/1994 FY95: TOTAL: \$5,312
Prin. Invest. NASA Tech. Officer CASE Category
 A S LYRINTZIS LARC/K R MEADOWS 41-Aero Engr

NAG 3-1732 Univ of Minnesota - Minneapolis-St Paul 5551
 MEASUREMENTS IN TRANSITIONAL BOUNDARY LAYER UNDER
 LOW-PRESSURE TURBINE AIRFOIL CONDITIONS
Period Obligations
 04/01/1995-11/30/1995 FY95: \$43,000 TOTAL: \$43,000
Prin. Invest. NASA Tech. Officer CASE Category
 T W SIMON LERC/F F SIMON 46-Mech Engr

NAG 1-1736 Univ of Minnesota - Minneapolis-St Paul 5544
 NEW RESEARCH GRANT - TIME PLUS MONEY
Period Obligations
 07/10/1995-07/09/1996 FY95: \$49,167 TOTAL: \$49,167
Prin. Invest. NASA Tech. Officer CASE Category
 P J STRYKOWSKI LARC/D J WING 41-Aero Engr
 LARC/B L BERRIER

NAG 5-2108 Univ of Minnesota - Minneapolis-St Paul 5552
 DEVELOPMENT OF A GENERALIZED FRAMEWORK FOR IDENTIFYING
 AND STUDYING SCALE INVARIANT RELATIONSHIPS..
Period Obligations
 10/08/1992-10/14/1995 FY95: \$100,000 TOTAL: \$270,450
Prin. Invest. NASA Tech. Officer CASE Category
 E FOUFOULA-GEORGIU GSFC/R F CAHALAN 31-Atmos Sci

NAG 2-880 Univ of Minnesota - Minneapolis-St Paul 5545
 HIGH ENERGY DYNAMICS OF COMPLEX CHEMICAL PROCESSES
Period Obligations
 01/19/1994-10/31/1995 FY95: \$55,000 TOTAL: \$110,000
Prin. Invest. NASA Tech. Officer CASE Category
 D G TRUHLAR ARC/S R LANGHOFF 12-Chemistry

NAG 5-2581 Univ of Minnesota - Minneapolis-St Paul 5553
 ANOMALOUS A TYPE SUPERGIANTS IN THE MAGELLANIC CLOUDS
Period Obligations
 04/21/1994-04/30/1996 FY95: TOTAL: \$13,753
Prin. Invest. NASA Tech. Officer CASE Category
 R M HUMPHREYS GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
MINNESOTA (Continued)**

NAG 5-2698 Univ of Minnesota - Minneapolis-St Paul 5554
 ENHANCED ACCESS FOR FOREST MANAGEMENT PLANNING

<i>Period</i>	<i>Obligations</i>	
08/25/1994-12/31/1995	FY95: \$135,002	TOTAL: \$187,002
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T E BURK	GSFC/F HASLER	39-Env Sci, NEC

NAGW 2324 Univ of Minnesota - Minneapolis-St Paul 5562
 INFRARED PHOTOMETRY AND SPECTROSCOPY OF BRIGHT COMETS

<i>Period</i>	<i>Obligations</i>	
12/11/1990-05/31/1996	FY95: \$55,000	TOTAL: \$262,800
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R G GEHRZ	HQ/J H RAHE	11-Astronomy

NAG 5-2838 Univ of Minnesota - Minneapolis-St Paul 5555
 DATA ANALYSIS OF THE WAVES EXPERIMENT

<i>Period</i>	<i>Obligations</i>	
12/14/1994-12/14/1995	FY95: \$289,995	TOTAL: \$289,995
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P J KELLOGG	GSFC/M L KAISER	11-Astronomy

NAGW 2466 Univ of Minnesota - Minneapolis-St Paul 5563
 MASS SPECTROMETER DEVELOPMENT FOR MOLECULAR ELEMENTAL AND ISOTOPIC ANALYSIS AT THE SURFACE OF MARS

<i>Period</i>	<i>Obligations</i>	
06/13/1991-06/30/1994	FY95:	TOTAL: \$142,423
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K MAUERSBERGER	HQ/W L QUAIDE	19-Phys Sci, NEC

NAG 5-2980 Univ of Minnesota - Minneapolis-St Paul 5556
 UNCOVERING ULTRALUMINOUS GALAXIES IN THE IRAS FSC THROUGH RADIO AND OPTICAL IDEN

<i>Period</i>	<i>Obligations</i>	
06/27/1995-06/30/1996	FY95: \$25,457	TOTAL: \$25,457
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G S ALDERING	GSFC/D WEST	11-Astronomy

NAGW 2548 Univ of Minnesota - Minneapolis-St Paul 5564
 NAGW-2548/UNIV MINNESOTA/NUMERICAL SIMULATION OF COSMIC RAY ACCELERATION IN SHOCKS

<i>Period</i>	<i>Obligations</i>	
06/13/1991-02/28/1998	FY95: \$30,000	TOTAL: \$150,863
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T W JONES	HQ/W V JONES HQ/J C LING	13-Physics

NAG 9-60 Univ of Minnesota - Minneapolis-St Paul 5557
 RARE GAS STUDIES ON LUNAR MATERIALS

<i>Period</i>	<i>Obligations</i>	
02/01/1983-03/01/1994	FY95:	TOTAL: \$1,549,204
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R O PEPIN	JSC/I D BROWNE	19-Phys Sci, NEC

NAGW 2653 Univ of Minnesota - Minneapolis-St Paul 5565
 STUDY OF TIME-DEPENDENT MAGNETOSPHERE/IONOSPHERE COUPLING ON INTERMEDIATE AND SMALL SCALES

<i>Period</i>	<i>Obligations</i>	
07/15/1991-04/30/1997	FY95: \$66,981	TOTAL: \$291,612
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R L LYSAK	HQ/M M MELLOTT HQ/J D BOHLIN	11-Astronomy

NAG 9-449 Univ of Minnesota - Minneapolis-St Paul 5558
 FINITE ELEMENT METHODOLOGY OF DEVELOPING COMPRESSIBLE FLOWS

<i>Period</i>	<i>Obligations</i>	
08/01/1990-07/31/1996	FY95:	TOTAL: \$81,814
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T TEZDYUAR	JSC/C LI	29-Math/Computer, NEC

NAGW 2690 Univ of Minnesota - Minneapolis-St Paul 5566
 A THEORETICAL STUDY OF MACROSCOPIC COLLECTIVE ENTRY OF SOLAR WIND ENERGY AND MOMENTUM

<i>Period</i>	<i>Obligations</i>	
08/22/1991-05/31/1995	FY95: \$25,000	TOTAL: \$188,154
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R L LYSAK	HQ/M M MELLOTT HQ/J D BOHLIN	13-Physics

NAGW 800 Univ of Minnesota - Minneapolis-St Paul 5559
 KINETICS AND MECHANISMS OF STRATOSPHERIC CHLORINE RELEASE FROM CHLOROFLOUROMETHYL SPECIES

<i>Period</i>	<i>Obligations</i>	
09/01/1985-01/31/1996	FY95: \$93,441	TOTAL: \$925,251
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R W CARR	HQ/M J KURYLO HQ/R F HAMPSON	31-Atmos Sci

NAGW 3014 Univ of Minnesota - Minneapolis-St Paul 5567
 DETECTION AND INTERACTIONS OF ULTRA HEAVY NUCLEI AND COSMIC RAY PROPAGATION

<i>Period</i>	<i>Obligations</i>	
04/03/1992-02/28/1995	FY95:	TOTAL: \$165,717
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C J WADDINGTON	HQ/W V JONES HQ/J D BOHLIN	13-Physics

NAGW 1957 Univ of Minnesota - Minneapolis-St Paul 5560
 GEOPHYSICAL AND GEODYNAMICAL INVESTIGATIONS BASED ON LAGEO II SATELLITE DATA

<i>Period</i>	<i>Obligations</i>	
04/23/1990-09/30/1995	FY95: \$60,000	TOTAL: \$280,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D A YUEN	HQ/M BALTUCK	32-Geological Sci

NAGW 3102 Univ of Minnesota - Minneapolis-St Paul 5568
 PHYSICAL PROPERTIES OF PARTIALLY MOLTEN AMMONIA WATER ICE PERMEABILITY AND RHEOLOGY

<i>Period</i>	<i>Obligations</i>	
06/17/1992-03/31/1998	FY95: \$31,000	TOTAL: \$120,599
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D L KOHISTEDT	HQ/J M BOYCE	32-Geological Sci

NAGW 2004 Univ of Minnesota - Minneapolis-St Paul 5561
 STUDIES OF ULTRA HEAVY COSMIC RAY NUCLEI

<i>Period</i>	<i>Obligations</i>	
05/29/1990-11/30/1996	FY95: \$90,000	TOTAL: \$580,944
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C J WADDINGTON	HQ/W V JONES HQ/J C LING	13-Physics

NAGW 3189 Univ of Minnesota - Minneapolis-St Paul 5569
 NAGW-3189/UNIV MINNESOTA/RELATIVE ABUNDANCE AND STAR FORMATION HISTORIES OF DWARF GALAXIES

<i>Period</i>	<i>Obligations</i>	
08/19/1992-08/31/1996	FY95: \$193,546	TOTAL: \$360,748
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E D SKILLMAN	HQ/G R RIEGLER	11-Astronomy

**NASA'S UNIVERSITY PROGRAM
MINNESOTA (Continued)**

NAGW 3324 Univ of Minnesota - Minneapolis-St Paul 5570
THE CONDENSATE FRACTION IN SUPERFLUID HELIUM DROPL ETS

<i>Period</i>	<i>Obligations</i>	
01/13/1993-12/31/1996	FY95: \$90,000	TOTAL: \$270,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J W HALEY	HQ/C RAY	13-Physics

NAS 5-32454 Univ of Minnesota - Minneapolis-St Paul 5578
MAGNETIC MASS SPECTROMETERS

<i>Period</i>	<i>Obligations</i>	
03/04/1993-12/31/1996	FY95: \$155,000	TOTAL: \$802,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K MAUERSBERGER	GSFC/S BENNER	13-Physics

NAGW 3336 Univ of Minnesota - Minneapolis-St Paul 5571
RARE GAS AND NITROGEN STUDIES ON LUNAR, METEORITIC ,
AND SELECTED TERRESTRIAL MATERIALS

<i>Period</i>	<i>Obligations</i>	
01/13/1993-12/14/1995	FY95: \$137,744	TOTAL: \$321,705
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R O PEPIN	HQ/H C BRINTON	13-Physics

NAS 5-32670 Univ of Minnesota - Minneapolis-St Paul 5579
INCORPORATING THE APS CATALOG OF THE POSS I AND IMAGE
ARCHIVE IN ADS

<i>Period</i>	<i>Obligations</i>	
08/08/1994-09/08/1996	FY95: \$98,899	TOTAL: \$172,888
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R HUMPHREYS	GSFC/D WEST	42-Astro Engr

NAGW 3610 Univ of Minnesota - Minneapolis-St Paul 5572
ANOMALOUS ISOTOPIC ABUNDANCES IN EXTRATERRESTRIAL MAT

<i>Period</i>	<i>Obligations</i>	
05/21/1993-03/31/1996	FY95: \$48,271	TOTAL: \$147,403
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A NIER	HQ/J BOYCE	32-Geological Sci

NAS 5-32932 Univ of Minnesota - Minneapolis-St Paul 5580
CAP-SEALING UNIT

<i>Period</i>	<i>Obligations</i>	
09/19/1995-10/18/1995	FY95: \$48,750	TOTAL: \$48,750
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M MARSHAK	GSFC/S BENNER	42-Astro Engr

NAGW 3751 Univ of Minnesota - Minneapolis-St Paul 5573
AN EXPERIMENTAL STUDY OF ATMOSPHERIC HOMOGENEOUS N
UCLEATION

<i>Period</i>	<i>Obligations</i>	
09/23/1993-05/31/1996	FY95: \$71,098	TOTAL: \$159,738
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P M MCMURRY	HQ/J A KAYE HQ/A C JANETOS	31-Atmos Sci

NAS 5-33048 Univ of Minnesota - Minneapolis-St Paul 5581
RADIO AND PLASMA WAVE EXPERIMENT

<i>Period</i>	<i>Obligations</i>	
03/15/1990-04/30/1995	FY95: \$60,645	TOTAL: \$3,325,211
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P KELLOGG	GSFC/M L KAISER	42-Astro Engr
K GOETZ		

NAGW 4216 Univ of Minnesota - Minneapolis-St Paul 5574
STUDY OF HIGH TIME RESOLUTION ELECTRIC AND MAGNETIC
FIELDS

<i>Period</i>	<i>Obligations</i>	
11/17/1994-08/31/1996	FY95: \$88,900	TOTAL: \$88,900
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J R WYGANT	HQ/M M MELLOTT HQ/J D BOHLIN	13-Physics

NCC 2-809 Univ of Minnesota - Minneapolis-St Paul 5582
OPTIMAL TAKEOFF PROCEDURES FOR A CATEGORY A HELICO
PTERS

<i>Period</i>	<i>Obligations</i>	
07/08/1993-07/14/1996	FY95: \$15,000	TOTAL: \$130,127
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Y ZHAO	ARC/R T CHEN	41-Aero Engr

NAGW 4302 Univ of Minnesota - Minneapolis-St Paul 5575
ADVANCED DESIGN PROGRAM

<i>Period</i>	<i>Obligations</i>	
02/22/1995-07/31/1995	FY95: \$12,350	TOTAL: \$12,350
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A VANO	HQ/A S MCGEE HQ/G JOHNSTON	49-Engr, NEC

NCC 2-868 Univ of Minnesota - Minneapolis-St Paul 5583
STUDIES

<i>Period</i>	<i>Obligations</i>	
07/11/1994-06/14/1996	FY95: \$77,732	TOTAL: \$152,096
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Y ZHAO	ARC/R A SLATTERY ARC/V H CHENG	41-Aero Engr

NAGW 4794 Univ of Minnesota - Minneapolis-St Paul 5576
THERMOREGULATION AND HEAT EXCHANGE IN NONUNIFORM
THERMAL ENVIRONMENT DURING SIMULATED EXTENDED EVA

<i>Period</i>	<i>Obligations</i>	
09/22/1995-08/31/1998	FY95: \$251,704	TOTAL: \$251,704
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
V S KOSCHEYEV	HQ/J STOKLOSA	59-Life Sci, NEC

NCC 2-5017 Univ of Minnesota - Minneapolis-St Paul 5584
AEROACOUSTICS OF TURBULENT HIGH-SPEED JETS

<i>Period</i>	<i>Obligations</i>	
11/30/1993-12/31/1995	FY95: \$36,662	TOTAL: \$60,208
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T S LUNDGREN	ARC/N N MANSOUR	41-Aero Engr

NAS 5-31219 Univ of Minnesota - Minneapolis-St Paul 5577
SCIENTIFIC AND ENGINEERING SUPPORT FOR THE ULYSSES/ STO
INSTRUMENT

<i>Period</i>	<i>Obligations</i>	
06/06/1991-09/30/1995	FY95: \$100,000	TOTAL: \$1,217,200
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K GEOTZ	GSFC/B KLEIN	11-Astronomy
P KELLOGG	GSFC/R STONE	

NCC 2-5156 Univ of Minnesota - Minneapolis-St Paul 5585
LARGE SCALE TURBULENT STRUCTURE IN SUPERSONIC JETS

<i>Period</i>	<i>Obligations</i>	
08/23/1995-12/31/1996	FY95: \$33,955	TOTAL: \$33,955
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T S LUNDGREN	ARC/N N MANSOUR	41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
MINNESOTA (Continued)**

NCC 3-238 Univ of Minnesota - Minneapolis-St Paul 5586
COMPUTATION OF RADIATION HEAT TRANSFER IN AEROENGI NE
COMBUSTORS
Period *Obligations*
12/20/1991-07/17/1996 FY95: \$50,185 TOTAL: \$349,649
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S V PATANKAR LERC/H S LEE 41-Aero Engr

NGT 00-030-052 Univ of Minnesota - Minneapolis-St Paul 5587
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
09/09/1991-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J J MARTI HQ/D M BUTLER 31-Atmos Sci
K MAUERSBERGER HQ/G S WILSON

NGT 00-030-111 Univ of Minnesota - Minneapolis-St Paul 5588
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/30/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J WEBER HQ/G ASRAR 99-Multi-Discip
HQ/D M BUTLER

NGT 00-030-213 Univ of Minnesota - Minneapolis-St Paul 5589
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
08/26/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E F GEORGIU HQ/G ASRAR 39-Env Sci, NEC
HQ/D M BUTLER

NGT 00-030-320 Univ of Minnesota - Minneapolis-St Paul 5590
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
08/31/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M B DAVIS HQ/G ASRAR 39-Env Sci, NEC

NGT 00-040-027 Univ of Minnesota - Minneapolis-St Paul 5591
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period *Obligations*
04/03/1991-02/28/1998 FY95: \$205,000 TOTAL: \$938,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P W WEIBLER HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-050-421 Univ of Minnesota - Minneapolis-St Paul 5592
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/31/1989-08/31/1994 FY95: TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S BANERJEE HQ/F C OWENS 19-Phys Sci, NEC

NGT 00-050-785 Univ of Minnesota - Minneapolis-St Paul 5593
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
05/10/1991-12/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J V CARLIS HQ/F C OWENS 22-Computer Science
L BARNETT

NGT 00-050-830 Univ of Minnesota - Minneapolis-St Paul 5594
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/02/1991-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E P FENDER HQ/F C OWENS 46-Mech Engr
J HEBERLEIN

NGT 00-051-090 Univ of Minnesota - Minneapolis-St Paul 5595
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
05/17/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J W HALLEY HQ/B CARPENTER 13-Physics

NGT 00-051-169 Univ of Minnesota - Minneapolis-St Paul 5596
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/29/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A LYNNTZIS ARC/M MOORE 41-Aero Engr

NGT 00-051-296 Univ of Minnesota - Minneapolis-St Paul 5597
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/28/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D GEHRZ HQ/D HOLLAND 11-Astronomy

NGT 00-051-334 Univ of Minnesota - Minneapolis-St Paul 5598
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/08/1994-09/14/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E D SKILLMAN HQ/D HOLLAND 11-Astronomy

NGT 00-051-359 Univ of Minnesota - Minneapolis-St Paul 5599
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/22/1994-06/30/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J W HALLEY HQ/G A LESANE 13-Physics

NGT 5-8 Univ of Minnesota - Minneapolis-St Paul 5600
A SYSTEMATIC STUDY OF X-RAY SYNCHROTRON RADIATION FROM
SHELL TYPE SUPERNOVA REMNANTS
Period *Obligations*
06/26/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L RUDNICK GSFC/G A SOFFEN 11-Astronomy
GSFC/R PETRE

NSG-1431 Univ of Minnesota - Minneapolis-St Paul 5601
NEUTRAL CONSTITUENT MEASUREMENTS IN THE STRATOSPHERE
Period *Obligations*
06/23/1977-09/30/1995 FY95: TOTAL: \$2,643,191
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K MAUERSBERGER LARC/A G BESWICK 31-Atmos Sci
A O NIER

**NASA'S UNIVERSITY PROGRAM
MISSISSIPPI**

MISSISSIPPI

NAG 1-1125 Jackson State University 5604
 END-EFFECTOR-JOINT CONJUGATES FOR ROBOTIC ASSEMBLY OF
 LARGE TRUSS STRUCTURES IN SPACE: SECOND GENERA
Period Obligations
 05/01/1990-12/31/1993 FY95: TOTAL: \$172,114
Prin. Invest. NASA Tech. Officer CASE Category
 W V BREWER LARC/M D RHODES 46-Mech Engr
 E P RASIS LARC/R W WILL
 H R SHIH

NAGW 4092 Jackson State University 5605
 PRE-ENGINEERING (9TH GRADE) MINORITY TRAINING SUMM ER
 PROGRAM
Period Obligations
 07/28/1994-02/28/1996 FY95: \$56,515 TOTAL: \$90,002
Prin. Invest. NASA Tech. Officer CASE Category
 A K MOHAMED HQ/B L WHITE 49-Engr, NEC

NAGW 4487 Jackson State University 5606
 PRE COLLEGE AWARDS FOR EXCELLENCE IN MATHEMATICS S
 ICENCE ENGINEERING AND TECHNOLOGY
Period Obligations
 05/10/1995-05/31/1996 FY95: \$99,985 TOTAL: \$99,985
Prin. Invest. NASA Tech. Officer CASE Category
 A MOHAMED HQ/B L WHITE 99-Multi-Discip

NAG13-32 Jackson State University 5607
 REMOTELY SENSED SPATIAL DATA AND PROPULSION DATA
Period Obligations
 12/22/1994-12/31/1995 FY95: \$74,673 TOTAL: \$74,673
Prin. Invest. NASA Tech. Officer CASE Category
 W G BROWN SSC/A T JOYCE 22-Computer Science

NGT 00-030-273 Jackson State University 5608
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/10/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 B LUCAS HQ/E LUCIER 22-Computer Science
 HQ/G ASRAR

NGT 00-090-034 Jackson State University 5609
 YOUNG SCIENTIST PROGRAM
Period Obligations
 09/25/1990-06/30/1995 FY95: TOTAL: \$428,457
Prin. Invest. NASA Tech. Officer CASE Category
 R SULLIVAN HQ/M MARGOLIS 99-Multi-Discip
 W LUPTON

NAG 1-1369 Mississippi State University 5610
 AERODYNAMIC CALCULATIONS FOR SHOCK NOISE PREDICTION
Period Obligations
 01/15/1992-07/09/1994 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 D L WHITFIELD LARC/J W POSEY 41-Aero Engr
 LARC/F FARASSAT

NAG 1-1571 Mississippi State University 5611
 WING DESIGN FOR A CIVIL TILTROTOR TRANSPORT AIRCRAFT
Period Obligations
 01/25/1994-01/24/1996 FY95: \$35,837 TOTAL: \$61,292
Prin. Invest. NASA Tech. Officer CASE Category
 M RAIS-ROHANI LARC/D J BAKER 41-Aero Engr
 LARC/J H STARNES

NAG 1-1716 Mississippi State University 5612
 MANUFACTURING AND COST CONSIDERATIONS IN
 MULTIDISCIPLINARY AIRCRAFT DESIGN
Period Obligations
 04/05/1995-05/15/1996 FY95: \$47,635 TOTAL: \$47,635
Prin. Invest. NASA Tech. Officer CASE Category
 M RAIS-ROHANI LARC/E B DEAN 41-Aero Engr

NAG 2-824 Mississippi State University 5613
 GRID GENERATION FIELD INTERPRETATION AND FIELD SOLUT ION
 IN A TIGHTLY INTEGRATED DISTRIBUTED ...
Period Obligations
 02/26/1993-02/28/1995 FY95: TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
 M L STOKES ARC/T A LASINSKI 22-Computer Science
 ARC/LEVIT

NAG 3-767 Mississippi State University 5614
 3-D UNSTEADY EULER SOLUTIONS FOR INTERACTING BLADE
 ROWS
Period Obligations
 12/08/1986-12/16/1994 FY95: TOTAL: \$387,034
Prin. Invest. NASA Tech. Officer CASE Category
 D L WHITFIELD LERC/D HOYNIK 41-Aero Engr
 LERC/D L HUFF

NAG 3-869 Mississippi State University 5615
 COMPUTATION OF ROTOR STATOR INTERACTION USING THE
 NAVIER-STOKES EQUATIONS
Period Obligations
 01/20/1988-02/27/1995 FY95: TOTAL: \$473,364
Prin. Invest. NASA Tech. Officer CASE Category
 D WHITFIELD LERC/J M SANZ 41-Aero Engr

NAG 3-983 Mississippi State University 5616
 COMPUTATIONAL FLUID DYNAMICS FOR AEROLASTIC ANALYS IS
Period Obligations
 01/17/1989-01/09/1995 FY95: TOTAL: \$282,767
Prin. Invest. NASA Tech. Officer CASE Category
 D L WHITFIELD LERC/G L STEFKO 41-Aero Engr
 T SWAFFORD LERC/L J KIRALY

NAG 3-1228 Mississippi State University 5617
 INTERACTIVE GRID SYSTEMS FOR TURBOMACHINERY APPLIC
 ATION
Period Obligations
 12/12/1990-01/30/1995 FY95: TOTAL: \$193,896
Prin. Invest. NASA Tech. Officer CASE Category
 J M JANUS LERC/D L HUFF 41-Aero Engr
 B K SONI

NAG 3-1357 Mississippi State University 5618
 NUMERICAL SIMULATION OF VISCOUS INCOMPRESSIBLE FLOW IN
 PUMPS AND IMPELLERS
Period Obligations
 10/06/1992-01/11/1996 FY95: TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
 D L WHITFIELD LERC/J P VERES 41-Aero Engr

NASA'S UNIVERSITY PROGRAM
MISSISSIPPI (Continued)

NAG 3-1699 **Mississippi State University** **5619**
 COMPUTATIONAL FLUID DYNAMICS OF ROTATING MACHINERY USING TRUBO
Period *Obligations*
 01/23/1995-01/22/1996 FY95: \$150,000 TOTAL: \$150,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M JANUS LERC/D L HUFF 41-Aero Engr
 D WHITFIELD
 T M SWAFFORD

NAG 3-1712 **Mississippi State University** **5620**
 COMPUTATIONS OF ROTOR-STATOR INTERACTIONS USING THE NAVIEER-STOKES EQUATION
Period *Obligations*
 02/21/1995-11/27/1995 FY95: \$80,000 TOTAL: \$80,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D L WHITFIELD LERC/E R MCFARLAND 41-Aero Engr

NAG 5-2006 **Mississippi State University** **5621**
 AN INVESTIGATION OF ERROR CHARACTERISTICS AND CODE PERFORMANCE
Period *Obligations*
 07/01/1992-06/30/1996 FY95: TOTAL: \$138,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W J EBEL GSFC/W H MILLER 49-Engr, NEC
 F M INGELS GSFC/R M MULLER

NAG 8-936 **Mississippi State University** **5622**
 R/S CARBON COMPOSITE MATERIALS TEST
Period *Obligations*
 09/17/1992-09/30/1994 FY95: TOTAL: \$198,093
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W B HALL MSFC/C G UPTON 43-Chem Engr
 MSFC/M L STUCKER

NAG 8-965 **Mississippi State University** **5623**
 PROTEIN RESEARCH
Period *Obligations*
 06/15/1993-06/30/1996 FY95: \$110,000 TOTAL: \$330,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W WILSON MSFC/D CARTER 19-Phys Sci, NEC

NAG 8-1012 **Mississippi State University** **5624**
 INVESTIGATION OF TEMPORAL DECOMPOSITION IN PAYLOAD EXPERIMENT SCHEDULING
Period *Obligations*
 09/14/1993-06/30/1994 FY95: TOTAL: \$17,875
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S BALLINGTON MSFC/B GUYNES 29-Math/Computer, NEC

NAG 8-1022 **Mississippi State University** **5625**
 AN ANALYSIS OF BASE GAMMA-RAY BURST TIME PROFILES
Period *Obligations*
 02/11/1994-04/11/1995 FY95: TOTAL: \$28,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P LESTRADE MSFC/G J FISHMAN 31-Atmos Sci

NAG 8-1158 **Mississippi State University** **5626**
 FUNDING PREDICTION PROTEIN CRYSTALLIZATION
Period *Obligations*
 07/21/1995-08/15/1996 FY95: \$83,000 TOTAL: \$83,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W W WILSON MSFC/D C CARTER 19-Phys Sci, NEC
 MSFC/T Y MILLER

NAS 3-23901 **Mississippi State University** **5627**
 SCIENTIFIC SUPPORT FOR AN ORBITER EXPERIMENT ON SOLID SURFACE COMBUSTION
Period *Obligations*
 12/19/1984-12/16/1996 FY95: \$84,257 TOTAL: \$1,057,895
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R A ALTENKIRCH LERC/K R SACKSTEDER 49-Engr, NEC

NAS 8-38857 **Mississippi State University** **5628**
 CAG I COMPUTER AIDED INTERFACE
Period *Obligations*
 05/16/1991-05/15/1996 FY95: TOTAL: \$349,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B K SONI MSFC/G A WILHOLD 29-Math/Computer, NEC
 MSFC/T G BENJAMIN

NCC 3-221 **Mississippi State University** **5629**
 LOW-VELOCITY, OPPOSED-FLOW FLAME SPREAD IN A TRANSPORT-CONTROLLED, MICROGRAVITY ENVIRONMENT
Period *Obligations*
 06/19/1991-06/22/1996 FY95: \$109,101 TOTAL: \$446,082
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R A ALTENKIRCH LERC/J A SALZMAN 19-Phys Sci, NEC
 S BHATTA CHARJEE LERC/H D ROSS

NCC 3-354 **Mississippi State University** **5630**
 REFLIGHT OF THE SOLID SURFACE COMBUSTION EXPERIMENT WITH EMPHASIS ON FLAME RADIATION NEAR EXTINCTION
Period *Obligations*
 07/12/1994-01/10/1996 FY95: \$95,424 TOTAL: \$136,209
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R A ALTENKIRCH LERC/K R SACKSTEDER 49-Engr, NEC

NCC 8-82 **Mississippi State University** **5631**
 ANALYSIS OF GAMMA RAY BURST TIME PROFILES
Period *Obligations*
 07/27/1995-07/26/1996 FY95: \$13,320 TOTAL: \$13,320
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J P LESTRADE MSFC/C A MEEGAN 11-Astronomy
 MSFC/G J FISHMAN

NGT 00-010-011 **Mississippi State University** **5632**
 MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP PROGRAM
Period *Obligations*
 10/04/1993-06/30/1994 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J C MCWHORTER HQ/G S SEIDEL 41-Aero Engr
 HQ/J R FACEY

NGT 00-050-694 **Mississippi State University** **5633**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 05/07/1991-09/07/1995 FY95: TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K KOENIG HQ/F C OWENS 42-Astro Engr

NGT 00-050-950 **Mississippi State University** **5634**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/04/1992-08/15/1996 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W G STEELE HQ/D GLASCO 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
MISSISSIPPI (Continued)**

NGT 00-070-367 Mississippi State University 5635
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 11/23/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D MARCUM HQ/D K RUSSELL 46-Mech Engr

NAG 3-1642 University of Mississippi - University 5643
 FLOW FEATURE EXTRACTION FROM STEROSCOPIC PARTICLE
 TRACKING VELOCIMETRY DATA
Period *Obligations*
 07/11/1994-09/30/1995 FY95: TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S SINHA LERC/M BETHEA 46-Mech Engr

NAG 8-225 Mississippi Valley State Univ. 5636
 JOVE
Period *Obligations*
 02/05/1992-10/04/1994 FY95: TOTAL: \$64,087
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R WILLIAMS MSFC/F SIX 22-Computer Science

NAGW 4458 University of Mississippi - University 5644
 EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE
 RESEARCH
Period *Obligations*
 05/10/1995-06/30/1997 FY95: \$149,999 TOTAL: \$149,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M R DINGERSON HQ/A S MCGEE 49-Engr, NEC
 HQ/E T SCHWARTZ

NAGW 4152 Tougaloo College 5637
 NASA SUMMER INTERN PILOT PROGRAM
Period *Obligations*
 05/09/1995-03/31/1996 FY95: \$51,879 TOTAL: \$51,879
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G V BRUNO HQ/G A LASANE 12-Chemistry

NAS 8-39745 University of Mississippi - University 5645
 ULTASONIC NDE SCANS OF BODIES OF ARBITRARY SHAPE
Period *Obligations*
 06/21/1993-03/31/1995 FY95: TOTAL: \$41,268
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R HICKLING MSFC/M W SUITS 45-Elec Engr
 MSFC/D BROWN

NAG 2-786 University of Mississippi - Medical Center 5638
 OTOLITH-CANAL CONVERGENCE IN VESTIBULAR NUCLEI NEU
 RONS
Period *Obligations*
 06/05/1992-03/31/1996 FY95: TOTAL: \$173,555
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J D DICKMAN ARC/M L CORCORAN 51-Biological Sci
 ARC/C E WADE

NGT 00-040-028 University of Mississippi - University 5646
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period *Obligations*
 05/21/1991-02/28/1996 FY95: \$205,000 TOTAL: \$972,950
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M R DINGERSON HQ/E T SCHWARTZ 99-Multi-Discip

NAGW 4377 University of Mississippi - Medical Center 5639
 ADAPTIVE VISUAL-VESTIBULAR MECHANISMS AND GRAVITY
Period *Obligations*
 03/31/1995-02/14/1998 FY95: \$126,545 TOTAL: \$126,545
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D E ANGELAKI HQ/F SULZMAN 59-Life Sci, NEC

NGT 00-070-401 University of Mississippi - University 5647
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 09/29/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M T HARMANN HQ/D K RUSSELL 19-Phys Sci, NEC

NAGW 4507 University of Mississippi - Medical Center 5640
 OTOLITH CANAL CONVERGENCE IN VESTIBULAR NUCLEI NEU
 RONS
Period *Obligations*
 05/19/1995-04/30/1998 FY95: \$59,990 TOTAL: \$59,990
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J I DICKMAN HQ/T K SCOTT 59-Life Sci, NEC

NAG 8-973 University of Southern Mississippi 5648
 POLYMERIZATION IN MICROGRAVITY
Period *Obligations*
 06/09/1993-06/14/1996 FY95: \$100,000 TOTAL: \$300,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L J MATHIAS MSFC/J P DOWNEY 19-Phys Sci, NEC

NCC 2-863 University of Mississippi - Medical Center 5641
 EFFECTS OF GRAVITY ON ATTACHMENT OF TENDON TO BONE
Period *Obligations*
 06/21/1994-05/31/1996 FY95: \$21,327 TOTAL: \$86,443
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R B JOHNSON ARC/D A REISS-BUBENHEIM 51-Biological Sci
 L D ZARDIACKAS ARC/C M WINGET

NAG13-28 University of Southern Mississippi 5649
 EVALUATION OF POLYMER DISPERSED LIQUID CRYSTAL DEVICES
Period *Obligations*
 12/17/1993-12/16/1995 FY95: \$74,451 TOTAL: \$149,024
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 WHITEHEAD SSC/THURMAN 19-Phys Sci, NEC
 SSC/JOYCE

NAG 1-1460 University of Mississippi - University 5642
 RESEARCH IN ATMOSPHERIC ACOUSTICS
Period *Obligations*
 12/18/1992-02/29/1996 FY95: \$25,000 TOTAL: \$198,790
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H E BASS LARC/W L WILLSHIRE 13-Physics
 R RASPET LARC/G L MCANINCH

NGT 00-051-261 University of Southern Mississippi 5650
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L J MATHIAS HQ/G LESANE 43-Chem Engr

**NASA'S UNIVERSITY PROGRAM
MISSISSIPPI (Continued)**

NGT 00-060-003 University of Southern Mississippi 5651
 SUMMER FACULTY FELLOWSHIP PROGRAM
Period *Obligations*
 05/14/1990-01/31/1996 FY95: TOTAL: \$759,609
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J E MILLER HQ/A S MCGEE 49-Engr, NEC
 HQ/E T SCHWARTZ

NCC 3-330 Saint Louis University 5659
 THIN FILM SOLID LUBRICANT DEVELOPMENT
Period *Obligations*
 12/17/1993-04/18/1996 FY95: \$30,000 TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P A BENOY LERC/C DELLACORTE 47-Materials Engr

NGT 00-070-394 University of Southern Mississippi 5652
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 08/30/1994-06/30/1997 FY95: \$44,000 TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G H RAYBORN HQ/D K RUSSELL 22-Computer Science

NGT 00-051-145 Saint Louis University 5660
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/28/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N C PARTRIDGE HQ/R WHITE 56-Medical Sciences

NGT 8-52807 University of Southern Mississippi 5653
 GRADUATE STUDENT RESCH PROGRAM
Period *Obligations*
 08/23/1995-07/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J KOLIBAL MSFC/F SIX 22-Computer Science
 MSFC/S COTHREN

NGT 5-10 Saint Louis University 5661
 EVALUATION OF MODEL SIMULATED REFLECTIVITY USING RADAR
 ANALYSIS OF TOGA CONVECTIVE SYSTEMS
Period *Obligations*
 06/26/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R PASKEN GSFC/G A SOFFEN 39-Env Sci, NEC
 GSFC/W TAO

NGT 8-52810 University of Southern Mississippi 5654
 RESEARCH
Period *Obligations*
 09/07/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D Y LOCHHEAD MSFC/F SIX 99-Multi-Discip

NAG 8-993 Southeast Missouri State University 5662
 JOVE
Period *Obligations*
 11/26/1993-05/31/1996 FY95: \$36,842 TOTAL: \$115,251
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D PROBET MSFC/F SIX 54-Env Biology
 G CWICK
 J GONG

MISSOURI

NAG 2-454 Saint Louis University 5655
 SKELETAL COLLAGEN TURNOVER BY THE OSTEOBLAST
Period *Obligations*
 03/01/1987-12/31/1994 FY95: TOTAL: \$489,668
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N C PARTRIDGE ARC/E M HOLTON 51-Biological Sci
 ARC

NAG 3-1420 University of Missouri - Columbia 5663
 CROSS EFFECTS IN MICROGRAVITY FLOWS
Period *Obligations*
 01/08/1993-12/31/1995 FY95: \$90,000 TOTAL: \$270,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S K LOYALKA LERC/W M DUVAL 47-Materials Engr

NAG 2-888 Saint Louis University 5656
 EFFECT OF MICROGRAVITY ON OSTEOBLASTIC GENE EXPRES
 SION
Period *Obligations*
 03/22/1994-12/31/1995 FY95: TOTAL: \$79,697
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N C PARTRIDGE ARC/E M HOLTON 51-Biological Sci

NAG 3-1477 University of Missouri - Columbia 5664
 USING CONCURRENT, MULTI-LEVEL SUBSTRUCTURING THECH
 IQUES TO PERF FIN ELEMENT BASED ANALY OF LG SC MO
Period *Obligations*
 04/22/1993-06/12/1996 FY95: \$29,976 TOTAL: \$94,459
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G D GUTE LERC/S S PAI 49-Engr, NEC
 LERC/D A HOPKINS

NAGW 4549 Saint Louis University 5657
 SKELETAL COLLAGEN TURNOVER BY THE OSTEOBLAST
Period *Obligations*
 07/18/1995-02/28/1998 FY95: \$104,487 TOTAL: \$104,487
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N I PATRIDGE HQ/T K SCOTT 59-Life Sci, NEC

NAG 3-1581 University of Missouri - Columbia 5665
 GUIDANCE, NAVIGATION, AND CONTROL STUDY FOR A SOLA R
 ELECTRIC PROPULSION SPACECRAFT
Period *Obligations*
 03/17/1994-03/16/1995 FY95: TOTAL: \$10,295
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A KLUEVER LERC/J M HICKMAN 42-Astro Engr

NCC 2-884 Saint Louis University 5658
 EFFECT OF MICROGRAVITY ON BONE DEVELOPMENT
Period *Obligations*
 02/08/1995-12/31/1996 FY95: \$206,766 TOTAL: \$206,766
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N C PARTRIDGE ARC/D A REISS-BUBENHEIM 51-Biological Sci
 ARC/C M WINGET

NAG 3-1650 University of Missouri - Columbia 5666
 OPTIMAL LUNAR AND COMETARY RENDEVOUS TRAJECTORIES FOR
 A SOLAR ELECTRIC PROPULSION SPACECRAFT
Period *Obligations*
 07/13/1994-07/12/1995 FY95: TOTAL: \$9,016
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C A KLUEVER LERC/J M HICKMAN 42-Astro Engr

**NASA'S UNIVERSITY PROGRAM
MISSOURI (Continued)**

NAG 3-1731 University of Missouri - Columbia 5667
 TRAJECTORY OPTIMIZATION OF AN INTERSTELLAR MISSION USING SOLAR ELECTRIC PROPULSION
Period Obligations
 04/10/1995-04/09/1996 FY95: \$17,890 TOTAL: \$17,890
Prin. Invest. NASA Tech. Officer CASE Category
 C KLUEVEN LERC/J M HICKMAN 42-Astro Engr

NCC 2-823 University of Missouri - Columbia 5675
 CONTROL AND HEAT REJECTION ISSUES FOR PORTABLE LIFE SUPPORT SYSTEMS
Period Obligations
 08/23/1993-09/30/1995 FY95: \$79,952 TOTAL: \$149,952
Prin. Invest. NASA Tech. Officer CASE Category
 S S NAIR ARC/B W WEBBON 49-Engr, NEC
 J B MILES ARC/R N BRETOI

NAG 5-2425 University of Missouri - Columbia 5668
 STRAIN ACCUMULATION MONITORING IN THE NEW MADRID S EISMIC ZONE USING THE GLOBAL POSITIONING SYSTEM
Period Obligations
 11/10/1993-01/14/1995 FY95: TOTAL: \$23,726
Prin. Invest. NASA Tech. Officer CASE Category
 J ENGEL GSFC/B G BILLS 32-Geological Sci

NCC 2-903 University of Missouri - Columbia 5676
 COMPUTER MODELING OF LITHIUM/POLYMER ELECTROLYTES
Period Obligations
 05/24/1995-04/30/1996 FY95: \$33,000 TOTAL: \$33,000
Prin. Invest. NASA Tech. Officer CASE Category
 G D SMITH ARC/S R LANGHOFF 12-Chemistry

NAG 5-2573 University of Missouri - Columbia 5669
 AUTOMATIC ANALYSIS OF CLOUD WINDS FROM STEREO CLOUD HEIGHTS AND CLOUD MOTIONS USING ROBUST. . . .
Period Obligations
 04/29/1994-01/31/1996 FY95: \$100,172 TOTAL: \$151,172
Prin. Invest. NASA Tech. Officer CASE Category
 X ZHUANG GSFC/A F HASLER 31-Atmos Sci

NGT 3-52303 University of Missouri-Kansas City 5689
 GRADUATE STUDENT RESEARCH PROGRAM - HPCC
Period Obligations
 07/20/1995-07/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 G D GUTE LERC/L SHAW 46-Mech Engr

NAG 9-711 University of Missouri - Columbia 5670
 JOINT CORRELATION SURGICAL LASER POINTING
Period Obligations
 07/30/1993-04/01/1996 FY95: TOTAL: \$17,827
Prin. Invest. NASA Tech. Officer CASE Category
 J KNAPP JSC/R JUDAY 56-Medical Sciences

NAG 1-1189 University of Missouri - Rolla 5677
 ANALYTICAL AND COMPUTATIONAL INVESTIGATION OF SUPERSONIC COMBUSTOR FLOW FIELDS
Period Obligations
 09/26/1990-09/24/1996 FY95: \$80,000 TOTAL: \$355,207
Prin. Invest. NASA Tech. Officer CASE Category
 D W RIGGINS LARC/C R MCCLINTON 41-Aero Engr
 LARC/S H STACK

NAGW 3302 University of Missouri - Columbia 5671
 STRESSES AND STRAINS WITHIN THE STABLE NORTH AMERICAN PLATE
Period Obligations
 01/06/1993-06/30/1996 FY95: \$38,881 TOTAL: \$95,441
Prin. Invest. NASA Tech. Officer CASE Category
 J F ENGEH HQ/M BALDUCK 32-Geological Sci

NAG 1-1482 University of Missouri - Rolla 5678
 ANALYSIS OF UNSTEADY PRESSURE DISTRIBUTIONS AROUND AEROELASTIC WING MODELS IN TRANSONIC FLOW
Period Obligations
 02/05/1993-05/31/1995 FY95: TOTAL: \$47,423
Prin. Invest. NASA Tech. Officer CASE Category
 F FINAISH LARC/R M BENNETT 41-Aero Engr
 LARC/W A SILVA

NAGW 3864 University of Missouri - Columbia 5672
 NAGW-3864/UNIV MISSOURI/ANALYSIS OF ICE SHEET ALTIMETRY DATA
Period Obligations
 02/02/1994-12/31/1995 FY95: \$109,482 TOTAL: \$217,345
Prin. Invest. NASA Tech. Officer CASE Category
 C DAVIS HQ/R H THOMAS 39-Env Sci, NEC
 HQ/J S THEON

NAG 1-1632 University of Missouri - Rolla 5679
 PARTICULATE CHARACTERIZATION OF COMMERCIAL JET ENGINE EMISSIONS AT CRUISE
Period Obligations
 07/06/1994-07/05/1996 FY95: \$100,100 TOTAL: \$130,360
Prin. Invest. NASA Tech. Officer CASE Category
 D E HAGEN LARC/W R COFER 31-Atmos Sci
 LARC/W L GROSE

NAGW 3910 University of Missouri - Columbia 5673
 NAGW-3910/B UNIV. OF MISSOURI COLUMBIA 12-MONTH AWARD
Period Obligations
 03/28/1994-01/14/1996 FY95: \$85,006 TOTAL: \$135,006
Prin. Invest. NASA Tech. Officer CASE Category
 T JONES HQ/T W HALSTEAD 61-Biol Aspects

NAG 1-1728 University of Missouri - Rolla 5680
 HYPERSONIC VEHICLE TRAJECTORY OPTIMIZATION AND CONTROL
Period Obligations
 05/23/1995-05/31/1996 FY95: \$30,895 TOTAL: \$30,895
Prin. Invest. NASA Tech. Officer CASE Category
 S N BALKRISHNAN LARC/J R PEGG 41-Aero Engr

NAGW 4698 University of Missouri - Columbia 5674
 INTELLIGENT VISUALIZATION FOR EARTH SCIENCE DATASETS USING NOVEL DATA STRUCTURES AND DATA COMPRESSION
Period Obligations
 09/05/1995-07/31/1998 FY95: \$155,000 TOTAL: \$155,000
Prin. Invest. NASA Tech. Officer CASE Category
 X ZHAUNG HQ/G ASRAR 29-Math/Computer, NEC

NAG 3-1678 University of Missouri - Rolla 5681
 DEVELOPMENT OF THE TURBOFAN ACCOUSTIC RADIATION COEFFICIENT: VALIDATION OF THE AFT RADIATING CODE IMPROVEMENT
Period Obligations
 12/06/1994-12/05/1995 FY95: \$93,056 TOTAL: \$93,056
Prin. Invest. NASA Tech. Officer CASE Category
 W EVERSON LERC/D L HUFF 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
MISSOURI (Continued)**

NAG 8-898 University of Missouri - Rolla 5682
KINETICS OF PHASE TRANSFORMATIONS IN GLASS FORMING SYSTEM
Period *Obligations*
11/14/1992-11/14/1994 FY95: TOTAL: \$153,147
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C S RAY MSFC/E C ETHRIDGE 12-Chemistry

NAGW 2846 University of Missouri - Rolla 5683
ADVANCED PHOTONIC MATERIALS PRODUCED BY CONTAINERLESS PROCESSING
Period *Obligations*
01/24/1992-11/30/1995 FY95: \$60,000 TOTAL: \$300,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D E DAY HQ/B M CARPENTER 13-Physics
C S CHANDRA

NCC 3-343 University of Missouri - Rolla 5684
PARTICULATE EMISSIONS CHARACTERIZATION FOR HSCT RELATED TESTSON: FLAME TUBE, ANNULAR SECTOR COMBUSTOR
Period *Obligations*
04/25/1994-06/18/1996 FY95: \$190,000 TOTAL: \$518,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P WHITFIELD LERC/R W NIEDZWIECKI 19-Phys Sci, NEC
D HAGEN LERC/K P KUNDU
H LILLENFELD

NGT 00-051-338 University of Missouri - Rolla 5685
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
09/21/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D RIGGINS LARC/C MCCLINTON 41-Aero Engr

NAG 1-1656 University of Missouri - Saint Louis 5686
COMPUTER-AIDED POLYMER DESIGN FOR NASA'S HIGH-SPEED CIVILIAN TRANSPORT
Period *Obligations*
11/18/1994-11/17/1995 FY95: \$63,500 TOTAL: \$63,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W J WELSH LARC/J A HINKLEY 12-Chemistry
LARC/T S GATES

NAG 9-847 University of Missouri - Saint Louis 5687
INTEGRATION OF GENETIC PROGRAMMING PROBLEM CONSTRAINT
Period *Obligations*
09/18/1995-05/31/1996 FY95: \$17,000 TOTAL: \$17,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C Z JANIKOW JSC/D G SICKOREZ 22-Computer Science

NAGW 2474 University of Missouri - Saint Louis 5688
METHANE ABSORPTION SPECTROSCOPY
Period *Obligations*
05/23/1991-11/30/1995 FY95: TOTAL: \$192,848
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J O'BRIEN HQ/J BERGSTRALH 11-Astronomy

NAG 1-1174 Washington University 5690
ANALYSIS OF LDEF EXPERIMENT A0187-2: CHEMICAL AND ISOTOPIC MEASUREMENTS OF MICROMETEORIDS BY 2ND
Period *Obligations*
08/14/1990-08/14/1994 FY95: TOTAL: \$547,963
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E ZINNER LARC/L A TEICHMAN 47-Materials Engr
R M WALKER LARC/J L JONES

NAG 1-1373 Washington University 5691
INTERGRATION OF DYNAMIC, AERODYNAMIC AND STRUCTURAL OPTIMIZATION OF HELICOPTER ROTOR BLADES
Period *Obligations*
01/24/1992-07/23/1994 FY95: TOTAL: \$147,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D A PETERS LARC/H M ADELMAN 41-Aero Engr
LARC/J I PRITCHARD

NAG 2-728 Washington University 5692
DEVELOPMENT OF AN UNSTEADY WAKE THEORY APPROPRIATE FOR AEROELASTIC ANALYSES OF ROTORS IN HOVER ...
Period *Obligations*
08/21/1991-08/31/1994 FY95: TOTAL: \$220,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D A PETERS ARC/R A ORMISTON 41-Aero Engr

NAG 2-865 Washington University 5693
INFLUENCE OF HIGH PRESSURE HYDROGEN ENVIRONMENT ON CREEP DEFORMATION OF MO-RE, HAYNES 188, AND
Period *Obligations*
08/10/1993-08/31/1996 FY95: TOTAL: \$162,641
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S M SASTRY ARC/H G NELSON 47-Materials Engr

NAG 2-945 Washington University 5694
CHRONIC RECORDING OF OTOLITH NERVES IN MICROGRAVITY
Period *Obligations*
12/16/1994-11/30/1995 FY95: \$139,240 TOTAL: \$139,240
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S M HIGHSTEIN ARC/W E HINDS 51-Biological Sci
ARC/C M WINGET

NAG 5-2246 Washington University 5695
MARS OBSERVER LASER ALTIMETER
Period *Obligations*
04/30/1993-06/30/1994 FY95: TOTAL: \$59,740
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J PHILLIPS GSFC/D E SMITH 39-Env Sci, NEC

NAG 5-2862 Washington University 5696
HYDRODYNAMICS OF GAMMA-RAY BURSTS
Period *Obligations*
01/18/1995-01/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J I KATZ GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2982 Washington University 5697
CHANGES ASSOCIATED WITH LEVEE BREAK LANDFORMS AND DEPOSITS FROM THE 1993 MISSOURI RIVER FLOOD
Period *Obligations*
06/28/1995-06/30/1996 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E ARVIDSON GSFC/H V FREY 19-Phys Sci, NEC

NAG 8-873 Washington University 5698
KINETICS OF PHASE TRANSFORMATION IN GLASS FORMING SYSTEMS
Period *Obligations*
04/10/1991-10/15/1994 FY95: TOTAL: \$176,758
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K F KELTON MSFC/E C ETHRIDGE 13-Physics
C S RAY

**NASA'S UNIVERSITY PROGRAM
MISSOURI (Continued)**

NAG 9-622 Washington University 5699
 SOLUTION OF ELASTIC PLASTIC STRESS ANALYSIS PROBLEMS BY P-VERSION OF FINITE ELEMENT METHOD
Period Obligations
 09/03/1992-10/01/1995 FY95: \$15,000 TOTAL: \$153,816
Prin. Invest. NASA Tech. Officer CASE Category
 B SZABO JSC/J J MCMAHON 46-Mech Engr

NAGW 2861 Washington University 5707
 CHEMICAL MODELS OF THE PRESENT AND PRIMORDIAL ATMOSPHERES OF THE GAS GIANT PLANETS
Period Obligations
 01/31/1992-12/31/1995 FY95: \$59,914 TOTAL: \$219,019
Prin. Invest. NASA Tech. Officer CASE Category
 B T FEGLEY HQ/W L QUAIDE 11-Astronomy

NAG 9-653 Washington University 5700
 CULTURE OF PORCINE ISLET TISSUE/EVALUATION OF MICROGRAVITATIONAL CONDITIONS
Period Obligations
 10/28/1992-02/01/1996 FY95: \$160,000 TOTAL: \$490,000
Prin. Invest. NASA Tech. Officer CASE Category
 D W SCHARP GSFC/G SPAULDING 51-Biological Sci

NAGW 2867 Washington University 5708
 KINETICS OF THERMALCHEMICAL REACTIONS IMPORTANT IN THE VENUS ATMOSPHERIC SULFUR CYCLE
Period Obligations
 01/31/1992-12/31/1995 FY95: \$110,000 TOTAL: \$258,358
Prin. Invest. NASA Tech. Officer CASE Category
 B T FEGLEY HQ/W L QUAIDE 11-Astronomy

NAG 9-684 Washington University 5701
 ION MICROPROBE STUDIES OF THE METEOROID AND ORBITAL DEBRIS COMPLEX
Period Obligations
 04/26/1993-04/01/1995 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 E ZINNER JSC/M ZOLENSKY 13-Physics

NAGW 2909 Washington University 5709
 THEORETICAL FOUNDATION OF GRAVITATIONAL PHYSICS EXPERIMENTS IN SPACE
Period Obligations
 02/20/1992-06/30/1994 FY95: TOTAL: \$115,072
Prin. Invest. NASA Tech. Officer CASE Category
 C M WILL HQ/R STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 432 Washington University 5702
 STRUCTURE AND EVOLUTION OF OUTER PLANET SATELLITE
Period Obligations
 03/01/1983-10/31/1995 FY95: \$29,000 TOTAL: \$458,660
Prin. Invest. NASA Tech. Officer CASE Category
 W B MCKINNON HQ/J UNDERWOOD 32-Geological Sci
 HQ/J M BOYCE

NAGW 2918 Washington University 5710
 ANGULAR MOMENTUM TRANSFER IN CATAclysmic VARIABLES
Period Obligations
 02/27/1992-12/31/1995 FY95: TOTAL: \$81,000
Prin. Invest. NASA Tech. Officer CASE Category
 J I KATZ HQ/R STACHNIK 13-Physics
 HQ/E J WEILER

NAGW 1358 Washington University 5703
 TOWARD GLOBAL PERSPECTIVES ON CONTINENTAL TECTONICS
Period Obligations
 06/01/1988-12/31/1995 FY95: \$111,388 TOTAL: \$1,388,725
Prin. Invest. NASA Tech. Officer CASE Category
 R E ARVIDSON HQ/M BALTUCK 32-Geological Sci
 HQ/T J PIEPER

NAGW 2990 Washington University 5711
 RESEARCH IN PARTICLE ASTROPHYSICS SMILI/HEAT
Period Obligations
 12/18/1991-11/30/1995 FY95: \$47,018 TOTAL: \$617,018
Prin. Invest. NASA Tech. Officer CASE Category
 J J BEATTY HQ/W V JONES 19-Phys Sci, NEC
 HQ/J D BOHLIN

NAGW 1872 Washington University 5704
 ANALYSIS OF REMOTE SENSING DATA FOR THE SURFACES OF THE TERRESTRIAL PLANETS
Period Obligations
 07/16/1990-09/30/1997 FY95: \$184,000 TOTAL: \$1,006,736
Prin. Invest. NASA Tech. Officer CASE Category
 R E ARVIDSON HQ/T A MAXWELL 32-Geological Sci

NAGW 3013 Washington University 5712
 DETECTION AND INTERACTIONS OF ULTRA HEAVY NUCLEI
Period Obligations
 04/03/1992-02/28/1996 FY95: TOTAL: \$165,990
Prin. Invest. NASA Tech. Officer CASE Category
 J KLARMANN HQ/W V JONES 13-Physics
 HQ/J D BOHLIN

NAGW 2304 Washington University 5705
 STUDIES OF SOLAR NEBULA STRUCTURE AND EVOLUTION
Period Obligations
 02/26/1991-04/30/1996 FY95: \$78,000 TOTAL: \$383,200
Prin. Invest. NASA Tech. Officer CASE Category
 F A PODOSEK HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3024 Washington University 5713
 PLANETARY INTERIOR MODELING AND TECTONIC IMPLICATIONS
Period Obligations
 04/03/1992-12/31/1995 FY95: \$104,500 TOTAL: \$400,500
Prin. Invest. NASA Tech. Officer CASE Category
 R J PHILLIPS HQ/R WILLIAMS 32-Geological Sci

NAGW 2818 Washington University 5706
 AQUEOUS ALTERATIONS OF ORGANIC MATTER ON METEORITE PARENT BODIES
Period Obligations
 01/03/1992-12/31/1995 FY95: \$65,000 TOTAL: \$168,451
Prin. Invest. NASA Tech. Officer CASE Category
 E L SHOCK HQ/M MEYER 12-Chemistry

NAGW 3046 Washington University 5714
 COMPARATIVE EFFECTIVENESS OF A SERIES OF AUXINS IN MODULATING THE PUTATIVE GRAVITROPIC
Period Obligations
 04/03/1992-02/28/1996 FY95: \$50,000 TOTAL: \$205,000
Prin. Invest. NASA Tech. Officer CASE Category
 B G PICKARD HQ/T W HALSTEAD 51-Biological Sci

**NASA'S UNIVERSITY PROGRAM
MISSOURI (Continued)**

NCC 2-5159 Washington University 5731
 REMOTE SENSING OF AIRCRAFT CONTRAILS USING A FIELD
 ORTABLE DIGITAL ARRAY SCANNED INTERFEROMETER
Period Obligations
 09/11/1995-07/31/1997 FY95: \$11,000 TOTAL: \$11,000
Prin. Invest. NASA Tech. Officer CASE Category
 W H SMITH ARC/P D HAMMER 31-Atmos Sci

NCC 8-49 Washington University 5732
 COMPOSITIONAL DEPENDENCE OF PHASE FORMATION AND
 STABILITY
Period Obligations
 06/20/1994-06/19/1996 FY95: \$47,096 TOTAL: \$94,038
Prin. Invest. NASA Tech. Officer CASE Category
 K F KELTON MSFC/E C ETHRIDGE 47-Materials Engr
 MSFC/M ROBINSON

NGT 00-040-029 Washington University 5733
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
 06/05/1991-02/28/1997 FY95: \$170,000 TOTAL: \$830,000
Prin. Invest. NASA Tech. Officer CASE Category
 R E ARVIDSON HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-051-061 Washington University 5734
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/15/1993-06/30/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 K F KELTON HQ/D A HOLLAND 13-Physics

NGT 00-051-298 Washington University 5735
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/28/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R M WALKER HQ/D HOLLAND 13-Physics

NGT 00-051-319 Washington University 5736
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/07/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J KLARMANN HQ/D HOLLAND 13-Physics

NGT 00-090-250 Washington University 5737
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 11/15/1994-08/14/1995 FY95: \$12,000 TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 D PETERS HQ/D K RUSSELL 46-Mech Engr

NSG-1601 Washington University 5738
 NON-DESTRUCTIVE EVALUATION OF COMPOSITE STRUCTURES
 USING FOURIER ANALYSIS OF ULTRASONICSIGNALS
Period Obligations
 03/09/1979-10/31/1995 FY95: \$60,001 TOTAL: \$1,561,338
Prin. Invest. NASA Tech. Officer CASE Category
 J G MILLER LARC/P H JOHNSTON 13-Physics
 LARC/J S HEYMAN

MONTANA

NAG 8-262 Montana State University - Billings 5750
 JOVE
Period Obligations
 12/30/1992-05/31/1995 FY95: TOTAL: \$45,213
Prin. Invest. NASA Tech. Officer CASE Category
 A F BENTLEY MSFC/F SIX 13-Physics

NAGW 4598 Fort Belknap College 5739
 PRESERVING THE PAST AND THE FUTURE
Period Obligations
 07/24/1995-06/30/1998 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 A L BROCKIE HQ/M MATEU 99-Multi-Discip

NAG 8-1213 Rocky Mountain College 5752
 JOVE
Period Obligations
 09/22/1994-05/31/1998 FY95: \$23,000 TOTAL: \$23,000
Prin. Invest. NASA Tech. Officer CASE Category
 J LYMAN MSFC/D SIX 39-Env Sci, NEC

NAG 8-1098 Montana Tech of The University of 5751
 Montana
 JOVE
Period Obligations
 10/18/1994-05/31/1996 FY95: \$58,022 TOTAL: \$58,022
Prin. Invest. NASA Tech. Officer CASE Category
 T MOON MSFC/F SIX 29-Math/Cmputer,NEC
 K OLSON

NAG 8-289 Montana State University 5740
 TEMPORAL AND SPECTRAL STUDIES OF SUYFERT NUCLEI
Period Obligations
 05/17/1993-01/31/1995 FY95: TOTAL: \$18,476
Prin. Invest. NASA Tech. Officer CASE Category
 S TSURUTA MSFC/J VARGAS 11-Astronomy

NAG 9-505 Montana State University 5741
 RAPID BACTERIAL TESTING FOR US SPACE STATION WATER
 SYSTEM USING IMAGE ANALYSIS
Period Obligations
 04/04/1991-09/01/1995 FY95: TOTAL: \$226,175
Prin. Invest. NASA Tech. Officer CASE Category
 G A MCFETERS JSC/R L SAUER 56-Medical Sciences

NAGW 2208 Montana State University 5742
 SOME SELECTED PROBLEMS IN HIGH ENERGY SPACE ASTROP
 HYSICS
Period Obligations
 08/09/1990-03/31/1996 FY95: \$24,580 TOTAL: \$363,375
Prin. Invest. NASA Tech. Officer CASE Category
 S TSURUTA HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2764 Montana State University 5743
 MOLECULAR AND GEOCHEMICAL ANALYSIS OF HOT SPRING C
 YCNOBACTERIAL AND CHLOROFLEXUS
Period Obligations
 11/08/1991-10/31/1996 FY95: \$113,556 TOTAL: \$465,102
Prin. Invest. NASA Tech. Officer CASE Category
 D M WARD HQ/J D RUMMEL 54-Env Biology

**NASA'S UNIVERSITY PROGRAM
MONTANA (Continued)**

NAGW 2951 Montana State University 5744
RESEARCH IN GRAVITATIONAL ASTROPHYSICS
Period Obligations
03/04/1992-12/31/1993 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
L A LINDBLOM HQ/R STACHNIK 11-Astronomy
HQ/E J WEILER

NAG 8-235 University of Montana 5755
JOVE
Period Obligations
06/05/1992-07/15/1994 FY95: TOTAL: \$81,703
Prin. Invest. NASA Tech. Officer CASE Category
N W HINMAN MSFC/F SIX 32-Geological Sci
D FRIEND
J W SEARS

NCC 2-5009 Montana State University 5745
MECHANISMS AND SUPPRESSION OF TRANSITION IN SUPERS ONIC NOZZLES
Period Obligations
11/16/1993-10/31/1995 FY95: \$39,036 TOTAL: \$78,072
Prin. Invest. NASA Tech. Officer CASE Category
A DEMETRIADES ARC/J LAUB 41-Aero Engr
ARC/L KING

NAGW 3151 University of Montana 5756
NAGW-3151/UNIV MONTANA/ASSESSMENT OF ANTHROPOGENIC AND CLIMATIC IMPACTS ON THE GLOBAL CARBON CYCLE
Period Obligations
08/04/1992-04/30/1995 FY95: TOTAL: \$142,841
Prin. Invest. NASA Tech. Officer CASE Category
R NEMANI HQ/R E MURPHY 39-Env Sci, NEC
S W RUNNING HQ/D M BUTLER

NCCW 58 Montana State University 5746
EPSCOR PROGRAM
Period Obligations
08/19/1994-02/28/1996 FY95: \$500,000 TOTAL: \$1,000,000
Prin. Invest. NASA Tech. Officer CASE Category
W A HISCOCK HQ/L KEFFER 99-Multi-Discip
HQ/E T SCHWARTZ

NAGW 4234 University of Montana 5757
MULTIPLE SCALE ANALYSIS OF FOREST BIOGEOCHEMISTRY DEVELOPMENT, EVALUATION AND IMPLEMENTATION OF RHEY
Period Obligations
01/13/1995-08/31/1997 FY95: \$193,555 TOTAL: \$193,555
Prin. Invest. NASA Tech. Officer CASE Category
S W RUNNING HQ/D E WICKLAND 39-Env Sci, NEC
E B HUNT HQ/A C JANETOS
R R NEMANI

NGT 00-040-041 Montana State University 5747
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
06/03/1991-02/28/1998 FY95: \$170,000 TOTAL: \$833,500
Prin. Invest. NASA Tech. Officer CASE Category
W A HISCOCK HQ/E T SCHWARTZ 99-Multi-Discip

NAGW 4511 University of Montana 5758
VEMAP: MODEL INTERCOMPARISON OF PRIMARY PRODUCTION MAPS OF THE US
Period Obligations
05/17/1995-06/30/1996 FY95: \$100,448 TOTAL: \$100,448
Prin. Invest. NASA Tech. Officer CASE Category
S RUNNING HQ/A C JANETOS 99-Multi-Discip

NGT 00-051-196 Montana State University 5748
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/20/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
J P WILSON LARC/E PRIOR 32-Geological Sci

NGT 2-52202 Montana State University 5749
THE EFFECTS OF SURFACE HEATING ON BOUNDARY LAYER S TABILITY IN A 2-D SUPERSONIC WIND-TUNNEL
Period Obligations
09/21/1995-07/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
A DEMETRIADES ARC/J A LAUB 41-Aero Engr
T P BROGAN ARC/L S KING

NAS 5-31368 University of Montana 5759
EOS MODIS INVESTIGATION FROM DR. STEVE RUNNING
Period Obligations
01/07/1992-12/14/2001 FY95: \$465,000 TOTAL: \$1,070,000
Prin. Invest. NASA Tech. Officer CASE Category
S W RUNNING GSFC/H OSEROFF 39-Env Sci, NEC

NAG 5-2065 University of Montana 5753
FIFE DATA ANLYSIS: TESTING BIOME-BGC PREDICTIONS FOR GRASSLANDS
Period Obligations
07/31/1992-08/14/1994 FY95: TOTAL: \$69,411
Prin. Invest. NASA Tech. Officer CASE Category
R E HUNT GSFC/P J SELLERS 39-Env Sci, NEC
S RUNNING
W PARTON

NGT 00-030-169 University of Montana 5760
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/23/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
G N RICHARDS HQ/G ASRAR 31-Atmos Sci
HQ/D M BUTLER

NAG 5-2297 University of Montana 5754
SIMULATION OF BOREAL ECOSYSTEM CARBON AND WATER BU DGETS: SCALING FROM LOCAL TO REGIONAL EXTENTS...
Period Obligations
07/12/1993-07/31/1996 FY95: \$100,000 TOTAL: \$205,000
Prin. Invest. NASA Tech. Officer CASE Category
S W RUNNING GSFC/F G HALL 39-Env Sci, NEC
GSFC/P SELLERS

NGT 00-030-216 University of Montana 5761
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/26/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
S W RUNNING HQ/G ASRAR 39-Env Sci, NEC
HQ/D M BUTLER

**NASA'S UNIVERSITY PROGRAM
NEBRASKA**

NEBRASKA

NAG 2-1003 Creighton University 5762
EFFECTS OF WEIGHTLESSNESS ON VESTIBULAR DEVELOPMENT IN QUAIL

<i>Period</i>	<i>Obligations</i>	
08/23/1995-06/30/1996	FY95: \$82,736	TOTAL: \$82,736
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B FRITZSCH	ARC/C M WINGET	51-Biological Sci
L L BRUCE	ARC/G C JAHNS	

NCC 2-861 Creighton University 5763
EFFECTGS OF WEIGHTLESSNESS ON VESTIBULAR DEVELOPMENT

<i>Period</i>	<i>Obligations</i>	
06/21/1994-06/30/1996	FY95: \$69,245	TOTAL: \$159,432
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B FRITZSCH	ARC/D A REISS-BUBENHEIM	51-Biological Sci
L L BRUCE	ARC/C M WINGET	

NAG 1-1447 University of Nebraska - Lincoln 5764
THEORETICAL EVALUATION OF THE RADIATION HAZARDS FROM COSMIC RAYS WITHIN SPACE VEHICLES

<i>Period</i>	<i>Obligations</i>	
08/26/1992-12/31/1996	FY95:	TOTAL: \$70,001
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R KATZ	LARC/F A CUCINOTTA	13-Physics
	LARC/E J CONWAY	

NAG 3-95 University of Nebraska - Lincoln 5765
INTERCALATED CARBON FIBER CONDUCTOR FOR AEROSPACE USE

<i>Period</i>	<i>Obligations</i>	
08/28/1980-01/31/1996	FY95: \$45,000	TOTAL: \$633,482
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A WOOLLAM	LERC/D A JAWORSKE	45-Elec Engr

NAG 3-806 University of Nebraska - Lincoln 5766
ERROR PROTECTION FOR DIGITAL IMAGE TRANS OVER NOISY CHANNELS

<i>Period</i>	<i>Obligations</i>	
06/18/1987-05/13/1995	FY95:	TOTAL: \$357,444
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K SAYOOD	LERC/W A WHYTE	45-Elec Engr
	LERC/E F MILLER	

NAG 3-866 University of Nebraska - Lincoln 5767
LASER DEPOSITION OF THIN FILM SUPERCONDUCTORS FOR MICRODUCTORS FOR MICROELECTRONICS PREP AND EVAL.

<i>Period</i>	<i>Obligations</i>	
01/16/1988-06/17/1994	FY95:	TOTAL: \$272,180
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A WOOLLAM	LERC/J D WARNER	13-Physics
N J IANNO		

NAG 5-1612 University of Nebraska - Lincoln 5768
STUDY AND SIMULATION OF LOW RATE VIDEO CODING SCHEMES

<i>Period</i>	<i>Obligations</i>	
05/24/1991-06/14/1996	FY95:	TOTAL: \$167,902
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K SAYOOD	GSFC/P SHU YEH	45-Elec Engr
	GSFC/W H MILLER	

NAG 5-2331 University of Nebraska - Lincoln 5769
SURFACE ENERGY AND WATER BALANCES OF FOREST AND WETLAND SUBSYSTEMS IN THE BOREAL FOREST: SURFACE..

<i>Period</i>	<i>Obligations</i>	
07/27/1993-07/31/1996	FY95: \$56,900	TOTAL: \$189,800
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D E JELINSKI	GSFC/F G HALL	39-Env Sci, NEC
	GSFC/P SELLERS	

NAG 5-2585 University of Nebraska - Lincoln 5770
FIELD MICROMETEOROLOGICAL MEASUREMENTS, PROCESS LEVEL STUDIES, AND MODELING OF METHANE. . . .

<i>Period</i>	<i>Obligations</i>	
05/05/1994-05/14/1996	FY95: \$10,000	TOTAL: \$51,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S B VERMA	GSFC/F G HALL	39-Env Sci, NEC
	GSFC/P J SELLERS	

NAG 5-2628 University of Nebraska - Lincoln 5771
LABORATORY EQUIPMENT FOR THE SOUTHERN STUDY AREAS

<i>Period</i>	<i>Obligations</i>	
06/15/1994-06/14/1996	FY95:	TOTAL: \$7,329
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E WALTER-SHEA	GSFC/F HALL	11-Astronomy

NAG 5-5024 University of Nebraska - Lincoln 5772
COORDINATION OF SURFACE GLACIOLOGICAL INVESTIGATIONS AND FIELD OPS: NASA OVERSNOW EXP, GREENLAND 94

<i>Period</i>	<i>Obligations</i>	
05/25/1994-05/31/1996	FY95: \$232,714	TOTAL: \$441,744
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K C KUIVINAN	GSFC/W B KRABILL	39-Env Sci, NEC

NAGW 1266 University of Nebraska - Lincoln 5773
SYNEPTIC ANALYSIS OF ICE MELT FROM NIMBUS-7 SMMR

<i>Period</i>	<i>Obligations</i>	
03/15/1988-12/31/1995	FY95: \$36,228	TOTAL: \$555,936
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M R ANDERSON	HQ/R H THOMAS	33-Oceanography
	HQ/W S WILSON	

NAGW 1751 University of Nebraska - Lincoln 5774
INTERACTION OF RADIATION WITH PLANETARY GASES

<i>Period</i>	<i>Obligations</i>	
04/17/1989-11/30/1995	FY95: \$51,000	TOTAL: \$315,631
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A SAMSON	HQ/J T BERGSTRALH	11-Astronomy

NAGW 2395 University of Nebraska - Lincoln 5775
NAGW-2395/UNIV NEBRASKA/A TEST OF NEW RADIATIVE OPACITIES AND THEIR INCORPORATION INTO IMPROVED

<i>Period</i>	<i>Obligations</i>	
02/21/1991-01/31/1996	FY95: \$18,409	TOTAL: \$441,052
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
N R SIMON	HQ/G S KUTTER	11-Astronomy
	HQ/G R RIEGLER	

NAGW 3106 University of Nebraska - Lincoln 5776
REMOTE MEASUREMENT OF ICE SHEET PARAMETERS AT DEPTH

<i>Period</i>	<i>Obligations</i>	
06/22/1992-03/31/1995	FY95: \$198,390	TOTAL: \$515,416
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B L HANSEN	HQ/R H THOMAS	39-Env Sci, NEC
J R KELTY	HQ/J S THEON	
K C KUIVINEN		

**NASA'S UNIVERSITY PROGRAM
NEBRASKA (Continued)**

NAGW 3262 University of Nebraska - Lincoln 5777
NAGW-3262/UNIV NEBRASKA-LINCOLN/EVAL OF ADVANCED S
ENSOR TECHNOLOGY
Period *Obligations*
10/29/1992-08/31/1996 FY95: \$26,736 TOTAL: \$130,678
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D RUNDQUIST HQ/M R HELFERT 39-Env Sci, NEC
J MERCHANT HQ/D M BUTLER
C KEITHLEY

NAGW 3940 University of Nebraska - Lincoln 5778
NAGW-3940/B UNIV. NEBRASKA-LINCOLN 'REG. AND GLOBAL LAND
COVER CHAR. VIA SATELLITE..' 36-MO MULTI YR
Period *Obligations*
04/19/1994-04/30/1995 FY95: TOTAL: \$399,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J W MERCHANT HQ/A J TUYAHOV 39-Env Sci, NEC
HQ/D M BUTLER

NAGW 3984 University of Nebraska - Lincoln 5779
NEBRASKA EARTH SCIENCE EDUC NETWORK-ENHANCING THE
NASA UNIV AND PRE-COLLEGE SCIENCE TEACHER CONNECTION
Period *Obligations*
05/25/1994-02/28/1995 FY95: TOTAL: \$200,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D GALE HQ/E LUCIER 39-Env Sci, NEC
D C GOSSELIN HQ/O SPAULDING
P B WIGLEY

NAGW 4414 University of Nebraska - Lincoln 5780
EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH
(EPSCOR)
Period *Obligations*
04/20/1995-03/30/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E BALLINGER HQ/L KEFFER 49-Engr, NEC
HQ/E T SCHWARTZ

NAGW 4574 University of Nebraska - Lincoln 5781
CONSORTIUM FOR THE APPLICATION OF SPACE DATA TO ED
UCATION
Period *Obligations*
06/28/1995-05/31/1996 FY95: \$689,750 TOTAL: \$689,750
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D C RUNDQUIST HQ/A J TUYAHOV 99-Multi-Discip

NCA 2-762 University of Nebraska - Lincoln 5782
NONLINEAR FIELD PROBLEMS WITH APPLICATIONS TO AIRCRAFT
STRUCTURES AND RELATED FIELDS
Period *Obligations*
11/17/1992-11/30/1994 FY95: TOTAL: \$39,189
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C W MARTIN ARC/K K GUPTA 41-Aero Engr

NGT 00-030-127 University of Nebraska - Lincoln 5783
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/30/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T L MOTE HQ/G ASRAR 39-Env Sci, NEC
HQ/D M BUTLER

NGT 00-051-293 University of Nebraska - Lincoln 5784
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/06/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S E REICHENBACH HQ/D HOLLAND 22-Computer Science

NGT 00-051-379 University of Nebraska - Lincoln 5785
GRADUATE STUDIES RESEARCHER PROGRAM
Period *Obligations*
06/26/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A SAMAL HQ/D HOLLAND 22-Computer Science
HQ/D GLASCO

NGT 00-070-280 University of Nebraska - Lincoln 5786
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
07/24/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K SAVOOD LERC/F MONTEGANI 45-Elec Engr

NAGW 4362 University of Nebraska - Medical Center 5787
BLOOD VOLUME REGULATION IN PRIMATES DURING SPACE F
LIGHT
Period *Obligations*
03/22/1995-02/28/1997 FY95: \$178,290 TOTAL: \$178,290
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K G CORNISH HQ/F SULZMAN 59-Life Sci, NEC

NAG 8-221 University of Nebraska-Omaha 5788
JOVE
Period *Obligations*
01/30/1992-08/31/1994 FY95: TOTAL: \$87,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J RASLER MSFC/F SIX 51-Biological Sci
D WILKINS

NGT 00-040-051 University of Nebraska-Omaha 5789
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period *Obligations*
07/26/1991-01/31/1998 FY95: \$185,000 TOTAL: \$748,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B B BOWEN HQ/L KEFFER 99-Multi-Discip

NEVADA

NAG 1-1113 Univ. of Nevada - Desert Res. Inst. 5790
CLOUD CONDENSATION NUCLEI MEASUREMENTS IN PROJECT
FIRE
Period *Obligations*
03/15/1990-04/12/1995 FY95: TOTAL: \$329,220
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J G HUDSON LARC/D S MCDUGAL 31-Atmos Sci
LARC/T L OWENS

**NASA'S UNIVERSITY PROGRAM
NEVADA (Continued)**

NAG 1-1546 Univ. of Nevada - Desert Res. Inst. 5791
 AUTOMATION OF REPLICATOR DATA ANALYSIS
Period Obligations
 09/27/1993-06/30/1995 FY95: \$24,999 TOTAL: \$115,036
Prin. Invest. NASA Tech. Officer CASE Category
 J HALLETT LARC/D S MCDUGAL 31-Atmos Sci
 W P ARNOTT LARC/T L OWENS

NGT 00-030-286 Univ. of Nevada - Desert Res. Inst. 5799
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/10/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R WHARTONJR HQ/J S THEON 39-Env Sci, NEC
 HQ/G ASRAR

NAG 1-1707 Univ. of Nevada - Desert Res. Inst. 5792
 MICROPHYSICS AND RADIATIVE PROPERTIES OF CIRRUUS:
 INSTRUMENTATION AND ANALYSIS
Period Obligations
 05/04/1995-05/03/1996 FY95: \$66,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J HALLEH LARC/D S MCDUGAL 31-Atmos Sci
 W P ARNOTT

NAGW 4279 University of Nevada - Las Vegas 5800
 LABORATORY STUDIES OF THERMAL ENERGY CHARGE TRANSF
 ER OF SILICON AND IRON IONS IN ASTROPHYSICAL PLAS
Period Obligations
 02/03/1995-12/31/1997 FY95: \$23,999 TOTAL: \$23,999
Prin. Invest. NASA Tech. Officer CASE Category
 V H KWONG HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAG 2-663 Univ. of Nevada - Desert Res. Inst. 5793
 ER2 PARTICLE REPLICATOR
Period Obligations
 08/01/1990-09/30/1994 FY95: TOTAL: \$249,983
Prin. Invest. NASA Tech. Officer CASE Category
 J HALLETT ARC/R F PUESCHEL 31-Atmos Sci

NAGW 4349 University of Nevada - Las Vegas 5801
 EPSCOR RELATED WORK IN ATOMIC AND MELEULAR
 ASTROPHYSICS AND PULTRUDED COMPSITES
Period Obligations
 03/18/1995-01/31/1996 FY95: \$150,000 TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 R F BOEHM HQ/A S MCGEE 19-Phys Sci, NEC
 HQ/E T SCHWARTZ

NAG 2-923 Univ. of Nevada - Desert Res. Inst. 5794
 CHARACTERIZATION OF AIRCRAFT PRODUCED SOOT AND CON
 TRAILS NEAR THE TROPOPAUSE
Period Obligations
 08/10/1994-12/31/1995 FY95: \$41,000 TOTAL: \$87,750
Prin. Invest. NASA Tech. Officer CASE Category
 J HALLETT ARC/E P CONDON 31-Atmos Sci
 ARC/O B TOON

NAS 5-31231 University of Nevada - Las Vegas 5802
 STIS CO-INVESTIGATOR SUPPORT
Period Obligations
 08/30/1991-09/30/2001 FY95: \$87,000 TOTAL: \$109,301
Prin. Invest. NASA Tech. Officer CASE Category
 D WEISTROP GSFC/D VITAGLIANO 11-Astronomy

NAGW 1947 Univ. of Nevada - Desert Res. Inst. 5795
 EXOBIOLGY SITE SELECTION FOR FUTURE MARS MISSIONS :
 MARTIAN PALEOLAKE SEDIMENTS AND TERRESTRIAL ANAL.
Period Obligations
 04/27/1990-11/14/1996 FY95: \$111,000 TOTAL: \$622,986
Prin. Invest. NASA Tech. Officer CASE Category
 R A WHARTON HQ/J D RUMMEL 54-Env Biology

NGT 00-040-042 University of Nevada - Las Vegas 5803
 NGT-40042/UNIV NEVADA SYSTEM/NATIONAL SPACE GRANT
 COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
 05/29/1991-02/28/1997 FY95: \$170,000 TOTAL: \$833,000
Prin. Invest. NASA Tech. Officer CASE Category
 J V TARANIK HQ/E T SCHWARTZ 99-Multi-Discip

NAGW 3753 Univ. of Nevada - Desert Res. Inst. 5796
 SOUTHERN HEMISPHERE CLOUD CONDENSATION NUCLEI
Period Obligations
 09/16/1993-07/31/1995 FY95: \$86,693 TOTAL: \$241,140
Prin. Invest. NASA Tech. Officer CASE Category
 J G HUDSON HQ/J T SUTTLES 31-Atmos Sci
 C TWOHY HQ/A C JANETOS

NAG 5-2136 University of Nevada - Reno 5804
 H95C: A MERGER CANDIDATE
Period Obligations
 11/09/1992-05/14/1995 FY95: TOTAL: \$6,000
Prin. Invest. NASA Tech. Officer CASE Category
 M RODRIGUE GSFC/D WEST 11-Astronomy

NAGW 4214 Univ. of Nevada - Desert Res. Inst. 5797
 NASA LANDSAT PATHFINDER GLOBAL LAND COVER TEST SITES
 PROJECT
Period Obligations
 11/17/1994-07/31/1996 FY95: \$208,570 TOTAL: \$208,570
Prin. Invest. NASA Tech. Officer CASE Category
 K C MCGUIRE HQ/M E MAIDEN 39-Env Sci, NEC

NAGW 4151 University of Nevada - Reno 5805
 STUDIES OF PLANETARY FAULTING
Period Obligations
 09/28/1994-07/31/1997 FY95: \$74,029 TOTAL: \$74,029
Prin. Invest. NASA Tech. Officer CASE Category
 R A SCHULTZ HQ/R WILLIAMS 32-Geological Sci

NCC 2-5146 Univ. of Nevada - Desert Res. Inst. 5798
 PALEOLAKES ON MARS AND TERRESTRIAL ANALOGS
Period Obligations
 08/09/1995-08/31/1996 FY95: \$24,660 TOTAL: \$24,660
Prin. Invest. NASA Tech. Officer CASE Category
 R A WHARTON JR. ARC/C P MCKAY 32-Geological Sci
 V GALCHENKO

NCC 2-507 University of Nevada - Reno 5806
 NUMERICAL INVESTIGATIONS IN THREE-DIMENSIONAL INTEFLOWS
Period Obligations
 12/01/1987-12/31/1994 FY95: TOTAL: \$322,066
Prin. Invest. NASA Tech. Officer CASE Category
 W C ROSE ARC/D P BENCZE 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
NEVADA (Continued)**

NCC 2-5119 University of Nevada - Reno 5807
SOLID PARTICLE DISPERSION AND COAGULATION EXPERIMENT
Period *Obligations*
03/08/1995-02/28/1997 FY95: \$63,527 TOTAL: \$63,527
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C F ROGERS ARC/M L FONDA 19-Phys Sci, NEC

NAG 5-2252 Dartmouth College 5815
MESOSCALE PROCESSES AT MAGNETOSPHERIC BOUNDARIES AND THEIR COUPLING TO THE IONOSPHERE
Period *Obligations*
05/12/1993-01/31/1996 FY95: \$260,000 TOTAL: \$655,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W LOTKO GSFC/T J BIRMINGHAM 13-Physics
GSFC/J D BOHLIN

NEW HAMPSHIRE

NAG 2-936 Dartmouth College 5809
SCORPIO: A TESTBED FOR TOMORROW'S MULTIPROCESSOR FILE SYSTEMS
Period *Obligations*
09/29/1994-08/31/1995 FY95: TOTAL: \$99,990
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D F KOTZ ARC/B T BLAYLOCK 22-Computer Science

NAG 5-2743 Dartmouth College 5816
TIDES IN THE MESOSPHERE AND LOWER THERMOSPHERE
Period *Obligations*
10/06/1994-10/14/1995 FY95: \$64,250 TOTAL: \$64,250
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C G FESEN GSFC/C H JACKMAN 31-Atmos Sci

NAG 5-5039 Dartmouth College 5817
ELECTRIC FIELD ANALYSIS AND HIGH FREQUENCY MEASUREMENTS FOR THE AURORAL TURBULENCE II SOUNDING ROCK
Period *Obligations*
06/07/1995-01/31/1996 FY95: \$65,469 TOTAL: \$65,469
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J W LABELLE GSFC/R H PLESS 13-Physics

NAG 5-663 Dartmouth College 5810
SUBORBITAL PROGRAM IN MAGNETOSPHERIC AND IONOSPHERIC PHYSICS
Period *Obligations*
03/28/1990-01/31/1996 FY95: \$28,374 TOTAL: \$366,900
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J W LABELLE GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAGW 710 Dartmouth College 5818
RESEARCH ON TURBULENCE IN PLASMAS
Period *Obligations*
01/01/1985-06/30/1994 FY95: TOTAL: \$734,075
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D C MONTGOMERY HQ/M M MELLOTT 13-Physics
HQ/W V JONES

NAG 5-1098 Dartmouth College 5811
THEORETICAL STUDY GLOBAL GEOSPACE SYSTEM
Period *Obligations*
11/01/1988-01/31/1996 FY95: \$200,000 TOTAL: \$1,314,427
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M K HUDSON GSFC/S A CURTIS 13-Physics
GSFC/M H ACUNA

NAGW 1652 Dartmouth College 5819
TIME DEPENDENT NATURE OF AURORAL PHENOMENA
Period *Obligations*
02/24/1989-09/30/1996 FY95: \$49,001 TOTAL: \$472,121
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M K HUDSON HQ/M M MELLOTT 13-Physics
HQ/T W PERRY

NAG 5-1508 Dartmouth College 5812
SMALL SCALE STRUCTURE OF THE MAGNETO PAUSE FROM AMPTE/IRM DATA
Period *Obligations*
03/27/1991-04/14/1994 FY95: TOTAL: \$184,304
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B SONNERUP GSFC/G D BULLOCK 19-Phys Sci, NEC

NAGW 1838 Dartmouth College 5820
MICROWAVE RADAR OBSERVATIONS OF ANTARTIC SEA ICE
Period *Obligations*
11/29/1989-09/30/1993 FY95: TOTAL: \$444,872
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K C JEZEK HQ/R H THOMAS 39-Env Sci, NEC
R K MOORE HQ/W S WILSON

NAG 5-2138 Dartmouth College 5813
AN X-RAY STUDY OF AN OPTICAL JET FEATURE IN CTB 10 9
Period *Obligations*
11/09/1992-11/14/1994 FY95: TOTAL: \$41,725
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A FESEN GSFC/R PETRE 11-Astronomy

NAGW 2656 Dartmouth College 5821
TIDAL COUPLING IN THE IONOSPHERE
Period *Obligations*
07/15/1991-04/30/1996 FY95: \$28,000 TOTAL: \$217,646
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C G FESEN HQ/M M MELLOTT 49-Engr, NEC
HQ/J D BOHLIN

NAG 5-2164 Dartmouth College 5814
ACCRETION POWER IN AM CVN
Period *Obligations*
12/31/1992-06/30/1995 FY95: TOTAL: \$16,827
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R THORSTENSEN GSFC/R PETRE 11-Astronomy

NAGW 3045 Dartmouth College 5822
NAGW-3045/DARTMOUTH COLLEGE/THERMOSPHERIC NITRIC OXIDE: OBSERVATIONS AND MODELING
Period *Obligations*
04/17/1992-03/31/1996 FY95: TOTAL: \$158,046
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C FESEN HQ/D L REASONER 13-Physics
HQ/J D BOHLIN

**NASA'S UNIVERSITY PROGRAM
NEW HAMPSHIRE (Continued)**

NAGW 3227 **Dartmouth College** **5823**
SOIL CARBON INVENTORY AND CARBON FLUX RESPONSE TO
LANDUSE CHANGE, NORTHERN NEW ENGLAND
Period *Obligations*
10/26/1992-07/31/1996 FY95: \$67,500 TOTAL: \$297,953
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R BRAKENRIDGE HQ/M BALTUCK 32-Geological Sci

NAGW 4583 **Dartmouth College** **5831**
GLOBAL HELIOSPHERIC STRUCTURE AND DYNAMICS
Period *Obligations*
06/19/1995-02/28/1998 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J G LYON HQ/W V JONES 13-Physics
HQ/J D BOHLIN

NAGW 3506 **Dartmouth College** **5824**
REGIONAL GEOLOGY AND TECTONICS OF THE V26 AND V38
QUADRANGLES, VENUS
Period *Obligations*
04/09/1993-03/31/1995 FY95: TOTAL: \$51,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G R BRAKENRIDGE HQ/J T BERGSTRALH 32-Geological Sci

NAGW 4728 **Dartmouth College** **5832**
MAGNETIC STORMS EFFECTS ON PARTICLE ENERGIZATION IN THE
MAGNETOSPHERE
Period *Obligations*
09/05/1995-08/31/1996 FY95: \$42,000 TOTAL: \$42,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M K HUDSON HQ/R A HOFFMAN 13-Physics
HQ/J D BOHLIN

NAGW 3972 **Dartmouth College** **5825**
COMBINED SIMULATION MODEL FOR MAGNETOSPHERE GLOBAL
MHD MEETS THE RICE CONVECTION MODEL
Period *Obligations*
04/28/1994-03/31/1995 FY95: TOTAL: \$25,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J G LYON HQ/E C WHIPPLE 13-Physics
HQ/J D BOHLIN

NAS 5-38056 **Dartmouth College** **5833**
SCIENCE SUPPORT FOR TIMED TEMPERATURE WIND, NEUTRALS
AND IONS EXPERIMENT
Period *Obligations*
06/24/1994-06/24/1996 FY95: TOTAL: \$12,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C G FESEN GSFC/E A SCHMIDT 49-Engr, NEC

NAGW 3989 **Dartmouth College** **5826**
OBLIQUE ALFVEN DYNAMICS OF THE PLASMA SHEET IONO- SPHERE
INTERACTION
Period *Obligations*
05/13/1994-04/30/1997 FY95: \$71,763 TOTAL: \$140,242
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W LOTKO HQ/M M MELLOTT 13-Physics
HQ/J D BOHLIN

NCC 2-849 **Dartmouth College** **5834**
CHARACTERIZING THE WORKLOAD OF MULTIPROCESSOR FILE
SYSTEMS
Period *Obligations*
04/13/1994-09/30/1995 FY95: \$50,031 TOTAL: \$99,660
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D F KOTZ ARC/T E HARNESS 22-Computer Science

NAGW 4003 **Dartmouth College** **5827**
THE ROLE OF HYDROTHERMAL PROCESSES IN SHAPING
Period *Obligations*
05/17/1994-02/28/1997 FY95: \$24,000 TOTAL: \$49,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G R BRAKENRIDGE HQ/R WILLIAMS 32-Geological Sci

NGT 00-050-798 **Dartmouth College** **5835**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/01/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B SONNERUP HQ/F C OWENS 45-Elec Engr

NAGW 4023 **Dartmouth College** **5828**
SMALL SCALE STRUCTURE OF THE MAGNETOPAUSE
Period *Obligations*
05/24/1994-01/31/1997 FY95: \$63,000 TOTAL: \$123,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B SONNERUP HQ/E C WHIPPLE 13-Physics
HQ/J D BOHLIN

NGT 00-050-810 **Dartmouth College** **5836**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/25/1991-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G WEGNER HQ/F C OWENS 11-Astronomy

NAGW 4270 **Dartmouth College** **5829**
PRIMORDIAL SOURCES OF GRAVITATIONAL RADIATION
Period *Obligations*
01/31/1995-12/31/1995 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M GLEISER HQ/R V STACHNIK 11-Astronomy
HQ/E J WEILER

NGT 00-050-936 **Dartmouth College** **5837**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/15/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J LABELLE HQ/J K ALEXANDER 13-Physics

NAGW 4540 **Dartmouth College** **5830**
SIMULATION OF THE DAYSIDE MAGNETOSPHERE AND MAGNET
OSHEATH
Period *Obligations*
05/26/1995-04/30/1998 FY95: \$66,600 TOTAL: \$66,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J G LYON HQ/R A HOFFMAN 13-Physics
HQ/J D BOHLIN

NGT 00-051-160 **Dartmouth College** **5838**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/22/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D KOTZ HQ/P HUNTER 29-Math/Computer,NEC

**NASA'S UNIVERSITY PROGRAM
NEW HAMPSHIRE (Continued)**

NAG 8-1209 Daniel Webster College 5808
JOVE
Period *Obligations*
09/25/1995-08/31/1998 FY95: \$17,000 TOTAL: \$17,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D LOPEZ MSFC/D SIX 99-Multi-Discip

NAG 1-1233 University of New Hampshire - Durham 5839
MEASUREMENTS OF NITRIC ACID, CARBOXYLIC ACIDS, AND
SELECTED AEROSOL SPECIES FOR THE NASA/GTE PACIFIC
Period *Obligations*
04/09/1991-05/31/1996 FY95: \$101,000 TOTAL: \$849,092
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R W TALBOT LARC/J M HOELL 43-Chem Engr
J E DIBB LARC/B ANDERSON
O KLEMM

NAG 1-1761 University of New Hampshire - Durham 5840
MEASUREMENTS OF ACIDIC GASES AND AEROSOL SPECIES A
BOARD THE NASA DC-8 AIRCRAFT DURING PEM-TROPICS
Period *Obligations*
09/29/1995-09/30/1996 FY95: \$210,353 TOTAL: \$210,353
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D W TALBOT LARC/J M HOELL JR. 31-Atmos Sci
D E DIBB LARC/R J BENDURA

NAG 3-1181 University of New Hampshire - Durham 5841
HOLLOW CATHODE PARTICLE DIAGNOSTICS
Period *Obligations*
06/12/1990-08/10/1995 FY95: TOTAL: \$404,693
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R B TORBERT LERC/J T GALOFARO 13-Physics
C A KLETZING

NAG 3-1599 University of New Hampshire - Durham 5842
SUITABILITY OF ELECTRIC FIELD AND PARTICLE MEASUREMENT
FOR TROPIX-LIKE MISSION
Period *Obligations*
06/01/1994-05/31/1996 FY95: TOTAL: \$10,180
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R B TORBERT LERC/J M HICKMAN 13-Physics

NAG 5-656 University of New Hampshire - Durham 5843
RAPIDLY VARYING SPACE PLASMA PHENOMENA
Period *Obligations*
06/01/1989-12/31/1994 FY95: TOTAL: \$692,640
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R B TORBERT GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-692 University of New Hampshire - Durham 5844
SOUNDING OF THE CLEFT ION FOUNDATION ENERGIZATION
REGION
Period *Obligations*
05/26/1992-05/31/1996 FY95: \$196,820 TOTAL: \$405,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R ARNOLDY WFF/L J EARLY 13-Physics
WFF/R H PLESS

NAG 5-1479 University of New Hampshire - Durham 5845
THEORETICAL STUDIES ON THE CHROMOSPHERE, CORONA, AND
SOLAR WIND
Period *Obligations*
11/26/1990-03/14/1996 FY95: \$330,000 TOTAL: \$1,540,070
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J V HOLLWEG GSFC/T J BIRMINGHAM 13-Physics
M A LEO

NAG 5-1548 University of New Hampshire - Durham 5846
PARTICLE ACCELERATION AND TRANSPORT IN THE TAIL AND AT
THE FRONT SIDE OF THE MAGNETOSPHERE
Period *Obligations*
04/17/1991-04/30/1994 FY95: TOTAL: \$334,845
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E MOBIUS GSFC/G D BULLOCK 19-Phys Sci, NEC

NAG 5-1561 University of New Hampshire - Durham 5847
PROBING SOLAR PARTICLE ACCELERATION DURING THE 22N D
SOLAR MAXIMUM WITH GRO/OSSE
Period *Obligations*
04/17/1991-12/31/1995 FY95: \$99,009 TOTAL: \$337,024
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W T VESTRAND GSFC/J P NORRIS 11-Astronomy
GSFC/D A KNIFFEN

NAG 5-1562 University of New Hampshire - Durham 5848
A STATISTICAL APPROACH TO SOLAR FLARE SPECTRAL ANALYSIS
WITH BATSE
Period *Obligations*
04/17/1991-11/14/1993 FY95: TOTAL: \$160,750
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J FORREST GSFC/J P NORRIS 11-Astronomy
GSFC/D A KNIFFEN

NAG 5-2289 University of New Hampshire - Durham 5849
MAGNITUDE AND CONTROL OF TRACT GAS EXCHANGE IN BOR
EAL OCEAN SYSTEMS
Period *Obligations*
06/14/1993-07/14/1996 FY95: \$99,600 TOTAL: \$290,395
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P M CRILL GSFC/F G HALL 39-Env Sci, NEC
GSFC/P SELLERS

NAG 5-2290 University of New Hampshire - Durham 5850
MODELING CLIMATE-BIOSPHERE INTERACTIONS IN THE BOR EAL
FOREST
Period *Obligations*
06/14/1993-06/14/1996 FY95: \$75,000 TOTAL: \$180,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R C HARRISS GSFC/F G HALL 39-Env Sci, NEC
GSFC/P SELLERS

NAG 5-2350 University of New Hampshire - Durham 5851
DETERMINING THE CHARACTERISTICS OF SOLAR MICROFLAR ES
WITH BATSE
Period *Obligations*
08/12/1993-02/29/1996 FY95: \$94,086 TOTAL: \$168,151
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M RYAN GSFC/J NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2388 University of New Hampshire - Durham 5852
INVESTIGATION OF BATSE SENSITIVITY TO POLARIZED GA
MMA-RADIATION
Period *Obligations*
10/06/1993-10/14/1996 FY95: \$15,000 TOTAL: \$54,963
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M L MCCONNELL GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

**NASA'S UNIVERSITY PROGRAM
NEW HAMPSHIRE (Continued)**

NAG 5-2420 University of New Hampshire - Durham 5853
USE OF EGRET HIGH ENERGY CAPABILITY TO INVESTIGATE
ENERGETIC SOLAR FLARE PROCESSES

<i>Period</i>	<i>Obligations</i>	
11/06/1993-11/14/1995	FY95: \$46,796	TOTAL: \$62,296
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E CHUPP	GSFC/J P NORRIS	11-Astronomy
D L BERTSCH	GSFC/N WHITE	

NAG 5-2731 University of New Hampshire - Durham 5854
FRACTAL AND WAVELET INVESTIGATIONS OF BURST AND
TRANSIENT DATA

<i>Period</i>	<i>Obligations</i>	
09/21/1994-09/30/1996	FY95:	TOTAL: \$15,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D C MEREDITH	GSFC/J P NORRIS	11-Astronomy
	GSFC/N WHITE	

NAG 5-2834 University of New Hampshire - Durham 5855
PARTICIPATION IN THE MISSION OPERATIONS AND DATA ANALYSIS
PHASE OF THE GGS/WIND MISSION

<i>Period</i>	<i>Obligations</i>	
12/12/1994-12/31/1995	FY95: \$178,450	TOTAL: \$178,450
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R B TORBERT	GSFC/K W OGILVIE	13-Physics

NAG 5-2920 University of New Hampshire - Durham 5856
A STUDY OF THE POLARIZATION PROPERTIES OF THE CRAB
NEBULA AND PULSAR WITH BATSE

<i>Period</i>	<i>Obligations</i>	
03/22/1995-03/31/1996	FY95: \$24,993	TOTAL: \$24,993
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D J FORREST	GSFC/J P NORRIS	11-Astronomy
	GSFC/N WHITE	

NAG 5-5007 University of New Hampshire - Durham 5857
AMICIST NEW AWARD

<i>Period</i>	<i>Obligations</i>	
05/12/1993-12/31/1995	FY95: \$203,000	TOTAL: \$465,315
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R ARNOLDY	GSFC/L J EARLY	13-Physics
	GSFC/R H PLESS	

NAG 5-5010 University of New Hampshire - Durham 5858
PARTICLE MEASUREMENTS ABOVE AN ACTIVE THUNDERSTORM
PARTICLE MEASUREMENTS ABOVE AN ACTIVE THUNDERSTORM

<i>Period</i>	<i>Obligations</i>	
05/12/1993-12/31/1995	FY95: \$51,000	TOTAL: \$147,990
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C KLETZING	GSFC/L J EARLY	13-Physics
	GSFC/R H PLESS	

NAG 5-5033 University of New Hampshire - Durham 5859
AURORAL TURBULENCE II FIRST YEAR OF A THREE-YEAR EFFORT
IN BASIC

<i>Period</i>	<i>Obligations</i>	
04/12/1995-12/31/1995	FY95: \$102,605	TOTAL: \$102,605
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R B TORBERT	GSFC/R H PLESS	13-Physics

NAG 5-5040 University of New Hampshire - Durham 5860
DUST DETECTOR

<i>Period</i>	<i>Obligations</i>	
07/27/1995-06/30/1996	FY95: \$46,205	TOTAL: \$46,205
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K A LYNCH	GSFC/R H PLESS	13-Physics

NAG 6-12 University of New Hampshire - Durham 5861
GRANT AWARD

<i>Period</i>	<i>Obligations</i>	
04/23/1981-06/30/1994	FY95:	TOTAL: \$2,012,389
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R L ARNOLDY	GSFC/L J EARLY	19-Phys Sci, NEC
R L KAUFMANN	GSFC/R H PLESS	

NAG 8-1044 University of New Hampshire - Durham 5862
WETNET STUDIES

<i>Period</i>	<i>Obligations</i>	
05/06/1994-05/16/1995	FY95:	TOTAL: \$60,724
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B N ROCK	MSFC/J LOVALL	31-Atmos Sci
J R GIVRI		

NAGW 1245 University of New Hampshire - Durham 5863
SPECTROCHARACTERIZATION OF FOREST DECLINE DAMAGE

<i>Period</i>	<i>Obligations</i>	
04/13/1988-12/31/1995	FY95: \$49,500	TOTAL: \$855,346
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B N ROCK	HQ/D E WICKLAND	39-Env Sci, NEC
	HQ/M J RUZEK	

NAGW 1726 University of New Hampshire - Durham 5864
SOURCES OF ATMOSPHERIC METHANE IN TH TROPICS

<i>Period</i>	<i>Obligations</i>	
04/11/1989-06/30/1995	FY95:	TOTAL: \$363,515
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R HARRISS	HQ/M M AVERNER	54-Env Biology

NAGW 1826 University of New Hampshire - Durham 5865
ATMOSPHERIC METHANE SOURCES IN NORTHERN
ENVIRONMENTS

<i>Period</i>	<i>Obligations</i>	
09/06/1989-12/31/1993	FY95:	TOTAL: \$543,997
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R C HARRIS	HQ/M J KURYLO	31-Atmos Sci
	HQ/R T WATSON	

NAGW 2294 University of New Hampshire - Durham 5866
NAGW-2294/UNV NEW HAMPSHIRE/ESTIMATING RATES OF DE
FORESTATION IN THE AMAZON BASIN USING REMOTE SENS

<i>Period</i>	<i>Obligations</i>	
10/30/1990-08/31/1994	FY95:	TOTAL: \$688,369
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B MOORE	HQ/S TILLFORD	39-Env Sci, NEC
D SKOLE	HQ/G LESANE	

NAGW 2505 University of New Hampshire - Durham 5867
KINETIC PHYSICS OF THE PLASMA SHEET BOUNDARY LAYER

<i>Period</i>	<i>Obligations</i>	
08/04/1995-05/31/1996	FY95: \$49,965	TOTAL: \$194,965
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T G ONSAGER	HQ/M M MELLOTT	13-Physics
	HQ/J D BOHLIN	

NAGW 2579 University of New Hampshire - Durham 5868
STUDIES OF INTERSTELLAR PICKUP IONS IN THE SOLAR W IND

<i>Period</i>	<i>Obligations</i>	
06/26/1991-10/31/1997	FY95: \$69,600	TOTAL: \$335,585
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P A ISENBERG	HQ/W V JONES	13-Physics

**NASA'S UNIVERSITY PROGRAM
NEW HAMPSHIRE (Continued)**

NAGW 2669 University of New Hampshire - Durham 5869
CHANGES IN BIOGEOCHEMICAL CYCLES: EXECUTION PHASES

<i>Period</i>	<i>Obligations</i>	
09/03/1991-12/31/1995	FY95: \$1,738,311	TOTAL: \$7,339,208
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B MOORE	HQ/R E MURPHY	39-Env Sci, NEC
	HQ/W S WILSON	

NAGW 3454 University of New Hampshire - Durham 5876
STUDIES USING IMP, VOYAGER AND PIONEER COSMIC RAY DATA TO DETERMINE THE SIZE OF THE HELIOSPHERE

<i>Period</i>	<i>Obligations</i>	
03/19/1993-02/28/1995	FY95:	TOTAL: \$66,179
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A LOCKWOOD	HQ/W V JONES	13-Physics
	HQ/G L WITHBROE	

NAGW 2697 University of New Hampshire - Durham 5870
ELECTRON BEAM EXPERIMENT COLLABORATION

<i>Period</i>	<i>Obligations</i>	
09/03/1991-04/30/1995	FY95: \$49,855	TOTAL: \$238,240
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C KLETZING	HQ/E C WHIPPLE	13-Physics
R B TORBERT	HQ/J D BOHLIN	

NAGW 3463 University of New Hampshire - Durham 5877
CHROMOSPHERIC EVAPORATION IN MAGNETIC RECONNECTION MODELS OF SOLAR FLARES

<i>Period</i>	<i>Obligations</i>	
03/23/1993-03/31/1996	FY95: \$35,000	TOTAL: \$96,569
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T G FORBES	HQ/W J WAGNER	13-Physics
	HQ/J D BOHLIN	

NAGW 2741 University of New Hampshire - Durham 5871
SPECTRAL CHARACTERIZATION OF OZONE DAMAGE IN RED S PRUCE AND WHITE PINE

<i>Period</i>	<i>Obligations</i>	
09/19/1991-09/30/1994	FY95:	TOTAL: \$260,698
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B N ROCK	HQ/A C JANETOS	39-Env Sci, NEC
	HQ/D E WICKLAND	

NAGW 3512 University of New Hampshire - Durham 5878
STUDY OF THE TIME EVOLUTION OF SOLAR FLARE ELECTRO NS

<i>Period</i>	<i>Obligations</i>	
04/06/1993-01/31/1994	FY95:	TOTAL: \$35,682
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E L CHUPP	HQ/W J WAGNER	13-Physics
	HQ/J D BOHLIN	

NAGW 2749 University of New Hampshire - Durham 5872
THE ROLE OF TROPICAL DEFORESTATION IN THE GLOBAL CARBON CYCLE: SPATIAL AND TEMPORAL DYNAMICS

<i>Period</i>	<i>Obligations</i>	
09/19/1991-08/31/1994	FY95:	TOTAL: \$90,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D L SKOLE	HQ/A C JANETOS	39-Env Sci, NEC
B MOORE	HQ/R T WATSON	

NAGW 3538 University of New Hampshire - Durham 5879
ANALYSIS OF GAMMA RAY DATA FROM SOLAR FLARES IN CY CLES 21 AND 22

<i>Period</i>	<i>Obligations</i>	
04/22/1993-03/31/1996	FY95: \$85,000	TOTAL: \$255,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W VESTRAND	HQ/W J WAGNER	11-Astronomy
	HQ/J D BOHLIN	

NAGW 2771 University of New Hampshire - Durham 5873
GAS EXCHANGE IN WETLANDS; CONTROLS AND REMOTE SENS ING

<i>Period</i>	<i>Obligations</i>	
11/25/1991-10/31/1993	FY95:	TOTAL: \$96,663
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M E HINES	HQ/M M AVERNER	39-Env Sci, NEC

NAGW 3676 University of New Hampshire - Durham 5880
A STUDY OF THE ELECTRON DRIFT INSTRUMENT ON EQUATO R-S

<i>Period</i>	<i>Obligations</i>	
07/13/1993-04/30/1996	FY95: \$499,420	TOTAL: \$899,420
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R B TORBERT	HQ/E C WHIPPLE	13-Physics
	HQ/J D BOHLIN	

NAGW 3185 University of New Hampshire - Durham 5874
NAGW-3185/UNIV NEW HAMPSHIRE/LANDSAT PATHFINDER ST REAM 1: TROPICAL DEFORESTATION MAPPING

<i>Period</i>	<i>Obligations</i>	
08/28/1992-06/30/1996	FY95: \$1,026,053	TOTAL: \$2,084,396
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B M MOORE	HQ/M E MAIDEN	31-Atmos Sci
D L SKOLE	HQ/D M BUTLER	

NAGW 3720 University of New Hampshire - Durham 5881
NEW PRODUCTION IN THE NORTH ATLANTIC DERIVED FROM SEASONAL PATTERNS IN SEAWIFS DATA

<i>Period</i>	<i>Obligations</i>	
09/14/1993-06/30/1996	FY95: \$130,301	TOTAL: \$365,335
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J W CAMPBELL	HQ/R E MURPHY	33-Oceanography
	HQ/D M BUTLER	

NAGW 3194 University of New Hampshire - Durham 5875
NAGW-3194/UNIV NEW HAMPSHIRE/HIRIS CANOPY CHEMIST RY PROOF-OF-CONCEPT

<i>Period</i>	<i>Obligations</i>	
10/07/1992-08/31/1995	FY95:	TOTAL: \$497,533
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J ABER	HQ/A C JANETOS	39-Env Sci, NEC
	HQ/D E WICKLAND	

NAGW 3723 University of New Hampshire - Durham 5882
STUDY OF THE EQUATORIAL MAGNETOSPHERE WITH A TIME-OF-FLIGHT MASS SPECTROMETER

<i>Period</i>	<i>Obligations</i>	
09/07/1993-06/30/1996	FY95: \$94,000	TOTAL: \$294,901
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E MOBIUS	HQ/E C WHIPPLE	13-Physics
	HQ/J D BOHLIN	

**NASA'S UNIVERSITY PROGRAM
NEW HAMPSHIRE (Continued)**

NAGW 3761 University of New Hampshire - Durham 5883
DESIGN AND DEVELOPMENT FOR A MINUTE OF ARC GAMMA RAY
IMAGING EXPERIMENT

<i>Period</i>	<i>Obligations</i>	
10/28/1993-09/30/1995	FY95: \$50,000	TOTAL: \$115,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J RYAN	HQ/L J KALUZIENSKI	11-Astronomy
	HQ/A N BUNNER	

NAGW 4663 University of New Hampshire - Durham 5890
GLOBAL ANALYSIS, INTERPRETATION, AND MODELLING (GA IM)
FIRST INTERNATIONAL SCIENCE CONFERENCE

<i>Period</i>	<i>Obligations</i>	
07/31/1995-07/31/1996	FY95: \$88,855	TOTAL: \$88,855
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B MOORE, 111	HQ/M Y WEI	39-Env Sci, NEC
	HQ/N MAYNARD	

NAGW 3774 University of New Hampshire - Durham 5884
CONTROL OF METHANE PRODUCTION AND EXCHANGE IN NORTHERN
PEATLANDS

<i>Period</i>	<i>Obligations</i>	
10/01/1993-06/30/1996	FY95: \$127,500	TOTAL: \$336,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P M CRILL	HQ/D E WICKLAND	39-Env Sci, NEC
	HQ/A C JANETOS	

NAGW 4695 University of New Hampshire - Durham 5891
HUMAN DIMENSIONS OF DEFORESTATION AND REGROWTH IN THE
BRAZILIAN AMAZON: INTEGRATING DATA FROM SATELLITE

<i>Period</i>	<i>Obligations</i>	
08/18/1995-05/15/1996	FY95: \$110,000	TOTAL: \$110,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D SKOLE	HQ/N MAYNARD	79-Soc Sci, NEC
S SANDERSON	HQ/R C HARRISS	
C WOOD		

NAGW 3980 University of New Hampshire - Durham 5885
LOCALIZED IONOSPHERIC PARTICLE ACCELERATION

<i>Period</i>	<i>Obligations</i>	
05/25/1994-03/31/1996	FY95: \$31,820	TOTAL: \$52,635
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K LYNCH	HQ/M M MELLOTT	13-Physics
	HQ/J D BOHLIN	

NAGW 4706 University of New Hampshire - Durham 5892
GLOBAL ANALYSIS INTERPRETATION AND MODELLING: DEVELOPING
AN EARTH SYSTEMS MODELLING PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/24/1995-04/30/1996	FY95: \$178,981	TOTAL: \$178,981
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B MOORE	HQ/M Y WEI	39-Env Sci, NEC
	HQ/A C JANETOS	

NAGW 4204 University of New Hampshire - Durham 5886
BOREAS OUTREACH

<i>Period</i>	<i>Obligations</i>	
11/09/1994-10/31/1996	FY95: \$30,888	TOTAL: \$30,888
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D BARTLETT	HQ/D E WICKLAND	39-Env Sci, NEC
B N ROCK	HQ/A C JANETOS	
D MOSS		

NAGW 4783 University of New Hampshire - Durham 5893
HIGH SPECTRAL RESOLUTION REMOTE SENSING OF FOLIAR
CHEMISTRY AND SPECIES COMPOSITION

<i>Period</i>	<i>Obligations</i>	
09/22/1995-09/30/1998	FY95: \$41,851	TOTAL: \$41,851
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M E MARTIN	HQ/D E WICKLAND	39-Env Sci, NEC
J D ABER	HQ/A C JANETOS	

NAGW 4416 University of New Hampshire - Durham 5887
FLOODPLAIN AND RIVER DYNAMICS IN THREE LARGE SOUTH
AMERICAN RIVERS: AN INTEGRATION OF REMOTE SENSING

<i>Period</i>	<i>Obligations</i>	
04/20/1995-12/31/1995	FY95: \$67,220	TOTAL: \$67,220
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C J VOROSMARTY	HQ/D E WICKLAND	39-Env Sci, NEC
J M MELACK	HQ/A C JANETOS	
C J WILLMOTT		

NAS 5-26645 University of New Hampshire - Durham 5894
DEFINITION PHASE OF THE DETECTOR SUBSYSTEM FOR THE
COMPTTEL

<i>Period</i>	<i>Obligations</i>	
08/19/1981-06/30/1997	FY95: \$2,080,000	TOTAL: \$27,627,300
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J RYAN	GSFC/J NORRIS	11-Astronomy

NAGW 4518 University of New Hampshire - Durham 5888
DINETIC ALFVEN WAVE ELECTRON ACCELERATION ON AURORAL
FIELDS LINES

<i>Period</i>	<i>Obligations</i>	
05/26/1995-04/30/1998	FY95: \$53,635	TOTAL: \$53,635
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C KLETZING	HQ/D BOHLIN	13-Physics

NAS 5-30744 University of New Hampshire - Durham 5895
ELECTRON DRIFT EXPERIMENT AND ACTIVE SPACECRAFT
POTENTIAL

<i>Period</i>	<i>Obligations</i>	
11/22/1989-05/30/1995	FY95: \$567,069	TOTAL: \$10,517,669
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R TORBERT	GSFC/L CHRISTENSEN	13-Physics

NAGW 4539 University of New Hampshire - Durham 5889
MAGNETOTAIL-IONOSPHERE COUPLING

<i>Period</i>	<i>Obligations</i>	
06/06/1995-04/30/1998	FY95: \$67,700	TOTAL: \$67,700
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R L KAUFMANN	HQ/R A HOFFMAN	13-Physics
	HQ/J D BOHLIN	

NAS 5-31379 University of New Hampshire - Durham 5896
EOS INVESTIGATION: HIGH-RESOLUTION IMAGING
SPECTROMETER

<i>Period</i>	<i>Obligations</i>	
01/10/1992-12/31/1995	FY95:	TOTAL: \$596,640
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J ABER	GSFC/T BRAKE	39-Env Sci, NEC

**NASA'S UNIVERSITY PROGRAM
NEW HAMPSHIRE (Continued)**

NAS 5-32062 University of New Hampshire - Durham 5897
RESEARCH STUDY FOR DEVELOPMENT OF DATABASE OF SMM
GRS

<i>Period</i>	<i>Obligations</i>	
08/18/1992-12/17/1994	FY95:	TOTAL: \$143,800
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W T VESTRAND	GSFC/R OLIVERSEN	11-Astronomy

NCC 1-184 University of New Hampshire - Durham 5898
ANALYSIS AND PUBLICATION OF SELECTED NASA/GTE DACOM
DATA

<i>Period</i>	<i>Obligations</i>	
08/12/1993-05/14/1996	FY95: \$21,598	TOTAL: \$42,452
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R C HARRISS	LARC/G W SACHSE	31-Atmos Sci

NCC 5-56 University of New Hampshire - Durham 5899
SPECTRAL CHARACTERIZATION OF VEGETATION; AIR POLLU TION
EFFECTS ON CUTICLES, AND ASSESSMENT

<i>Period</i>	<i>Obligations</i>	
09/29/1993-09/30/1995	FY95:	TOTAL: \$41,317
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B N ROCK	GSFC/D L WILLIAMS GSFC/T BRAKKE	32-Geological Sci

NGT 00-030-059 University of New Hampshire - Durham 5900
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/09/1991-08/31/1994	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A D NOBRE R HARRISS	HQ/D M BUTLER HQ/G S WILSON	39-Env Sci, NEC

NGT 00-030-196 University of New Hampshire - Durham 5901
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/26/1993-08/31/1996	FY95: \$44,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W MCDOWELL	HQ/G ASRAR HQ/D M BUTLER	39-Env Sci, NEC

NGT 00-030-317 University of New Hampshire - Durham 5902
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/22/1995-08/31/1996	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J D ABER	HQ/A C JANETOS HQ/G ASRAR	39-Env Sci, NEC

NGT 00-040-030 University of New Hampshire - Durham 5903
NGT-40030/UNIV NEW HAMPSHIRE/NATIONAL SPACE GRANT
COLLEGE AND FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
05/29/1991-02/28/1998	FY95: \$273,012	TOTAL: \$937,012
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D S BARETT	HQ/E T SCHWARTZ	99-Multi-Discip

NGT 00-050-910 University of New Hampshire - Durham 5904
NASA GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
05/29/1992-06/30/1995	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R B TORBETT	HQ/J ALEXANDER	13-Physics

NGT 00-051-144 University of New Hampshire - Durham 5905
GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/28/1993-08/31/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P GRILL	HQ/G LESANE	43-Chem Engr

NGT 00-051-170 University of New Hampshire - Durham 5906
GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/28/1993-06/30/1995	FY95:	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J M RYAN	GSFC/G SOFFEN	13-Physics

NGT 00-051-404 University of New Hampshire - Durham 5907
GSRP

<i>Period</i>	<i>Obligations</i>	
07/21/1995-08/20/1998	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C KLETZING	HQ/D HOLLAND	13-Physics

NGT 00-080-009 University of New Hampshire - Durham 5908
INTERNATIONAL COLLABORATIVE EDUCATIONAL PROGRAM IN
EARTH SYS

<i>Period</i>	<i>Obligations</i>	
08/03/1989-06/30/1996	FY95: \$132,144	TOTAL: \$571,245
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E MOORE J D MORRISON	HQ/S G TILFORD HQ/G A LESANE	31-Atmos Sci

NEW JERSEY

NAG 2-940 Univ. of Medicine & Dentistry-Nj. 6019
ESA/NASA LOW-LEVEL ENVIRONMENTAL CO2 STUDY

<i>Period</i>	<i>Obligations</i>	
11/30/1994-09/30/1995	FY95: \$158,792	TOTAL: \$158,792
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R A PARISI	ARC/C M WINGET ARC/G C JAHNS	56-Medical Sciences

NAG 2-950 Univ. of Medicine & Dentistry-Nj. 6020
REDUCED GRAVITY: EFFECTS IN THE DEVELOPING NERVOU S
SYSTEM (DEFINITION PHASE)

<i>Period</i>	<i>Obligations</i>	
12/16/1994-11/30/1995	FY95: \$62,000	TOTAL: \$62,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R S KOWAKOWSKI	ARC/W E HINDS ARC/C M WINGET	51-Biological Sci

NAG 2-973 Univ. of Medicine & Dentistry-Nj. 6021
CLIAL CELL REACTION FROM SPACE FLIGHT

<i>Period</i>	<i>Obligations</i>	
03/27/1995-03/31/1996	FY95: \$26,286	TOTAL: \$26,286
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R S NOWAKOWSKI	ARC/W E HINDS ARC/C M WINGET	51-Biological Sci

**NASA'S UNIVERSITY PROGRAM
NEW JERSEY (Continued)**

NAG 8-1114 New Jersey Institute of Technology 5909
JOVE
Period *Obligations*
02/01/1995-05/31/1996 FY95: \$73,000 TOTAL: \$73,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S BAOHERI MSFC/F SIX 99-Multi-Discip
A SOHN
M BIEBER

NAG 3-1182 Princeton University 5917
MICROGRAVITY STRUCTURES OF SPHERICAL AND CYLINDRICAL
FLAMES IN STAGNANT AND VERTICAL ENVIRONEMENTS
Period *Obligations*
06/13/1990-02/10/1995 FY95: TOTAL: \$420,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C K LAW LERC/D P STOCKER 46-Mech Engr

NAGW 4732 New Jersey Institute of Technology 5910
YOHKOH, OVRO, AND BBSO OBSERVATIONS OF SOLAR FLARES
Period *Obligations*
09/05/1995-08/30/1996 FY95: \$74,722 TOTAL: \$74,722
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D H WANG HQ/W WAGNER 11-Astronomy

NAG 3-1231 Princeton University 5918
SCIENTIFIC SUPPORT FOR A SPACE SHUTTLE DROPLET BUR NING
EXPERIMENT / 6740
Period *Obligations*
01/02/1991-10/05/1996 FY95: \$190,401 TOTAL: \$847,992
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F L DRYER LERC/J B HAGGARD 49-Engr, NEC

NAG 1-1231 Princeton University 5911
DEVELOPMENT OF FILTERED RAYLEIGH SCATTERING FOR
ACCURATE MEASUREMENT OF GAS VELOCITY
Period *Obligations*
03/21/1991-09/14/1994 FY95: TOTAL: \$130,474
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R B MILES LARC/R R ANTCLIFF 13-Physics
W R LEMPERT

NAG 3-1242 Princeton University 5919
STUDIES OF PREMIXED LAMINAR AND TURBULENT FLAMES AT
MICROGRAVITY
Period *Obligations*
03/19/1991-10/05/1993 FY95: TOTAL: \$452,942
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P D RONNEY LERC/K J WEILAND 46-Mech Engr
V YAKHUT

NAG 1-1698 Princeton University 5912
STOCHASTIC JITTER PREDICTION FOR SPACECRAFT IN THE
PRESENCE OF MODELING UNCERTAINTIES
Period *Obligations*
03/15/1995-03/14/1996 FY95: \$84,365 TOTAL: \$84,365
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M P MAN LARC/P G MAGHAMI 42-Astro Engr

NAG 3-1418 Princeton University 5920
COMBUSTION SYNTHESIS OF MATERIALS IN MICROGRAVITY
Period *Obligations*
02/05/1993-12/31/1995 FY95: \$135,000 TOTAL: \$405,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I GLASSMAN LERC/M CASTRO-CEDANO 47-Materials Engr
LERC/T K GLASGOW

NAG 2-561 Princeton University 5913
STUDIES IN ROTORCRAFT SYSTEM IDENTIFICATION
Period *Obligations*
02/03/1989-10/31/1995 FY95: \$50,498 TOTAL: \$244,824
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H C CURTISS ARC/J W FLETCHER 41-Aero Engr
R M MCKILLUP ARC/M B TISCHLER

NAG 3-1587 Princeton University 5921
A STUDY OF HOT SECTION CHEMICAL KINETICS FOR GAS T URBINE
EMISSIONS PREDICTIONS
Period *Obligations*
04/12/1994-12/31/1995 FY95: \$216,000 TOTAL: \$403,165
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F DRYER LERC/R NIEDZWIECKI 41-Aero Engr
R YETTER

NAG 2-928 Princeton University 5914
RESEARCH INTO MESH GENERATION AND GEOMETRY MODELING
FOR COMPLEX CONFIGURATIONS
Period *Obligations*
09/22/1994-03/31/1995 FY95: TOTAL: \$85,451
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T J BAKER ARC/S E CLIFF 41-Aero Engr

NAG 3-1614 Princeton University 5922
COLLOID PHYSICS IN MIRCROGRAVITY
Period *Obligations*
06/14/1994-06/26/1996 FY95: \$164,542 TOTAL: \$328,757
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P M CHAIKIN LERC/T K GLASGOW 47-Materials Engr

NAG 2-988 Princeton University 5915
SOFIA SCIENCE WORKING GROUP
Period *Obligations*
06/17/1995-06/30/1996 FY95: \$14,262 TOTAL: \$14,262
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G R KNAPP ARC/E F ERICKSON 11-Astronomy

NAG 3-1713 Princeton University 5923
STUDIES OF FLAME STRUCTURES IN MICROGRAVITY
Period *Obligations*
03/28/1995-03/27/1996 FY95: \$110,000 TOTAL: \$110,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C K LAW LERC/K SACKSTEDER 49-Engr, NEC

NAG 3-1158 Princeton University 5916
THE DYNAMICS OF DISORDER - ORDER TRANSITIONS IN HA RD
SPHERE COLLOIDAL DISPERSIONS
Period *Obligations*
03/29/1990-08/31/1995 FY95: TOTAL: \$742,670
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P M CHAIKIN LERC/T K GLASGOW 47-Materials Engr
P G DEBENEDETTI

NAG 3-1762 Princeton University 5924
DYNAMICS OF HARD SPHERE COLLOIDAL DISPERSIONS
Period *Obligations*
06/27/1995-06/26/1996 FY95: \$340,000 TOTAL: \$340,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P M CHAIKIN LERC/J S LING 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
NEW JERSEY (Continued)**

NAG 5-616 Princeton University 5925
 INTERSTELLAR MEDIUM ABSORPTION PROFILE SPECTROGRAPH (IMAPS)
Period Obligations
 01/01/1983-10/31/1995 FY95: \$741,925 TOTAL: \$9,050,387
Prin. Invest. NASA Tech. Officer CASE Category
 E B JENKINS GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-1310 Princeton University 5926
 SCIENCE VALIDATION AND COSMOLOGICAL STUDIES OF DATA COBE SAT
Period Obligations
 11/15/1989-12/31/1994 FY95: TOTAL: \$440,456
Prin. Invest. NASA Tech. Officer CASE Category
 D T WILKINSON GSFC/J MATHER 11-Astronomy

NAG 5-1556 Princeton University 5927
 MODELING OF THE ARCTIC ICE-OCEAN DYNAMICS AND THERMODYNAMICS
Period Obligations
 05/01/1991-05/14/1994 FY95: TOTAL: \$54,803
Prin. Invest. NASA Tech. Officer CASE Category
 G L MELLOR GSFC/S HAKKINEN 39-Env Sci, NEC

NAG 5-1628 Princeton University 5928
 APPLICATIONS OF SIR-C SYNTHETIC APERTURE RADAR TO HYDROLOGY
Period Obligations
 06/27/1991-06/30/1996 FY95: \$65,000 TOTAL: \$316,836
Prin. Invest. NASA Tech. Officer CASE Category
 E WOOD GSFC/E T ENGMAN 39-Env Sci, NEC

NAG 5-1629 Princeton University 5929
 HST GTO PARTICIPATION
Period Obligations
 07/15/1991-10/31/1994 FY95: TOTAL: \$710,462
Prin. Invest. NASA Tech. Officer CASE Category
 E J GROTH GSFC/S SOBIESKI 11-Astronomy

NAG 5-1816 Princeton University 5930
 PROBING NEUTRON STAR EVOLUTION WITH GAMMA RAYS
Period Obligations
 09/30/1991-11/14/1995 FY95: TOTAL: \$153,218
Prin. Invest. NASA Tech. Officer CASE Category
 R WIJERS GSFC/J P NORRIS 11-Astronomy
 GSFC/C A GEHRELS

NAG 5-1854 Princeton University 5931
 GAMMA-RAY EMISSION FROM ACCRETING NEUTRON STARS AND GAMMA RAYS FROM RAPIDLY SPINNING PULSARS
Period Obligations
 01/02/1992-10/31/1994 FY95: TOTAL: \$142,888
Prin. Invest. NASA Tech. Officer CASE Category
 M TAVANI GSFC/J P NORRIS 11-Astronomy
 GSFC/C A GEHRELS

NAG 5-1875 Princeton University 5932
 RADIO SOURCES AND THE CLUSTER ENVIRONMENT ATZ = 0
Period Obligations
 02/10/1992-12/14/1995 FY95: TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A DALY GSFC/R PETRE 11-Astronomy

NAG 5-1901 Princeton University 5933
 MODELS AND SCENARIOS FOR GAMMA-RAY BURSTS
Period Obligations
 02/20/1992-12/31/1995 FY95: \$20,000 TOTAL: \$165,000
Prin. Invest. NASA Tech. Officer CASE Category
 B PACZYNSKI GSFC/J NORRIS 11-Astronomy
 GSFC/N GEHRELS

NAG 5-1940 Princeton University 5934
 THEORETICAL STUDIES OF CRUSTAL DEFORMATION DUE TO CLACIAL, TIDAL, AND ATMOSPHERIC LOADS
Period Obligations
 03/12/1992-03/14/1996 FY95: \$100,000 TOTAL: \$414,999
Prin. Invest. NASA Tech. Officer CASE Category
 W J MORGAN GSFC/B G BILLS 32-Geological Sci

NAG 5-2234 Princeton University 5935
 GAMMA-RAY EMISSION FROM GLOBULAR CLUSTERS
Period Obligations
 04/08/1993-04/14/1995 FY95: TOTAL: \$30,834
Prin. Invest. NASA Tech. Officer CASE Category
 M TAVANI GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2326 Princeton University 5936
 SIMULATION OF BOREAL ECOSYSTEM CARBON AND WATER BUDGETS: SCALING FROM LOCAL TO REGIONAL EXTENTS
Period Obligations
 07/16/1993-07/31/1996 FY95: \$5,000 TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 E WOOD GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P J SELLERS

NAG 5-2376 Princeton University 5937
 A REDDENING AND EXTINCTION MAP AT HIGH GALACTIC LATITUDES
Period Obligations
 09/23/1993-09/30/1996 FY95: TOTAL: \$62,700
Prin. Invest. NASA Tech. Officer CASE Category
 G R KNAPP GSFC/D WEST 11-Astronomy

NAG 5-2410 Princeton University 5938
 STUDIES OF HIGH ENERGY PULSARS WITH EGRET
Period Obligations
 10/26/1993-01/31/1996 FY95: \$53,186 TOTAL: \$103,186
Prin. Invest. NASA Tech. Officer CASE Category
 J H TAYLOR GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2412 Princeton University 5939
 CHARACTERIZING THE LARGE ANGULAR SCALE ANISOTROPY IN THE COSMIC MICROWAVE BACKGROUND
Period Obligations
 10/28/1993-10/31/1995 FY95: \$37,400 TOTAL: \$72,800
Prin. Invest. NASA Tech. Officer CASE Category
 L A PAGE GSFC/D WEST 11-Astronomy

NAG 5-2549 Princeton University 5940
 ANISOTROPY OF THE COSMIC MICROWAVE BACKGROUND ON LARGE AND MEDIUM ANGULAR SCALES
Period Obligations
 03/14/1994-03/31/1995 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 L PAGE GSFC/E CHENG 11-Astronomy
 GSFC/R F SILVERBERG

**NASA'S UNIVERSITY PROGRAM
NEW JERSEY (Continued)**

NAGW 2173 Princeton University 5957
 HUBBLE SPACE TELESCOPICS AND X-RAY STUDIES OF GRAVITATIONAL LENSES
Period *Obligations*
 06/21/1990-05/31/1996 FY95: \$31,406 TOTAL: \$407,385
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E L TURNER HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2419 Princeton University 5958
 ANGULAR MOMENTUM TRANSPORT IN ASTROPHYSICAL DISKS
Period *Obligations*
 08/05/1991-12/31/1994 FY95: TOTAL: \$309,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J GOODMAN HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2448 Princeton University 5959
 THE UNIVERSE AT MODERATE REDSHIFT
Period *Obligations*
 04/03/1991-01/01/1995 FY95: TOTAL: \$1,142,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J P OSTRIKER HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2538 Princeton University 5960
 MULTIPLE TIME SCALE NUMERICAL SIMULATIONS ON PLASMA TRANSPORT AT THE EARTH'S MAGNETOPAUSE
Period *Obligations*
 07/24/1991-10/31/1994 FY95: TOTAL: \$171,141
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H OKUDA HQ/M M MELLOTT 13-Physics
 HQ/J D BOHLIN

NAGW 2801 Princeton University 5961
 A NOVEL APPLICATION OF FOURIER TRANSFORM SPECTROSCOPY WITH HEMT AMPLIFIERS AT MICROWAVE FREQUENCIES
Period *Obligations*
 01/03/1992-01/31/1994 FY95: TOTAL: \$511,864
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D T WILKINSON HQ/J K ALEXANDER 11-Astronomy
 HQ/D A HOLLAND

NAGW 3124 Princeton University 5962
 THEORETICAL INVESTIGATIONS OF THE DYNAMICS OF PATTERN AND SCALE IN SERPENTINE GRASSLAND
Period *Obligations*
 06/29/1992-06/30/1995 FY95: \$101,219 TOTAL: \$286,905
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S A LEVIN HQ/M M AVERNER 54-Env Biology

NAGW 3137 Princeton University 5963
 NAGW-3137/PRINCETON UNIV/ASSIMILATION OF SATELLITE COLOR OBSERVATIONS IN A COUPLED OCEAN GCM-ECOSYSTEM
Period *Obligations*
 07/23/1992-05/31/1996 FY95: \$139,000 TOTAL: \$426,884
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J SARMIENTO HQ/R E MURPHY 33-Oceanography
 HQ/J A KAYE

NAGW 3589 Princeton University 5964
 THE TRANSITION FROM DIAPYCNISM TO DIKE INTRUSION
Period *Obligations*
 05/14/1993-03/31/1995 FY95: TOTAL: \$74,299
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A M RUBIN HQ/J M BOYCE 32-Geological Sci

NAGW 3706 Princeton University 5965
 ANALYSIS OF DEFORMATION OF VENUS
Period *Obligations*
 08/11/1993-04/30/1995 FY95: TOTAL: \$103,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J SUPPE HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3741 Princeton University 5966
 LANDSCAPE DYNAMICS OF NORTHEASTERN FORESTS
Period *Obligations*
 09/14/1993-06/30/1996 FY95: \$107,077 TOTAL: \$161,884
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S W PACALA HQ/D E WICKLAND 39-Env Sci, NEC
 S A LEVIN HQ/A C JANETOS
 C D CANHAN

NAGW 3952 Princeton University 5967
 SYSTEMATIC ASSESSMENT AND ANALYSIS OF TWO-DIMENSIONAL STRATOSPHERIC OZONE MODELS
Period *Obligations*
 04/19/1994-06/30/1997 FY95: \$93,000 TOTAL: \$143,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H ROBITZ HQ/J A KAYE 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 4688 Princeton University 5968
 INDIVIDUAL-BASED MODELS, AND SCALING FROM INDIVIDUALS TO LANGSCAPES
Period *Obligations*
 08/04/1995-07/31/1998 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S A LEVIN HQ/G ASRAR 39-Env Sci, NEC

NAS 5-30110 Princeton University 5969
 SPACE TELESCOPE IMAGING SPECTROGRAPH PROGRAM SUPPORT
Period *Obligations*
 06/17/1987-09/30/2001 FY95: \$72,000 TOTAL: \$335,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E JENKINS GSFC/D VITAGLINO 11-Astronomy

NAS 5-31719 Princeton University 5970
 EOS INVESTIGATION OF GLOBAL HYDROLOGIC PROCESSES AND CLIMATE
Period *Obligations*
 10/22/1991-10/21/1996 FY95: \$185,000 TOTAL: \$816,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E WOOD GSFC/W LAU 39-Env Sci, NEC

NAS 9-19324 Princeton University 5971
 DEFINITION PHASE OF NEUROLAB/STRESS OF SPACEFLIGHT : EFFECTS ON LEARNING
Period *Obligations*
 12/22/1994-10/22/1995 FY95: \$64,017 TOTAL: \$64,017
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T SHORES GSFC/S SAWYER 59-Life Sci, NEC
 R J SERVATIUS

NGL31-1252 Princeton University 5972
 AIR TRAFFIC CONTROL TECHNOLOGY \$100,000
Period *Obligations*
 11/15/1971-08/31/1995 FY95: TOTAL: \$1,969,885
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R F STENGEL LARC/F R MORRELL 41-Aero Engr
 L M SWEET

**NASA'S UNIVERSITY PROGRAM
NEW JERSEY (Continued)**

NGT 00-030-049 Princeton University 5973
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/09/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D S LIN HQ/D M BUTLER 39-Env Sci, NEC
 E F WOOD HQ/G S WILSON

NGT 00-051-295 Princeton University 5981
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/06/1994-10/31/1995 FY95: \$3,667 TOTAL: \$25,667
Prin. Invest. NASA Tech. Officer CASE Category
 N A BAHCALL HQ/D HOLLAND 11-Astronomy

NGT 00-030-197 Princeton University 5974
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/27/1993-08/31/1995 FY95: \$17,840 TOTAL: \$39,840
Prin. Invest. NASA Tech. Officer CASE Category
 S G PHILANDER HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-051-343 Princeton University 5982
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D A SAVILLE HQ/G A LESANE 43-Chem Engr

NGT 00-030-234 Princeton University 5975
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/06/1994-08/31/1996 FY95: \$40,240 TOTAL: \$40,240
Prin. Invest. NASA Tech. Officer CASE Category
 V RAMASWAMY HQ/J A KAYE 31-Atmos Sci
 HQ/G ASRAR

NGT 00-090-226 Princeton University 5983
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
 09/17/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 P BOGUCKI HQ/D K RUSSELL 99-Multi-Discip

NGT 00-030-264 Princeton University 5976
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/21/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 S W PASCALA HQ/A C JANETOS 33-Oceanography
 HQ/G ASRAR

NGT 3-52301 Princeton University 5984
 GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT
 RESEARCH PROGRAM
Period Obligations
 07/01/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 W B RUSSEL LERC/L SHAW 43-Chem Engr

NGT 00-030-288 Princeton University 5977
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/06/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 S G PHILANDER HQ/J S THEON 33-Oceanography
 HQ/G ASRAR

NAG 8-995 Rowan College of New Jersey 5985
 JOVE
Period Obligations
 11/19/1993-05/31/1996 FY95: \$28,227 TOTAL: \$69,040
Prin. Invest. NASA Tech. Officer CASE Category
 V BROWN MSFC/F SIX 51-Biological Sci

NGT 00-050-826 Princeton University 5978
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/12/1991-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R B MILES HQ/F C OWENS 13-Physics

NAG 2-668 Rutgers State University of Nj New Brunswick 6000
 CONTENT ADDRESSABLE MEMORY PROJECT
Period Obligations
 08/13/1990-10/31/1995 FY95: \$258,012 TOTAL: \$1,542,501
Prin. Invest. NASA Tech. Officer CASE Category
 G M HOMSY ARC/S LAU 22-Computer Science
 J S HALL ARC/D MCKELLAR

NGT 00-051-073 Princeton University 5979
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/24/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D A SAVILLE HQ/B CARPENTER 43-Chem Engr

NAG 2-798 Rutgers State University of Nj New Brunswick 6001
 DEVELOPMENT OF A TWO-EUATION TURBULENCE MODEL FOR
 HYPERSONIC FLOWS
Period Obligations
 08/24/1992-10/31/1994 FY95: TOTAL: \$128,581
Prin. Invest. NASA Tech. Officer CASE Category
 D D KNIGHT ARC/T J COAKLEY 41-Aero Engr
 ARC/J G MARVIN

NGT 00-051-140 Princeton University 5980
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/29/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C GROSS HQ/R WHITE 56-Medical Sciences

NAG 2-817 Rutgers State University of Nj New Brunswick 6002
 ARTIFICIAL INTELLIGENCE AND DESIGN OF AEROSPACE VEHICLES
Period Obligations
 12/18/1992-10/31/1995 FY95: \$120,668 TOTAL: \$582,438
Prin. Invest. NASA Tech. Officer CASE Category
 S AMAREL ARC/G H KIDWELL 41-Aero Engr
 L STEINBERG ARC/H MIURA

**NASA'S UNIVERSITY PROGRAM
NEW JERSEY (Continued)**

NAG 2-829 Rutgers State University of NJ New Brunswick 6003

FEATRUE ISOLATION AND QUANTIFICATION OF EVOLVING DAT
ASETS

<i>Period</i>	<i>Obligations</i>	
03/25/1993-01/31/1996	FY95: TOTAL: \$179,447	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D SILVER	ARC/T A LASINSKI	22-Computer Science

NGT 00-030-063 Rutgers State University of NJ New Brunswick 6010

NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/19/1991-03/31/1995	FY95: TOTAL: \$86,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M G HUGHES	HQ/D M BUTLER	39-Env Sci, NEC
D ROBINSON	HQ/G S WILSON	

NAG 9-26 Rutgers State University of NJ New Brunswick 6004

BERYLLIUM ISOTOPES IN METEORITES

<i>Period</i>	<i>Obligations</i>	
02/01/1983-03/01/1994	FY95: TOTAL: \$359,762	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G F HERZOG	JSC/I D BROWNE	11-Astronomy
T H KRUSE		

NGT 00-050-836 Rutgers State University of NJ New Brunswick 6011

NASA GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/01/1991-08/31/1994	FY95: TOTAL: \$66,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R H HEWINS	HQ/F C OWENS	32-Geological Sci

NAG 9-304 Rutgers State University of NJ New Brunswick 6005

PETROLOGY OF POLYMICT BECCIASONTHE MOON

<i>Period</i>	<i>Obligations</i>	
08/01/1988-11/01/1994	FY95: TOTAL: \$93,036	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J S DELANEY	JSC/I D BROWNE	32-Geological Sci

NGT 00-051-150 Rutgers State University of NJ New Brunswick 6012

GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/23/1993-07/31/1996	FY95: TOTAL: \$44,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J M WIENCEK	HQ/D A HOLLAND	43-Chem Engr

NAGW 3391 Rutgers State University of NJ New Brunswick 6006

SIMULATION AND ANALYSIS OF METEORIC MATERIALS

<i>Period</i>	<i>Obligations</i>	
03/19/1993-02/28/1997	FY95: \$123,229 TOTAL: \$315,780	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R H HEWINS	HQ/H C BRINTON	13-Physics

NAG 1-1559 Rutgers State University - Piscataway 5986

STOCHASTIC METHODS FOR AIRCRAFT DESIGN MY 1/3

<i>Period</i>	<i>Obligations</i>	
02/14/1994-04/30/1996	FY95: \$125,000 TOTAL: \$321,300	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R B PELZ	LARC/D H RUDY	41-Aero Engr
M M OGOT	LARC/M D SALOS	

NAGW 4109 Rutgers State University of NJ New Brunswick 6007

PRODUCTION OF TOMATOES IN TISSUE CULTURE

<i>Period</i>	<i>Obligations</i>	
08/30/1994-06/30/1995	FY95: TOTAL: \$66,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H W JANES	HQ/M M AVERNER	55-Agriculture Sci

NAG 1-1748 Rutgers State University - Piscataway 5987

POLAR CLOUD PARAMETERS RETRIEVED FROM HIRS AND AVH
RR DATA: ALGORITHM DEVELOPMENT

<i>Period</i>	<i>Obligations</i>	
08/28/1995-08/31/1996	FY95: \$30,638 TOTAL: \$30,638	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A FRANCIS	LARC/B A BAUM	31-Atmos Sci

NCA 2-664 Rutgers State University of NJ New Brunswick 6008

CONTROLLED ENVIRONMENT INTERCROPPING OF LETTUCE AND
TOMATOES

<i>Period</i>	<i>Obligations</i>	
10/07/1991-12/31/1993	FY95: TOTAL: \$61,847	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H W JANES	ARC/R D MACELROY	55-Agriculture Sci

NAG 3-1453 Rutgers State University - Piscataway 5988

OSCILLATORY THERMOCAPILLARY CONVECTION

<i>Period</i>	<i>Obligations</i>	
02/11/1993-08/31/1996	FY95: \$76,616 TOTAL: \$216,616	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A ZEBIB	LERC/R L THOMPSON	46-Mech Engr

NAG 5-2803 Rutgers State University - Piscataway 5989

DYNAMICS AND EVOLUTION OF GALAXIES

<i>Period</i>	<i>Obligations</i>	
12/01/1994-12/14/1996	FY95: \$210,000 TOTAL: \$210,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D MERRITT	GSFC/D WEST	11-Astronomy

NCC 2-802 Rutgers State University of NJ New Brunswick 6009

PROTOCOL AND RECORD FOR SCIENTIFIC MODEL DEVELOPM
ENT

<i>Period</i>	<i>Obligations</i>	
05/20/1993-12/31/1995	FY95: \$65,022 TOTAL: \$186,268	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T ELLMAN	ARC/S LAU	22-Computer Science
	ARC/D E THOMPSON	

NAG 8-975 Rutgers State University - Piscataway 5990

THERMAL OPTIMIZATION OF GROWTH AND QUALITY OF PROTEIN
CRYSTALS

<i>Period</i>	<i>Obligations</i>	
06/21/1993-06/14/1995	FY95: \$69,325 TOTAL: \$349,325	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D ARNOLD	MSFC/M L PUSEY	12-Chemistry
E ARNOLD		

**NASA'S UNIVERSITY PROGRAM
NEW JERSEY (Continued)**

NAGW 2263 Rutgers State University - Piscataway 5991
TRANSIENT HEATING IN THE SOLAR ACCRETION DISK
Period Obligations
02/26/1991-10/31/1995 FY95: \$45,000 TOTAL: \$230,000
Prin. Invest. NASA Tech. Officer CASE Category
R H HEWINS HQ/J A NUTH 19-Phys Sci, NEC

NGT 00-051-353 Rutgers State University - Piscataway 5999
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/18/1994-06/30/1995 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
J M WIENCEK HQ/G A LESANE 43-Chem Engr

NAGW 2658 Rutgers State University - Piscataway 5992
NAGW-2658/RUTGERS UNIV/A PARAMETERIZATION OF SUBGR
ID-SCALE LAND-ATMOSPHERE INTERACTIONS FOR ATOMSPH
Period Obligations
09/20/1991-12/31/1993 FY95: TOTAL: \$129,048
Prin. Invest. NASA Tech. Officer CASE Category
R AVISSAR HQ/R H WARING 31-Atmos Sci
HQ/R E MURPHY

NAG 8-1102 Stevens Institute of Technology 6013
JOVE
Period Obligations
10/21/1994-05/31/1996 FY95: \$59,000 TOTAL: \$59,000
Prin. Invest. NASA Tech. Officer CASE Category
W SCHWARZ MSFC/F SIX 19-Phys Sci, NEC
E CESMEBASI

NAGW 3499 Rutgers State University - Piscataway 5993
COSMOGENIC RADIONUCLIDES IN EXTRATERRESTRIAL
MATERIALS
Period Obligations
05/12/1993-02/29/1996 FY95: \$55,787 TOTAL: \$170,186
Prin. Invest. NASA Tech. Officer CASE Category
G F HERZOG HQ/J BOYCE 32-Geological Sci

NAGW 1877 Stevens Institute of Technology 6014
CAMDEN MIDDLE SCHOOL PROGRAM MATHEMATICS SCIENCE A
ND COMPUTER PROJECT
Period Obligations
02/07/1990-06/30/1996 FY95: \$172,780 TOTAL: \$450,201
Prin. Invest. NASA Tech. Officer CASE Category
T G WILLIAMS HQ/B L WHITE 29-Math/Computer, NEC
HQ/A LUDI

NAGW 3568 Rutgers State University - Piscataway 5994
KINEMATICS OF NORTHERN HEMISPHERE SNOW COVER AND R
ESULTANT IMPACTS ON SURFACE ALBEDO
Period Obligations
05/13/1993-04/30/1996 FY95: \$86,773 TOTAL: \$251,852
Prin. Invest. NASA Tech. Officer CASE Category
D A ROBINSON HQ/R H THOMAS 39-Env Sci, NEC
HQ/R A SCHIFFER

NAGW 4586 Stevens Institute of Technology 6015
ACOUSTIC BONE MASS AND TRABECULAR PROPERTY MEASURE
MENTS
Period Obligations
07/07/1995-04/30/1996 FY95: \$107,230 TOTAL: \$107,230
Prin. Invest. NASA Tech. Officer CASE Category
D M DONSKOY HQ/G SCHMIDT 59-Life Sci, NEC

NAGW 3649 Rutgers State University - Piscataway 5995
PETROLOGY AND TRACE ELEMENT GEOCHEMISTRY OF POLYMI
CT BRECCIAS AND CONSTITUENT LITHOLOGIES
Period Obligations
06/08/1993-01/01/1995 FY95: TOTAL: \$14,696
Prin. Invest. NASA Tech. Officer CASE Category
J DELANEY HQ/RAHE 32-Geological Sci

NGT 00-040-032 Stevens Institute of Technology 6016
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
06/05/1991-02/28/1995 FY95: \$170,000 TOTAL: \$830,000
Prin. Invest. NASA Tech. Officer CASE Category
D RICHMAN HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-030-164 Rutgers State University - Piscataway 5996
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/26/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D A ROBINSON HQ/G ASRAR 39-Env Sci, NEC
HQ/D M BUTLER

NAS 9-17276 Univ of Medicine And Dentistry 6017
STUDY-PROTEIN METABOLISM DURING SPACE FL
Period Obligations
11/01/1984-12/31/1995 FY95: \$165,135 TOTAL: \$1,979,220
Prin. Invest. NASA Tech. Officer CASE Category
P STEIN JSC/K NEWKIRK 56-Medical Sciences

NGT 00-030-351 Rutgers State University - Piscataway 5997
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
09/05/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
R G LATHROP JR. HQ/G ASRAR 33-Oceanography
HQ/M BALTUCK

NAS 9-18775 Univ of Medicine And Dentistry 6018
MEASUREMENT OF ENERGY EXPENDITURE DURING SPACE FLT
Period Obligations
10/09/1992-04/01/1997 FY95: \$150,000 TOTAL: \$228,231
Prin. Invest. NASA Tech. Officer CASE Category
T P STEIN JSC/J VILLARREAL 59-Life Sci, NEC

NGT 00-051-352 Rutgers State University - Piscataway 5998
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/08/1994-01/31/1995 FY95: TOTAL: \$8,423
Prin. Invest. NASA Tech. Officer CASE Category
J M WIENCEK HQ/G A LESANE 43-Chem Engr

NAG 2-4004 New Mexico Highlands University 6022
AUTOMATED CONTROL OF LASER SPECTROMETRY UTILIZED I N
FLOW VISUALIZATION
Period Obligations
01/31/1994-12/01/1994 FY95: TOTAL: \$12,346
Prin. Invest. NASA Tech. Officer CASE Category
G R GALLEGOS DFRC/J DEL FRATE 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
NEW MEXICO (Continued)**

NAG 8-196 New Mexico Highlands University 6023
JOINT VENTURE
Period *Obligations*
04/29/1991-08/31/1996 FY95: \$20,000 TOTAL: \$119,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B TAYLOR MSFC/F SIX 19-Phys Sci, NEC
B CLARK MSFC/C R CHAPPELL

NAG 8-1057 New Mexico Highlands University 6024
SYNTHESIS AND PREPARATION OF PHTHALOCYANINE THIN FILMS FOR NONLINEAR OPTICS
Period *Obligations*
05/26/1994-05/29/1996 FY95: \$298,340 TOTAL: \$298,340
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D CLARK MSFC/B G PENN 12-Chemistry

NAGW 4078 New Mexico Highlands University 6025
ALLIANCE FOR NONLINEAR OPTICS
Period *Obligations*
07/14/1994-05/30/1996 FY95: \$600,000 TOTAL: \$999,969
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D CLARK HQ/B L WHITE 19-Phys Sci, NEC

NAG10-161 New Mexico Highlands University 6026
FUZZY MICRO CONTROLLERS FOR CELLS APPLICATIONS
Period *Obligations*
06/05/1995-06/08/1996 FY95: \$136,939 TOTAL: \$136,939
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B TAYLOR KSC/J SAGER 59-Life Sci, NEC

NGT 00-090-070 New Mexico Highlands University 6027
INTEGRATED APPROACH TO ENGINEERING EDUCATION IN A MINORITY
Period *Obligations*
08/29/1992-12/31/1995 FY95: \$180,897 TOTAL: \$510,172
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H W TAYLOR HQ/B WHITE 99-Multi-Discip

NGT 00-090-237 New Mexico Highlands University 6028
NATIVE AMER. S CIENCE AND TECH EDUCATION CONSORTIUM
Period *Obligations*
10/19/1993-08/30/1996 FY95: \$950,804 TOTAL: \$2,090,965
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G SANCHEZ HQ/D RUSSELL 76-Sociology

NGT 00-090-284 New Mexico Highlands University 6029
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period *Obligations*
09/21/1995-08/14/1996 FY95: \$60,000 TOTAL: \$60,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B TAYLOR HQ/D RUSSELL 49-Engr, NEC

NAG 5-767 New Mexico Institute of Mining & Tech 6030
THE DEATH WATCH: MONITORING THE MOST MASSIVE STAR S IN THE LMC AND THE GALAXY
Period *Obligations*
04/15/1988-02/28/1994 FY95: TOTAL: \$194,654
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J RAYMOND GSFC/D WEST 11-Astronomy
D N BROWN
G SONNEBORN

NAG 5-2847 New Mexico Institute of Mining & Tech 6031
RADIATIVE PROCESSES AND TRACE GASES IN THE MIDDLE ATMOSPHERE
Period *Obligations*
12/21/1994-01/14/1996 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K MINSCHWANER GSFC/C JACKMAN 31-Atmos Sci

NAG 5-5004 New Mexico Institute of Mining & Tech 6032
DESIGN AND PRODUCTION OF SHAPED CHARGES HAVING CALCIUM LINER
Period *Obligations*
04/15/1993-04/14/1995 FY95: TOTAL: \$32,088
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P PERSSON GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 8-86 New Mexico Institute of Mining & Tech 6033
GRANT ENTITLED 'CLOUD LIGHTNING OBSERVATIONS FROM U-2 AIRCRAFT.'
Period *Obligations*
05/12/1986-10/21/1994 FY95: TOTAL: \$246,734
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M BROOK MSFC/R BLAKESLEE 45-Elec Engr
MSFC/H J CHRISTIAN

NAG 8-1123 New Mexico Institute of Mining & Tech 6034
ANALYSIS OF TOGA COARE LIGHTNING DATA
Period *Obligations*
02/22/1995-02/21/1996 FY95: \$35,968 TOTAL: \$35,968
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M BROOK MSFC/R J BLAKESLEE 31-Atmos Sci
MSFC/H J CHRISTIAN

NAG10-175 New Mexico Institute of Mining & Tech 6035
COMPARISON OF LIGHTNING OBSERVATIONS FROM THE KSC LDAR SYSTEM WITH RADAR OBSERVATION
Period *Obligations*
06/26/1995-07/02/1996 FY95: \$6,836 TOTAL: \$6,836
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P KREHBIEL KSC/L MAIER 31-Atmos Sci
W RISON

NCC 1-142 New Mexico Institute of Mining & Tech 6036
A STUDY OF VARIATIONS OF NITROGEN DIOXIDE USING SME AND SAGE DATA.
Period *Obligations*
06/18/1990-12/31/1993 FY95: TOTAL: \$42,298
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J THOMAS LARC/J M ZAWODNY 31-Atmos Sci

NCC 2-364 New Mexico Institute of Mining & Tech 6037
EVOLUTION OF PHOTON AND PARTICLE SPECTRA IN COMPA LUMINOUS OBJECTS
Period *Obligations*
10/01/1987-08/31/1996 FY95: TOTAL: \$114,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A EILEK ARC/F C WITTEBORN 11-Astronomy

NAG 3-1328 New Mexico State University - Las Cruces 6038
CHARACTERIZATION OF ADVANCED COMPOSITE MATERIALS USING THE ACOUSTO-ULTRASONIC NDE METHOD
Period *Obligations*
02/12/1992-10/31/1994 FY95: TOTAL: \$36,961
Prin. Invest. *NASA Tech. Officer* *CASE Category*
V K CHOO LERC/A VARY 47-Materials Engr

**NASA'S UNIVERSITY PROGRAM
NEW MEXICO (Continued)**

NAG 5-1491 New Mexico State University - Las Cruces 6039
TELEMETERING AND TELECOMMUNICATIONS RESEARCH
Period Obligations
12/10/1990-01/31/1996 FY95: \$999,152 TOTAL: \$4,160,228
Prin. Invest. NASA Tech. Officer CASE Category
F CARDEN GSFC/D WILSON 49-Engr, NEC
S HORAN GSFC/W H MILLER

NAG 5-2747 New Mexico State University - Las Cruces 6046
X-RAY SPECTRA OF DISTANT GALAXY CLUSTERS
Period Obligations
10/05/1994-04/14/1996 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
E ELLINGSON GSFC/N WHITE 11-Astronomy

NAG 5-1516 New Mexico State University - Las Cruces 6040
OPTICAL AND GAMMA RAY STUDY OF GRO PHASE I TARGETS
Period Obligations
04/17/1991-02/29/1996 FY95: \$68,000 TOTAL: \$185,923
Prin. Invest. NASA Tech. Officer CASE Category
B J MCNAMARA GSFC/J P NORRIS 11-Astronomy
GSFC/D A KNIFFEN

NAG 5-2896 New Mexico State University - Las Cruces 6047
GALAXY MASSES AT MODERATE REDSHIFT
Period Obligations
02/21/1995-02/29/1996 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
E ELLINGSON GSFC/R PETRE 13-Physics

NAG 5-1737 New Mexico State University - Las Cruces 6041
ROSAT PSPC OBSERVATION OF POOR CLUSTERS CONTAINING EXTENDED RADIO SOURCES
Period Obligations
08/15/1991-12/14/1994 FY95: TOTAL: \$69,000
Prin. Invest. NASA Tech. Officer CASE Category
J O BURNS GSFC/R PETRE 11-Astronomy

NAG 8-939 New Mexico State University - Las Cruces 6048
STUDIES OF DUST AND ULTRAVIOLET TELESCOPES ON THE MOON
Period Obligations
10/01/1992-10/14/1993 FY95: \$1,055 TOTAL: \$13,960
Prin. Invest. NASA Tech. Officer CASE Category
J O BURNS MSFC/M E NEIN 42-Astro Engr

NAG 5-1819 New Mexico State University - Las Cruces 6042
OBSERVATIONS OF POOR GALAXY CLUSTERS WITH EXTENDED RADIO SOURCES
Period Obligations
11/01/1991-10/31/1994 FY95: TOTAL: \$31,000
Prin. Invest. NASA Tech. Officer CASE Category
J O BURNS GSFC/R PETRE 11-Astronomy

NAG 8-986 New Mexico State University - Las Cruces 6049
DEFINITION OF THE LUNAR ENVIRONMENT MEASUREMENT PACKAGE FOR THE LUNAR ULTRAVIOLET TRANSIT TELESCOP
Period Obligations
07/29/1993-07/31/1994 FY95: TOTAL: \$9,356
Prin. Invest. NASA Tech. Officer CASE Category
J D BURNS MSFC/M E NEIN 31-Atmos Sci

NAG 5-1924 New Mexico State University - Las Cruces 6043
X-RAY EMISSION FROM THE EDGE-ON SPIRAL NGC4631
Period Obligations
03/04/1992-07/14/1994 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
R A WALTERBOS GSFC/R PETRE 11-Astronomy

NAG 9-610 New Mexico State University - Las Cruces 6050
STUDY USE OF WHITE SANDS MISSILE RANGE AS LANDING SITE FOR SPACE CAPSULES
Period Obligations
06/16/1992-03/31/1995 FY95: TOTAL: \$920,000
Prin. Invest. NASA Tech. Officer CASE Category
G R PARKER JSC/K HENDERSON 41-Aero Engr
B M MCCUNE

NAG 5-2426 New Mexico State University - Las Cruces 6044
A NEW APPROACH TO MODELLING THE FAR-INFRARED RADIATION IN GALAXIES
Period Obligations
11/10/1993-11/14/1995 FY95: TOTAL: \$66,600
Prin. Invest. NASA Tech. Officer CASE Category
R A WALTERBOS GSFC/D WEST 11-Astronomy

NAGW 110 New Mexico State University - Las Cruces 6051
CONTINUATION OF A COSMIC RAY RESEARCH PROGRAM USING
Period Obligations
08/01/1980-12/31/1995 FY95: \$362,000 TOTAL: \$2,861,813
Prin. Invest. NASA Tech. Officer CASE Category
R L GOLDEN HQ/M M MELLOTT 11-Astronomy
HQ/W V JONES

NAG 5-2702 New Mexico State University - Las Cruces 6045
ROSAT IMAGING OF INTER-PLANETARY NETWORK GAMMA - RAY BURST
Period Obligations
08/24/1994-02/29/1996 FY95: TOTAL: \$14,000
Prin. Invest. NASA Tech. Officer CASE Category
B MCNAMARA GSFC/R PETRE 11-Astronomy

NAGW 1802 New Mexico State University - Las Cruces 6052
LONG TERM CHANGES IN REFLECTIVITY AND LARGE SCALE MOTIONS
Period Obligations
07/10/1989-03/31/1996 FY95: \$44,000 TOTAL: \$359,360
Prin. Invest. NASA Tech. Officer CASE Category
R REEBE HQ/J RAHE 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
NEW MEXICO (Continued)**

NAGW 2016 New Mexico State University - Las Cruces 6053

NAGW-2016/NEW MEXICO STATE UNIV/A RESEARCH PROGRAM IN THE AREA OF COSMIC RAY PHYSICS AND RELATED LAB.
Period *Obligations*
 04/04/1990-02/29/1996 FY95: \$54,000 TOTAL: \$308,110
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W R WEBBER HQ/W JONES 13-Physics
 HQ/J C LING

NAS 5-31688 New Mexico State University - Las Cruces 6060

SOUNDING ROCKET ENGINEERING SUPPORT
Period *Obligations*
 04/11/1990-04/30/1995 FY95: \$1,462,055 TOTAL: \$12,169,217
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K LANE WFF/W W WEST 41-Aero Engr
 WFF/W R POWELL

NAGW 2630 New Mexico State University - Las Cruces 6054

THE RADIAL DISTRIBUTIONS OF FAR INFRARED LUMINOSITY IN LARGE SPIRAL GALAXIES
Period *Obligations*
 09/16/1991-08/31/1996 FY95: \$174,613 TOTAL: \$463,726
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N A DEVEREUX HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAS 5-32252 New Mexico State University - Las Cruces 6061

SOUNDING ROCKET ENGINEERING SUPPORT
Period *Obligations*
 04/21/1995-04/30/1996 FY95: \$1,310,790 TOTAL: \$1,310,790
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A BAKER GSFC/N SCHULTZ 45-Elec Engr

NAGW 3022 New Mexico State University - Las Cruces 6055

TRANSPORT COLLABORATION
Period *Obligations*
 04/03/1992-05/31/1997 FY95: \$45,860 TOTAL: \$199,860
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W R WEBBER HQ/W V JONES 13-Physics
 HQ/J D BOHLIN

NCC 2-5048 New Mexico State University - Las Cruces 6062

CONSTRUCTION OF GRAY ATMOSPHERE MODELS FOR URANUS AND NEPTUNE
Period *Obligations*
 04/20/1994-11/30/1994 FY95: TOTAL: \$12,639
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M S MARLEY ARC/J B POLLACK 11-Astronomy

NAGW 3152 New Mexico State University - Las Cruces 6056

STUDIES OF ASTROPHYSICAL PLASMAS IN CLUSTERS OF GALAXIES
Period *Obligations*
 07/23/1992-06/30/1996 FY95: \$143,081 TOTAL: \$549,359
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J BURNS HQ/G R RIEGLER 11-Astronomy

NCC 2-5118 New Mexico State University - Las Cruces 6063

CLIMATIC EFFECT OF IMPACT-INDUCED STRATOSPHERIC HAZES ON JUPITER
Period *Obligations*
 03/08/1995-11/30/1995 FY95: \$15,296 TOTAL: \$15,296
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M S MARLEY ARC/C P MCKAY 11-Astronomy

NAGW 4558 New Mexico State University - Las Cruces 6057

ADVANCEMENT IN DETERMINING HAZARDOUS VOLATILE ORGANIC COMPOUNDS
Period *Obligations*
 05/31/1995-05/31/1997 FY95: \$145,658 TOTAL: \$145,658
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G A EICEMAN HQ/G C FOGLEMAN 59-Life Sci, NEC

NGT 00-040-019 New Mexico State University - Las Cruces 6064

NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period *Obligations*
 03/12/1990-01/31/1997 FY95: \$380,000 TOTAL: \$2,157,850
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S HORAN HQ/E T SCHWARTZ 99-Multi-Discip

NAS 5-30105 New Mexico State University - Las Cruces 6058

ENGINEERING SUPPORT SERVICES FOR SHUTTLE SOLAR BACKSCATTER ULTRAVIOLET (SSBUV) EXPERIMENT
Period *Obligations*
 04/24/1987-09/30/1993 FY95: TOTAL: \$328,844
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 UNAVAILABLE GSFC/D WILLIAMS 41-Aero Engr

NGT 00-050-898 New Mexico State University - Las Cruces 6065

NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/20/1992-08/16/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W P OSBORNE GSFC/G SOFFEN 45-Elec Engr

NAS 5-31125 New Mexico State University - Las Cruces 6059

O/M OF NATIONAL SCIENTIFIC BALLOON FACILITY AND ENGINEERING SUPPORT FOR NASA BALLOON PROGRAM
Period *Obligations*
 09/14/1992-09/30/1997 FY95: \$14,835,517 TOTAL: \$44,981,326
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J E HALLIGAN GSFC/R S NOCK 39-Env Sci, NEC
 GSFC/H C NEEDLEMAN

NGT 00-051-383 New Mexico State University - Las Cruces 6066

GRADUATE STUDIES RESEARCHERS PROGRAM
Period *Obligations*
 06/26/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M S MARLEY HQ/D HOLLAND 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
NEW MEXICO (Continued)**

NGT 00-070-288 **New Mexico State University - Las Cruces** **6067**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
 08/18/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R D COLBAUGH JPL/H ASKHENAS 46-Mech Engr

NGT 00-070-341 **New Mexico State University - Las Cruces** **6068**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
 06/30/1993-06/30/1996 FY95: \$22,225 TOTAL: \$66,225
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 V GHOO HQ/D RUSSELL 79-Soc Sci, NEC

NGT 00-090-114 **New Mexico State University - Las Cruces** **6069**
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 09/17/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P HYNES HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-115 **New Mexico State University - Las Cruces** **6070**
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UNF)
Period *Obligations*
 09/23/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P HYNES HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-161 **New Mexico State University - Las Cruces** **6071**
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 08/26/1993-08/14/1996 FY95: \$96,000 TOTAL: \$168,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P HYNES HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-255 **New Mexico State University - Las Cruces** **6072**
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period *Obligations*
 12/19/1994-08/14/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P HYNES HQ/D K RUSSELL 12-Chemistry

NAG 5-2285 **University of Albuquerque** **6073**
 HIGH CONSTRAINT LENGTH VITERBI DECODER
Period *Obligations*
 06/10/1993-06/30/1994 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K CAMERON GSFC/W H MILLER 49-Engr, NEC
 GSFC/J C MORAKIS

NAG 3-1346 **University of New Mexico** **6074**
 HYDROGEN COMPATIBILITY STUDIES OF SOLID CORE NUCLEAR THERMAL PROPULSION REACTORS AND SUPPORTING SYSTEMS
Period *Obligations*
 04/14/1992-11/30/1994 FY95: TOTAL: \$51,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M S EL-GENK LERC/K M PEECOOK 49-Engr, NEC
 D G PEL ACCIO LERC/J R STONE

NAG 5-2166 **University of New Mexico** **6075**
 ADVANCED SPACE QUALIFIED LOSSLESS DATA COMPRESSION VLSI
Period *Obligations*
 12/30/1992-03/31/1994 FY95: TOTAL: \$129,923
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J VENBRUX GSFC/P YEH 49-Engr, NEC
 GSFC/W H MILLER

NAG 5-2190 **University of New Mexico** **6076**
 HIGH PERFORMANCE LOSSY DATA COMPRESSION SYSTEM
Period *Obligations*
 01/21/1993-06/30/1995 FY95: TOTAL: \$99,890
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K CAMERON GSFC/P YEH 49-Engr, NEC
 GSFC/W H MILLER

NAG 5-2191 **University of New Mexico** **6077**
 SPACE QUALIFIED REED SOLOMON ENCODER/DECODER VLSI
Period *Obligations*
 01/26/1993-12/31/1994 FY95: TOTAL: \$321,580
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S WHITAKER GSFC/W H MILLER 49-Engr, NEC
 G MAKI GSFC/D A DALTON

NAG 5-2609 **University of New Mexico** **6078**
 HIGH PERFORMANCE COMMUNICATION VLSI ARCHITECTURES
Period *Obligations*
 06/13/1994-06/30/1996 FY95: \$470,000 TOTAL: \$925,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G K MAKI GSFC/W H MILLER 49-Engr, NEC
 S WHITAKER GSFC/P S YEH
 K CAMERON

NAG 8-940 **University of New Mexico** **6079**
 DEFINITION OF THE LUNAR TRANSIT TELESCOPE
Period *Obligations*
 10/21/1992-04/30/1994 FY95: TOTAL: \$63,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J T MCGRAW MSFC/M E NEIN 42-Astro Engr

NAG 9-401 **University of New Mexico** **6080**
 GLYCEROL-INDUCED HYPERHYDRATION
Period *Obligations*
 10/01/1989-01/01/1995 FY95: TOTAL: \$297,052
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M L RIEDESEL JSC/S M FORTNEY 56-Medical Sciences

NAGW 3293 **University of New Mexico** **6081**
 NAGW-3293/UNIV NEW MEXICO/NASA SPACE ENGINEERING RESEARCH CENTER FOR VLSI SYSTEMS DESIGN
Period *Obligations*
 11/27/1992-10/31/1995 FY95: \$750,000 TOTAL: \$3,830,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G MAKI HQ/R J HAYDUK 29-Math/Computer, NEC
 HQ/P H SMITH

NAGW 3347 **University of New Mexico** **6082**
 MICROBEAM STUDIES OF PLANETARY MATERIALS
Period *Obligations*
 01/13/1993-12/14/1996 FY95: \$216,895 TOTAL: \$635,592
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J J PAPIKE HQ/H C BRINTON 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
NEW MEXICO (Continued)**

NAGW 3626 University of New Mexico 6083
 LAYER SILICATES AND CARBONACEOUS MATERIALS IN CHON DRITE
 INTERPLANETARY DUST
Period *Obligations*
 06/02/1993-03/31/1996 FY95: \$85,000 TOTAL: \$245,679
Prin. Invest. NASA Tech. Officer CASE Category
 F RIETMEIJER HQ/J BOYCE 32-Geological Sci

NGT 00-070-329 University of New Mexico 6091
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 07/01/1993-06/30/1996 FY95: \$21,915 TOTAL: \$65,745
Prin. Invest. NASA Tech. Officer CASE Category
 J K MCIVER HQ/D K RUSSELL 13-Physics

NAGW 3646 University of New Mexico 6084
 PETROLOGICAL ANALYSIS OF ASTROPHYSICAL DUST ANALOG
 EVOLUTION
Period *Obligations*
 08/06/1993-02/29/1996 FY95: \$30,000 TOTAL: \$106,776
Prin. Invest. NASA Tech. Officer CASE Category
 F J RIETMEIJER HQ/J A NUTH III 19-Phys Sci, NEC

NGT 00-090-052 University of New Mexico 6092
 UNDERGRADUATE RESEARCHER PROGRAM FOR ENGINEERING P
 HYSICAL SCIENCES AAND MATHEMATICS
Period *Obligations*
 08/23/1991-08/31/1996 FY95: \$79,098 TOTAL: \$386,291
Prin. Invest. NASA Tech. Officer CASE Category
 M LEE HQ/B WHITE 49-Engr, NEC

NAG10-160 University of New Mexico 6085
 CHEMICAL SENSORS
Period *Obligations*
 06/27/1995-07/31/1996 FY95: \$109,686 TOTAL: \$109,686
Prin. Invest. NASA Tech. Officer CASE Category
 G LOPEZ KSC/J SAGER 59-Life Sci, NEC

NGT 00-090-221 University of New Mexico 6093
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period *Obligations*
 09/14/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 M LEE HQ/D K RUSSELL 99-Multi-Discip

NAS 5-30749 University of New Mexico 6086
 SUPPORT SERVICE FOR ULTRAVIOLET IMAGING TELESCOPE
Period *Obligations*
 12/20/1989-12/19/1994 FY95: TOTAL: \$94,956
Prin. Invest. NASA Tech. Officer CASE Category
 F KUPELLMER GSFC/A BLUM 11-Astronomy

NGT32-4770 University of New Mexico 6094
 THE TRAINING OF 12 STUDENTS IN A PRE-COOPERATIVE
 EDUCATION PROGRAM
Period *Obligations*
 06/25/1977-05/31/1996 FY95: \$476,775 TOTAL: \$2,756,653
Prin. Invest. NASA Tech. Officer CASE Category
 M LEE HQ/O A GUTIERREZ 49-Engr, NEC

NASW 4683 University of New Mexico 6087
 NASW-4683/UNIV NEW MEXICO/OPERATION OF TECHNOLOGY
 APPLICATION CENTER
Period *Obligations*
 05/01/1992-12/31/1995 FY95: \$100,000 TOTAL: \$1,045,469
Prin. Invest. NASA Tech. Officer CASE Category
 T M BUDGE HQ/A KAHN 39-Env Sci, NEC
 S MORAN

NEW YORK

NAG 5-2937 Barnard College 6095
 ARE THERE ANY 'TRUE' SEYFERT 2 GALAXIES?
Period *Obligations*
 05/08/1995-11/14/1996 FY95: \$22,352 TOTAL: \$22,352
Prin. Invest. NASA Tech. Officer CASE Category
 L KAY GSFC/N WHITE 11-Astronomy

NCCW 87 University of New Mexico 6088
 CENTER FOR AUTOMOOONOMOUS CONTROL ENGINEERING
Period *Obligations*
 08/04/1995-06/30/2000 FY95: \$1,419,903 TOTAL: \$1,419,903
Prin. Invest. NASA Tech. Officer CASE Category
 T L COLEMAN HQ/B L WHITE 39-Env Sci, NEC

NAG 1-1159 City University of New York City College 6096
 COMPUTATION OF UNSTEADY BOUNDARY LAYERS, CALCULA-
 TION AND STABILITY OF SUPERSONIC WAKES.
Period *Obligations*
 08/19/1990-01/31/1996 FY95: TOTAL: \$292,569
Prin. Invest. NASA Tech. Officer CASE Category
 A ACRIVOS LARC/M G MACARAEG 41-Aero Engr
 D PAPAGEORGIOU LARC/A KUMAR

NGT 00-010-029 University of New Mexico 6089
 NASA SPACE ENGINEERING RESEARCH CENTER FOR VLSI SYSTEM
 DESIGN
Period *Obligations*
 12/09/1994-10/31/1997 FY95: \$95,328 TOTAL: \$95,328
Prin. Invest. NASA Tech. Officer CASE Category
 G K MAKI HQ/V BITTINGER 49-Engr, NEC

NAG 1-1590 City University of New York City College 6097
 STUDIES OF SHOCK WAVE INTERACTIONS WITH HOMOGENEOUS
 AND ISOTROPIC TURBULENCE
Period *Obligations*
 03/01/1994-02/28/1996 FY95: \$101,084 TOTAL: \$151,084
Prin. Invest. NASA Tech. Officer CASE Category
 C WATKINS LARC/D M BUSHNELL 41-Aero Engr
 Y ANDREPOULOS

NGT 00-070-223 University of New Mexico 6090
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 06/25/1991-07/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J J PAPIKE HQ/F C OWENS 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 3-1167 City University of New York City College 6098
MOLECULAR DYNAMICS OF A FLUID-SOLID SYSTEM

<i>Period</i>	<i>Obligations</i>	
05/07/1990-12/31/1996	FY95: \$132,610	TOTAL: \$682,610
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J KOPLIK	LERC/R W VERNON	13-Physics
J R BANEVAR		

NAGW 4118 City University of New York City College 6106
ELECTRON COLLISIONS WITH FREE RADICALS

<i>Period</i>	<i>Obligations</i>	
08/17/1994-06/30/1997	FY95: \$40,000	TOTAL: \$80,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K BECKER	HQ/J BERGARAN	31-Atmos Sci

NAG 3-1490 City University of New York City College 6099
INVESTIGATION OF THE BASIC PHYSICS OF HIGH EFFICIE NCV SEMICONDUCTOR HOT CARRIER SOLAR CELLS

<i>Period</i>	<i>Obligations</i>	
04/21/1993-05/30/1996	FY95: \$148,072	TOTAL: \$451,364
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R R ALFANO	LERC/B S GOOD	45-Elec Engr
	LERC/L WEINBERG	

NAGW 4576 City University of New York City College 6107
ADVANCING MINORITIES IN SCIENCE AND ENGINEERING ED UCATION

<i>Period</i>	<i>Obligations</i>	
06/13/1995-03/31/1996	FY95: \$151,800	TOTAL: \$151,800
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J BARBA	HQ/M MATEU	99-Multi-Discip

NAG 3-1618 City University of New York City College 6100
CONTROLLING THE MOBLILITY OF A FLUID PARTICLE IN S ACE BY USING REMOBLIZING SURFACTANTS

<i>Period</i>	<i>Obligations</i>	
06/16/1994-07/09/1996	FY95: \$50,000	TOTAL: \$100,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C MALDARELLI	LERC/M M WEISLOGEL	19-Phys Sci, NEC
D PAPAGEORGIU	LERC/R THOMPSON	

NCA 2-695 City University of New York City College 6108
EARLY EVOLUTION OF PLANET-FORMING DISKS

<i>Period</i>	<i>Obligations</i>	
03/20/1992-03/31/1994	FY95:	TOTAL: \$22,414
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C YUAN	ARC/P CASSEN	11-Astronomy

NAG 8-261 City University of New York City College 6101
JOVE

<i>Period</i>	<i>Obligations</i>	
12/08/1992-05/31/1996	FY95:	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G G GOSS	MSFC/F SIX	99-Multi-Discip

NCC 5-74 City University of New York City College 6109
COOPERATIVE RESEARCH AND EDUCATION

<i>Period</i>	<i>Obligations</i>	
06/28/1994-06/30/1996	FY95: \$403,353	TOTAL: \$644,912
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L P JONES	GSFC/D TRAVIS	39-Env Sci, NEC
J W FROST		

NAGW 690 City University of New York City College 6102
REMOTE SENSING RESEARCH ON RADAR

<i>Period</i>	<i>Obligations</i>	
12/01/1984-01/31/1995	FY95:	TOTAL: \$1,213,979
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W J PIERSON	HQ/G S LAGERLOEF	33-Oceanography
	HQ/W S WILSON	

NCC 5-98 City University of New York City College 6110
AN URBAN COLLABORATION FOR NETWORK CONNECTIVITY AND INTERNET ACCESS

<i>Period</i>	<i>Obligations</i>	
09/13/1995-09/14/1996	FY95: \$400,000	TOTAL: \$400,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S AUSTIN	GSFC/J BENNETT	22-Computer Science

NAGW 1704 City University of New York City College 6103
DEVELOPMENT MATURATION AND PHYSIOLOGY OF THE BRAIN-PITUITARY

<i>Period</i>	<i>Obligations</i>	
03/03/1989-01/31/1995	FY95:	TOTAL: \$299,996
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M P SCHREIBMAN	HQ/T W HALSTEAD	51-Biological Sci

NGT 00-090-056 City University of New York City College 6111
UNDERGRADUATE STUDENT RESEARCHERS PRG

<i>Period</i>	<i>Obligations</i>	
10/28/1991-08/31/1995	FY95:	TOTAL: \$51,925
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C WATKINS	HQ/B WHITE	99-Multi-Discip
A BROWN		
C MORNING		

NAGW 3860 City University of New York City College 6104
POSTURE LOAD INDUCED BONE MAINTENANCE

<i>Period</i>	<i>Obligations</i>	
01/26/1994-12/31/1995	FY95: \$80,000	TOTAL: \$160,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S COWIN	HQ/F M SULZMAN	46-Mech Engr

NGT 00-090-251 City University of New York City College 6112
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)

<i>Period</i>	<i>Obligations</i>	
01/11/1995-08/14/1996	FY95: \$96,000	TOTAL: \$96,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A R BROWN	HQ/D K RUSSELL	44-Civil Engr

NAGW 4098 City University of New York City College 6105
TUNABLE SOLID STATE LASERS AND OPTICAL IMAGING

<i>Period</i>	<i>Obligations</i>	
08/02/1994-08/31/1997	FY95:	TOTAL: \$399,492
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R ALFANO	HQ/B L WHITE	13-Physics

NGT 00-090-053 La Guardia Community College 6332
UNDERGRADUATE STUDENT RESEARCHERS PRG

<i>Period</i>	<i>Obligations</i>	
08/22/1991-08/31/1996	FY95: \$144,000	TOTAL: \$288,262
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C WATKINS	HQ/D K RUSSELL	45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 5-2291 City University of Ny - Staten Island 6113
AN AI SYSTEM TO AID IN SUBMITTING SOFTWARE TO THE SOFTWARE UNION CATALOGUE
Period *Obligations*
07/22/1993-08/14/1994 FY95: TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M TAUSNER GSFC/B JACOBS 22-Computer Science

NAG 4-103 Clarkson University 6120
INSTRUCTION QUALITY, ACCESS, RELEVANCE AND RETENTION IN SCIENCE
Period *Obligations*
07/19/1995-09/30/1995 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M N GLAUSER DFRC/L DUKE 99-Multi-Disc
G LEE/GLAUSER
J B LAYTON

NAG 1-1481 Clarkson University 6114
THEORETICAL AND EXPERIMENTAL STUDIES IN AEROSPACE SCIENCES NLPN 92-1002
Period *Obligations*
01/28/1993-01/27/1996 FY95: \$11,999 TOTAL: \$96,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M N LARC/S O KJELGAARD 41-Aero Engr
G AHMADI
G LEE-GLAUSER

NAG 5-1809 Clarkson University 6121
RAPID THERMAL PROCESSING OF SEMICONDUCTORS IN SPAC E
Period *Obligations*
09/19/1991-11/30/1994 FY95: TOTAL: \$198,944
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W R WILCOX GSFC/L R PURVES 47-Materials Engr

NAG 1-1699 Clarkson University 6115
JET MIXING ENHANCEMENT BY FEEDBACK CONTROL
Period *Obligations*
03/08/1995-03/05/1996 FY95: \$61,946 TOTAL: \$61,946
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M GLAUSER LARC/J M SEINER 41-Aero Engr
T CORKE LARC/M K PONTON
G BERKOOZ

NAG 5-2471 Clarkson University 6122
EXPERIMENTAL AND ANALYTICAL STUDIES OF CAPILLARY-P UMPED LOOP HEAT PIPES
Period *Obligations*
12/22/1993-01/14/1996 FY95: \$73,872 TOTAL: \$147,744
Prin. Invest. *NASA Tech. Officer* *CASE Category*
N T OBOT GSFC/J KU 49-Engr, NEC

NAG 2-724 Clarkson University 6116
INSTRUMENTATION DEVELOPMENT FOR MULTIPOINT MEASUREMENTS
Period *Obligations*
07/24/1991-08/08/1996 FY95: \$100,000 TOTAL: \$354,369
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M N GLAUSER DFRC/P HARNEY 41-Aero Engr
DFRC/R K BOGUE

NAG 8-753 Clarkson University 6123
INFLUENCE OF CONVECTION ON MICROSTRUCTURES.
Period *Obligations*
08/15/1988-08/16/1994 FY95: TOTAL: \$339,627
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W R WILCOX MSFC/F R SZOFRAN 13-Physics
MSFC/S D COBB

NAG 3-1122 Clarkson University 6117
THERMOCAPILLARY MIGRATION AND INTERACTIONS OF BUBBLE AND DROPS
Period *Obligations*
01/10/1990-01/09/1996 FY95: \$168,000 TOTAL: \$1,028,490
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R S SUBRAMANIAN LERC/M E HILL 19-Phys Sci, NEC

NAG 8-1063 Clarkson University 6124
MODELING OF DETACHED SOLIDIFICATION
Period *Obligations*
06/23/1994-06/22/1996 FY95: \$53,000 TOTAL: \$108,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L L REGEL MSFC/J P DOWNEY 47-Materials Engr
W R WILCOX

NAG 3-1470 Clarkson University 6118
INTERACTIONS OF BUBBLES AND DROPS IN A TEMPERATURE GRADIENT
Period *Obligations*
03/04/1993-03/01/1996 FY95: \$50,000 TOTAL: \$150,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R S SUBRAMANIAN LERC/R L THOMPSON 43-Chem Engr

NAGW 976 Clarkson University 6125
THREE (3) MONTHS NCE UNDER ELIMINATION CLAUSE
Period *Obligations*
09/01/1986-04/30/1995 FY95: TOTAL: \$8,360,123
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W R WILCOX HQ/W ORAN 51-Biological Sci
B HOEKSTRA HQ/R P WHITTEN

NAG 3-1777 Clarkson University 6119
DAMAGE PROGRESSION IN COMPOSITE STRUCTURE
Period *Obligations*
08/09/1995-01/31/1996 FY95: \$5,000 TOTAL: \$5,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L MINNETYAN LERC/C C CHAMIS 41-Aero Engr

NAGW 3471 Clarkson University 6126
FIRST INTERNATIONAL WORKSHOP ON G-JITTER
Period *Obligations*
04/14/1993-02/28/1995 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L L REGAL HQ/G L MARTIN 13-Physics

NGT 00-050-825 Clarkson University 6127
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/12/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G AHMADI HQ/F C OWENS 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 5-1949 Columbia University 6145
 KINEMATICS OF THE NEW ZEALAND PLATE BOUNDARY: REL ACTIVE
 MOTION BY GPS ACROSS NETWORKS
Period Obligations
 03/18/1992-05/31/1996 FY95: \$27,500 TOTAL: \$134,615
Prin. Invest. NASA Tech. Officer CASE Category
 J BEAVAN GSFC/B G BILLS 32-Geological Sci

NAG 5-2309 Columbia University 6153
 ARCHAEOLOGY OF THE LOCAL BUBBLE: A SERENDIPITOUS
 SPECTROSCOPIC SURVEY OF THE EUV DIFFUSE
Period Obligations
 07/01/1993-07/14/1995 FY95: TOTAL: \$153,950
Prin. Invest. NASA Tech. Officer CASE Category
 D C MARTIN GSFC/R OLIVERSEN 11-Astronomy

NAG 5-1958 Columbia University 6146
 ECLIPSING CATAclySMIC VARIABLES
Period Obligations
 03/30/1992-10/14/1995 FY95: TOTAL: \$86,000
Prin. Invest. NASA Tech. Officer CASE Category
 J O PATTERSON GSFC/R PETRE 11-Astronomy

NAG 5-2414 Columbia University 6154
 THE MANY FACES OF AE AQUARII
Period Obligations
 11/06/1993-11/14/1995 FY95: \$35,000 TOTAL: \$63,500
Prin. Invest. NASA Tech. Officer CASE Category
 J O PATTERSON GSFC/D WEST 11-Astronomy

NAG 5-1960 Columbia University 6147
 FOUR-DIMENSIONAL OCEANIC AND ATMOSPHERIC DATA ASSI
 MILATION WITH THE TRMM DATA
Period Obligations
 04/03/1992-04/14/1996 FY95: \$110,000 TOTAL: \$405,000
Prin. Invest. NASA Tech. Officer CASE Category
 K TAKANO GSFC/O W THIELE 31-Atmos Sci

NAG 5-2524 Columbia University 6155
 WARM ABSORBERS: THE MOMENT OF TRUTH AND THE GEMINGA
 PULSAR
Period Obligations
 02/24/1994-03/14/1996 FY95: TOTAL: \$37,011
Prin. Invest. NASA Tech. Officer CASE Category
 J P HALPERN GSFC/N WHITE 11-Astronomy

NAG 5-2016 Columbia University 6148
 RED-SHIFTED ELECTRON-POSITRON ANNIHILATION GAMMA-R AYS
 FROM RADIOPULSARS
Period Obligations
 07/15/1992-07/14/1996 FY95: \$15,000 TOTAL: \$102,500
Prin. Invest. NASA Tech. Officer CASE Category
 M A RUDERMAN GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2556 Columbia University 6156
 NEW STARBURST GALAXIES WITH EXTREME X-RAY LUMINOSI TIES
 AND THROUGH THE GAS DARKLY: AN UNOBSERVED.....
Period Obligations
 03/10/1994-09/30/1996 FY95: \$55,752 TOTAL: \$85,752
Prin. Invest. NASA Tech. Officer CASE Category
 D J HELFAND GSFC/N WHITE 11-Astronomy

NAG 5-2017 Columbia University 6149
 BLACK HOLE MODELS FOR GAMMA-RAY BURSTS
Period Obligations
 07/15/1992-07/14/1994 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 J SHAHAM GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2569 Columbia University 6157
 DISTANCE TO THE GEMINGA PULSAR
Period Obligations
 04/12/1994-04/14/1996 FY95: TOTAL: \$86,658
Prin. Invest. NASA Tech. Officer CASE Category
 J P HALPERN GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2051 Columbia University 6150
 MULTIWAVELENGTH OBSERVATIONS OF UNIDENTIFIED HIGH-
 ENERGY GAMMA-RAY SOURCES
Period Obligations
 07/28/1992-02/14/1996 FY95: \$21,412 TOTAL: \$150,412
Prin. Invest. NASA Tech. Officer CASE Category
 J P HALPERN GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2729 Columbia University 6158
 SEARCH FOR HARD X-RAY EMISSION FROM AQUILA X-1; HIGH
 ENERGY EMISSION FROM THE GAMMA-RAY/RADIO
Period Obligations
 09/27/1994-09/30/1996 FY95: \$90,575 TOTAL: \$90,575
Prin. Invest. NASA Tech. Officer CASE Category
 M TAVANI GSFC/J P NORRIS 11-Astronomy
 B A HARMON GSFC/N WHITE

NAG 5-2058 Columbia University 6151
 IES SUPPLEMENT TO OPEN-OCEAN VALIDATION OF TOPEX/P
 OSEIDON SEA LEVEL
Period Obligations
 08/05/1992-08/14/1994 FY95: TOTAL: \$124,861
Prin. Invest. NASA Tech. Officer CASE Category
 E J KATZ GSFC/A J BUSALACCHI 33-Oceanography

NAG 5-2730 Columbia University 6159
 X-RAY EMISSION FROM THE BE-STAR/PULSAR SYSTEM PSR
 1259-63
Period Obligations
 09/20/1994-09/14/1996 FY95: TOTAL: \$12,500
Prin. Invest. NASA Tech. Officer CASE Category
 TAVANI GSFC/N WHITE 11-Astronomy

NAG 5-2235 Columbia University 6152
 GAMMA-RAY EMISSION FROM GLOBULAR CLUSTERS
Period Obligations
 04/08/1993-04/14/1996 FY95: \$43,021 TOTAL: \$87,614
Prin. Invest. NASA Tech. Officer CASE Category
 P KAARET GSFC/J NORRIS 11-Astronomy

NAG 5-2841 Columbia University 6160
 NEUTRON STAR PHENOMENA
Period Obligations
 12/15/1994-01/14/1996 FY95: \$89,000 TOTAL: \$89,000
Prin. Invest. NASA Tech. Officer CASE Category
 M RUDERMAN GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 5-2859 Columbia University 6161
TIDAL POWER, IRRADIATION-DRIVEN WINDS, AND THE EVOLUTION OF THE ECLIPSING MILLISECOND P
Period Obligations
01/09/1995-01/14/1997 FY95: \$230,000 TOTAL: \$230,000
Prin. Invest. NASA Tech. Officer CASE Category
J APPELGATE GSFC/D WEST 11-Astronomy

NAG 9-529 Columbia University 6169
SPACE RADIATION EFFECTS ON NEURITOGENESIS
Period Obligations
05/22/1991-07/01/1995 FY95: TOTAL: \$325,670
Prin. Invest. NASA Tech. Officer CASE Category
B V WORGUL JSC/D MORRISON 56-Medical Sciences
R J SOHN

NAG 5-2861 Columbia University 6162
THE GAMMA-RAY LUMINOSITY FUNCTION OF RADIO PULSARS
Period Obligations
01/06/1995-01/14/1996 FY95: \$17,136 TOTAL: \$17,136
Prin. Invest. NASA Tech. Officer CASE Category
D J HELFAND GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 9-621 Columbia University 6170
DOSE RATE EFFECTS WITH EAST PROTONS/PILOT STUDIES
Period Obligations
06/30/1992-10/01/1993 FY95: TOTAL: \$47,500
Prin. Invest. NASA Tech. Officer CASE Category
D J BRENNER JSC/C YANG 59-Life Sci, NEC

NAG 5-2872 Columbia University 6163
GAMMA RAY OBSERVATIONS OF THE ORION CLOUD REGION WITH EGRET
Period Obligations
01/18/1995-01/31/1996 FY95: \$6,905 TOTAL: \$6,905
Prin. Invest. NASA Tech. Officer CASE Category
E APRILE GSFC/J P NORRIS 11-Astronomy
R MUKHERJEE GSFC/N WHITE

NAGW 895 Columbia University 6171
INFLUENCE OF CLIMATE CHANGE ON DEEP SEA VENTILATION
Period Obligations
05/15/1986-11/14/1994 FY95: TOTAL: \$1,200,031
Prin. Invest. NASA Tech. Officer CASE Category
W S BROECKER HQ/M J KURYLO 31-Atmos Sci
B HAMELIN HQ/R T WATSON

NAG 5-2916 Columbia University 6164
1)THE ORIGIN OF HIGH X-RAY LUMINOSITIES IN OPTICALLY PASSIVE GALAXIES;2) RESOLVING THE SOURCE ETC
Period Obligations
03/17/1995-03/31/1996 FY95: \$26,126 TOTAL: \$26,126
Prin. Invest. NASA Tech. Officer CASE Category
D HELFAND GSFC/R PETRE 11-Astronomy

NAGW 916 Columbia University 6172
MODELING STUDIES
Period Obligations
07/01/1986-10/31/1995 FY95: \$110,000 TOTAL: \$1,039,527
Prin. Invest. NASA Tech. Officer CASE Category
M A CANE HQ/G S LAGERLOEF 33-Oceanography
HQ/W S WILSON

NAG 5-2987 Columbia University 6165
SCALE-SPACE (WAVELET) ANALYSIS OF TOPOGRAPHY, AND ITS USE IN UNDERSTANDING THE EVOLUTION OF ETC.....
Period Obligations
06/30/1995-06/30/1996 FY95: \$70,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
J WEISSEL GSFC/H V FREY 32-Geological Sci

NAGW 1579 Columbia University 6173
EFFECTS OF SIMULATED MICROGRAVITY AND HYPERGRAVITY ON
Period Obligations
02/01/1989-10/31/1994 FY95: TOTAL: \$372,919
Prin. Invest. NASA Tech. Officer CASE Category
D J WOLGEMUTH HQ/T HALSTEAD 59-Life Sci, NEC

NAG 5-2991 Columbia University 6166
EUVE SPECTROSCOPY OF THE ACCRETION REGION IN AMHERCULIS
Period Obligations
07/03/1995-07/14/1996 FY95: \$18,539 TOTAL: \$18,539
Prin. Invest. NASA Tech. Officer CASE Category
F B PAERELS GSFC/R OLIVERSEN 11-Astronomy

NAGW 1618 Columbia University 6174
PHYSICS OF SYSTEMS CONTAINING NEUTRON STARS
Period Obligations
01/18/1989-12/31/1995 FY95: TOTAL: \$398,575
Prin. Invest. NASA Tech. Officer CASE Category
J SHAHAM HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAG 5-3014 Columbia University 6167
RE-OBSERVING THE FIRST HOURS OF SUPERNOVA 1987A
Period Obligations
07/18/1995-07/31/1996 FY95: \$32,000 TOTAL: \$32,000
Prin. Invest. NASA Tech. Officer CASE Category
A P CROTTIS GSFC/D WEST 11-Astronomy

NAGW 2013 Columbia University 6175
DEVELOPMENT OF A HIGH RESOLUTION LIQUID XENON IMAGING TELESCOPE FOR MEDIUM ENERGY GAMMA-RAY ASTROPHYSICS
Period Obligations
02/27/1990-12/31/1995 FY95: \$295,000 TOTAL: \$1,451,840
Prin. Invest. NASA Tech. Officer CASE Category
E APRILE HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAG 9-329 Columbia University 6168
EARLY DIFFERENTIATION OF THE MOON
Period Obligations
03/01/1989-09/01/1994 FY95: \$1,387 TOTAL: \$472,797
Prin. Invest. NASA Tech. Officer CASE Category
J LONGHI JSC/I D BROWNE 19-Phys Sci, NEC

NAGW 2189 Columbia University 6176
NAGW-2189/COLUMBIA UNIV/INVESTIGATIONS OF GLOBAL SHORT WAVE AND PHOTOSYNTHETICALLY ACTIVE SURFACE
Period Obligations
07/25/1990-04/30/1996 FY95: \$90,000 TOTAL: \$407,343
Prin. Invest. NASA Tech. Officer CASE Category
J K BISHOP HQ/M R LEWIS 33-Oceanography
R N SAMBROTTO HQ/W S WILSON

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAGW 2479 Columbia University 6177
 AGES AND ABUNDANCES OF BULGE POPULATIONS
Period Obligations
 05/07/1991-04/30/1996 FY95: \$70,300 TOTAL: \$329,400
Prin. Invest. NASA Tech. Officer CASE Category
 R M RICH HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 3362 Columbia University 6185
 SEA ICE ON THE SOUTHERN OCEAN
Period Obligations
 01/29/1993-02/28/1996 FY95: \$94,441 TOTAL: \$327,344
Prin. Invest. NASA Tech. Officer CASE Category
 S S JACOBS HQ/R H THOMAS 33-Oceanography
 HQ/R A SCHIFFER

NAGW 2507 Columbia University 6178
 THE ORIGIN OF THE COSMIC X-RAY BACKGROUND
Period Obligations
 06/17/1991-04/30/1996 FY95: \$195,000 TOTAL: \$865,000
Prin. Invest. NASA Tech. Officer CASE Category
 D J HELFAND HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 3407 Columbia University 6186
 EXPERIMENTAL AND MODELING STUDIES OF MASSIF ANORTH OSITES
Period Obligations
 03/01/1993-02/28/1996 FY95: \$28,658 TOTAL: \$87,482
Prin. Invest. NASA Tech. Officer CASE Category
 J LONGHI HQ/H C BRINTON 32-Geological Sci

NAGW 2565 Columbia University 6179
 ACCRETION PROCESSES IN CATAclysmic BINARIES
Period Obligations
 08/06/1991-04/30/1996 FY95: \$133,000 TOTAL: \$610,603
Prin. Invest. NASA Tech. Officer CASE Category
 J O PATTERSON HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 3434 Columbia University 6187
 EARLY DIFFERENTIATION OF THE MOON: EXPERIMENTAL AND MODELING STUDIES
Period Obligations
 03/05/1993-02/28/1996 FY95: \$116,526 TOTAL: \$341,284
Prin. Invest. NASA Tech. Officer CASE Category
 J LONGHI HQ/H C BRINTON 32-Geological Sci

NAGW 2593 Columbia University 6180
 LARGE-FORMAT, HIGH RESOLUTION MICROCHANNEL PLATE DETECTORS FOR ULTRAVIOLET ASTRONOMY
Period Obligations
 08/02/1991-08/31/1994 FY95: TOTAL: \$270,000
Prin. Invest. NASA Tech. Officer CASE Category
 C MARTIN HQ/R STACHNIK 99-Multi-Discip

NAGW 3539 Columbia University 6188
 DIRECT OBSERVATION OF WAVE INDUCED CHAOS
Period Obligations
 04/27/1993-01/31/1996 FY95: \$70,958 TOTAL: \$221,299
Prin. Invest. NASA Tech. Officer CASE Category
 M E MAUEL HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAGW 2599 Columbia University 6181
 NAGW-2599/COLUMBIA UNIV/ERS-1 SAR INVESTIGATION OF ICE KINEMATICS AND SURFACE WIND FIELDS IN THE WEDDE
Period Obligations
 08/07/1991-10/31/1994 FY95: TOTAL: \$184,248
Prin. Invest. NASA Tech. Officer CASE Category
 D L MARTINSON HQ/R H THOMAS 33-Oceanography

NAGW 3945 Columbia University 6189
 FABREY-PEROT SPECTROSCOPY IN THE FAR ULTRAVIOLET
Period Obligations
 04/25/1994-01/31/1995 FY95: TOTAL: \$39,021
Prin. Invest. NASA Tech. Officer CASE Category
 C MARTIN HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 2668 Columbia University 6182
 NAGW-2668/COLUMBIA UNIV/A PRECALCULUS/CALCULUS MOD EL PROJECT TO INCREASE THE POOL OF AFRICAN HISPAN
Period Obligations
 09/17/1991-06/30/1996 FY95: TOTAL: \$415,300
Prin. Invest. NASA Tech. Officer CASE Category
 G LOPEZ JPL/Y FREEMAN 29-Math/Cmputer,NEC
 HQ/B L WHITE

NAGW 4208 Columbia University 6190
 SPACE RADIATION EFFECTS ON NEURITOGENESIS
Period Obligations
 11/14/1994-09/30/1995 FY95: \$90,015 TOTAL: \$90,015
Prin. Invest. NASA Tech. Officer CASE Category
 B V WORGUL HQ/F M SULZMAN 56-Medical Sciences
 M E VAZQUEZ

NAGW 3010 Columbia University 6183
 NUMERICAL SIMULATIONS OF PLASMA TURBULENCE IN THE EQUATORIAL ELECTROJET
Period Obligations
 03/20/1992-04/30/1994 FY95: TOTAL: \$130,064
Prin. Invest. NASA Tech. Officer CASE Category
 G A NAVRATIL HQ/M MELLOTT 13-Physics
 HQ/J D BOHLIN

NAGW 4219 Columbia University 6191
 THE CHANCELLOR'S MODEL SCHOOL PROJECT
Period Obligations
 11/28/1994-08/31/1996 FY95: \$454,808 TOTAL: \$454,808
Prin. Invest. NASA Tech. Officer CASE Category
 G J LOPAZ HQ/B L WHITE 76-Sociology

NAGW 3075 Columbia University 6184
 A THEORETICAL ANALYSIS OF THERMAL RADIATION FROM NEUTRON STARS
Period Obligations
 05/15/1992-03/31/1996 FY95: TOTAL: \$180,000
Prin. Invest. NASA Tech. Officer CASE Category
 J APPLGATE HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAGW 4462 Columbia University 6192
 MARKERS FOR ASSESSING VERTEBRATE DEVELOPMENT IN SP ACE
Period Obligations
 05/04/1995-12/31/1997 FY95: \$128,244 TOTAL: \$128,244
Prin. Invest. NASA Tech. Officer CASE Category
 W J WOLGEMUTH HQ/T K SCOTT 59-Life Sci, NEC

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAGW 4482 Columbia University 6193
 THE NEW X-RAY/GAMMA-RAY PULSARS
Period Obligations
 05/26/1995-06/14/1996 FY95: \$90,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
 J HALPERN HQ/G R RIEGLER 11-Astronomy

NCC 5-45 Columbia University 6201
 A NEW APPROACH TO THE STUDY OF THE TURBULENT LAYER
Period Obligations
 09/17/1991-09/30/1993 FY95: TOTAL: \$111,525
Prin. Invest. NASA Tech. Officer CASE Category
 R A LEVENSON GSFC/V CANUTO 31-Atmos Sci

NAGW 4589 Columbia University 6194
 IMPROVED SEA ICE/UPPER OCEAN MODELING IN THE GISS GCM
 FOR INVESTIGATING CLIMATE CHANGE
Period Obligations
 06/30/1995-05/31/1998 FY95: \$60,577 TOTAL: \$60,577
Prin. Invest. NASA Tech. Officer CASE Category
 D G MARTINSON HQ/R H THOMAS 39-Env Sci, NEC
 R RIND HQ/M BALTUCK
 C PARKINSON

NCC 5-61 Columbia University 6202
 INTERDISCIPLINARY CLIMATE APPLICATIONS STUDIES
Period Obligations
 03/14/1994-03/31/1996 FY95: \$496,700 TOTAL: \$988,586
Prin. Invest. NASA Tech. Officer CASE Category
 C E ROSENWEIG GSFC/L D TRAVIS 39-Env Sci, NEC

NAGW 4693 Columbia University 6195
 THEORETICAL CALCULATION AND VALIDATION OF THE WATER
 VAPOR CONTINUUM ABSORPTION
Period Obligations
 08/11/1995-07/31/1998 FY95: \$55,000 TOTAL: \$55,000
Prin. Invest. NASA Tech. Officer CASE Category
 Q MA HQ/G ASRAR 31-Atmos Sci

NCC 5-72 Columbia University 6203
 RAPID PALEOCLIMATIC CHANGE
Period Obligations
 06/28/1994-06/30/1996 FY95: \$27,567 TOTAL: \$54,112
Prin. Invest. NASA Tech. Officer CASE Category
 G J KUKLA GSFC/B A CARLSON 32-Geological Sci

NAGW 4734 Columbia University 6196
 A PROGRAM IN BROAD BANDWIDTH IMAGING GAMMA-RAY
 ASTRONOMY
Period Obligations
 09/08/1995-06/30/1996 FY95: \$75,668 TOTAL: \$75,668
Prin. Invest. NASA Tech. Officer CASE Category
 C HAILEY HQ/L J KALUZIENSKI 11-Astronomy

NCC 5-82 Columbia University 6204
 INTERDISCIPLINARY GLOBAL CHANGE RESEARCH
Period Obligations
 12/01/1994-12/31/1995 FY95: \$347,000 TOTAL: \$347,000
Prin. Invest. NASA Tech. Officer CASE Category
 L DRUYAN GSFC/S GREEN 11-Astronomy

NAS 5-32063 Columbia University 6197
 STUDY - 'A COMPLETE PUBLIC ARCHIVE FOR THE EINSTEIN IPC'
Period Obligations
 09/24/1982-09/23/1996 FY95: TOTAL: \$185,600
Prin. Invest. NASA Tech. Officer CASE Category
 D HELFOND GSFC/R OLIVERSEN 11-Astronomy

NGT 00-030-081 Columbia University 6205
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/11/1991-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 K G HARRISON HQ/D M BUTLER 39-Env Sci, NEC
 W BROECKER HQ/G S WILSON

NCC 5-29 Columbia University 6198
 ATMOSPHERIC, CLIMATIC AND ENVIRONMENTAL RESEARCH
Period Obligations
 10/01/1983-12/31/1994 FY95: TOTAL: \$5,617,199
Prin. Invest. NASA Tech. Officer CASE Category
 W S BROECKER GSFC/L D TRAVIS 31-Atmos Sci
 V M GORNITZ

NGT 00-030-162 Columbia University 6206
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/24/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R G FAIRBANKS HQ/G ASRAR 99-Multi-Discip
 HQ/D M BUTLER

NCC 5-34 Columbia University 6199
 MODELING OF OCEAN CIRCULATION AND ATMOSPHERIC CHEMICAL
 SYSTEMS
Period Obligations
 11/15/1985-11/30/1995 FY95: \$1,544,390 TOTAL: \$4,450,623
Prin. Invest. NASA Tech. Officer CASE Category
 C K CHU GSFC/R STOTHERS 31-Atmos Sci

NGT 00-030-166 Columbia University 6207
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R BELL HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NCC 5-44 Columbia University 6200
 MODELLING OF ATMOSPHERIC CIRCULATION AND CHEMISTRY
Period Obligations
 09/13/1991-10/31/1995 FY95: \$288,950 TOTAL: \$2,069,936
Prin. Invest. NASA Tech. Officer CASE Category
 L POLVANI GSFC/D PETEET 31-Atmos Sci

NGT 00-030-171 Columbia University 6208
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W S BROECKER HQ/G ASRAR 32-Geological Sci
 HQ/D M BUTLER

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NGT 00-030-177 Columbia University 6209
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D M PETEET HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-050-777 Columbia University 6217
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/10/1991-06/30/1996 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C MARTIN HQ/F C OWENS 11-Astronomy

NGT 00-030-185 Columbia University 6210
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R G FAIRBANKS HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-050-792 Columbia University 6218
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/28/1991-06/30/1996 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C MARTIN HQ/F C OWENS 13-Physics

NGT 00-030-186 Columbia University 6211
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G BOND HQ/G ASRAR 33-Oceanography
 HQ/D M BUTLER

NGT 00-051-038 Columbia University 6219
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/06/1993-05/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 P KAARET JPL/C HIX 13-Physics

NGT 00-030-217 Columbia University 6212
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A L GORDON HQ/G ASRAR 33-Oceanography
 HQ/D M BUTLER

NGT 8-52806 Columbia University 6220
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/01/1993-05/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 P KAARET MSFC/B A HARMON 13-Physics

NGT 00-030-277 Columbia University 6213
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/02/1994-08/31/1995 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 W S BROECKER HQ/J S THEON 33-Oceanography
 HQ/G ASRAR

NCC 2-5101 Cooper Union 6221
 SIGNAL ANALYSIS OF PARTIALLY POLARIZED LIGHT REFLECTED BY PLANT CANOPIES
Period Obligations
 09/16/1994-09/30/1996 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 F L FONTAINE ARC/V C VANDERBILT 39-Env Sci, NEC

NGT 00-030-278 Columbia University 6214
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/02/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 P N FROELICH HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NAG 1-1184 Cornell University 6222
 CRACK GROWTH PREDICTION METHODOLOGY FOR MULTI-SITE DAMAGE D
Period Obligations
 09/27/1990-09/30/1995 FY95: \$115,346 TOTAL: \$634,680
Prin. Invest. NASA Tech. Officer CASE Category
 A R INGRAFFEA LARC/J C NEWMAN 46-Mech Engr
 D V SWENSON LARC/C E HARRIS

NGT 00-030-310 Columbia University 6215
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 07/22/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J E HANSEN HQ/R A SCHIFFER 31-Atmos Sci
 HQ/G ASRAR

NAG 1-1311 Cornell University 6223
 MODE I/II FATIGUE CRACK GROWTH MEASUREMENTS IN 2024 ALUMINUM SHEET - FDP
Period Obligations
 08/08/1991-09/30/1995 FY95: \$70,000 TOTAL: \$309,837
Prin. Invest. NASA Tech. Officer CASE Category
 A R INGRAFFEA LARC/J C NEWMAN 46-Mech Engr
 A T ZEHNDER LARC/C E HARRIS

NGT 00-030-337 Columbia University 6216
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/11/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 T TAKAHASHI HQ/M BALTUCK 39-Env Sci, NEC
 HQ/G ASRAR

NAG 1-1396 Cornell University 6224
 TILT ROTOR BLADE VORTEX INTERACTION NOISE - FDP
Period Obligations
 01/31/1992-06/30/1995 FY95: \$17,880 TOTAL: \$176,877
Prin. Invest. NASA Tech. Officer CASE Category
 A R GEORGE LARC/D R HOAD 41-Aero Engr
 LARC/D A CONNER

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 1-1542	Cornell University	6225	NAG 2-926	Cornell University	6233
PDF METHODS FOR COMBUSTION IN HIGH-SPEED TURBULENT FLOWS			MID-INFRARED SPECTROSCOPY FROM THE GP KUIPER (C-14) AIRBORNE OBSERVATORY		
<i>Period</i>	<i>Obligations</i>		<i>Period</i>	<i>Obligations</i>	
08/27/1993-08/24/1996	FY95: \$130,000	TOTAL: \$200,001	08/30/1994-10/31/1995	FY95: \$64,615	TOTAL: \$168,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S B POPE	LARC/J P DRUMMOND	41-Aero Engr	T HERTER	ARC/C D LAUGHLIN	11-Astronomy
				ARC/C M GIBLLESPIE	
NAG 1-1543	Cornell University	6226	NAG 3-1069	Cornell University	6234
JET MIXING ENHANCEMENT BY FEEDBACK CONTROL			WAVE PROCESSES APPLIED TO AEROPROPULSION		
<i>Period</i>	<i>Obligations</i>		<i>Period</i>	<i>Obligations</i>	
09/16/1993-03/12/1995	FY95:	TOTAL: \$260,569	09/22/1989-02/24/1994	FY95:	TOTAL: \$593,418
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L LUMLEY	LARC/J M SEINER	41-Aero Engr	E L RESLER	LERC/F A NEWMAN	41-Aero Engr
	LARC/M K PONTON				
NAG 2-207	Cornell University	6227	NAG 3-1358	Cornell University	6235
MEDIUM AND HIGH RESOLUTION INFRARED SPECTROSCOPY FROM THE G.P. KUIPER AIRBORNE OBSERVATORY			ACCESS CONTROL FOR DISTRIBUTED STORAGE SYSTEMS RESEARCH		
<i>Period</i>	<i>Obligations</i>		<i>Period</i>	<i>Obligations</i>	
11/01/1982-10/31/1994	FY95:	TOTAL: \$2,069,169	07/01/1992-01/04/1995	FY95:	TOTAL: \$199,510
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T HERTER	ARC/C D LAUGHLIN	11-Astronomy	A HANUSHEVSKY	LERC/G L WEEGMANN	22-Computer Science
T L HERTER					
NAG 2-554	Cornell University	6228	NAG 3-1401	Cornell University	6236
TILT ROTOR AIRCRAFT AEROACOUSTICS			FLOW-INFLUENCED SHAPE STABILITY IN LOW GRAVITY		
<i>Period</i>	<i>Obligations</i>		<i>Period</i>	<i>Obligations</i>	
01/01/1989-10/14/1995	FY95: \$39,851	TOTAL: \$407,545	12/23/1992-12/31/1995	FY95: \$86,000	TOTAL: \$256,159
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A R GEORGE	ARC/C KITAPLIOGLU	41-Aero Engr	P H STEEN	LERC/A T CHAI	19-Phys Sci, NEC
	ARC/W WARBRODT				
NAG 2-660	Cornell University	6229	NAG 3-1451	Cornell University	6237
DEVELOPMENT AND EVALUATION OF SI BIB DETECTORS FOR SIRT			NUMERICAL MODELING OF LOW-DENSITY PLUMES USING A MONTEN CARLO TECHNIQUE		
<i>Period</i>	<i>Obligations</i>		<i>Period</i>	<i>Obligations</i>	
07/31/1990-11/30/1995	FY95: \$120,000	TOTAL: \$640,000	03/12/1993-02/20/1996	FY95: \$70,000	TOTAL: \$204,999
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T L HERTER	ARC/C R MCCREIGHT	11-Astronomy	I D BOYD	LERC/P F PENKO	13-Physics
	ARC/R E MCMURRAY JR.				
NAG 2-742	Cornell University	6230	NAG 3-1570	Cornell University	6238
EFFECTS OF AGRICULTURAL DEVELOPMENT ON TRACE GAS FLUXES IN THE BRAZILIAN CERRADO			HISTORY DEPENDENT TURBULENCE MODELING		
<i>Period</i>	<i>Obligations</i>		<i>Period</i>	<i>Obligations</i>	
11/27/1991-05/31/1995	FY95:	TOTAL: \$143,180	02/15/1994-02/29/1996	FY95: \$33,480	TOTAL: \$85,959
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J M DUXBURY	ARC/J MAZZURCO	55-Agriculture Sci	J LUMLEY	LERC/L A POVINELLI	41-Aero Engr
NAG 2-800	Cornell University	6231	NAG 3-1627	Cornell University	6239
KWIC: A WIDEFIELD MID-INFRARED ARRAY CAMERA/SPECTROMETER FOR THE KAO			EXPERIMENTAL STUDY OF LIQUID JET IMPINGEMENT IN MICROGRAVITY: THE HYDRAULIC JUMP		
<i>Period</i>	<i>Obligations</i>		<i>Period</i>	<i>Obligations</i>	
08/27/1992-09/30/1995	FY95: \$274,076	TOTAL: \$650,206	06/24/1994-06/23/1996	FY95: \$33,427	TOTAL: \$33,427
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G STACEY	ARC/C D LAUGHLIN	11-Astronomy	C T AVEDISIAN	LERC/D F CHAO	19-Phys Sci, NEC
	ARC/C M GILLESPIE				
NAG 2-893	Cornell University	6232	NAG 5-601	Cornell University	6240
FORMAL SUPPORT FOR HIGH ASSURANCE SYSTEMS			A NEW TECHNIQUE		
<i>Period</i>	<i>Obligations</i>		<i>Period</i>	<i>Obligations</i>	
04/06/1994-03/31/1996	FY95: \$159,751	TOTAL: \$299,751	02/01/1982-03/31/1996	FY95:	TOTAL: \$1,866,901
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F B SCHNEIDER	ARC/S LAU	22-Computer Science	P M KINTNER	GSFC/L J EARLY	13-Physics
			M C KELLEY	GSFC/R H PLESS	

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 5-666 **Cornell University** **6241**
 RADAR SUPPORT FOR ROCKET STUDY
Period *Obligations*
 05/04/1990-04/30/1996 FY95: TOTAL: \$404,036
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W E SWARTZ GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-2334 **Cornell University** **6249**
 CLUMPINESS AND SHOCK EFFECTS IN MONOCEROS R2 CLOUD
Period *Obligations*
 08/12/1993-08/31/1995 FY95: TOTAL: \$29,048
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P GOLDSMITH GSFC/D WEST 11-Astronomy

NAG 5-667 **Cornell University** **6242**
 WISP2 A PROPOSAL TO REFLY WISP1 "WISP2" A PROPOSAL TO
 REFLY WISP1
Period *Obligations*
 06/20/1991-03/31/1995 FY95: TOTAL: \$338,778
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P KINTNER GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-2436 **Cornell University** **6250**
 MULTIWAVELENGTH STUDIES OF ROTATION - DRIVEN PULSA RS
Period *Obligations*
 11/16/1993-12/31/1995 FY95: \$35,000 TOTAL: \$96,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J M CORDES GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-691 **Cornell University** **6243**
 SOUNDING OF THE CLEFT ION FOUNTAIN ENERGIZATION REGION
 (SCIFER)
Period *Obligations*
 05/26/1992-05/31/1996 FY95: \$223,000 TOTAL: \$553,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P KINTNER GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-2762 **Cornell University** **6251**
 A TOOLKIT FOR MODELING THE SPATIAL/INTENSITY DISTRIBUTION
 OF GAMMA-RAY BURSTS USING BATSE DATA
Period *Obligations*
 10/21/1994-10/31/1995 FY95: \$48,311 TOTAL: \$48,311
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 I M WASSERMAN GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-813 **Cornell University** **6244**
 PARTICIPATION IN THE VAYAGUE INFRARED SPECTROSCOPY
 EXPERIMENT
Period *Obligations*
 10/15/1986-12/31/1994 FY95: TOTAL: \$528,314
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P J GIERASCH GSFC/B J CONRATH 31-Atmos Sci

NAG 5-2809 **Cornell University** **6252**
 ASTROPHYSICAL STUDIES OF COMPACT STARS ON THE SUPE
 RCOMPUTER
Period *Obligations*
 12/08/1994-10/31/1995 FY95: \$90,000 TOTAL: \$90,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S L SHAPIRO GSFC/D WEST 11-Astronomy

NAG 5-1378 **Cornell University** **6245**
 MEASUREMENT AND ANALYSIS OF PROFILES THRU ATMOSPHERE
Period *Obligations*
 04/25/1990-06/30/1994 FY95: TOTAL: \$257,448
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W BRUTSAERT GSFC/F G HALL 31-Atmos Sci

NAG 5-2851 **Cornell University** **6253**
 NEUTRO STAR POPULATION DYNAMICS
Period *Obligations*
 12/21/1994-01/14/1997 FY95: \$104,000 TOTAL: \$104,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D F CHERNOFF GSFC/D WEST 11-Astronomy

NAG 5-1545 **Cornell University** **6246**
 STUDIES OF THE VELOCITY AND DENSITY SPECTRAL OF IO
 NOSPHERIC PLASMA INSTABILITIES USING THE ATMOSPHERIC
Period *Obligations*
 04/17/1991-04/30/1994 FY95: TOTAL: \$192,409
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M G KELLEY GSFC/G D BULLOCK 19-Phys Sci, NEC

NAG 5-2985 **Cornell University** **6254**
 LANDSLIDING, TOPOGRAPHY AND SEISMICITY: A PROPOSAL FOR
 THE NASA TOPOGRAPHY AND SURFACE CHANGE PROGRA
Period *Obligations*
 06/28/1995-07/14/1996 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B L ISACKS GSFC/H V FREY 19-Phys Sci, NEC

NAG 5-1758 **Cornell University** **6247**
 BAYESIAN ANALYSIS OF GAMMA-RAY DATA AND THE FORMAT
 ION OF THE GAMMA-RAY BURST CONTINUUM
Period *Obligations*
 09/17/1991-09/30/1993 FY95: TOTAL: \$149,291
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T J LOREDO GSFC/J P NORRIS 11-Astronomy
 GSFC/C A GEHRELS

NAG 5-5008 **Cornell University** **6255**
 AMICIST AURORAL MICROPHYSICS AND ION CONICS: INVESTIGA-
Period *Obligations*
 05/12/1993-12/31/1995 FY95: \$146,145 TOTAL: \$360,103
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P KINTNER GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-2120 **Cornell University** **6248**
 ARE MIRAS WITH MASERS SYMBIOTIC STARS
Period *Obligations*
 10/08/1992-03/31/1995 FY95: TOTAL: \$23,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B M LEWIS GSFC/D WEST 11-Astronomy

NAG 5-5009 **Cornell University** **6256**
 AMICIST A STUDY OF ELECTROMAGNETIC PULSE FROM LIGHTNING
 AND
Period *Obligations*
 05/12/1993-12/31/1995 FY95: \$194,831 TOTAL: \$541,506
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M C KELLEY GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 5-5036	Cornell University	6257			
AN EXPERIMENT TO STUDY SPORADIC ATOM LAYERS IN THE EARTH'S MESOSPHERE AND LOWER THERMOSPHERE					
<i>Period</i>		<i>Obligations</i>			
04/25/1995-12/31/1995	FY95: \$43,904	TOTAL: \$43,904			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
M C KELLEY	GSCF/R H PLESS	13-Physics			
NAG 5-5038	Cornell University	6258			
A CO-INVESTIGATOR PROPOSAL FOR THE STUDY OF AURORAL TURBULENCE					
<i>Period</i>		<i>Obligations</i>			
06/07/1995-01/31/1996	FY95: \$30,275	TOTAL: \$30,275			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
M C KELLEY	GSCF/R H PLESS	13-Physics			
NAG 9-715	Cornell University	6259			
DEFINITION OF PROBLEMS IN DESIGN AND OPERATION OF CONTROLLED ENVIRONMENT LIFE SUPPORT SYSTEM					
<i>Period</i>		<i>Obligations</i>			
09/25/1993-01/01/1995	FY95:	TOTAL: \$50,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
R W LANGHANS	JSC/T TRI	51-Biological Sci			
NAG 9-849	Cornell University	6260			
SELECTION OF CULTIVARS FOR USE IN CELSS HRTF TRIAL S					
<i>Period</i>		<i>Obligations</i>			
09/22/1995-09/30/1996	FY95: \$25,000	TOTAL: \$25,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
D LANGHANS	JSC/K HENDERSON	55-Agriculture Sci			
NAGW 310	Cornell University	6261			
STUDIES OF PLANETARY RINGS					
<i>Period</i>		<i>Obligations</i>			
03/15/1982-09/30/1995	FY95: \$113,600	TOTAL: \$1,203,770			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
J A BURNS	HQ/J UNDERWOOD HQ/J M BOYCE	32-Geological Sci			
NAGW 493	Cornell University	6262			
TEMPLATE REACTIONS AND CHEMICAL EVOLUTION					
<i>Period</i>		<i>Obligations</i>			
06/01/1983-12/31/1994	FY95: \$15,000	TOTAL: \$656,515			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
D A USHER	HQ/J RUMMEL HQ/M AVERNER	12-Chemistry			
NAGW 544	Cornell University	6263			
DYNAMICAL STUDIES OF SATURN'S RINGS					
<i>Period</i>		<i>Obligations</i>			
03/01/1984-09/30/1995	FY95: \$52,800	TOTAL: \$436,435			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
P D NICHOLSON	HQ/J R UNDERWOOD HQ/J M BOYCE	32-Geological Sci			
NAGW 666	Cornell University	6264			
THEOR PHYS OF ACCRETING MAG NEUTRON STARS/X-RAY EMISSION					
<i>Period</i>		<i>Obligations</i>			
11/01/1984-10/31/1994	FY95:	TOTAL: \$613,388			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
E E SALPETER	HQ/L J KALUZIENSKI HQ/A BUNNER	11-Astronomy			
NAGW 1023	Cornell University	6265			
GEOLOGIC STUDIES OF MARS AND OUTER PLANETS					
<i>Period</i>		<i>Obligations</i>			
11/01/1986-09/30/1996	FY95: \$128,000	TOTAL: \$1,063,759			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
S SQUYRES	HQ/J UNDERWOOD HQ/J M BOYCE	32-Geological Sci			
NAGW 1420	Cornell University	6266			
IMPLICATIONS OF CONVECTION WITHIN THE MOON AND TERR. PLANETS					
<i>Period</i>		<i>Obligations</i>			
08/18/1988-09/30/1995	FY95: \$30,000	TOTAL: \$165,500			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
D L TURCOTTE	HQ/J R UNDERWOOD	32-Geological Sci			
NAGW 1444	Cornell University	6267			
LOW-TEMPERATURE THERMODYNAMICS AND LIQUID-VAPOR EQUILIBRIA					
<i>Period</i>		<i>Obligations</i>			
08/26/1988-10/31/1994	FY95:	TOTAL: \$391,360			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
W R THOMPSON	HQ/K FOX HQ/W L QUIADE	11-Astronomy			
NAGW 1870	Cornell University	6268			
INTERDISCIPLINARY INVESTIGATIONS OF COMPARATIVE PL ANETOLOGY					
<i>Period</i>		<i>Obligations</i>			
03/13/1990-09/30/1995	FY95: \$73,000	TOTAL: \$415,685			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
C SAGAN	HQ/T A MAXWELL	32-Geological Sci			
NAGW 1896	Cornell University	6269			
EXOBIOLGY AND THE ORIGIN OF LIFE					
<i>Period</i>		<i>Obligations</i>			
11/16/1989-03/31/1996	FY95: \$298,301	TOTAL: \$1,018,653			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
C SAGAN	HQ/M MEYER	12-Chemistry			
NAGW 1997	Cornell University	6270			
STUDIES OF THERMAL STRUCTURES AND MOTIONS OF PLANE TARY ATMOSPHERES					
<i>Period</i>		<i>Obligations</i>			
03/16/1990-11/30/1995	FY95: \$69,587	TOTAL: \$605,413			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
P GIERASCH	HQ/J T BERGSTRALH	11-Astronomy			
NAGW 2011	Cornell University	6271			
GENERATION OF DOUBLE LAYERS AND LOW-FREQUENCY TURB ULENCE BY KINETIC WAVES					
<i>Period</i>		<i>Obligations</i>			
05/05/1990-03/31/1995	FY95:	TOTAL: \$284,500			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
N F OTANI	HQ/M M MELLOTT HQ/T PERRY	13-Physics			
NAGW 2084	Cornell University	6272			
STUDY OF THE EFFECTS OF PHOTOMETRIC GEOMETRY ON SP ECTRAL REFLECTANCE MEASUREMENTS					
<i>Period</i>		<i>Obligations</i>			
05/30/1990-09/30/1995	FY95: \$45,000	TOTAL: \$356,500			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
J VEVERKA	HQ/T A MAXWELL	32-Geological Sci			

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAGW 2149 **Cornell University** **6273**
SPACECRAFT PLANETARY IMAGING FACILITY
Period *Obligations*
06/13/1990-12/31/1995 FY95: \$40,956 TOTAL: \$195,462
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J VEVERKA HQ/T A MAXWELL 32-Geological Sci

NAGW 2768 **Cornell University** **6281**
LABORATORY MEASUREMENTS OF CELESTIAL SOLIDS
Period *Obligations*
11/15/1991-04/30/1996 FY95: \$70,000 TOTAL: \$244,903
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A J SIEVERS HQ/L J CAROFF 11-Astronomy
S V BECKWITH HQ/M D BICAY

NAGW 2186 **Cornell University** **6274**
PHYSICAL STUDIES OF PLANETARY AND SATELLITE SURFAC ES
Period *Obligations*
03/01/1991-09/30/1995 FY95: \$78,380 TOTAL: \$380,272
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J VEVERKA HQ/T A MAXWELL 32-Geological Sci

NAGW 2870 **Cornell University** **6282**
THE DEVELOPMENT OF INFRARED DETECTORS AND MECHANIS
MS FOR USE IN FUTURE INFRARED SPACE MISSIONS
Period *Obligations*
02/03/1992-04/30/1995 FY95: TOTAL: \$3,916,070
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R HOUCK HQ/L J CAROFF 11-Astronomy

NAGW 2224 **Cornell University** **6275**
NAGW-2224/CORNELL UNIV/GLOBULAR CLUSTER EVOLUTION
Period *Obligations*
08/30/1990-01/31/1996 FY95: \$42,480 TOTAL: \$497,956
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D F CHERNOFF HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 2916 **Cornell University** **6283**
RADIATIVE-DYNAMICAL EFFECTS DUE TO CLOUDS ON THE O UTER
PLANETS
Period *Obligations*
02/27/1992-03/31/1994 FY95: TOTAL: \$101,970
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J GIERASCH HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2293 **Cornell University** **6276**
MAGNETOHYDRODYNAMICS OF PROTOSTELLAR NEBULAE
Period *Obligations*
05/22/1991-04/30/1996 FY95: \$20,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
LOVELACE HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2960 **Cornell University** **6284**
THEORY AND SIMULATION OF ELECTROMAGNETIC WAVE PHEN
OMENA
Period *Obligations*
03/03/1992-12/31/1994 FY95: TOTAL: \$100,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C E SEYLER HQ/D L REASONER 13-Physics
HQ/J D BOHLIN

NAGW 2364 **Cornell University** **6277**
ASTROPHYSICAL STUDIES OF COMPACT STARS ON A SUPERC
OMPUTER
Period *Obligations*
02/25/1991-07/31/1995 FY95: TOTAL: \$275,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S L SHAPIRO HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 3273 **Cornell University** **6285**
STUDIES OF SATELLITE AND PLANETARY ATMOSPHERES
Period *Obligations*
11/16/1992-10/31/1997 FY95: \$97,000 TOTAL: \$248,880
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C SAGAN HQ/J T BERGSTRALH 19-Phys Sci, NEC

NAGW 2374 **Cornell University** **6278**
IN SITU INVESTIGATION MARTIAN VOLATILES, GEOCHEMIS TRY, AND
MINERALOGY
Period *Obligations*
07/09/1991-01/31/1995 FY95: TOTAL: \$80,803
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S SQUYRES HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 3275 **Cornell University** **6286**
NAGW-3275/CORNELL UNIV/SHAPES, SURFCES AND INTERIO RS
OF SATELLITES AND ASTEROIDS
Period *Obligations*
11/13/1992-10/31/1995 FY95: \$35,000 TOTAL: \$105,477
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P C THOMAS HQ/H C BRINTON 32-Geological Sci

NAGW 2551 **Cornell University** **6279**
NAGW-2551/AN INFRARED CAMERA/SPECTROGRAPH FOR THE
PALOMAR OBSERVATORY
Period *Obligations*
06/11/1991-06/30/1996 FY95: \$30,000 TOTAL: \$341,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R HOUCK HQ/M D BICAY 11-Astronomy

NAGW 3283 **Cornell University** **6287**
NAGW-3283/CORNELL UNIV/DEVELOPMENT OF A MARS SURFA CE
IMAGER
Period *Obligations*
12/21/1992-09/30/1994 FY95: TOTAL: \$187,956
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S W SQUYRES HQ/H C BRINTON 19-Phys Sci, NEC

NAGW 2638 **Cornell University** **6280**
TECTONIC/CLIMATIC DYNAMICS AND CRUSTAL EVOLUTION I N THE
ANDEAN OROGEN
Period *Obligations*
08/02/1991-12/31/1995 FY95: \$450,000 TOTAL: \$1,920,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B ISACKS HQ/M BALTUCK 39-Env Sci, NEC
T E JORDAN HQ/B J MALCOLM
A L BLOOM

NAGW 3320 **Cornell University** **6288**
SMALL BODIES SCIENCE WORKING GROUP
Period *Obligations*
12/31/1992-12/31/1995 FY95: \$89,980 TOTAL: \$160,949
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J VEVERKA HQ/C B PILCHER 39-Env Sci, NEC

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAGW 3341 **Cornell University** **6289**
 NAGW-3341/CORNELL UNIV/GRAVITY-INDUCED POLARITY OF
 TRANSPORT IN PLANTS
Period *Obligations*
 01/26/1993-05/31/1996 FY95: \$60,000 TOTAL: \$180,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R WAYNE HQ/T W HALSTEAD 51-Biological Sci

NAGW 4062 **Cornell University** **6297**
 ELASTIC AND THERMAL MEASUREMENTS ON PURE AND DOPED
 AMORPHUS ICE
Period *Obligations*
 06/23/1994-02/28/1995 FY95: TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R POHL HQ/P ROGERS 12-Chemistry

NAGW 3487 **Cornell University** **6290**
 ANALYSIS OF DATA FROM THE MAGELLAN SATELLITE FOR THE
 SURFACE OF VENUS/NAGW-3487/CORNELL UNIV
Period *Obligations*
 03/27/1993-03/14/1995 FY95: \$2,260 TOTAL: \$88,260
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S W SQUIRES HQ/P ROGERS 32-Geological Sci

NAGW 4449 **Cornell University** **6298**
 SIMULATIONS OF THE FARLEY-BUNEMAN INSTABILITY IN THE
 E-REGION IONOSPHERE
Period *Obligations*
 05/04/1995-03/31/1997 FY95: \$60,000 TOTAL: \$60,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N F OTANI HQ/J D BOHLIN 13-Physics

NAGW 3591 **Cornell University** **6291**
 ASTEROID STUDIES
Period *Obligations*
 05/20/1993-12/31/1995 FY95: \$138,819 TOTAL: \$215,233
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J VEYERKA HQ/H C BRINTON 11-Astronomy

NAGW 4469 **Cornell University** **6299**
 ELASTIC AND THERMAL MEASUREMENTS ON AMORPHOUS AND
 CRYSTALLINE WATER ICE
Period *Obligations*
 05/13/1995-02/29/1996 FY95: \$55,000 TOTAL: \$55,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R POHL HQ/P G ROGERS 13-Physics

NAGW 3597 **Cornell University** **6292**
 AN INTEGRATED THERMAL AND TECTONIC MODEL FOR VENUS
Period *Obligations*
 05/21/1993-04/30/1995 FY95: \$32,400 TOTAL: \$77,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D L TURCOTTE HQ/J T BERGSTRALH 32-Geological Sci

NAGW 4594 **Cornell University** **6300**
 THEORY AND SIMULATION OF LOWER HYBRID WAVES AND
 ASSOCIATED ION ACCELERATION IN THE AURORAL REGION
Period *Obligations*
 06/29/1995-04/30/1997 FY95: \$70,000 TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C E SEYLER HQ/D J BOHLIN 13-Physics

NAGW 3837 **Cornell University** **6293**
 NAGW-3837/B CORNELL UNIV. 'COORDINATED STUDY OF A TMOS.
 AND SURFACE CHANGES..' 11/1/93 START
Period *Obligations*
 12/17/1993-10/31/1995 FY95: \$60,172 TOTAL: \$120,501
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J VEYERKA HQ/J H RAHE 11-Astronomy

NAGW 4655 **Cornell University** **6301**
 THERMAL INFRARED OBSERVATIONS OF MARS
Period *Obligations*
 07/22/1995-12/31/1995 FY95: \$23,599 TOTAL: \$23,599
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S SQUIRES HQ/E BAKER 11-Astronomy

NAGW 3925 **Cornell University** **6294**
 CORNELL UNIV; SPIFI: AN IMAGING FABRY-PEROT SPECTROMETER
 FOR USE ON AST/RO
Period *Obligations*
 04/14/1994-03/31/1996 FY95: \$70,200 TOTAL: \$136,187
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G STACEY HQ/L J CAROFF 11-Astronomy
 HQ

NAGW 4702 **Cornell University** **6302**
 COMPLEXITY AND NATURAL HAZARDS
Period *Obligations*
 08/11/1995-05/31/1998 FY95: \$55,000 TOTAL: \$55,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D TURCOTTE HQ/G ASRAR 99-Multi-Discip

NAGW 3985 **Cornell University** **6295**
 SURFACE—PROPERTIES OF THE MOON, VENUS AND SMALL BODIES
 FROM RADAR
Period *Obligations*
 05/20/1994-02/28/1996 FY95: \$43,921 TOTAL: \$80,614
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D CAMPBELL HQ/R WILLIAMS 32-Geological Sci

NAS 5-31723 **Cornell University** **6303**
 EOS INVESTIGATION 'GLOBAL HYDROLOGIC PROCESSES AND
 CLIMATE'
Period *Obligations*
 12/10/1991-12/10/1996 FY95: \$120,000 TOTAL: \$543,250
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W BRUTSAET GSFC/W LAU 39-Env Sci, NEC

NAGW 4001 **Cornell University** **6296**
 PALOMAR OBSERVATIONS OF THE COLLISION OF COMET
 SHOEMAKER-LEVY 9
Period *Obligations*
 05/20/1994-09/30/1994 FY95: TOTAL: \$23,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P NICHOLSON HQ/J H RAHE 11-Astronomy

NCA 2-820 **Cornell University** **6304**
 DEVELOPMENT OF A HYBRID COMPUTATIONAL METHODOLOGY
 FOR SIMULATION OF HYPERSONIC TRANSITIONAL FLOWS
Period *Obligations*
 06/03/1993-05/31/1995 FY95: TOTAL: \$59,997
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 I BOYD ARC/G S DEIWERT 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NCA 2-832 **Cornell University** **6305**
STUDIES OF EARTH-BASED OCCULTATION DATA
Period *Obligations*
07/21/1993-06/30/1995 FY95: TOTAL: \$37,126
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P D NICHOLSON ARC/J N CUZZI 11-Astronomy

NGT 00-050-960 **Cornell University** **6314**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/15/1992-08/19/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B ISACKS HQ/J ALEXANDER 13-Physics

NCC 5-84 **Cornell University** **6306**
OUTER PLANET ATMOSPHERIC STRUCTURE.
Period *Obligations*
02/22/1995-02/29/1996 FY95: \$90,241 TOTAL: \$90,241
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J GIERASCH GSFC/F M FLASAR 11-Astronomy

NGT 00-051-075 **Cornell University** **6315**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/08/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R W ZOBEL HQ/R WHITE 51-Biological Sci

NGT 00-030-065 **Cornell University** **6307**
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
09/01/1991-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J QUALLS HQ/D M BUTLER 39-Env Sci, NEC
W BRUTSAERT HQ/G S WILSON

NGT 00-051-147 **Cornell University** **6316**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/29/1993-08/31/1996 FY95: \$22,000 TOTAL: \$62,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K COOK HQ/G LESANE 31-Atmos Sci

NGT 00-030-279 **Cornell University** **6308**
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/06/1994-08/31/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W BRUTSAERT HQ/J S THEON 39-Env Sci, NEC
HQ/G ASRAR

NGT 00-051-211 **Cornell University** **6317**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/28/1994-07/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W BRUTSAERT GSFC/G SOFFEN 55-Agriculture Sci

NGT 00-030-283 **Cornell University** **6309**
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/02/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M B PARLANGE HQ/R A SCHIFFER 99-Multi-Discip
HQ/G ASRAR

NGT 00-051-223 **Cornell University** **6318**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/29/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B L ISACKS HQ/A NOROTNY 32-Geological Sci
A L BLOOM

NGT 00-040-012 **Cornell University** **6310**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period *Obligations*
10/04/1989-01/31/1998 FY95: \$380,000 TOTAL: \$2,220,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J GIERASCH HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-051-329 **Cornell University** **6319**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/16/1994-08/22/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C E SAGAN HQ/D HOLLAND 11-Astronomy

NGT 00-050-842 **Cornell University** **6311**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/20/1991-08/18/1995 FY95: TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S B POPE HQ/F C OWENS 42-Astro Engr

NGT 00-051-374 **Cornell University** **6320**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
05/30/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K H COOK HQ/A NOVOTING 31-Atmos Sci

NGT 00-050-852 **Cornell University** **6312**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/12/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T JORDAN HQ/F C OWENS 32-Geological Sci

NGT 00-051-394 **Cornell University** **6321**
GSRP
Period *Obligations*
06/16/1995-06/30/1998 FY95: TOTAL: \$0
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S LIEBOVICH JPL/C HICKS 42-Astro Engr

NGT 00-050-912 **Cornell University** **6313**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/22/1992-06/30/1994 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C T AVEDISIAN HQ/J K ALEXANDER 46-Mech Engr

NGT 00-070-217 **Cornell University** **6322**
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
04/30/1991-06/30/1995 FY95: TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M C KELLEY HQ/F C OWENS 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NGT 00-070-219 Cornell University 6323
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 06/25/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M C KELLEY HQ/F C OWENS 42-Astro Engr

NGT 00-090-151 Hunter College 6331
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 11/16/1992-08/14/1994 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 G KRASILOVSKY HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-228 Cornell University 6324
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
 09/17/1993-08/14/1994 FY95: TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 K PHILLIPS HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-233 Manhattan College 6333
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 11/22/1993-08/14/1994 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 C H STOLZE HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-239 Cornell University 6325
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 07/15/1994-08/14/1996 FY95: \$24,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 W S GREEN HQ/D K RUSSELL 99-Multi-Discip

NAGW 4657 Medgar Evers College 6334
 SCIENCE AND TECHNOLOGY TEACHERS FOR THE NEXT MILLE
 NIUM
Period Obligations
 08/02/1995-08/31/1998 FY95: \$199,977 TOTAL: \$199,977
Prin. Invest. NASA Tech. Officer CASE Category
 L P JOHNSON HQ/M MATEU 99-Multi-Discip

NGT 00-090-283 Cornell University 6326
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/24/1995-08/14/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 G E REHKUGLER HQ/D K RUSSELL 99-Multi-Discip

NAG 2-706 Mt Sinai Sch of Med of The Cuny 6335
 VELOCITY STORAGE IN SPACE: ADAPTATION OF OPTOKIN ETIC
 NYSTAGMUS AND AFTER-NYSTAGMUS TO MICROGRAVITY
Period Obligations
 06/03/1991-12/31/1995 FY95: \$161,000 TOTAL: \$406,000
Prin. Invest. NASA Tech. Officer CASE Category
 B COHEN ARC/C M WINGET 51-Biological Sci
 T RAPHAN

NGT10-52600 Cornell University 6327
 A GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/20/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 L ALBRIGHT KSC/J SAGER 59-Life Sci, NEC

NAG 2-804 Mt Sinai Sch of Med of The Cuny 6336
 VELOCITY STORAGE AND MICROGRAVITY: INTERACTION OF VO R
 ADAPTATION AND HABITUATION; DEPENDENCE OF THE ...
Period Obligations
 09/18/1992-02/28/1995 FY95: TOTAL: \$232,800
Prin. Invest. NASA Tech. Officer CASE Category
 B COHEN ARC/D L TOMKO 51-Biological Sci
 T RAPHAN
 M GIZZI

NSG-6020 Cornell University 6328
 ROCKET INVESTIGATION OF NEUTRAL ATMOSPHERE - IONOSPHERE
 COUPLING AND PLANETARY ELECTRODYNAMIC
Period Obligations
 03/01/1978-04/30/1994 FY95: \$73,397 TOTAL: \$3,251,430
Prin. Invest. NASA Tech. Officer CASE Category
 M C KELLEY GSFC/L J EARLY 19-Phys Sci, NEC
 D T FARLEY GSFC/R H PLESS

NAG 2-895 Mt Sinai Sch of Med of The Cuny 6337
 OSTEOBLAST ADHESION AND PHENOTYPE IN MICROGRAVITY
Period Obligations
 04/22/1994-12/31/1996 FY95: \$63,212 TOTAL: \$111,547
Prin. Invest. NASA Tech. Officer CASE Category
 R J MAJESKA ARC/E M HOLTON 51-Biological Sci

NAGW 468 Hofstra University 6329
 RADAR MEASUREMENTS OF OCEAN SURFACE WAVES USING THE
 AIRCRAFT TWO FREQUENCY SCATTEROMETER
Period Obligations
 05/24/1983-05/31/1995 FY95: TOTAL: \$843,873
Prin. Invest. NASA Tech. Officer CASE Category
 D E WEISSMAN HQ/G S LAGERLOEF 33-Oceanography
 HQ/W S WILSON

NAG 2-946 Mt Sinai Sch of Med of The Cuny 6338
 ANATOMICAL STUDIES OF CENTRAL VESTIBULAR ADAPTATIO N
Period Obligations
 01/10/1995-11/30/1995 FY95: \$70,011 TOTAL: \$70,011
Prin. Invest. NASA Tech. Officer CASE Category
 G R HOLSTEIN ARC/W E HINDS 51-Biological Sci
 ARC/C M WINGET

NCC 2-5091 Hunter College 6330
 HUMAN INDUCED LAND TRANSFORMATIONS: GROWTH MODELING
 WITH CELLULAR AUTOMATA
Period Obligations
 07/28/1994-01/31/1996 FY95: \$26,172 TOTAL: \$37,466
Prin. Invest. NASA Tech. Officer CASE Category
 K C CLARKE ARC/L GAYDOS 32-Geological Sci

NAG 2-968 Mt Sinai Sch of Med of The Cuny 6339
 CHEMICAL ANATOMY OF CENTRAL VESTIBULAR ADAPTATION
Period Obligations
 03/27/1995-07/31/1996 FY95: \$20,430 TOTAL: \$20,430
Prin. Invest. NASA Tech. Officer CASE Category
 G R HOLSTEIN ARC/W E HINDS 56-Medical Sciences
 ARC/C M WINGET

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 5-3052 **Mt Sinai Sch of Med of The Cuny** **6340**
ANALYSIS, REPAIR, AND MANAGEMENT OF THE TOTAL OZON E
MAPPING SPECTROMETER DATABASE
Period *Obligations*
08/31/1995-08/31/1996 FY95: \$24,041 TOTAL: \$24,041
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L SIROVICH GSFC/P BHARTIA 11-Astronomy

NAG 3-1414 **New York University** **6348**
TWO-PHASE INTERFACES IN WEAK EXTERNAL FIELDS
Period *Obligations*
01/08/1993-12/31/1995 FY95: \$75,000 TOTAL: \$225,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J K PERCUS LERC/R A WILKINSON 13-Physics

NAG 9-816 **Mt Sinai Sch of Med of The Cuny** **6341**
THYROID FOLLICLE FORMATION IN MICROGRAVITY
Period *Obligations*
08/11/1995-08/31/1996 FY95: \$151,307 TOTAL: \$151,307
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A MARTIN JSC/N PELLIS 51-Biological Sci

NAGW 630 **New York University** **6349**
PHYSICAL PROPERTIES OF MOLECULAR CLOUDS
Period *Obligations*
06/01/1984-01/31/1996 FY95: \$81,000 TOTAL: \$760,499
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A E GLASSGOLD HQ/F C GILLETT 11-Astronomy
HQ/E J WEILER

NAS 9-19252 **Mt Sinai Sch of Med of The Cuny** **6342**
DEFINITION PHASE OF LIFE SCIENCES FLIGHT EXPERIMEN T 47
Period *Obligations*
11/22/1994-10/01/1995 FY95: \$119,830 TOTAL: \$119,830
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B COHEN JSC/S SAWYER 51-Biological Sci

NAGW 3675 **New York University** **6350**
SYMMETRY ANALYSIS OF MAGELLAN SAR ALTIMETRY AND GR
AVITY DATA
Period *Obligations*
07/14/1993-06/30/1994 FY95: TOTAL: \$31,240
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C STEWART HQ/J T BERGSTRALH 32-Geological Sci

NAG 1-1238 **New York University** **6343**
EVALUATING TEST DATA ADEQUACY AND GENERATING TEST
CASES FOR SOFTWARE USING STATECHART SPECIFICATION
Period *Obligations*
03/21/1991-03/19/1994 FY95: TOTAL: \$155,172
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E WEYUKER LARC/D E ECKHARDT 22-Computer Science

NAGW 4125 **New York University** **6351**
CELSS CROP SIMULATIONS FOR SYSTEMS ENGINEERING AND
PRODUCTIVITY OPTIMIZATION
Period *Obligations*
08/24/1994-06/14/1995 FY95: TOTAL: \$120,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T VOLK HQ/M M AVERNER 55-Agriculture Sci

NAG 1-1448 **New York University** **6344**
REAL TIME IDENTIFICATION OF MENTAL STATE FROM
ELECTROENCEPHALOGRAPHIC SIGNALS
Period *Obligations*
08/24/1992-09/01/1994 FY95: TOTAL: \$53,571
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E R JOHN LARC/A T POPE 69-Psych, NEC
LARC/J R COMSTOCK

NCC 8-24 **Niagara University** **6352**
DEVELOPMENT AND TESTING FOR LIGHTNING IMAGING SENSOR
Period *Obligations*
06/16/1993-10/15/1994 FY95: TOTAL: \$30,788
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W L BOECK MSFC/R BLAKESLEE 22-Computer Science

NAG 2-862 **New York University** **6345**
EFFECTS OF SIMULATED WEIGHTLESS ON SPINAL CORD DE
VELOPMENT
Period *Obligations*
08/17/1990-05/31/1994 FY95: TOTAL: \$364,466
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R R LLINAS ARC/M L CORCORAN 51-Biological Sci
K D WALTON ARC/N G DAUNTON

NCC 8-55 **Niagara University** **6353**
LIGHTNING IMAGING SENSOR STUDY
Period *Obligations*
08/17/1994-08/16/1996 FY95: \$48,792 TOTAL: \$82,655
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W BOECK MSFC/R BLAKESLEE 31-Atmos Sci
MSFC/S J GOODMAN

NAG 2-951 **New York University** **6346**
EFFECTS OF GRAVITY ON POSTNATL MOTOR DEVELOPMENT
Period *Obligations*
12/22/1994-11/30/1995 FY95: \$61,695 TOTAL: \$61,695
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K D WALTON ARC/W E HINDS 51-Biological Sci

NAG 1-1272 **Polytechnic Institute of New York** **6354**
STUDY OF IN-SERVICE DIGITAL AVIONICS SYSTEM FAULT DATA
ANALYSIS, DATA GATHERING, AND INTERPRETATION
Period *Obligations*
06/12/1991-11/30/1993 FY95: TOTAL: \$106,130
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M L SHOOMAN LARC/F L PITTS 45-Elec Engr
LARC/C W MEISSNER

NAG 2-978 **New York University** **6347**
BEHAVIOR OF POSTNATAL RATS AFTER SPACE FLIGHT
Period *Obligations*
03/27/1995-09/30/1995 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K D WALTON ARC/W E HINDS 51-Biological Sci

NAG 1-1387 **Polytechnic Institute of New York** **6355**
ULTRASONIC MONITORING OF DIRECTIONAL SOLIDIFI CATION
Period *Obligations*
02/28/1992-05/01/1994 FY95: TOTAL: \$332,357
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M SCHLEICH LARC/A L FRIPP 19-Phys Sci, NEC

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 3-1301 Polytechnic Institute of New York 6356
 DUAL-LINE RAYLEIGH SCATTERING DIAGNOSTICS TECHNIQUE FOR
 THE COMBUSTION OF HYDROCARBON
Period Obligations
 10/24/1991-11/16/1994 FY95: TOTAL: \$162,832
Prin. Invest. NASA Tech. Officer CASE Category
 M V OTUGEN LERC/R G SEASHOLTZ 49-Engr, NEC

NAG 1-980 Rensselaer Polytechnic Institute 6364
 PREPARATION AND POLYMERIZATION OF NEW SILICON-CON-
 TAINING MONOMERS FOR USE IN COATINGS FOR SPACE ST
Period Obligations
 04/24/1989-09/30/1994 FY95: TOTAL: \$214,899
Prin. Invest. NASA Tech. Officer CASE Category
 J V CRIVELLO LARC/J W CONNELL 12-Chemistry
 LARC/P M HERGENROTHER

NAG 3-1378 Polytechnic Institute of New York 6357
 EXPERIMENTAL STUDIES ON SHOCK WAVE-VORTEX INTERACT ION
 IN A SUPERSONIC STREAM
Period Obligations
 11/02/1992-01/20/1995 FY95: TOTAL: \$69,965
Prin. Invest. NASA Tech. Officer CASE Category
 I M KALKHORAN LERC/W R HINGST 41-Aero Engr

NAG 1-1356 Rensselaer Polytechnic Institute 6365
 ADAPTIVE MULTISCALE COMPUTATIONAL TECHNIQUES IN LA
 MINATED COMPOSITES
Period Obligations
 12/19/1991-09/15/1995 FY95: \$36,000 TOTAL: \$212,055
Prin. Invest. NASA Tech. Officer CASE Category
 J FISH LERC/J T WANG 46-Mech Engr
 P L BAEHMANN LERC/D D DAVIS JR

NAG 3-1690 Polytechnic Institute of New York 6358
 FILTERED UV RAYLEIGH SCATTERING FOR GAS VELOCITY M
 EASUREMENTS
Period Obligations
 12/27/1994-12/26/1995 FY95: \$65,000 TOTAL: \$65,000
Prin. Invest. NASA Tech. Officer CASE Category
 M V OTUGEN LERC/R G SEASHOLTZ 13-Physics

NAG 1-1469 Rensselaer Polytechnic Institute 6366
 SIMULATION BASED PERFORMANCE ANALYSIS OF A ROBOTIC
 TESTBED CONTROL ARCHITECTURE NLPN 92-1004
Period Obligations
 12/22/1992-12/31/1995 FY95: \$75,000 TOTAL: \$225,000
Prin. Invest. NASA Tech. Officer CASE Category
 J HADDOCK LARC/D L PALUMBO 12-Chemistry

NAG 8-960 Polytechnic Institute of New York 6359
 DIFFUSION, VISCOSITY AND CRYSTAL GROWTH IN MICRO-
 GRAVOTY
Period Obligations
 05/21/1993-05/31/1996 FY95: \$120,000 TOTAL: \$360,000
Prin. Invest. NASA Tech. Officer CASE Category
 A S MYERSON MSFC/R L KROES 12-Chemistry
 A IZMAILOV

NAG 1-1520 Rensselaer Polytechnic Institute 6367
 HOT-DOME ANEMOMETRY FOR FLIGHT MEASUREMENT OF FREE
 STREAM DISTURBANCES NLPN 93-342
Period Obligations
 06/07/1993-06/06/1994 FY95: TOTAL: \$35,721
Prin. Invest. NASA Tech. Officer CASE Category
 B E THOMPSON LARC/L P YIP 41-Aero Engr

NAG 8-1060 Polytechnic Institute of New York 6360
 NUCLEATION AND CLUSTER FORMATION INLEVITATED DROP-
 LETS
Period Obligations
 06/14/1994-06/15/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 S ARNOLD MSFC/E C ETHRIDGE 47-Materials Engr

NAG 2-832 Rensselaer Polytechnic Institute 6368
 PARALLEL UNSTRUCTURED GRID GENERATION FOR COMPUTAT
 IONAL AEROSCIENCES
Period Obligations
 04/02/1993-12/31/1994 FY95: TOTAL: \$149,999
Prin. Invest. NASA Tech. Officer CASE Category
 M S SHEPPARD ARC/T A LASINSKI 41-Aero Engr
 ARC/E BARSZCZ

NAG10-173 Polytechnic Institute of New York 6361
 CONTROL OF THE DEPOSITION OF ELECTRO-ACTIVE POLYMERS
 AND THEIR BLENDS ON METAL SURFACES
Period Obligations
 07/12/1995-07/16/1996 FY95: \$35,876 TOTAL: \$35,876
Prin. Invest. NASA Tech. Officer CASE Category
 K LEVON KSC/K THOMPSON 12-Chemistry

NAG 3-544 Rensselaer Polytechnic Institute 6369
 MINORITY ENGINEERING PROGRAM BETWEEN NASA/RPI
Period Obligations
 05/20/1984-07/28/1994 FY95: TOTAL: \$710,000
Prin. Invest. NASA Tech. Officer CASE Category
 N BURNETT LARC/R F LAWRENCE 49-Engr, NEC
 LARC

NAG10-174 Polytechnic Institute of New York 6362
 ANTICORROSIVE COATING
Period Obligations
 07/12/1995-07/16/1996 FY95: \$89,485 TOTAL: \$89,485
Prin. Invest. NASA Tech. Officer CASE Category
 E D WEIL KSC/K THOMPSON 12-Chemistry

NAG 3-1196 Rensselaer Polytechnic Institute 6370
 NEURAL NETWORK APPLICATIONS IN STRUCTURAL MECHANIC S
 AND DESIGN
Period Obligations
 08/28/1990-12/31/1995 FY95: TOTAL: \$205,317
Prin. Invest. NASA Tech. Officer CASE Category
 P HAJELA LERC/L BERKE 41-Aero Engr

NCC 1-190 Polytechnic Institute of New York 6363
 USE OF SOFTWARE PRODUCT SERVICE HISTORY FOR CERT-
 IFICATION CREDIT: A STUDY OF FIELD DATA AND CERTI
Period Obligations
 05/26/1994-06/30/1995 FY95: TOTAL: \$83,474
Prin. Invest. NASA Tech. Officer CASE Category
 M L SHOOMAN LARC/F S SHIPMAN 22-Computer Science

NAG 3-1399 Rensselaer Polytechnic Institute 6371
 AN EXPERIMENTAL STUDY OF THE VAPOR BUBBLE THERMOSY
 PHON BASED ON AUGMENTED YOUNG-LAPLACE EQUATION
Period Obligations
 01/15/1993-06/30/1996 FY95: \$141,724 TOTAL: \$435,179
Prin. Invest. NASA Tech. Officer CASE Category
 P C WAYNER LERC/J A PLATT 46-Mech Engr
 J L PLAWSKY

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 3-1400 Rensselaer Polytechnic Institute 6372
THE ANALYSIS OF PHASE DISTRIBUTION PHENOMENA IN MICROGRAVITY ENVIRONMENTS

<i>Period</i>	<i>Obligations</i>	
01/15/1993-11/30/1995	FY95: \$120,000	TOTAL: \$359,483
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R T LAHEY	LERC/J B MCQUILLEN	49-Engr, NEC

NAGW 642 Rensselaer Polytechnic Institute 6380
SPEC REFLEC PROP OF METEORITIC MIN ASSEMB-INT ASTEROID MAT

<i>Period</i>	<i>Obligations</i>	
07/01/1984-09/30/1995	FY95: \$56,000	TOTAL: \$729,160
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M J GAFFEY	HQ/J R UNDERWOOD	32-Geological Sci
	HQ/J M BOYCE	

NAG 3-1413 Rensselaer Polytechnic Institute 6373
GLOBAL INSTABILITY AND PATTERN FORMATION IN BINARY A LLOYD SOLIDIFICATION

<i>Period</i>	<i>Obligations</i>	
01/27/1993-07/31/1994	FY95:	TOTAL: \$85,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J D COLE	LERC/A CHAIT	47-Materials Engr
	LERC/V PINES	

NAGW 1333 Rensselaer Polytechnic Institute 6381
CENTER FOR INTELLIGENT ROBOTIC SYSTEM FOR SPACE EXP.

<i>Period</i>	<i>Obligations</i>	
07/15/1988-10/31/1995	FY95: \$36,960	TOTAL: \$5,573,212
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G N SARIDIS	HQ/M D MONTEMERLO	49-Engr, NEC

NAG 3-1565 Rensselaer Polytechnic Institute 6374
STUDY OF DISILACYCLOBUTANE AS A SINGLE SOURCE PRECURSOR FOR EPI GROWTH OF SIC

<i>Period</i>	<i>Obligations</i>	
01/26/1994-05/24/1995	FY95:	TOTAL: \$30,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L V INTERRANTE	LERC/D J LARKIN	12-Chemistry

NAGW 2781 Rensselaer Polytechnic Institute 6382
A LABORATORY INVESTIGATION OF SOME PHOTOCHEMICAL PROCESSES OF TITAN

<i>Period</i>	<i>Obligations</i>	
12/13/1991-10/31/1996	FY95: \$128,000	TOTAL: \$476,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J P FERRIS	HQ/J D RUMMEL	12-Chemistry

NAG 3-1696 Rensselaer Polytechnic Institute 6375
MINORITY ENGINEERING PROGRAM

<i>Period</i>	<i>Obligations</i>	
01/18/1995-01/17/1996	FY95: \$75,000	TOTAL: \$75,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M D SMITH	LERC/S MERRITT	99-Multi-Discip

NAGW 2817 Rensselaer Polytechnic Institute 6383
PROBING INFRARED SOURCES BY COMPUTER MODELING

<i>Period</i>	<i>Obligations</i>	
01/03/1992-11/30/1995	FY95:	TOTAL: \$195,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C M LEUNG	HQ/L J CAROFF	11-Astronomy

NAG 3-1776 Rensselaer Polytechnic Institute 6376
STUDIES OF CYCLIC AND LINEAR CARBOSILEANS AS SINGLE-SOURCE SIC PRECURSORS

<i>Period</i>	<i>Obligations</i>	
08/09/1995-12/08/1995	FY95: \$15,000	TOTAL: \$15,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L V INTERRANTE	LERC/D LARKIN	12-Chemistry

NAGW 3001 Rensselaer Polytechnic Institute 6384
THEORY OF GRAIN ALIGNMENT IN MOLECULAR CLOUDS

<i>Period</i>	<i>Obligations</i>	
03/11/1992-04/30/1995	FY95: \$35,000	TOTAL: \$104,926
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W G ROBERGE	HQ/L J CAROFF	11-Astronomy

NAG 5-2392 Rensselaer Polytechnic Institute 6377
HOW DOES ENVIRONMENT AFFECT STAR FORMATION

<i>Period</i>	<i>Obligations</i>	
10/13/1993-10/14/1995	FY95: \$40,000	TOTAL: \$90,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M L KUTNER	GSFC/D WEST	11-Astronomy

NAGW 3144 Rensselaer Polytechnic Institute 6385
THE ORIGIN AND EVOLUTION OF DUST IN INTERSTELLAR AND CIRCUMSTELLAR ENVIRONMENTS

<i>Period</i>	<i>Obligations</i>	
08/04/1992-08/31/1996	FY95: \$122,463	TOTAL: \$455,962
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D WHITTET	HQ/G R RIEGLER	11-Astronomy

NAG 8-864 Rensselaer Polytechnic Institute 6378
KINETICS OF DIFFUSIONAL DROPLET GROWTH LIQUID/ LIQUID TWO PHASE

<i>Period</i>	<i>Obligations</i>	
12/21/1990-12/31/1994	FY95:	TOTAL: \$56,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M E GLIKSMAN	MSFC/D FRAZIER	31-Atmos Sci
	MSFC/B FAREMIRE	

NAGW 4039 Rensselaer Polytechnic Institute 6386
ISO OBSERVATIONS OF INTERSTELLAR DUST ABSORPTION

<i>Period</i>	<i>Obligations</i>	
06/17/1994-09/30/1995	FY95:	TOTAL: \$12,997
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D C WHITTET	HQ/L J CAROFF	11-Astronomy

NAG 8-952 Rensselaer Polytechnic Institute 6379
CRYSTAL GROWTH STUDY

<i>Period</i>	<i>Obligations</i>	
02/10/1993-05/31/1996	FY95: \$89,854	TOTAL: \$269,530
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A G OSTROGORSKY	MSFC/D C GILLIES	51-Biological Sci

NAGW 4187 Rensselaer Polytechnic Institute 6387
INTERNATIONAL CONFERENCE ON INTERSTELLAR POLARIZATION

<i>Period</i>	<i>Obligations</i>	
10/31/1994-12/31/1995	FY95: \$6,530	TOTAL: \$6,530
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W G ROBERGE	HQ/L S LAPIANA	11-Astronomy
	HQ/G R RIEGLER	

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAS 3-25368 Rensselaer Polytechnic Institute 6388
ISOTHERMAL DENDRITIC GROWTH
Period Obligations
12/15/1988-04/15/1998 FY95: \$375,000 TOTAL: \$2,198,000
Prin. Invest. NASA Tech. Officer CASE Category
M E GLICKSMAN LERC/E A WINSA 47-Materials Engr
LERC/G A KRAFT

NAS 8-38143 Rensselaer Polytechnic Institute 6389
VAPOR TRANSPORT CRYSTAL GROWTH
Period Obligations
10/17/1990-07/31/1995 FY95: TOTAL: \$782,000
Prin. Invest. NASA Tech. Officer CASE Category
H WEIDEMEIER MSFC/L P JETER 99-Multi-Discip

NAS 8-39723 Rensselaer Polytechnic Institute 6390
VAPOR TRANSPORT CRYSTAL GROWTH OF HGCDTE IN MICROGRAVITY
Period Obligations
06/24/1993-11/30/1996 FY95: \$290,000 TOTAL: \$680,000
Prin. Invest. NASA Tech. Officer CASE Category
H WIEDEMEIER MSFC/T HALL 99-Multi-Discip

NCC 2-5015 Rensselaer Polytechnic Institute 6391
THE FORMATION OF HYDROCARBONS IN THE OUTFLOWS FROM RED GIANTS
Period Obligations
11/30/1993-12/31/1995 FY95: \$17,306 TOTAL: \$42,509
Prin. Invest. NASA Tech. Officer CASE Category
W ROBERGE ARC/A G TIELENS 11-Astronomy

NCC 8-54 Rensselaer Polytechnic Institute 6392
INVESTIGATION OF LOCAL EFFECTS ON MICROSTRUCTURE EVOLUTION
Period Obligations
08/01/1994-06/30/1996 FY95: \$21,900 TOTAL: \$41,900
Prin. Invest. NASA Tech. Officer CASE Category
M E GLICKMAN MSFC/D O FRAZIER 13-Physics

NGT 00-010-000 Rensselaer Polytechnic Institute 6393
NGT-10000/RENSELAER POLY INST NY/INTELLIGENT CONTROL FOR DUAL ARM MANIPULATORS
Period Obligations
12/18/1992-10/31/1995 FY95: \$88,000 TOTAL: \$550,000
Prin. Invest. NASA Tech. Officer CASE Category
A DESROCHERS HQ/R J HAYDUK 49-Engr, NEC

NGT 00-010-017 Rensselaer Polytechnic Institute 6394
MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP PROGRAM
Period Obligations
11/24/1993-03/31/1994 FY95: TOTAL: \$48,927
Prin. Invest. NASA Tech. Officer CASE Category
G A GABRIELE HQ/G S SEIDEL 41-Aero Engr
J C KORNGOLD HQ/J R FACEY

NGT 00-050-918 Rensselaer Polytechnic Institute 6395
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/29/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
J P FERRIS HQ/J ALEXANDER 12-Chemistry

NGT 00-051-049 Rensselaer Polytechnic Institute 6396
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/14/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
L N MYRABO LERC/F MONTEGANI 41-Aero Engr
H T NAGAMATSU

NGT 00-051-113 Rensselaer Polytechnic Institute 6397
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/14/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
Z RUSAK LARC/E J PRIOR 41-Aero Engr

NGT 00-051-167 Rensselaer Polytechnic Institute 6398
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/22/1993-08/31/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
D W SCHWENDEMAN HQ/P HUNTER 21-Mathematics

NGT 00-051-241 Rensselaer Polytechnic Institute 6399
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/06/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
M E GLICKSMAN LERC/F MONTEGANI 47-Materials Engr

NGT 00-070-272 Rensselaer Polytechnic Institute 6400
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period Obligations
08/05/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
H STEPHANON GSFC/G SOFFEN 45-Elec Engr

NGT 00-070-334 Rensselaer Polytechnic Institute 6401
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period Obligations
07/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
B SZYMANSKI HQ/D K RUSSELL 22-Computer Science

NGT 00-090-132 Rensselaer Polytechnic Institute 6402
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/24/1992-08/14/1995 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
N BURNETT HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-133 Rensselaer Polytechnic Institute 6403
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/26/1992-08/14/1995 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
D TUTT HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-134 Rensselaer Polytechnic Institute 6404
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/24/1992-08/14/1994 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
N BURNETT HQ/D K RUSSELL 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NGT 00-090-188 Rensselaer Polytechnic Institute 6405
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 N BURNETT HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-189 Rensselaer Polytechnic Institute 6406
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 N BURNETT HQ/D K RUSSELL 99-Multi-Discip

NGT 8-52802 Rensselaer Polytechnic Institute 6407
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/28/1995-07/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 M E GLICKSMAN MSFC/F SIX 49-Engr, NEC
 MSFC/F R SZOFRAN

NAG 3-1153 Rochester Institute of Technology 6408
 COMPUTATIONAL AND EXPERIMENTAL INVESTIGATION OF SPAC E
 TRANSFER VEH ENG TURBOPUMP DESIGN FOR DEEP-THROT
Period Obligations
 03/13/1990-07/25/1996 FY95: TOTAL: \$162,224
Prin. Invest. NASA Tech. Officer CASE Category
 A OGUT LERC/J A HEMMINGER 49-Engr, NEC
 LERC/R J CAPALDI

NAG 8-1008 Rochester Institute of Technology 6409
 JOVE
Period Obligations
 11/24/1993-05/31/1996 FY95: \$28,000 TOTAL: \$87,000
Prin. Invest. NASA Tech. Officer CASE Category
 M L WINGSWORTH MSFC/F SIX 31-Atmos Sci
 Z NINKOV

NAGW 4135 Rochester Institute of Technology 6410
 CHARACTERIZATION AND DEVELOPMENT OF CHARGE INJECTION
 DEVICE ARRAYS
Period Obligations
 09/16/1994-06/30/1995 FY95: TOTAL: \$99,262
Prin. Invest. NASA Tech. Officer CASE Category
 Z NINKEY HQ/T KOSTIUK 11-Astronomy

NGT 00-090-280 Rochester Institute of Technology 6411
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 02/16/1995-08/14/1995 FY95: \$12,000 TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 D TUTT HQ/D K RUSSELL 46-Mech Engr

NAG 5-2336 Rockefeller University 6412
 ANALYSIS OF OZONE LAYER DATA BASE
Period Obligations
 07/28/1993-03/14/1996 FY95: \$40,298 TOTAL: \$140,958
Prin. Invest. NASA Tech. Officer CASE Category
 L SIROVICH GSFC/P K BHARTIA 31-Atmos Sci

NAG 8-1002 Saint John Fisher College 6413
 JOVE
Period Obligations
 11/19/1993-05/31/1996 FY95: \$56,000 TOTAL: \$87,000
Prin. Invest. NASA Tech. Officer CASE Category
 W LEWIS MSFC/F SIX 13-Physics
 R SMITH

NAG 8-1033 Saint John Fisher College 6414
 SEATTERING AND FLUORESCENCE STUDIES OF MASSIVE X-RAY
 BINARIES
Period Obligations
 02/11/1994-11/10/1995 FY95: TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
 W LEWIS MSFC/ 31-Atmos Sci

NAG 5-1501 State Univ of New York - Albany 6415
 REPRESENTATION OF FRONTS IN GLOBAL ATMOSPHERIC MOD
 ELS
Period Obligations
 04/02/1991-04/14/1994 FY95: TOTAL: \$72,008
Prin. Invest. NASA Tech. Officer CASE Category
 D KEYSER GSFC/R M ATLAS 31-Atmos Sci

NAG 5-2242 State Univ of New York - Albany 6416
 SURFACE EXCHANGE OBSERVATIONS IN THE CANADIAN BORE AL
 FOREST REGION
Period Obligations
 04/08/1993-04/14/1996 FY95: \$123,000 TOTAL: \$509,500
Prin. Invest. NASA Tech. Officer CASE Category
 D B FITZARRALD GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P SELLARS

NAG 5-2714 State Univ of New York - Albany 6417
 REGIONAL - SCALE CHEMICAL IMPACTS OF AIRCRAFT EXHAUST
Period Obligations
 08/31/1994-10/31/1995 FY95: \$100,000 TOTAL: \$150,030
Prin. Invest. NASA Tech. Officer CASE Category
 C W WALEK GSFC/R W STEWART 31-Atmos Sci

NAG 8-891 State Univ of New York - Albany 6418
 SYNCHROTRON TOPOGRAPHY CHARACTERIZATION OF CRYSTAL
 USED IN ELECTRONIC ANDPHOTONIC APPLICATIONS
Period Obligations
 10/02/1991-10/01/1993 FY95: TOTAL: \$78,110
Prin. Invest. NASA Tech. Officer CASE Category
 M DUDLEY MSFC/D C GILLIES 47-Materials Engr
 MSFC/F R SZOFRAN

NAG 8-926 State Univ of New York - Albany 6419
 HIGH BRIGHTNESS SOURCE DEVELOPMENT
Period Obligations
 07/10/1992-07/31/1994 FY95: TOTAL: \$29,285
Prin. Invest. NASA Tech. Officer CASE Category
 W M GIBSON MSFC/D C CARTER 11-Astronomy

NAGW 2978 State Univ of New York - Albany 6420
 COMPARISON OF SAGE II AND IN SITU STRATOSPHERIC WA TER
 VAPOR PROFILES
Period Obligations
 03/16/1992-12/31/1993 FY95: TOTAL: \$55,529
Prin. Invest. NASA Tech. Officer CASE Category
 J SCHWAB HQ/J C DODGE 32-Geological Sci
 HQ/R A SCHIFFER

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAGW 3357 State Univ of New York - Albany 6421
 PHYSICS AND CHEMISTRY OF NATURAL GLASSES
Period Obligations
 02/09/1993-01/31/1996 FY95: \$35,172 TOTAL: \$133,221
Prin. Invest. NASA Tech. Officer CASE Category
 J DELANO HQ/H C BRINTON 32-Geological Sci

NAG 1-1099 State Univ of New York - Binghamton 6429
 AERODYNAMIC GENERATION OF SOUND - FDP
Period Obligations
 02/14/1990-01/31/1995 FY95: TOTAL: \$212,998
Prin. Invest. NASA Tech. Officer CASE Category
 J F GEER LARC/J C HARDIN 13-Physics

NAS 1-18942 State Univ of New York - Albany 6422
 SAGE III SCIENCE SUPPORT - P.I. - DR. V. MOHNEN
Period Obligations
 01/31/1990-01/31/2005 FY95: \$70,000 TOTAL: \$159,800
Prin. Invest. NASA Tech. Officer CASE Category
 V MOHNEN LARC/G L MADDREA 31-Atmos Sci
 LARC/L R MCMASTER

NAG 1-1406 State Univ of New York - Binghamton 6430
 EXPERIMENTAL METHODS FOR ACOUSTIC FATIGUE RESEARCH
Period Obligations
 03/04/1992-03/31/1995 FY95: TOTAL: \$155,196
Prin. Invest. NASA Tech. Officer CASE Category
 R N MILES LARC/S A RIZZI 41-Aero Engr
 LARC/C A POWELL

NAS 8-39926 State Univ of New York - Albany 6423
 ADVANCE HIGH BRILLIANCE X-RAY SOURCE
Period Obligations
 04/01/1993-05/31/1996 FY95: \$123,613 TOTAL: \$372,588
Prin. Invest. NASA Tech. Officer CASE Category
 W E GIBSON MSFC/T Y MILLER 13-Physics

NAG 3-1316 State Univ of New York - Binghamton 6431
 STUDY OF THE PERFORMANCE OF A WORM GEARING TRANSMISSION ENHANCED BY HYDROSTATIC LUBRICATION
Period Obligations
 01/13/1992-01/31/1996 FY95: TOTAL: \$84,425
Prin. Invest. NASA Tech. Officer CASE Category
 D C SUN LERC/D E BREWE 46-Mech Engr
 Y QIN LERC/G A BOBULA

NAS 9-16042 State Univ of New York - Albany 6424
 LIFE SCIENCE FLIGHT EXPERIMENT
Period Obligations
 01/17/1980-11/01/1995 FY95: TOTAL: \$3,176,020
Prin. Invest. NASA Tech. Officer CASE Category
 L FARHI JSC/C M BUNTIN 59-Life Sci, NEC

NAG 3-1464 State Univ of New York - Binghamton 6432
 MODELING DEVELOPMENT - ASSESSMENT AND STRATEGY
Period Obligations
 02/16/1993-02/13/1995 FY95: TOTAL: \$108,628
Prin. Invest. NASA Tech. Officer CASE Category
 D C HOPKINS LERC/R C CULL 45-Elec Engr

NCC 2-5125 State Univ of New York - Albany 6425
 USE OF AN EXISTING AIRBORNE RADON DATA BASE IN THE VERIFICATION OF THE NASA/AEAP CORE MODEL
Period Obligations
 04/14/1995-04/30/1997 FY95: \$29,984 TOTAL: \$29,984
Prin. Invest. NASA Tech. Officer CASE Category
 M KRITZ ARC/L PFISTER 31-Atmos Sci

NAGW 2699 State Univ of New York - Binghamton 6433
 THERMAL INFRARED REMOTE SENSING AND BIOSPHERIC PROCESSES
Period Obligations
 08/20/1991-04/30/1994 FY95: TOTAL: \$190,093
Prin. Invest. NASA Tech. Officer CASE Category
 N S GOEL HQ/G ASRAR 39-Env Sci, NEC
 J M NORMAN HQ/D E WICKLAND

NCC 3-284 State Univ of New York - Albany 6426
 CHEMICAL VAPOR DEPOSITION OF TITANIUM AND ITS ALLOYS FOR ADVANCED AEROSPACE AND MICROELECTRONIC APPLICATIONS
Period Obligations
 12/18/1992-11/30/1995 FY95: TOTAL: \$101,625
Prin. Invest. NASA Tech. Officer CASE Category
 A E KOLOYEROS LERC/A F HEPP 13-Physics

NAGW 3003 State Univ of New York - Binghamton 6434
 OCEAN TIDE MODELS FOR SATELLITE GEODESY AND EARTH ROTATION
Period Obligations
 03/23/1992-06/30/1995 FY95: TOTAL: \$171,975
Prin. Invest. NASA Tech. Officer CASE Category
 S R DICKMAN HQ/R E MURPHY 32-Geological Sci
 HQ/D M BUTLER

NGT 00-030-340 State Univ of New York - Albany 6427
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/11/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 D R FITZJARRALD HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-050-756 State Univ of New York - Binghamton 6435
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/21/1991-05/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G KLIR HQ/F C OWENS 21-Mathematics

NGT 00-051-239 State Univ of New York - Albany 6428
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/19/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A E KALOYEROS LERC/F MONTEGANI 13-Physics

NAG 1-1122 State Univ of New York - Buffalo 6436
 LARGE EDDY SIMULATORS AND DIRECT NUMERICAL SIMULATORS OF HIGH SPEED TURBULANT REACTING FLOWS
Period Obligations
 04/19/1990-07/31/1996 FY95: \$79,000 TOTAL: \$375,000
Prin. Invest. NASA Tech. Officer CASE Category
 P GIBI LARC/J P DRUMMOND 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 1-1342 State Univ of New York - Buffalo 6437
METHODS AND PRINCIPLES FOR DETERMINING TASK DEPENDENT
INTERFACE CONTENT
Period *Obligations*
09/20/1991-06/30/1995 FY95: TOTAL: \$336,760
Prin. Invest. *NASA Tech. Officer* *CASE Category*
V L SHALIN LARC/K H ABBOTT 69-Psych, NEC
LARC/P C SCHUTTE

NAG 1-1599 State Univ of New York - Buffalo 6438
OPTIMAL SCHEDULE FOR REDUCTION OF COMPLEX SYSTEMS MY
1/2
Period *Obligations*
03/02/1994-03/01/1996 FY95: \$49,791 TOTAL: \$91,331
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C L BLEEBAUM LARC/J L ROGERS 49-Engr, NEC

NAG 2-947 State Univ of New York - Buffalo 6439
NASA-ESA JOINT CO2 STUDY
Period *Obligations*
12/13/1994-09/30/1995 FY95: \$217,047 TOTAL: \$217,047
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A KRASNEY ARC/C M WINGET 56-Medical Sciences
ARC/G C JAHNS

NAG 3-862 State Univ of New York - Buffalo 6440
STATISTICAL FRACTURE ANALYSIS OF COMPOSITE MATERIALS
Period *Obligations*
01/22/1988-10/31/1994 FY95: TOTAL: \$341,149
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R C WETHERHOLD LERC/B GROSS 47-Materials Engr

NAG 3-1345 State Univ of New York - Buffalo 6441
WIRING INSULATION FOR SPACE POWER APPLICATIONS
Period *Obligations*
04/16/1992-04/10/1995 FY95: TOTAL: \$155,048
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R LAGHARI LERC/S DOMITZ 45-Elec Engr
LERC/J DICKMAN

NAG 3-1548 State Univ of New York - Buffalo 6442
ATM IN A LOCAL ENVIRONMENT: AN EVALUATION OF ATM T O
SUPPORT HETEROGENEOUS COMPUTING
Period *Obligations*
12/01/1993-11/30/1995 FY95: \$40,800 TOTAL: \$80,489
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P W DOWD LERC/R W CLAUS 22-Computer Science

NAG 3-1620 State Univ of New York - Buffalo 6443
NONLINEAR BUBBLE INTERACTIONS IN ACOUSTIC PRESSURE
FIELDS
Period *Obligations*
06/16/1994-06/21/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J TSAMOPOULOS LERC/B S SINGH 46-Mech Engr

NAG 5-2181 State Univ of New York - Buffalo 6444
A MINIMUM MODEL ERROR APPROACH TO ATTITUDE DETERMI
NATION
Period *Obligations*
01/14/1993-01/14/1995 FY95: TOTAL: \$93,344
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J MOOK GSFC/T H STENGLE 42-Astro Engr
GSFC/K GALAL

NAG 5-2273 State Univ of New York - Buffalo 6445
VOLCANO MONITORING FOR ERUPTION PREDICTION AND FOR
ECASTING USING THE GLOBAL POSITIONING SYSTEM
Period *Obligations*
05/26/1993-05/31/1996 FY95: \$20,000 TOTAL: \$65,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
BURSIK GSFC/G BILLS 32-Geological Sci

NAG 9-762 State Univ of New York - Buffalo 6446
CHARACTERIZATION OF MICROGRAVITY EFFECTS ON BONE
STRUCTURE AND STRENGTH USING FRACTAL ANALYSIS
Period *Obligations*
09/26/1994-10/30/1995 FY95: TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L C SHACKELFORD JSC/N G ROBERTSON 51-Biological Sci

NAGW 3630 State Univ of New York - Buffalo 6447
GRAVITY INDUCED ALTERATION IN DIFFERENTIATION OF A LL TYPE
IN CHARA
Period *Obligations*
05/28/1993-05/31/1995 FY95: TOTAL: \$119,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M A BISSON HQ/T W HALSTEAD 51-Biological Sci

NAGW 3937 State Univ of New York - Buffalo 6448
CARDIOPULMONARY HEMODYNAMICS IN MICROGRAVITY
Period *Obligations*
05/27/1994-05/31/1996 FY95: \$220,000 TOTAL: \$439,404
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L E FARHI HQ/F M SULZMAN 51-Biological Sci

NGT 00-010-019 State Univ of New York - Buffalo 6449
NGT-10019/RESEARCH FOUNDATION STATE UNIV NY/MULTID
ISCIPLINARY DESIGN/ANALYSIS FELLOWSHIP PROGRAM
Period *Obligations*
12/06/1993-03/31/1994 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C L BLOEBAUM HQ/G S SEIDEL 41-Aero Engr
A SOOM HQ/J R FACEY

NGT 00-050-992 State Univ of New York - Buffalo 6450
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/04/1992-06/30/1996 FY95: \$22,000 TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
V SHALIN LARC/E J PRIOR 49-Engr, NEC

NGT 00-070-333 State Univ of New York - Buffalo 6451
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
06/29/1993-06/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J MOOK HQ/D K RUSSELL 46-Mech Engr

NAG 1-1264 State Univ of New York - Stony Brook 6452
THE SURFACE RADIATION BUDGET AND CLOUD CLIMATE
INTERACTIONS AS A PART OF CERES
Period *Obligations*
04/29/1991-04/30/1996 FY95: \$134,447 TOTAL: \$461,492
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D CESS LARC/B A WIELICKI 31-Atmos Sci
LARC/J W YOUNGBLOOD

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 1-1354 State Univ of New York - Stony Brook 6453
GROUND-BASED MEASUREMENT OF STRATOSPHERIC C10, H2O N2O
AND O3 IN SUPPORT OF THE UARS MISSION
Period *Obligations*
12/19/1991-12/31/1995 FY95: TOTAL: \$325,895
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R DE ZAFRA LARC/J G WELLS 31-Atmos Sci

NAG 5-2404 State Univ of New York - Stony Brook 6461
HIGH MASS STAR FORMATION AND ULTRACOMPACT HII REGIONS
IN GALACTIC PLANE GMC'S
Period *Obligations*
10/28/1993-10/31/1995 FY95: \$50,200 TOTAL: \$95,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P M SOLOMON GSFC/D WEST 11-Astronomy

NAG 3-1526 State Univ of New York - Stony Brook 6454
DEVELOPMENT OF A FIBER OPTIC COMPRESSOR BLADE SENSORS
Period *Obligations*
09/08/1993-09/07/1994 FY95: TOTAL: \$54,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H S DHADWALL LERC/A KURKOV 49-Engr, NEC
LERC/O MEHMED

NAG 5-2507 State Univ of New York - Stony Brook 6462
LATE B STAR X-RAY SOURCES
Period *Obligations*
02/03/1994-02/14/1995 FY95: TOTAL: \$1,479
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F WALTER GSFC/D WEST 11-Astronomy

NAG 5-1594 State Univ of New York - Stony Brook 6455
GLOBAL ASPECTS OF LOW MASS STAR FORMATION IN THE O
RION COMPLEX AND LOW MASS STARS IN ASSOCIATION I . .
Period *Obligations*
05/09/1991-11/30/1996 FY95: \$11,478 TOTAL: \$169,878
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F M WALTER GSFC/R PETRE 11-Astronomy

NAG 5-2739 State Univ of New York - Stony Brook 6463
TWO-D REPRESENTATION OF THREE-D MODELING OF
ATMOSPHERIC EFFECTS OF AIRCRAFT
Period *Obligations*
09/27/1994-10/31/1995 FY95: \$108,839 TOTAL: \$108,839
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M A GELLER GSFC/R W STEWART 31-Atmos Sci

NAG 5-1699 State Univ of New York - Stony Brook 6456
DEVELOPMENT AND EVALUATION OF 4-D DATA ASSIMILATION
FOR TRMM SCIENCE
Period *Obligations*
08/15/1991-08/14/1994 FY95: TOTAL: \$155,511
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M A GELLER GSFC/W TAO 31-Atmos Sci

NAG 5-2863 State Univ of New York - Stony Brook 6464
THE COMPOSITION, STRUCTURE AND EVOLUTION OF NEUTRON
STARS
Period *Obligations*
01/06/1995-01/14/1996 FY95: \$86,000 TOTAL: \$86,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M LATTIMER GSFC/D WEST 11-Astronomy

NAG 5-1862 State Univ of New York - Stony Brook 6457
THREE DIMENSIONAL STRUCTURES OF THE ATMOSPHERES OF
COOL STARS
Period *Obligations*
01/16/1992-11/30/1995 FY95: \$82,000 TOTAL: \$304,645
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F M WALTER GSFC/A SMITH 11-Astronomy

NAG 5-2936 State Univ of New York - Stony Brook 6465
THE STRUCTURE OF THE CORONAE OF PRE-MAIN SEQUENCE
STARS
Period *Obligations*
05/08/1995-11/14/1996 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F WALTER GSFC/N WHITE 12-Chemistry

NAG 5-1874 State Univ of New York - Stony Brook 6458
ATMOSPHERIC STRUCTURES IN NAKED T TAURI STARS
Period *Obligations*
01/23/1992-01/31/1994 FY95: TOTAL: \$67,670
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F M WALTER GSFC/R PETRE 11-Astronomy

NAG 5-2964 State Univ of New York - Stony Brook 6466
THE EMISSION MEASURE DISTRIBUTION IN PRE-MAIN SEQUENCE
B STARS
Period *Obligations*
06/12/1995-12/14/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F WALTER GSFC/N WHITE 11-Astronomy

NAG 5-2366 State Univ of New York - Stony Brook 6459
THE EMISSION MEASURE DISTRIBUTION IN THE CORONAE OF AR
LACERTAE
Period *Obligations*
09/13/1993-09/14/1996 FY95: TOTAL: \$79,739
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F M WALTER GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2983 State Univ of New York - Stony Brook 6467
CHROMOSPHERIC DOPPLER IMAGING AND THE SEARCH FOR THE
MAGNETIC CYCLE IN AR LACERT
Period *Obligations*
06/27/1995-06/30/1996 FY95: \$41,890 TOTAL: \$41,890
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F M WALTER GSFC/D WEST 11-Astronomy

NAG 5-2403 State Univ of New York - Stony Brook 6460
REDETERMINATION OF FLUXES FOR IRAS GALAXIES
Period *Obligations*
10/25/1993-10/31/1995 FY95: \$38,000 TOTAL: \$73,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A YAHIL GSFC/D WEST 11-Astronomy

NAGW 1107 State Univ of New York - Stony Brook 6468
DYNAMICAL PROBLEMS IN THE SOLAR SYSTEM
Period *Obligations*
06/01/1987-12/31/1995 FY95: \$60,000 TOTAL: \$418,850
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J LISSAUER HQ/J R UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAGW 1238 State Univ of New York - Stony Brook 6469
LABORATORY SPECTROSCOPIC MEASUREMENTS

<i>Period</i>	<i>Obligations</i>	
12/07/1987-12/31/1995	FY95: \$86,922	TOTAL: \$630,448
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P VARANASI	HQ/M J KURYLO	39-Env Sci, NEC
	HQ/R T WATSON	

NAGW 2796 State Univ of New York - Stony Brook 6477
INFRARED SPECTROSCOPY OF JUPITER AND SATURN

<i>Period</i>	<i>Obligations</i>	
12/18/1991-09/30/1993	FY95:	TOTAL: \$79,342
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R KNACKE	HQ/W L QUAIDE	11-Astronomy

NAGW 1529 State Univ of New York - Stony Brook 6470
CELLS EMBRYOS AND DEVELOPMENT IN SPACE

<i>Period</i>	<i>Obligations</i>	
11/28/1988-10/31/1995	FY95: \$90,000	TOTAL: \$615,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A D KRIKORIAN	HQ/T HALSTEAD	59-Life Sci, NEC

NAGW 2958 State Univ of New York - Stony Brook 6478
STUDIES OF EXCITED SPECIES IN PLANETARY UPPER ATMOSPHERE

<i>Period</i>	<i>Obligations</i>	
03/03/1992-12/31/1995	FY95: \$81,000	TOTAL: \$317,549
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L FOX	HQ/W L QUAIDE	11-Astronomy

NAGW 1560 State Univ of New York - Stony Brook 6471
TESTING AND OPERATION OF A MILLIMETER WAVE CIO RECEIVES

<i>Period</i>	<i>Obligations</i>	
04/26/1989-08/15/1996	FY95: \$400,305	TOTAL: \$1,506,317
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P M SOLOMON	HQ/M J KURYLO	31-Atmos Sci
	HQ/R T WATSON	

NAGW 3165 State Univ of New York - Stony Brook 6479
TIMESCALES FOR THE DISSIPATION OF PROTOPLANETARY DISKS

<i>Period</i>	<i>Obligations</i>	
08/10/1992-05/31/1996	FY95: \$15,000	TOTAL: \$120,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F WALTER	HQ/J A NUTH	19-Phys Sci, NEC

NAGW 1894 State Univ of New York - Stony Brook 6472
QUANTITATIVE SPECTROSCOPIC MEASUREMENTS ON THE PRINCIPAL CONSTITUENTS IN PLANETARY ATMOSPHERES

<i>Period</i>	<i>Obligations</i>	
01/24/1990-09/30/1995	FY95: \$72,608	TOTAL: \$402,739
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P VARANASI	HQ/J T BERGSTRALH	11-Astronomy

NAGW 3517 State Univ of New York - Stony Brook 6480
CONTINUED PARTICIPATION ON THE RECONSTITUTED EARTH RADIATION BUDGET EXPERIMENT SCIENCE TEAM

<i>Period</i>	<i>Obligations</i>	
04/30/1993-03/31/1996	FY95: \$191,808	TOTAL: \$276,053
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R D CESS	HQ/J C DODGE	31-Atmos Sci
	HQ/R A SCHIFFER	

NAGW 2182 State Univ of New York - Stony Brook 6473
NAGW-2182/STATE UNIV NY/THE MEASUREMENT OF STRATOSPHERIC TRACE GASES BY MM-WAVE EMISSION SPECTROSCOPY

<i>Period</i>	<i>Obligations</i>	
07/09/1990-12/31/1995	FY95: \$192,592	TOTAL: \$1,139,836
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R DE ZAFFRA	HQ/M J KURYLO	31-Atmos Sci

NAGW 3731 State Univ of New York - Stony Brook 6481
STUDIES OF THE NIGHTSIDE IONOSPHERES-THERMOSPHERES OF VENUS AND MARS

<i>Period</i>	<i>Obligations</i>	
09/03/1993-06/30/1996	FY95:	TOTAL: \$77,400
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L FOX	HQ/J T BERGSTRALH	32-Geological Sci

NAGW 2238 State Univ of New York - Stony Brook 6474
NAGW-2238/STATE UNIV NY/EXOSPHERIC PROCESSES AND ESCAPE OF SPECIES FROM THE MARTIAN ATMOSPHERE

<i>Period</i>	<i>Obligations</i>	
03/06/1991-03/31/1995	FY95:	TOTAL: \$116,572
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L FOX	HQ/J M BOYCE	32-Geological Sci

NAGW 4040 State Univ of New York - Stony Brook 6482
THE STABILITY OF ORBITAL CONFIGURATIONS: THE ULTIMATE CONFIGURATION OF PLANETARY AND SATELLITE SYSTEM

<i>Period</i>	<i>Obligations</i>	
06/09/1994-03/31/1997	FY95: \$45,000	TOTAL: \$90,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J LISSAUER	HQ/P ROGERS	11-Astronomy

NAGW 2334 State Univ of New York - Stony Brook 6475
NAGW-2334/STATE UNIV NY @ STONY BROOK/INTERSTELLAR AND SOLAR SYSTEM CHEMISTRY

<i>Period</i>	<i>Obligations</i>	
06/13/1991-10/31/1994	FY95:	TOTAL: \$127,177
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R F KNACKE	HQ/J A NUTH	19-Phys Sci, NEC

NAGW 4113 State Univ of New York - Stony Brook 6483
STUDY OF ENVIRONMENTS FOR PLANET FORMATION

<i>Period</i>	<i>Obligations</i>	
09/06/1994-07/31/1996	FY95: \$15,000	TOTAL: \$29,997
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M SIMON	HQ/P ROGERS	11-Astronomy

NAGW 2483 State Univ of New York - Stony Brook 6476
ANALYSIS OF EUV DAYGLOWS SPECTRA OF TRITON, TITAN, AND EARTH

<i>Period</i>	<i>Obligations</i>	
07/10/1991-07/31/1995	FY95:	TOTAL: \$73,071
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J L FOX	HQ/W L QUAIDE	19-Phys Sci, NEC

NAGW 4433 State Univ of New York - Stony Brook 6484
THE GASEOUS CONTENT OF THE UNIVERSE AT Z < 1.6

<i>Period</i>	<i>Obligations</i>	
05/12/1995-04/30/1996	FY95: \$51,000	TOTAL: \$51,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K LANZETTA	HQ/G R RIEGLER	11-Astronomy

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAGW 4509 State Univ of New York - Stony Brook 6485
GIANT MOLECULAR CLOUDS AND HIGH MASS

<i>Period</i>	<i>Obligations</i>	
05/17/1995-04/30/1996	FY95: \$124,000	TOTAL: \$124,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P S SOLOMON	HQ/G R RIEGLER	11-Astronomy

NGT 00-030-121 State Univ of New York - Stony Brook 6493
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/21/1992-08/31/1995	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A SUBRAMANIAM	HQ/G ASRAR	33-Oceanography
	HQ/D M BUTLER	

NAGW 4659 State Univ of New York - Stony Brook 6486
ORBITS OF SATURN'S INNER MOONS AND OTHER OBSERVATIONS CONNECTED WITH THE 1995-1996 SATURN RING CROSS

<i>Period</i>	<i>Obligations</i>	
07/28/1995-02/28/1998	FY95: \$47,000	TOTAL: \$47,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J LISSAUER	HQ/E BARKER	11-Astronomy

NGT 00-030-146 State Univ of New York - Stony Brook 6494
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
10/21/1992-05/31/1996	FY95: \$22,000	TOTAL: \$66,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A M WALLACE	HQ/G ASRAR	39-Env Sci, NEC
	HQ/D M BUTLER	

NAG10-70 State Univ of New York - Stony Brook 6487
CHROMOSOMES/PLANT CELL DIVISION IN SPACE CHROMEX-2

<i>Period</i>	<i>Obligations</i>	
03/26/1990-11/25/1995	FY95:	TOTAL: \$658,968
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A D KRIKORIAN	KSC/W M KNOT	51-Biological Sci

NAGW 2259 State Univ of New York College, Buffalo 6500
COMPARATIVE VOLCANOLOGIC STUDIES AND PPG UNDERGRADUATE RESEARCH PROGRAM

<i>Period</i>	<i>Obligations</i>	
12/14/1990-12/31/1995	FY95: \$85,510	TOTAL: \$494,297
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J S KING	HQ/T A MAXWELL	32-Geological Sci

NAG10-146 State Univ of New York - Stony Brook 6488
PLANT EMBRYOS AND FIDELITY OF CELL DIVISION

<i>Period</i>	<i>Obligations</i>	
09/30/1994-09/30/1995	FY95:	TOTAL: \$94,002
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A D DRIKORIAN	KSC/W M KNOTT	55-Agriculture Sci

NGT 00-070-410 State Univ of New York College, Buffalo 6501
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/13/1995-08/31/1996	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M F SHERIDAN	HQ/D K RUSSELL	32-Geological Sci

NAS 5-31247 State Univ of New York - Stony Brook 6489
OBSER. ANALYSIS/THEORETICAL MODELING INVEST. UARS

<i>Period</i>	<i>Obligations</i>	
08/09/1990-11/30/1995	FY95: \$350,370	TOTAL: \$1,816,370
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M A GELLER	GSFC/C A REBER	31-Atmos Sci

NAG 8-1121 State Univ of New York Col - Oneonta 6495
DEVELOP CMC DATABASE FOR NEXT GENERATION LAUNCE VEHICLE

<i>Period</i>	<i>Obligations</i>	
01/23/1995-01/31/1996	FY95: \$38,013	TOTAL: \$38,013
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K MAHANTA	MSFC/R G CLINTON	47-Materials Engr
	MSFC/D S TUCKER	

NAS 5-31720 State Univ of New York - Stony Brook 6490
EOS INVESTIGATION GLOBAL HYDROLOGIC PROCESSES AND CLIMATE

<i>Period</i>	<i>Obligations</i>	
08/21/1991-08/21/1996	FY95: \$40,000	TOTAL: \$194,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M GELLER	GSFC/W LAU	39-Env Sci, NEC

NAG 9-459 State Univ of New York Col - Plattsburgh 6496
TRACE ELEMENT ABUNDANCE MEASUREMENTS ON COSMIC DUST PARTICLES

<i>Period</i>	<i>Obligations</i>	
07/01/1990-07/01/1994	FY95:	TOTAL: \$95,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G J FLYNN	JSC/I D BROWNE	19-Phys Sci, NEC

NCC 8-48 State Univ of New York - Stony Brook 6491
CRYSTAK RESEARCH

<i>Period</i>	<i>Obligations</i>	
06/17/1994-07/19/1996	FY95: \$50,000	TOTAL: \$100,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M DUDLEY	MSFC/D C GILLIES	13-Physics
D J LARSON	MSFC/F R SZOFRAN	

NAGW 3587 State Univ of New York Col - Plattsburgh 6497
TRACE ELEMENT ABUNDANCE MEASUREMENTS ON COSMIC DUST PARTICLES

<i>Period</i>	<i>Obligations</i>	
05/12/1993-06/30/1996	FY95: \$34,248	TOTAL: \$104,546
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G FLYNN	HQ/J BOYCE	32-Geological Sci

NCC 8-53 State Univ of New York - Stony Brook 6492
CRYSTAL STUDIES

<i>Period</i>	<i>Obligations</i>	
07/15/1994-09/15/1996	FY95: \$13,453	TOTAL: \$26,453
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M DUDLEY	MSFC/D C GILLIES	13-Physics
	MSFC/C SU	

NAG 5-2700 State Univ of New York College - Purchase 6498
IMPROVEMENT OF JET STREAM WIND ANALYSIS USING COMMERCIAL AIRCRAFT DATA

<i>Period</i>	<i>Obligations</i>	
08/24/1994-10/31/1995	FY95: \$141,667	TOTAL: \$151,394
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J TENENBAUM	GSFC/R W STEWART	31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NSG-5077 State Univ of New York College - 6499
Purchase
 SPECTRAL AND MONTE CARLO PREDICTABILITY STUDIES
Period Obligations
 09/01/1975-05/31/1994 FY95: \$30,000 TOTAL: \$690,745
Prin. Invest. NASA Tech. Officer CASE Category
 J TENENBAUM GSFC/M HELFAND 31-Atmos Sci
 M REDDI

NAG 1-1400 Syracuse University 6502
 TURBULANCE MEASUREMENTS IN HYPERSONIC BOUNDARY
 LAYERS USING CONSTANT
Period Obligations
 02/24/1992-12/31/1994 FY95: TOTAL: \$118,404
Prin. Invest. NASA Tech. Officer CASE Category
 E F SPINA LARC/S K ROBINSON 19-Phys Sci, NEC

NAG 1-1401 Syracuse University 6503
 SPECIFICATIONS FOR IMPROVED RELIABILITY AND TESTING: AN
 EXPERIMENTAL STUDY BASED ON GCS
Period Obligations
 02/25/1992-11/22/1993 FY95: TOTAL: \$23,408
Prin. Invest. NASA Tech. Officer CASE Category
 A L GOEL LARC/G B FINELLI 29-Math/Cmputer, NEC
 S K CHIN LARC/K J HAYHURST

NAG 3-1468 Syracuse University 6504
 THREE-DIMENSIONAL AND VISCOUS INVERSE DESIGN METHOD FOR
 BLADES IN MULTISTAGE TURBOMACHINES
Period Obligations
 04/16/1993-12/31/1995 FY95: \$24,000 TOTAL: \$98,936
Prin. Invest. NASA Tech. Officer CASE Category
 T Q DANG LERC/J P VERES 41-Aero Engr

NAG 3-1585 Syracuse University 6505
 INVERSE METHOD FOR THE NASA LERC TURBOMACHINERY DE
 SIGN/ANALYSIS SYSTEM
Period Obligations
 03/29/1994-11/16/1995 FY95: \$54,878 TOTAL: \$77,101
Prin. Invest. NASA Tech. Officer CASE Category
 T Q DANG LERC/D P MILLER 41-Aero Engr

NAG 3-1630 Syracuse University 6506
 EFFECTS OF GRAVITY AND SHEAR ON THE DYNAMICS AND S
 TANILITY OF PARTICULATE AND MULTIPHASE FLOW
Period Obligations
 06/24/1994-06/23/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 A S SANGANI LERC/H K NAHRA 43-Chem Engr

NAG 5-2280 Syracuse University 6507
 HIGH PERFORMANCE COMPUTING AND FOUR-DIMENSIONAL DA TA
 ASSIMILATION
Period Obligations
 05/26/1993-05/31/1996 FY95: \$140,000 TOTAL: \$350,000
Prin. Invest. NASA Tech. Officer CASE Category
 G C FOX GSFC/R B ROOD 31-Atmos Sci
 K MILLS

NAGW 2932 Syracuse University 6508
 HYDROGEN RECOMBINATION ON SURFACES OF INSTELLAR GR
 AIN ANALOGUES: A LABORATORY INVESTIGATION
Period Obligations
 02/28/1992-11/30/1994 FY95: TOTAL: \$248,092
Prin. Invest. NASA Tech. Officer CASE Category
 G VIDALI HQ/L CAROFF 13-Physics

NAGW 3713 Syracuse University 6509
 CENTER FOR TRAINING AND RESEARCH IN HYPERSONICS
Period Obligations
 08/12/1993-07/31/1995 FY95: \$199,120 TOTAL: \$400,000
Prin. Invest. NASA Tech. Officer CASE Category
 E F SPINA HQ/S WANDER 49-Engr, NEC

NAS 1-20478 Syracuse University 6510
 DEFINITION OF REQUIREMENTS FOR AN AERONAUTICS AFFO
 RDABLE SYSTEMS OPTIMIZATION PROCESS
Period Obligations
 05/25/1995-08/24/1996 FY95: \$500,173 TOTAL: \$500,173
Prin. Invest. NASA Tech. Officer CASE Category
 M CLARK LARC/D H RUDY 41-Aero Engr

NGT 00-030-124 Syracuse University 6511
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/30/1992-01/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 B J WILSEY HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-051-171 Syracuse University 6512
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/14/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 E F SPINA LARC/E J PRIOR 46-Mech Engr

NGT 00-070-380 Syracuse University 6513
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 09/02/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 T DENG HQ/D K RUSSELL 49-Engr, NEC

NAG 8-1144 Union College 6514
 DEVELOPMENT OF COMPUTER MODELS FOR THE ASSESSMENT
 OF FOREIGN BODY IMPACT EVENTS ON COMPOSITE STRUCTU
Period Obligations
 05/17/1995-05/16/1996 FY95: \$19,449 TOTAL: \$19,449
Prin. Invest. NASA Tech. Officer CASE Category
 R B BUCINELL MSFC/A T NETTLES 49-Engr, NEC
 MSFC/F E LEDBETTER

NAG 2-117 University of Rochester 6515
 DEVELOPMENT OF AN INFRARED CCD FOR USE IN ASTRONOMY
Period Obligations
 10/01/1987-12/31/1994 FY95: TOTAL: \$804,764
Prin. Invest. NASA Tech. Officer CASE Category
 W J FORREST ARC/J H GOEBEL 11-Astronomy
 J L PIPHER ARC/C R MCCREIGHT
 S D GALEMA

NAG 2-958 University of Rochester 6516
 MOLECULAR SHOCKS ASSOCIATED WITH MASSIVE YOUNG STA
 RS: CO LINE IMAGES WITH A NEW FAR-INFRARED
Period Obligations
 01/25/1995-09/30/1995 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 D M WATSON ARC/C D LAUGHLIN 11-Astronomy
 ARC/C M GILLESPIE

**NASA'S UNIVERSITY PROGRAM
NEW YORK (Continued)**

NAG 2-975 University of Rochester 6517
DEVELOPMENT OF DETECTOR ARRAYS FOR LOW-BACKGROUND SPACE ASTRONOMY
Period Obligations
06/17/1995-10/01/1995 FY95: \$38,000 TOTAL: \$38,000
Prin. Invest. NASA Tech. Officer CASE Category
W J FORREST ARC/J H GOEBEL 45-Elec Engr
J L PIPHER ARC/C R MCCREIGHT

NCA 2-827 University of Rochester 6525
COMPUTATIONAL MODELING OF ULTRAFAST OPTICLA PHENOM ENA IN SEMICONDUCTOR LASERS AND AMPLIFIERS
Period Obligations
06/29/1993-08/31/1995 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
G AGRAWL ARC/P GOORJIAN 45-Elec Engr

NAGW 2123 University of Rochester 6518
SUNSPOT DYNAMICS
Period Obligations
06/06/1990-03/31/1996 FY95: \$80,700 TOTAL: \$399,100
Prin. Invest. NASA Tech. Officer CASE Category
J H THOMAS HQ/J D BOHLIN 13-Physics
HQ/S KANE

NCC 2-5149 University of Rochester 6526
COMPUTATIONAL MODELING OF SEMICONDUCTOR DYNAMICS A T FEMTOSECOND TIME SCALES
Period Obligations
08/09/1995-08/31/1997 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
G AGRAWAL ARC/P M GOORJIAN 45-Elec Engr

NAGW 2262 University of Rochester 6519
DEVELOPMENT AND EVOLUTION OF THERMAL STRUCTURE IN SUBSTELLAR OBJECTS
Period Obligations
01/28/1991-10/01/1995 FY95: TOTAL: \$25,100
Prin. Invest. NASA Tech. Officer CASE Category
H M VAN HORN HQ/J A NUTH 19-Phys Sci, NEC

NGT 00-050-817 University of Rochester 6527
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/16/1991-06/30/1994 FY95: TOTAL: \$61,484
Prin. Invest. NASA Tech. Officer CASE Category
J PIPHER HQ/J T LYNCH 11-Astronomy

NAGW 2356 University of Rochester 6520
CENTER FOR SPACE ENVIRONMENTAL HEALTH (CSEH)
Period Obligations
01/30/1991-12/31/1995 FY95: \$1,044,000 TOTAL: \$4,948,000
Prin. Invest. NASA Tech. Officer CASE Category
T W CLARKSON HQ/R J WHITE 59-Life Sci, NEC

NGT 00-050-888 University of Rochester 6528
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/01/1992-06/30/1995 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
D M WATSON JPL/H ASHKENAS 13-Physics

NAGW 2393 University of Rochester 6521
ALTERNATE DETECTOR TECHNOLOGIES FOR SIRT
Period Obligations
04/17/1991-03/31/1996 FY95: TOTAL: \$630,654
Prin. Invest. NASA Tech. Officer CASE Category
J L PIPHER HQ/M BICAY 11-Astronomy

NGT 00-051-109 University of Rochester 6529
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/29/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
T BROWN HQ/E MASSEY 49-Engr, NEC

NAGW 2444 University of Rochester 6522
NAGW-2444/UNIV ROCHESTER/SEISMOLOGY OF ROTATING, MAGNETIC STARS
Period Obligations
07/01/1991-08/31/1996 FY95: \$31,600 TOTAL: \$635,600
Prin. Invest. NASA Tech. Officer CASE Category
J H THOMAS HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 4211 York College 6530
CUNY COLLABORATIVE MASTAP SUMMER INSTITUTE
Period Obligations
12/07/1994-08/31/1997 FY95: \$135,102 TOTAL: \$135,102
Prin. Invest. NASA Tech. Officer CASE Category
J DAVIS HQ/D RUSSELL 99-Multi-Discip

NORTH CAROLINA

NAGW 4599 University of Rochester 6523
NASA/NIEHS WORKSHOP TO IDENTIFY MUTUAL AREAS OF RE SEARCH
Period Obligations
06/26/1995-09/30/1995 FY95: \$35,100 TOTAL: \$35,100
Prin. Invest. NASA Tech. Officer CASE Category
M J UTELL HQ/V R THORNE 39-Env Sci, NEC

NAG 1-1321 Appalachian State University 6531
A HYPERTEXT BASED PILOT OPERATIONS AND PROCEDURES MANUAL
Period Obligations
08/13/1991-04/30/1996 FY95: TOTAL: \$137,260
Prin. Invest. NASA Tech. Officer CASE Category
C R RUSSELL LARC/T S ABBOTT 22-Computer Science
LARC/M T PALMER

NCA 2-618 University of Rochester 6524
INFLUENCES OF FIXATION AND GRAVITY ON THE LINEAR VESTIBULOCULAR REFLEX.
Period Obligations
06/07/1991-04/30/1995 FY95: TOTAL: \$79,818
Prin. Invest. NASA Tech. Officer CASE Category
G D PAIGE ARC/D L TOMKO 56-Medical Sciences

NAGW 4531 Bennett College 6532
SCHOLARS FOR EXCELLENCE IN MATHEMATICS, SCIENCE, ENGINEERING AND TECHNOLOGY
Period Obligations
05/18/1995-04/30/1996 FY95: \$97,600 TOTAL: \$97,600
Prin. Invest. NASA Tech. Officer CASE Category
J MCCRARY HQ/B L WHITE 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
NORTH CAROLINA (Continued)**

NAGW 4634 Bennett College 6533
 MATHEMATICS, SCIENCE AND TECHNOLOGY AWARDS FOR TEACHER AND CURRICULUM ENHANCEMENT PROGRAM (MASTAP)
Period Obligations
 07/31/1995-06/30/1998 FY95: \$161,848 TOTAL: \$161,848
Prin. Invest. NASA Tech. Officer CASE Category
 D OLIVER HQ/B WHITE 99-Multi-Discip

NAG 9-134 Duke University 6541
 NITROGEN ELIMINATION/MODIFYING FACTORS
Period Obligations
 03/01/1986-10/01/1994 FY95: TOTAL: \$753,055
Prin. Invest. NASA Tech. Officer CASE Category
 R D VANN JSC/M R POWELL 56-Medical Sciences

NAG 1-1569 Duke University 6534
 EXPERIMENTAL AND THEORETICAL AEROELASTIC STUDY OF A WING AND CONTROL-SURFACE WITH FREE PLAY
Period Obligations
 02/02/1994-01/31/1996 FY95: \$25,031 TOTAL: \$50,034
Prin. Invest. NASA Tech. Officer CASE Category
 E H DOWELL LARC/S R COLE 41-Aero Engr

NAG 9-810 Duke University 6542
 SKELETAL MUSCLE DEVELOPMENT AND DIFFERENTIATION IN VITRO BY MECHANICAL AND CHEMICAL FACTORS
Period Obligations
 09/13/1995-08/31/1996 FY95: \$153,000 TOTAL: \$153,000
Prin. Invest. NASA Tech. Officer CASE Category
 W E KRAUS JSC/N PELLIS 51-Biological Sci

NAG 1-1570 Duke University 6535
 ACTIVE STRUCTURAL ACOUSTIC CONTROL OF PERSISTENT, IMPULSIVE AND BROADBAND DISTURBANCES
Period Obligations
 01/14/1994-01/13/1996 FY95: \$72,917 TOTAL: \$145,875
Prin. Invest. NASA Tech. Officer CASE Category
 R L CLARK LARC/R J SILCOX 41-Aero Engr
 LARC/K P SHEPHERD

NAGW 3328 Duke University 6543
 EQUILIBRATION IN DENSITY AND TEMPERATURE NEAR THE LIQUID VAPOR CRITICAL POINT
Period Obligations
 12/31/1992-12/31/1995 FY95: \$95,000 TOTAL: \$285,000
Prin. Invest. NASA Tech. Officer CASE Category
 H MEYER HQ/M C LEE 12-Chemistry

NAG 1-1592 Duke University 6536
 ESTIMATION OF CARBON-BASED GREENHOUSE GAS EMISSIONS FROM FIRES IN BOREAL FORESTS
Period Obligations
 01/21/1994-04/20/1995 FY95: TOTAL: \$22,017
Prin. Invest. NASA Tech. Officer CASE Category
 E S KASISCHKE LARC/D R CAHOON 39-Env Sci, NEC

NAGW 3655 Duke University 6544
 PHYSICAL AND METEOROLOGICAL REGULATION OF OCEANIC PRIMARY PRODUCTION IN THE EQUATORIAL PACIFIC
Period Obligations
 06/14/1993-12/31/1994 FY95: TOTAL: \$103,556
Prin. Invest. NASA Tech. Officer CASE Category
 R BARBER HQ/R E MURPHY 33-Oceanography
 HQ/S G TILFORD

NAG 2-1002 Duke University 6537
 EXPRESSION OF CONTRACTILE PROTEIN ISOFORMS IN MICROGRAVITY
Period Obligations
 08/25/1995-06/30/1996 FY95: \$67,867 TOTAL: \$67,867
Prin. Invest. NASA Tech. Officer CASE Category
 P ANDERSON ARC/C M WINGET 51-Biological Sci
 ARC/G C JAHNS

NAGW 4299 Duke University 6545
 SPACE ENGINEERING
Period Obligations
 02/13/1995-12/31/1995 FY95: \$26,340 TOTAL: \$26,340
Prin. Invest. NASA Tech. Officer CASE Category
 F H COCKS HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NAG 3-1433 Duke University 6538
 AEROACOUSTIC SENSITIVITY ANALYSIS AND OPTIMAL AEROACOUSTIC DESIGN OF TURBOMACHINERY BLADES
Period Obligations
 01/15/1993-11/23/1995 FY95: \$39,145 TOTAL: \$146,463
Prin. Invest. NASA Tech. Officer CASE Category
 K HALL LERC/D HOYNIAK 41-Aero Engr
 LERC/D L HUFF

NAGW 4417 Duke University 6546
 FACTORS AFFECTING DCS IN ASTRONAUTS DURING EVA
Period Obligations
 04/21/1995-05/30/1995 FY95: \$89,985 TOTAL: \$89,985
Prin. Invest. NASA Tech. Officer CASE Category
 R D VANN HQ/F SULZMAN 59-Life Sci, NEC

NAG 8-966 Duke University 6539
 CRYSTALLIZATION OF SOLUTION PROPERTIES OF REDESIGNED EPITHELIAL PROTEIN SURFACES
Period Obligations
 08/10/1993-06/30/1996 FY95: \$70,334 TOTAL: \$215,739
Prin. Invest. NASA Tech. Officer CASE Category
 D C RICHARDSON MSFC/D CARTER 19-Phys Sci, NEC

NAGW 4483 Duke University 6547
 MONITORING THE EFFECTS OF FIRE IN BOREAL FORESTS USING IMAGING RADARS
Period Obligations
 05/13/1995-05/31/1998 FY95: \$59,993 TOTAL: \$59,993
Prin. Invest. NASA Tech. Officer CASE Category
 E KASISOHKE HQ/D E WICKLAND 39-Env Sci, NEC
 N L CHRISTENSEN HQ/A C JANETOS

NAG 8-982 Duke University 6540
 NON-LINEAR OPTICAL SYSTEMS SUPPORT
Period Obligations
 09/16/1993-09/19/1994 FY95: TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 J M MADEY MSFC/E E MONTGOMERY 13-Physics

NCA 2-825 Duke University 6548
 DIGRAPH TECHNIQUES FOR DEPENDABILITY ANALYSIS OF FAULT TOLERANT SYSTEMS
Period Obligations
 06/03/1993-05/31/1984 FY95: TOTAL: \$39,683
Prin. Invest. NASA Tech. Officer CASE Category
 J B DUGAN ARC/M A BOYD 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
NORTH CAROLINA (Continued)**

NCC 9-42 Duke University 6549
 BIOPHYSICAL, MATHEMATICAL MODELS OF GAS FORMATION
Period Obligations
 09/25/1995-08/01/1996 FY95: \$32,500 TOTAL: \$32,500
Prin. Invest. NASA Tech. Officer CASE Category
 W GERTH JSC/M POWELL 54-Env Biology

NGT 00-030-305 Duke University 6557
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/16/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R RICHTER HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-069 Duke University 6550
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/19/1991-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A E HARTLEY HQ/D M BUTLER 39-Env Sci, NEC
 W SCHLESINGER HQ/G S WILSON

NGT 00-030-333 Duke University 6558
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/16/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 B STRAIN HQ/D E WICKLAND 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-077 Duke University 6551
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/19/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A F CROSS HQ/D M BUTLER 39-Env Sci, NEC
 W H SCHLESINGER HQ/G S WILSON

NGT 00-050-989 Duke University 6559
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/30/1992-10/31/1994 FY95: TOTAL: \$48,300
Prin. Invest. NASA Tech. Officer CASE Category
 L N VIRGIN LARC/E PRIOR 46-Mech Engr

NGT 00-030-199 Duke University 6552
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/01/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W H SCHLESINGER HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-051-105 Duke University 6560
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/24/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D B BLISS LARC/E PRIOR 46-Mech Engr

NGT 00-030-211 Duke University 6553
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/02/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R OREN HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-051-310 Duke University 6561
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/29/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D B BLISS ARC/M MOORE 46-Mech Engr

NGT 00-030-253 Duke University 6554
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/02/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 N L CHRISTENSEN JR. HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-051-313 Duke University 6562
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/23/1994-05/31/1995 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J B DUGAN ARC/M MOORE 22-Computer Science

NGT 00-030-301 Duke University 6555
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/08/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 W H SCHLESINGER HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-090-166 Duke University 6563
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/25/1995-08/14/1994 FY95: TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 E H DOWELL HQ/D K RUSSELL 99-Multi-Discip

NGT 00-030-302 Duke University 6556
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/08/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 W H SCHLESINGER HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NAGW 2927 East Carolina University 6564
 NEURAL REGULATION OF BONE RESORPTION DURING SIMULATED
 WEIGHTLESSNESS IN THE RAT
Period Obligations
 02/27/1992-09/30/1994 FY95: TOTAL: \$9,790
Prin. Invest. NASA Tech. Officer CASE Category
 D M TERRIAN HQ/J H STOKLOSA 59-Life Sci, NEC

**NASA'S UNIVERSITY PROGRAM
NORTH CAROLINA (Continued)**

NAGW 4505 East Carolina University 6565
MONITORING THE EFFECTS OF FIRES IN THE BOREAL FORE STS
Period *Obligations*
05/31/1995-04/30/1997 FY95: \$24,864 TOTAL: \$24,864
Prin. Invest. *NASA Tech. Officer* *CASE Category*
Y WANG HQ/D E WICKLAND 39-Env Sci, NEC
E KASISCHKE HQ/A C JANETOS

NGT 00-090-124 Fayetteville State University 6573
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period *Obligations*
09/26/1992-08/14/1995 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L EDWARDS HQ/D K RUSSELL 99-Multi-Discip

NCC 2-810 East Carolina University 6566
PHYSIOLOGICAL ANATOMICAL RODENT EXPERIMENT (PARE) .04
FEASIBILITY TEST 1
Period *Obligations*
07/16/1993-10/31/1994 FY95: TOTAL: \$78,115
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H W BURDEN ARC/C M WINGET 51-Biological Sci
ARC/C C JAHNS

NGT 00-090-244 Fayetteville State University 6574
NGT 90244/B FAYETTEVILLE STATE UNIV. 'GRAPHING CALCULATOR
INSTITUTE'
Period *Obligations*
05/03/1994-03/31/1996 FY95: \$49,167 TOTAL: \$98,334
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L EDWARDS HQ/B L WHITE 21-Mathematics

NCC 2-864 East Carolina University 6567
MICROGRAVITY AND PLACENTAL DEVELOPMENT
Period *Obligations*
06/23/1994-05/31/1996 FY95: \$72,330 TOTAL: \$153,712
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R H RENEGAR ARC/D A REISS-BUBENHEIM 51-Biological Sci
ARC/C M WINGET

NAG 8-223 Gullford College 6575
JOVE
Period *Obligations*
01/24/1992-05/31/1997 FY95: TOTAL: \$102,937
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C ALMY MSFC/F SIX 99-Multi-Discip
T ESPINOLA

NCC 2-866 East Carolina University 6568
PHYSIOLOGICAL ANATOMICAL RODENT EXPERIMENT (PARE) .04;
FLIGHT SUPPORT
Period *Obligations*
07/05/1994-04/14/1996 FY95: TOTAL: \$86,467
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H W BURDEN ARC/D A REISS-BUBENHEIM 51-Biological Sci
ARC/C M WINGET

NAG 3-1623 Johnson C. Smith University 6576
THE CONSERVATION/SOLUTION ELEMENT METHOD FOR NAVIER
STOKES EQUATION, SUPERSONIC AND TRANSONIC FLOWS
Period *Obligations*
06/22/1994-09/18/1996 FY95: \$28,000 TOTAL: \$128,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J O ADEYE LERC/J R SCOTT 29-Math/Computer, NEC
N F ATTIA

NCC 5-121 Elizabeth City State University 6569
REGIONAL NETWORK RESOURCES AND TRAINING SITE AT ECSU
Period *Obligations*
08/15/1995-08/14/1996 FY95: \$440,000 TOTAL: \$440,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L HAYDEN GSFC/J BENNETT 22-Computer Science

NAG 1-956 North Carolina A&T State University 6577
A SPACE TECHNOLOGY DEVELOPMENT AND UTILIZATION
PROGRAM
Period *Obligations*
01/13/1989-09/30/1996 FY95: \$1,132,275 TOTAL: \$5,632,624
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L SHAPPE LARC/S E MASSENBERG 99-Multi-Discip
A HOMAIFAR LARC/E J PRIOR
A CHOWDHURY

NAG 8-996 Fayetteville State University 6570
JOVE
Period *Obligations*
11/19/1993-05/31/1996 FY95: \$18,115 TOTAL: \$56,994
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J WU MSFC/F SIX 13-Physics

NAG 1-997 North Carolina A&T State University 6578
DYNAMIC ANALYSIS OF THE JOINT DOMINATED BEAM
Period *Obligations*
05/03/1989-08/31/1995 FY95: \$15,000 TOTAL: \$169,172
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E G ABU-SABA LARC/R C MONTGOMERY 42-Astro Engr
W M MCGINLEY LARC/J P WILLIAMS

NAGW 3083 Fayetteville State University 6571
TIMS A MODEL FOR PRE-SERVICE AND IN-SERVICE TEACHER
TRAINING MIDDLE SCHOOL LEVEL
Period *Obligations*
05/15/1992-06/30/1996 FY95: \$34,166 TOTAL: \$117,016
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L EDWARDS HQ/D GALLAWAY 21-Mathematics

NAG 1-1454 North Carolina A&T State University 6579
DEVELOPMENT OF PREDICTIVE MODELS USING REMOTELY SENSED
DATA FOR SIMULATING DAMAGE POTENTIALS TO NA
Period *Obligations*
09/18/1992-06/30/1996 FY95: \$98,625 TOTAL: \$353,457
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G A UZOCHUKWU LARC/R L YANG 39-Env Sci, NEC
E U NZEWI GSFC/E LEVINE
G A GAYLE

NGT 00-090-040 Fayetteville State University 6572
MINORITY SCIENCE ENGINEERING PROGRAM
Period *Obligations*
08/30/1991-08/31/1996 FY95: \$120,000 TOTAL: \$284,039
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L EDWARDS HQ/B WHITE 49-Engr, NEC

**NASA'S UNIVERSITY PROGRAM
NORTH CAROLINA (Continued)**

NAG 1-1604 North Carolina A&T State University 6580
 ASSESSMENT OF LARGE DEFORMATION IN MULTIPLE DELAMINATED COMPOSITE LAMINATES SUBJECTED TO A TRANSVERS

<i>Period</i>	<i>Obligations</i>	
02/01/1994-10/31/1995	FY95: \$100,000	TOTAL: \$154,806
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K N SHIVAKUMAR	LARC/C C POE JR.	47-Materials Engr
V S AVVA	LARC/W C JACKSON	
R L SADLER		

NAG 1-1754 North Carolina A&T State University 6581
 THREE-DIMENSIONAL GEOMETRIC NONLINEAR CONTACT STRESS ANALYSIS OF A TWO-RIVET LAP JOINT

<i>Period</i>	<i>Obligations</i>	
09/18/1995-09/17/1996	FY95: \$44,894	TOTAL: \$44,894
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K N SHIVAKUMAR	LARC/J C NEWMAN JR.	46-Mech Engr
	LARC/I S RAJU	

NAG 3-976 North Carolina A&T State University 6582
 MATERIALS STUDIES FOR SOLAR CELL STRUCTURES

<i>Period</i>	<i>Obligations</i>	
01/26/1989-12/31/1994	FY95:	TOTAL: \$356,250
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W COLLY	LERC/I WEINBERG	45-Elec Engr
A A-FADR	LERC/D J FLOOD	
I SHANTI		

NAG 3-1432 North Carolina A&T State University 6583
 GRAPHITE FIBER TEXTILE PREFORM/COPPER MATRIX COMPOSITE

<i>Period</i>	<i>Obligations</i>	
12/30/1992-12/31/1995	FY95: \$164,145	TOTAL: \$474,002
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G J FILATOVS	LERC/R V MINER	47-Materials Engr
R L SADLER		

NAG 3-1452 North Carolina A&T State University 6584
 DEVELOPMENT OF PROCESSING, FABRICATION AND EVALUATION OF GRAPHITE FIBER-REINFORCED POLYIMIDE TUBES

<i>Period</i>	<i>Obligations</i>	
02/08/1993-02/07/1996	FY95: \$131,364	TOTAL: \$384,532
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
V S AVVA	LERC/R D VANNUCCI	46-Mech Engr
R L SADLER		

NAG 3-1734 North Carolina A&T State University 6585
 COMPUTATIONAL ASSESSMENT OF FAN BY-PASS SYSTEM DESIGN ADVANCED DUCT PROPULSORS

<i>Period</i>	<i>Obligations</i>	
04/01/1995-09/30/1995	FY95: \$47,264	TOTAL: \$47,264
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S CHANDRA	LERC/K J KACYNSKI	41-Aero Engr
F FERGUSON		
R KRISHNAMURTHY		

NAG 8-1142 North Carolina A&T State University 6586
 ROCKET ENGINE STUDY

<i>Period</i>	<i>Obligations</i>	
05/15/1995-05/14/1996	FY95: \$69,729	TOTAL: \$69,729
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K JONES	MSFC/J RUF	49-Engr. NEC

NAGW 2924 North Carolina A&T State University 6587
 THE CENTER FOR AEROSPACE RESEARCH

<i>Period</i>	<i>Obligations</i>	
02/28/1992-12/31/1996	FY95: \$1,360,910	TOTAL: \$5,035,186
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J C KELLY JR.	HQ/S E MASSENBERG	99-Multi-Discip
	HQ/S HARTMAN	

NAS 1-19157 North Carolina A&T State University 6588
 EXPERIMENTAL, DEVELOPMENTAL AND BASIC AND APPLIED RESEARCH

<i>Period</i>	<i>Obligations</i>	
08/03/1990-08/01/1996	FY95:	TOTAL: \$4,438,864
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L SHARPE	LARC/S E MASSENBERG	99-Multi-Discip
	LARC/E J PRIOR	

NCC 4-100 North Carolina A&T State University 6589
 A PRELIMINARY INVESTIGATION OF A PREVIEW CONTROLLER

<i>Period</i>	<i>Obligations</i>	
07/15/1995-12/31/1995	FY95: \$8,975	TOTAL: \$8,975
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A HOMAIFAR	DFRC/R K BOGUE	41-Aero Engr

NGT 00-090-083 North Carolina A&T State University 6590
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)

<i>Period</i>	<i>Obligations</i>	
09/26/1992-08/14/1996	FY95: \$24,000	TOTAL: \$48,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L SHARPE	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-090-084 North Carolina A&T State University 6591
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)

<i>Period</i>	<i>Obligations</i>	
09/26/1992-08/14/1996	FY95: \$24,000	TOTAL: \$48,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L SHARPE	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-090-085 North Carolina A&T State University 6592
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/12/1992-08/14/1996	FY95: \$132,000	TOTAL: \$156,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L SHARPE	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-090-086 North Carolina A&T State University 6593
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/12/1992-08/14/1996	FY95: \$24,000	TOTAL: \$48,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L SHARPE	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-090-087 North Carolina A&T State University 6594
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)

<i>Period</i>	<i>Obligations</i>	
09/12/1992-08/14/1996	FY95: \$24,000	TOTAL: \$48,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L SHARPE	HQ/D K RUSSELL	99-Multi-Discip

NGT 00-090-088 North Carolina A&T State University 6595
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)

<i>Period</i>	<i>Obligations</i>	
09/12/1992-08/14/1996	FY95: \$24,000	TOTAL: \$48,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L SHARPE	HQ/D K RUSSELL	99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
NORTH CAROLINA (Continued)**

NGT 00-090-256 North Carolina A&T State University 6596
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)

<i>Period</i>	<i>Obligations</i>	
01/11/1995-08/14/1996	FY95: \$24,000	TOTAL: \$24,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L SHARPE	HQ/D K RUSSELL	45-Elec Engr

NGT 1-52119 North Carolina A&T State University 6597
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP) URMANDD FOCUS

<i>Period</i>	<i>Obligations</i>	
06/29/1995-06/30/1996	FY95: \$22,000	TOTAL: \$22,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M A WALDEN	LARC/J JUANG	42-Astro Engr

NGT 2-52201 North Carolina A&T State University 6598
RONALD E MCNAIR GRADUATE RESEARCH FELLOWSHIP PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/14/1995-08/14/1996	FY95: \$323,500	TOTAL: \$323,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H L MARTIN	ARC/A J HATCH	49-Engr, NEC

NAG 1-244 North Carolina State Univ. - Raleigh 6599
NUMERICAL SOLUTIONS OF THE COMPLETE NAVIER - STOKES EQUATIONS

<i>Period</i>	<i>Obligations</i>	
12/04/1981-09/30/1995	FY95: \$77,791	TOTAL: \$733,425
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H A HASSAN	LARC/J E HARRIS	41-Aero Engr
E GANTT	LARC/D H RUDY	
R W WALTERS		

NAG 1-983 North Carolina State Univ. - Raleigh 6600
MULTIVERSION SOFTWARE RELIABILITY THROUGH FAULT AVOIDANCE AND FAULT-TOLERANCE

<i>Period</i>	<i>Obligations</i>	
03/01/1989-06/30/1996	FY95: \$60,000	TOTAL: \$437,670
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M A VOUK	LARC/D E ECKHARDT	22-Computer Science
D F MCALLISTER		

NAG 1-1212 North Carolina State Univ. - Raleigh 6601
GEOMETRIC MODELLING OF TEXTILE REINFORCEMENT FOR STRUCTURAL ANALYSIS

<i>Period</i>	<i>Obligations</i>	
02/01/1991-12/31/1994	FY95:	TOTAL: \$233,261
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C M PASTORE	LARC/C C POE	47-Materials Engr
	LARC/C E HARRIS	

NAG 1-1214 North Carolina State Univ. - Raleigh 6602
ANALYSIS OF DETECTORS FOR THE INTERPLANETARY DUST EXPERIMENT (LDEF AO201)

<i>Period</i>	<i>Obligations</i>	
01/28/1991-03/31/1995	FY95:	TOTAL: \$258,438
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D P GRIFFIS	LARC/L A TEICHMAN	47-Materials Engr
J J WORTMAN		

NAG 1-1283 North Carolina State Univ. - Raleigh 6603
TELEROBOTIC CONTROL OF A MOBILE COORDINATED ROBOTIC SERVICER

<i>Period</i>	<i>Obligations</i>	
05/24/1991-08/31/1995	FY95:	TOTAL: \$231,901
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G K LEE	LARC/J JUANG	42-Astro Engr
	LARC/L HORTA	

NAG 1-1340 North Carolina State Univ. - Raleigh 6604
TIME ACCURATE COMPUTATION OF UNSTEADY SPIKE TIPPED BODY FLOWS WITH A DYNAMIC FLOW ADAPTIVE MESH

<i>Period</i>	<i>Obligations</i>	
08/28/1991-11/15/1994	FY95:	TOTAL: \$74,819
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D S MCRAE	LARC/R E SMITH	41-Aero Engr
	LARC/J J LAMBIOTTE	

NAG 1-1436 North Carolina State Univ. - Raleigh 6605
COMPUTATIONAL CONTROL OF FLEXIBLE AEROSPACE SYSTEMS

<i>Period</i>	<i>Obligations</i>	
05/12/1992-12/31/1995	FY95:	TOTAL: \$226,624
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L SHARPE	LARC/L W TAYLOR	42-Astro Engr

NAG 1-1600 North Carolina State Univ. - Raleigh 6606
COMPUTATION OF FEEDBACK GAINS AND COMPENSATORS IN A NOISE SUPPRESSION CONTROL SYSTEM

<i>Period</i>	<i>Obligations</i>	
03/25/1994-03/29/1996	FY95: \$50,065	TOTAL: \$100,436
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H T BANKS	LARC/R J SILCOX	41-Aero Engr
R C SMITH	LARC/H C LESTER	

NAG 1-1663 North Carolina State Univ. - Raleigh 6607
REDUCTION AND ANALYSIS OF MARS-PATHFINDER HEAT TRANSFER DATA NLPN 94-1104

<i>Period</i>	<i>Obligations</i>	
12/12/1994-06/30/1996	FY95: \$42,588	TOTAL: \$42,588
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J PERKINS	LARC/C G MILLER	41-Aero Engr

NAG 1-1733 North Carolina State Univ. - Raleigh 6608
DURABILITY, PERFORMANCE, AND EMISSIONS OF DIESEL ENGINES USING CARBON FIBER PISTON AND LINER

<i>Period</i>	<i>Obligations</i>	
06/15/1995-01/14/1996	FY95: \$30,547	TOTAL: \$30,547
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E M AFIFY	LARC/G B NORTHAM	47-Materials Engr
W L ROBERTS	LARC/K RIVERS	

NAG 2-684 North Carolina State Univ. - Raleigh 6609
HETEROGENEOUS PHOTOCATALYTIC OXIDATION OF ATMOSPHERIC TRACE CONTAMINANTS

<i>Period</i>	<i>Obligations</i>	
11/16/1990-03/31/1996	FY95: \$63,163	TOTAL: \$250,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D F OLLIS	ARC/J E FINN	43-Chem Engr
	ARC/W E BERRY	

**NASA'S UNIVERSITY PROGRAM
NORTH CAROLINA (Continued)**

NAG 5-1790 North Carolina State Univ. - Raleigh 6610
MESO-BETA SCALE NUMERICAL SIMULATION STUDIES OF TERROR-INDUCED JET STREAK MASS/MOMENTUM PERTURBATION
Period *Obligations*
11/01/1991-11/14/1994 FY95: TOTAL: \$255,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
Y L LIN GSFC/S E KOCH 31-Atmos Sci
M L KAPLAN

NAG 5-2212 North Carolina State Univ. - Raleigh 6611
1) SEARCH FOR X-RAY EMISSION FROM HIGH LATITUDE SUPERNOVA REMNANT DA 530 2) ELECTRON HEATING. . . .
Period *Obligations*
02/18/1993-05/31/1995 FY95: TOTAL: \$28,864
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S P REYNOLDS GSFC/R PETRE 11-Astronomy

NAG 5-2254 North Carolina State Univ. - Raleigh 6612
THE PHYSICAL FOUNDATIONS OF PARTICLE ACCELERATION BY COLLISIONLESS SHOCKS IN SPACE
Period *Obligations*
04/27/1993-04/30/1996 FY95: \$124,000 TOTAL: \$327,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D C ELLISON GSFC/T J BIRMINGHAM 13-Physics
GSFC/J D BOHLIN

NAG 5-2580 North Carolina State Univ. - Raleigh 6613
MASSIVE X-RAY BINARIES: TESTING THE CURRENT PARADIGM
Period *Obligations*
04/21/1994-04/30/1995 FY95: TOTAL: \$10,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J BLENDIN GSFC/N WHITE 13-Physics

NAG 5-2589 North Carolina State Univ. - Raleigh 6614
OBSERVATIONAL AND NUMERICAL STUDIES OF EXTREME FLOW SCALE CONTRACTION
Period *Obligations*
05/10/1994-08/31/1995 FY95: TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S E KOCH GSFC/R F ADLER 31-Atmos Sci

NAG 5-2844 North Carolina State Univ. - Raleigh 6615
X-RAY EMISSION AND DYNAMICS OF SUPERNOVA REMNANTS
Period *Obligations*
12/14/1994-12/14/1995 FY95: \$125,000 TOTAL: \$125,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S P REYNOLDS GSFC/D WEST 11-Astronomy

NAG 5-2972 North Carolina State Univ. - Raleigh 6616
THE RADIO-BRIGHT GALACTIC SUPERNOVA REMNANT G41.1-0.3(3C 397)
Period *Obligations*
06/13/1995-12/14/1996 FY95: \$17,865 TOTAL: \$17,865
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S REYNOLDS GSFC/N WHITE 11-Astronomy

NAGW 1072 North Carolina State Univ. - Raleigh 6617
RESEARCH IN HYPERSONIC AERODYNAMICS
Period *Obligations*
04/15/1987-06/30/1994 FY95: TOTAL: \$1,000,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R DEJARNETTE HQ/S M WANDER 19-Phys Sci, NEC
F D HART HQ/R A GRAVES

NAGW 1331 North Carolina State Univ. - Raleigh 6618
SPACE ENGINEERING RESEARCH CENTER
Period *Obligations*
07/12/1988-01/31/1996 FY95: \$395,024 TOTAL: \$11,337,464
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F R DEJARNETTE HQ/S M WANDER 49-Engr, NEC

NAGW 2865 North Carolina State Univ. - Raleigh 6619
THE CONTROL OF THE PURITY AND STOICHIOMETRY OF COMBUSTION SEMI BY HIGH PRESSURE VAPOR TRANSPORT
Period *Obligations*
01/31/1992-08/14/1995 FY95: TOTAL: \$499,810
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K J BACHMANN HQ/J K ALEXANDER 47-Materials Engr
HQ/D A HOLLAND

NAGW 3120 North Carolina State Univ. - Raleigh 6620
NAGW-3120/NORTH CAROLINA STATE UNIV/STATISTICAL ANALYSIS OF ATMOSPHERE DATA
Period *Obligations*
06/26/1992-06/30/1994 FY95: TOTAL: \$77,808
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P BLOOMFIELD HQ/J A KAYE 31-Atmos Sci
HQ/R E MURPHY

NAGW 3575 North Carolina State Univ. - Raleigh 6621
INFLUENCE OF VERTICAL MIXING ON THE SEA WIFS ALGORITHMS
Period *Obligations*
05/26/1993-03/31/1996 FY95: \$130,000 TOTAL: \$180,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D KAMYKOWSKI HQ/D E WICKLAND 33-Oceanography
HQ/A C JANETOS

NAGW 3658 North Carolina State Univ. - Raleigh 6622
HYDRODYNAMIC FLOWS IN X-RAY BINARIES
Period *Obligations*
06/15/1993-09/30/1995 FY95: TOTAL: \$32,215
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M BLONDIN HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAS 1-18944 North Carolina State Univ. - Raleigh 6623
SAGE III SCIENCE INVESTIGATION SUPPORT; P.I. PROFESSOR SAXENA
Period *Obligations*
10/06/1989-01/31/2005 FY95: \$75,000 TOTAL: \$126,637
Prin. Invest. *NASA Tech. Officer* *CASE Category*
V SAXENA LARC/G MADDREA 19-Phys Sci, NEC

NCA 2-719 North Carolina State Univ. - Raleigh 6624
NUMERICAL SIMULATION OF SUPERSONIC AND HYPERSONIC INLET FLOW FIELD
Period *Obligations*
05/21/1992-08/31/1994 FY95: TOTAL: \$76,961
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D S MCRAE ARC/T EDWARDS 21-Mathematics

NCC 1-22 North Carolina State Univ. - Raleigh 6625
COMPUTATIONAL FLUID MECHANICS
Period *Obligations*
06/15/1979-09/14/1994 FY95: TOTAL: \$1,374,170
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H A HASSAN LARC/J E HARRIS 41-Aero Engr
F R DEJARNETTE LARC/J D KELLER

**NASA'S UNIVERSITY PROGRAM
NORTH CAROLINA (Continued)**

NCC 1-100 North Carolina State Univ. - Raleigh 6626
 APPROX. NUMERICAL METHODS FOR CALCULATING
 NONEQUILIBRIUM VISCOUS FLOW FIELDS AND AERODYNAMIC HEAT
 ETC.
Period *Obligations*
 07/16/1985-11/30/1994 FY95: TOTAL: \$404,053
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F R DEJARNETTE LARC/E V ZOBY 41-Aero Engr

NCC 1-112 North Carolina State Univ. - Raleigh 6627
 STUDY OF THE TRANSITIONAL FLOW REGIME USING THE MONTE
 CARLO METHODS
Period *Obligations*
 03/10/1987-03/14/1996 FY95: \$129,584 TOTAL: \$1,220,584
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H A HASSAN LARC/K SUTTON 41-Aero Engr
 LARC/J N MOSS

NCC 1-140 North Carolina State Univ. - Raleigh 6628
 STUDY OF NUMERICAL AND PHYSICAL ISSUES ASSOCIATED WITH
 CONTINUUM HYPERVELOCITY RE-ENTRY FLOWS
Period *Obligations*
 01/31/1990-09/30/1994 FY95: TOTAL: \$176,451
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G V CANDLER LARC/K SUTTON 41-Aero Engr
 LARC/P A GNOFFO

NCC 1-141 North Carolina State Univ. - Raleigh 6629
 DEVELOPMENT OF MODEL SYSTEMS DYNAMICS MEASUREMENTS
 AND MONITORING SYSTEM FOR NATIONAL TRANSONIC FAC.
Period *Obligations*
 04/17/1990-05/15/1995 FY95: TOTAL: \$465,541
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F R DEJARNETTE LARC/J S HILL 41-Aero Engr
 LARC/D E FULLER

NCC 1-154 North Carolina State Univ. - Raleigh 6630
 TRANSPORT HIGH-LIFT FLIGHT RESEARCH
Period *Obligations*
 05/15/1991-08/14/1995 FY95: TOTAL: \$115,935
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J N PERKINS LARC/L P YIP 41-Aero Engr
 J HARDING

NCC 1-162 North Carolina State Univ. - Raleigh 6631
 AN EXPERIMENTAL INVESTIGATION OF SUCTION BOUNDARY LAYER
 CONTROL ON LEADING EDGE FLAPS
Period *Obligations*
 02/28/1992-02/20/1996 FY95: TOTAL: \$109,204
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J N PERKINS LARC/P L COE 41-Aero Engr

NCC 1-169 North Carolina State Univ. - Raleigh 6632
 SEMI-SPAN MODEL TESTING IN THE NATIONAL TRANSONIC
 FACILITY - A NUMERICAL STUDY
Period *Obligations*
 09/22/1992-10/31/1995 FY95: \$59,610 TOTAL: \$153,611
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N CHOKANI LARC/J A AL-SAADI 41-Aero Engr
 LARC/R A WAHLS

NCC 1-170 North Carolina State Univ. - Raleigh 6633
 AN EVALUATION OF RUSSIAN ANALYSES OF HIGH-TEMPERA- TURE
 NONEQUILIBRIUM GAS FLOWS
Period *Obligations*
 02/03/1993-05/30/1995 FY95: TOTAL: \$95,079
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G D WALBERG LARC/P A GNOFFO 41-Aero Engr

NCC 1-183 North Carolina State Univ. - Raleigh 6634
 AN EXPERIMENTAL STUDY OF HIGH SPEED CONE BOUNDARY
 LAYER STABILITY AND TRANSITION NLPN 93-514
Period *Obligations*
 07/21/1993-01/31/1996 FY95: \$36,197 TOTAL: \$93,091
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N CHEKANI LARC/S P WILKINSON 41-Aero Engr
 J J LACHOWICZ

NCC 1-185 North Carolina State Univ. - Raleigh 6635
 SYSTEMS ANALYSIS AND TECHNOLOGY APPLICATIONS FOR
 AEROSPACE VEHICLES
Period *Obligations*
 08/10/1993-08/14/1995 FY95: TOTAL: \$69,334
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G D WALBERG LARC/H W STONE 42-Astro Engr
 J R OLDS LARC/L F ROWELL

NCC 1-188 North Carolina State Univ. - Raleigh 6636
 NUMERICAL MODELING STUDIES OF WAKE VORTEX TRANSPOR T
 AND EVOLUTION WITHIN THE PLANETARY BOUNDARY LAY
Period *Obligations*
 01/11/1994-01/06/1996 FY95: \$224,766 TOTAL: \$364,766
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 Y L LIN LARC/F H PROCTOR 31-Atmos Sci
 S P ARYA LARC/D A HINTON
 M L KAPLAN

NCC 1-201 North Carolina State Univ. - Raleigh 6637
 OPTIMIZATION TECHNIQUES AND APPLICATIONS TO ADVANC ED
 AEROSPACE VEHICLE DESIGN
Period *Obligations*
 10/13/1994-08/31/1995 FY95: \$41,801 TOTAL: \$41,801
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J R OLDS LARC/L F ROWELL 42-Astro Engr
 LARC/R W POWELL

NGT 00-010-030 North Carolina State Univ. - Raleigh 6638
 UNIVERSITY SPACE ENGINEERING RESEARCH CENTER GRADUATE
 RESEARCH ASSISTANTSHIPS
Period *Obligations*
 12/09/1994-09/30/1997 FY95: \$313,483 TOTAL: \$313,483
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F R DEJARNETTE HQ/V BITTINGER 49-Engr, NEC

NGT 00-030-117 North Carolina State Univ. - Raleigh 6639
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 11/02/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C C SPAUR HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

**NASA'S UNIVERSITY PROGRAM
NORTH CAROLINA (Continued)**

NGT 00-030-328 North Carolina State Univ. - Raleigh 6640
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/11/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 S KHORRAM HQ/A C JANETOS 99-Multi-Discip
 HQ/G ASRAR

NGT 00-090-225 North Carolina State Univ. - Raleigh 6648
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
 09/17/1993-08/14/1996 FY95: \$12,000 TOTAL: \$34,032
Prin. Invest. NASA Tech. Officer CASE Category
 W COLEMAN HQ/D K RUSSELL 99-Multi-Discip

NGT 00-040-031 North Carolina State Univ. - Raleigh 6641
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
 03/22/1991-02/28/1996 FY95: \$205,000 TOTAL: \$935,000
Prin. Invest. NASA Tech. Officer CASE Category
 G N WALBERG HQ/L KEFFER 99-Multi-Discip

NGT 00-090-270 North Carolina State Univ. - Raleigh 6649
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 01/13/1995-08/14/1996 FY95: \$72,000 TOTAL: \$72,000
Prin. Invest. NASA Tech. Officer CASE Category
 W COLEMAN HQ/D K RUSSELL 44-Civil Engr

NGT 00-051-189 North Carolina State Univ. - Raleigh 6642
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/29/1993-08/15/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D S MCRAE LARC/L EVANS 41-Aero Engr

NAGW 4222 Pembroke State University 6650
**MATHEMATICS, SCIENCE AND TECHNOLOGY AWARDS FOR
TEACHERS AND CURRICULUM ENHANCEMENT PROGRAM**
Period Obligations
 12/22/1994-11/30/1997 FY95: \$199,007 TOTAL: \$199,007
Prin. Invest. NASA Tech. Officer CASE Category
 G L SAMPSON HQ/D RUSSELL 99-Multi-Discip
 J D D'ARRUDA

NGT 00-051-248 North Carolina State Univ. - Raleigh 6643
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 F YUAN LARC/L EVANS 41-Aero Engr

NGT 00-090-136 Pembroke State University 6651
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 11/02/1992-08/14/1994 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 A LOCKLEAR HQ/D K RUSSELL 99-Multi-Discip

NGT 00-070-236 North Carolina State Univ. - Raleigh 6644
**NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM**
Period Obligations
 09/17/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G LUCOUSKY LERC/F MONTEGANI 13-Physics

NGT 00-090-269 Pembroke State University 6652
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 01/13/1995-08/14/1996 FY95: \$48,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 D BASKET HQ/D K RUSSELL 55-Agriculture Sci

NGT 00-070-344 North Carolina State Univ. - Raleigh 6645
**NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM**
Period Obligations
 07/14/1993-08/14/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W ALEXANDER HQ/D K RUSSELL 45-Elec Engr

NAGW 4617 Shaw University 6653
**SHAW UNIVERSITY MATHEMATICS, SCIENCE AND TECHNOLOGY
AWARDS FOR TEACHER AND CURRICULUM ENHANCEMENT**
Period Obligations
 07/11/1995-06/30/1996 FY95: \$200,000 TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
 J H KEYS HQ/B L WHITE 99-Multi-Discip

NGT 00-070-402 North Carolina State Univ. - Raleigh 6646
**NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM**
Period Obligations
 09/29/1994-07/31/1997 FY95: \$44,000 TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 W E ALEXANDER HQ/D K RUSSELL 45-Elec Engr
 D AGRAWAL

NGT 00-090-041 Shaw University 6654
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 08/22/1991-08/31/1995 FY95: \$24,000 TOTAL: \$133,871
Prin. Invest. NASA Tech. Officer CASE Category
 M CLAYTON HQ/B WHITE 49-Engr, NEC

NGT 00-090-126 North Carolina State Univ. - Raleigh 6647
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM/UMF
Period Obligations
 10/29/1992-08/14/1996 FY95: \$12,000 TOTAL: \$45,032
Prin. Invest. NASA Tech. Officer CASE Category
 R TURNER HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-257 Shaw University 6655
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 02/03/1995-08/14/1996 FY95: \$84,000 TOTAL: \$84,000
Prin. Invest. NASA Tech. Officer CASE Category
 L CLAYTON HQ/D K RUSSELL 59-Life Sci, NEC

**NASA'S UNIVERSITY PROGRAM
NORTH CAROLINA (Continued)**

NAG 5-2518 University of North Carolina - Ashville 6656
STUDIES OF HIGH ENERGY PULSARS WITH EGRET

<i>Period</i>	<i>Obligations</i>	
02/16/1994-02/29/1996	FY95: \$14,944	TOTAL: \$54,826
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J K DAUGHERTY	GSFC/J P NORRIS	11-Astronomy
D J THOMPSON	GSFC/N WHITE	

NAGW 2934 University of North Carolina - Chapel Hill 6664
THE ASTROPHYSICS OF HYDRODYNAMICS FLOWS IN COMPACT INTERACTING BINARIES

<i>Period</i>	<i>Obligations</i>	
02/27/1992-12/31/1995	FY95: \$9,000	TOTAL: \$57,785
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J M BLONDIN	HQ/L J KALUZIENSKI	11-Astronomy
C EVANS	HQ/A N BUNNER	

NAG 5-2116 University of North Carolina - Chapel Hill 6657
CHROMOSPHERIC ACTIVITY IN THE SUBGIANT BRANCH

<i>Period</i>	<i>Obligations</i>	
10/08/1992-03/31/1995	FY95:	TOTAL: \$13,999
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S C BALACHANDRAN	GSFC/D WEST	11-Astronomy

NAGW 3681 University of North Carolina - Chapel Hill 6665
CONTROLS ON FLUXES AND ISOTOPIC COMPOSITION OF BIOGENIC GASES FROM WETLANDS, RIVERS AND FLOODED FOR

<i>Period</i>	<i>Obligations</i>	
07/23/1993-04/30/1996	FY95: \$159,661	TOTAL: \$379,661
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C S MARTENS	HQ/D E WICKLAND	39-Env Sci, NEC
W USSLER III	HQ/A C JANETOS	

NAG 5-2347 University of North Carolina - Chapel Hill 6658
ENTRAINED GAS IN THE SPATIALLY RESOLVED BRAIDED JE TS OF THE NEARBY GALAXY NGC 4258

<i>Period</i>	<i>Obligations</i>	
08/10/1993-08/14/1994	FY95:	TOTAL: \$25,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G N CECIL	GSFC/R PETRE	11-Astronomy

NAGW 3881 University of North Carolina - Chapel Hill 6666
NAGW-3881/B UNIV NORTH CAROLINA 'LAB. STUDIES OF NITRIC ACID HYDRATE AEROSOLS: FORMATION AND CHAR.'

<i>Period</i>	<i>Obligations</i>	
03/04/1994-03/31/1996	FY95: \$85,000	TOTAL: \$188,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R E MILLER	HQ/M J KURYLO	31-Atmos Sci
	HQ/A C JANETOS	

NAG 5-2543 University of North Carolina - Chapel Hill 6659
EVOLUTION OF SUBSTRUCTURE IN NEARBY CLUSTERS OF GALAXIES

<i>Period</i>	<i>Obligations</i>	
03/03/1994-03/14/1996	FY95:	TOTAL: \$15,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A ROSE	GSFC/R PETRE	11-Astronomy

NAGW 3946 University of North Carolina - Chapel Hill 6667
BIOCHEMICAL CHANGES OF BONE IN A MODEL OF WEIGHT LESSENESS

<i>Period</i>	<i>Obligations</i>	
04/20/1994-04/30/1996	FY95: \$134,000	TOTAL: \$268,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M YAMAUCHI	HQ/F M SULZMAN	51-Biological Sci

NAG 5-2860 University of North Carolina - Chapel Hill 6660
THE THREE DIMENSIONAL MASS DISTRIBUTIONS IN ELLIPTICAL GALAXIES

<i>Period</i>	<i>Obligations</i>	
12/14/1994-12/14/1995	FY95: \$54,000	TOTAL: \$54,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T S STATLER	GSFC/D WEST	11-Astronomy

NAG10-144 University of North Carolina - Chapel Hill 6668
PLANT RESEARCH STATUS AND PROSPECTIVE

<i>Period</i>	<i>Obligations</i>	
08/29/1994-08/31/1996	FY95: \$375,825	TOTAL: \$581,138
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T SCOTT	KSC/W M KNOTT	59-Life Sci, NEC

NAG 8-1148 University of North Carolina - Chapel Hill 6661
EVALUATION OF CRYSTAL GROWTH

<i>Period</i>	<i>Obligations</i>	
08/03/1995-08/02/1996	FY95: \$247,409	TOTAL: \$247,409
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C W CANTIN	MSFC/D NOEJEN	99-Multi-Discip

NGT 00-051-288 University of North Carolina - Chapel Hill 6669
GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
06/28/1994-06/30/1997	FY95: \$11,000	TOTAL: \$33,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R E MILLER	HQ/D HOLLAND	12-Chemistry

NAGW 1455 University of North Carolina - Chapel Hill 6662
RADON TRACING OF BIOGENIC GAS FLUXES FROM COASTAL WETLANDS

<i>Period</i>	<i>Obligations</i>	
09/08/1988-12/31/1994	FY95:	TOTAL: \$826,643
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C S MARTENS	HQ/D E WICKLAND	39-Env Sci, NEC

NAG 1-1414 University of North Carolina, Charlotte 6670
DYNAMICS AND CONTROL OF FLEXIBLE MULTI-BODY SPACE SYSTEMS

<i>Period</i>	<i>Obligations</i>	
03/20/1992-09/19/1994	FY95:	TOTAL: \$97,192
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Y P KAKAD	LARC/E S ARMSTRONG	42-Astro Engr
	LARC/S M JOSHI	

NAGW 1576 University of North Carolina - Chapel Hill 6663
INFRARED SPECTROSCOPY OF NEUTRAL AND IONIC WATER COMPLEXES

<i>Period</i>	<i>Obligations</i>	
12/21/1988-11/30/1996	FY95: \$87,017	TOTAL: \$367,943
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R E MILLER	HQ/J T BERGSTRALH	11-Astronomy

NAG 5-2038 University of North Carolina, Charlotte 6671
DESIGN AND SIMULATION OF EVA TOOLS FOR FIRST SERVING MISSION OF HST

<i>Period</i>	<i>Obligations</i>	
07/15/1992-07/14/1995	FY95:	TOTAL: \$150,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P H DEHOFF	GSFC/M S JASTER	46-Mech Engr
D NAIK	GSFC/P W RICHARDS	

**NASA'S UNIVERSITY PROGRAM
NORTH CAROLINA (Continued)**

NAGW 4052 Wake Forest University 6672
THE ROLE OF THE ACTIN CYTOSKELETON IN AUXIN TRANSPORT AND GRAVITROPISMS
Period *Obligations*
06/30/1994-03/31/1997 FY95: \$79,994 TOTAL: \$151,859
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G MUDAY HQ/T W HALSTEAD 51-Biological Sci

NAGW 4629 North Dakota State University 6679
EPSCOR RELATED WORK IN SPACE MATERIALS
Period *Obligations*
08/02/1995-05/31/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P BOUDJOUK HQ/A S MCGEE 47-Materials Engr
HQ/E T SCHWARTZ

NCC 1-55 Wake Forest University 6673
QUANTUM CHEMICAL STUDY OF METHANE OXIDATION SPECIES
Period *Obligations*
06/04/1981-12/31/1993 FY95: TOTAL: \$361,997
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C F JACKELS LARC/D H PHILLIPS 12-Chemistry
LARC/R S ROGOWSKI

NCC 2-5157 North Dakota State University 6680
EXTRAVASCULAR AORTIC PRESSURE AND FLOW INSTRUMENT
Period *Obligations*
09/11/1995-09/14/1996 FY95: \$39,930 TOTAL: \$39,930
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D EWERT ARC/J W HINES 45-Elec Engr

NAG 8-1099 Western Carolina University 6674
JOVE
Period *Obligations*
10/18/1994-05/31/1996 FY95: \$59,000 TOTAL: \$59,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F LEE MSFC/F SIX 29-Math/Computer, NEC
E J JONES

NAGW 3620 Turtle Mountain Community College 6681
RECRUITMENT AND RETENTION OF INDIANS IN SCIENCE AND ENGINEERING
Period *Obligations*
05/28/1993-05/31/1996 FY95: TOTAL: \$51,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S KARNAWAT HQ/B WHITE 99-Multi-Discip

NGT 00-090-050 Winston-Salem State University 6675
UNDERGRADUATE STUDENT RESEARCHERS PRG
Period *Obligations*
08/22/1991-08/31/1996 FY95: \$30,000 TOTAL: \$87,693
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W ATKINSON HQ/D RUSSELL 99-Multi-Discip

NAG 1-1351 University of North Dakota 6682
IN SITU MEASUREMENTS IN SUPPORT OF THE FIRE CIRRHUS INTENSIVE FIELD OBSERVATIONS - II
Period *Obligations*
10/21/1991-03/31/1995 FY95: TOTAL: \$226,826
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M R POELLOT LARC/D S MCDUGAL 31-Atmos Sci
LARC/T L OWENS

NORTH DAKOTA

NAG 1-1706 University of North Dakota 6683
ANALYSIS OF CIRRHUS CLOUD MICROPHYSICAL DATE AND ANVIL CIRRHUS OBSERVATIONS
Period *Obligations*
04/17/1995-04/30/1996 FY95: \$41,000 TOTAL: \$41,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M R POELLOT LARC/D S MCDUGAL 31-Atmos Sci

NAG 3-1312 North Dakota State University 6676
STUDIES IN ACCELERATED CONVERGENCE
Period *Obligations*
12/23/1991-06/30/1995 FY95: \$6,767 TOTAL: \$184,674
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D K COPE LERC/W F FORD 21-Mathematics
Y XU LERC/J A PENNLINE

NAG 5-2696 University of North Dakota 6684
BRINGING VOLCANO REMOTE SENSING DATA TO CLASSROOMS NATIONAL PARKS AND MONUMENTS
Period *Obligations*
08/17/1994-12/31/1995 FY95: \$193,228 TOTAL: \$287,228
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C A WOOD GSFC/F HASLER 39-Env Sci, NEC

NAG 3-1603 North Dakota State University 6677
NOISE AND DYNAMICAL PATTERN SELECTION IN SOLIDIFIC ATION
Period *Obligations*
10/14/1994-10/13/1996 FY95: \$77,582 TOTAL: \$77,582
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D A KURTZE LERC/A CHAIT 47-Materials Engr
LERC/V PINES

NAG 5-2699 University of North Dakota 6685
ANALYSIS OF IN SITU CONTRAIL MEASUREMENTS FROM FIRE CIRRHUS IFO-II
Period *Obligations*
08/24/1994-12/31/1995 FY95: \$26,799 TOTAL: \$31,219
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M POELLOT GSFC/R W STEWART 11-Astronomy

NAG 8-1007 North Dakota State University 6678
JOVE
Period *Obligations*
11/19/1993-05/31/1996 FY95: \$37,000 TOTAL: \$113,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P HAMMOND MSFC/F SIX 47-Materials Engr
D KURTZE
A UNGAR

NAGW 4524 University of North Dakota 6686
WHAT IS THE VALUE OF SPACE EXPLORATION? A PRAIRIE SYMPOSIUM
Period *Obligations*
05/26/1995-04/30/1996 FY95: \$41,028 TOTAL: \$41,028
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J I GABRYNOWICZ HQ/S BRODY 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
NORTH DAKOTA (Continued)**

NGT 00-040-043 University of North Dakota 6687
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
 05/24/1991-02/28/1995 FY95: \$170,000 TOTAL: \$833,000
Prin. Invest. NASA Tech. Officer CASE Category
 C A WOOD HQ/E T SCHWARTZ 98-Multi-Discip

NAG 3-406 Case Western Reserve University 6694
 CASE EARLY EXPOSURE TO ENGINEERING FOR MINORITY
 STUDENTS AND MINORITY ENGINEERS INDUSTRIAL MINORITY PR
Period Obligations
 03/07/1983-05/31/1995 FY95: \$1 TOTAL: \$186,116
Prin. Invest. NASA Tech. Officer CASE Category
 M E BOULDING LERC/R F LAWRENCE 49-Engr, NEC
 LERC/J A BIAGLOW

OHIO

NAG 3-1528 Baldwin - Wallace College 6688
 CHARACTERIZATION OF ION EXCHANGE POLYACRYLATE FILMS
 FOR ENVIRONMENTAL DECONTAMINATION
Period Obligations
 09/23/1993-09/23/1994 FY95: TOTAL: \$6,570
Prin. Invest. NASA Tech. Officer CASE Category
 J GROSE LERC/A F RATAJCZAK 47-Materials Engr

NAG 3-686 Case Western Reserve University 6695
 HEAT FLUX SENSOR CALIBRATION
Period Obligations
 12/19/1985-04/12/1994 FY95: TOTAL: \$484,756
Prin. Invest. NASA Tech. Officer CASE Category
 A DYBBS LERC/C H LIEBERT 46-Mech Engr

NAG 3-758 Case Western Reserve University 6696
 STRUCTURAL AND ELECTRICAL CHARACTERIZATION OF LATTIC
 DEFECTS IN B-SIC
Period Obligations
 11/14/1986-02/28/1995 FY95: TOTAL: \$695,224
Prin. Invest. NASA Tech. Officer CASE Category
 P PIROUZ LERC/J A POWELL 47-Materials Engr

NCC 3-268 Baldwin - Wallace College 6689
 CHARACTERIZATION OF ION EXCHANGE POLYACRYLATE FILM S
 FOR ENVIRONMENTAL DECONTAMINATION
Period Obligations
 08/02/1993-04/10/1995 FY95: TOTAL: \$30,864
Prin. Invest. NASA Tech. Officer CASE Category
 J GORSE LERC/K W STREET 12-Chemistry
 LERC/W H PHILIPP

NAG 3-795 Case Western Reserve University 6697
 INTERACTION OF MOLECULES AND PARTICLES BY ANALYSIS **OF
 COMPUTED TRAJECTORIES
Period Obligations
 04/20/1987-12/16/1995 FY95: TOTAL: \$428,545
Prin. Invest. NASA Tech. Officer CASE Category
 I GREBER LERC/D C FERGUSON 13-Physics
 H WACHMAN/C K
 PURVIS

NCC 3-300 Baldwin - Wallace College 6690
 STUDY OF THE PREPARATION AND CHEMISTRY OF NOVEL OXID E
 COATINGS
Period Obligations
 03/16/1983-09/21/1996 FY95: \$20,957 TOTAL: \$63,957
Prin. Invest. NASA Tech. Officer CASE Category
 J W MCCARGAR LERC/E G WINTUCKY 12-Chemistry

NAG 3-832 Case Western Reserve University 6698
 INVERS OF X-RAY TRANSF IN ANGULAR RANGE
Period Obligations
 11/03/1987-08/09/1994 FY95: TOTAL: \$196,312
Prin. Invest. NASA Tech. Officer CASE Category
 S H IZEN LERC/A J DECKER 21-Mathematics

NCC 3-315 Baldwin - Wallace College 6691
 COMBUSTION, FLUIDS AND MATERIALS EXPERIMENTS IN A RE
 DUCED GRAVITY ENVIRONMENT
Period Obligations
 08/05/1993-10/30/1995 FY95: TOTAL: \$87,200
Prin. Invest. NASA Tech. Officer CASE Category
 D G PROCTOR LERC/J M FLOWERS 13-Physics
 LERC/H ROSS

NAG 3-856 Case Western Reserve University 6699
 FRACTURE MECHANICS OF CERAMIC MATRIX COMPOSTES
Period Obligations
 12/21/1987-10/31/1994 FY95: TOTAL: \$330,276
Prin. Invest. NASA Tech. Officer CASE Category
 R BALLARINI LERC/B GROSS 47-Materials Engr
 LERC/S J KLIMA

NCC 3-425 Baldwin - Wallace College 6692
 COMBUSTION, FLUIDS, AND MATERIALS EXPERIMENTS IN A
 REDUCED GRAVITY ENVIRONMENT
Period Obligations
 07/24/1995-07/23/1997 FY95: \$27,140 TOTAL: \$27,140
Prin. Invest. NASA Tech. Officer CASE Category
 R L WALLIS LERC/S M NUSSBAUM 49-Engr, NEC

NAG 3-886 Case Western Reserve University 6700
 GRAVITY-DEPENDENT TRANSPORT IN INDUSTRIAL PROCESSES
Period Obligations
 04/12/1988-04/08/1996 FY95: \$159,944 TOTAL: \$1,379,718
Prin. Invest. NASA Tech. Officer CASE Category
 S OSTRACH LERC/A J RATAJCZAK 45-Elec Engr
 Y KAMOTANI

NAG 2-941 Case Western Reserve University 6693
 NASA-ESA CARBON DIOXIDE EXPOSURE
Period Obligations
 12/01/1994-12/31/1995 FY95: \$181,389 TOTAL: \$181,389
Prin. Invest. NASA Tech. Officer CASE Category
 K P STROHL APC/C M WINGET 56-Medical Sciences
 ARC/G C JAHNS

NAG 3-1027 Case Western Reserve University 6701
 OPTIMAL DESIGN OF ORTHOPAEDIC IMPLANTS
Period Obligations
 04/13/1989-05/31/1995 FY95: TOTAL: \$350,984
Prin. Invest. NASA Tech. Officer CASE Category
 D T DAVY ARC/D A HOPKINS 49-Engr, NEC
 ARC/C C CHAMIS

NASA'S UNIVERSITY PROGRAM

OHIO (Continued)

NAG 3-1046 Case Western Reserve University 6702
 MODELING OF SOLID FUEL COMBUSTION IN VERY LOW-SPEED OXYGEN STREAMS
Period *Obligations*
 05/18/1989-04/30/1996 FY95: \$119,946 TOTAL: \$612,351
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J S TIEN LERC/J A SALZMAN 49-Engr, NEC

NAG 3-1303 Case Western Reserve University 6710
 SEQUENTIAL LOADING AT HIGH TEMPERATURE-CREEP AND CREEP-FATIGUE
Period *Obligations*
 10/29/1991-12/31/1995 FY95: TOTAL: \$134,790
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S S MANSON LERC/G R HALFORD 49-Engr, NEC
 LERC/M A MCGAW

NAG 3-1130 Case Western Reserve University 6703
 MODELING OF SHOCK BOUNDARY LAYER INTERACTIONS WITH BLEED
Period *Obligations*
 01/16/1990-01/25/1995 FY95: TOTAL: \$84,739
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E RESHOTKO LERC/J D SAUNDERS 41-Aero Engr

NAG 3-1412 Case Western Reserve University 6711
 DIRECTIONAL SOLIDIFICATION IN 3HE-4HE ALLOYS
Period *Obligations*
 12/30/1992-09/30/1996 FY95: \$75,000 TOTAL: \$225,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A J DAHM LERC/A CHAIT 47-Materials Engr
 LERC/V PINES

NAG 3-1149 Case Western Reserve University 6704
 THE DEVELOPMENT OF SOLID STATE HYDROGEN AND OXYGEN SENSORS FOR ROCKET ENGINE LEAKAGE DETECTION
Period *Obligations*
 03/06/1990-03/22/1996 FY95: \$85,000 TOTAL: \$270,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C C LIU LERC/G C MADZSAR 99-Multi-Discip

NAG 3-1473 Case Western Reserve University 6712
 DEVELOPMENT OF INTEGRATED OPTIC SENSORS FOR AIRCRAFT CONTROL SYSTEMS
Period *Obligations*
 03/02/1993-01/31/1995 FY95: TOTAL: \$19,266
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M TABIB-AZAR LERC/G BEHEIM 45-Elec Engr

NAG 3-1179 Case Western Reserve University 6705
 STABILITY OF FLOW THROUGH AXIAL COMPRESSION SYSTEMS
Period *Obligations*
 05/24/1990-11/08/1995 FY95: \$50,529 TOTAL: \$340,733
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F E MCCAUGHAN LERC/F A NEWMAN 41-Aero Engr

NAG 3-1478 Case Western Reserve University 6713
 CHARACTERIZATION OF GALLIUM ARSENIDE MATERIAL FROM GALLIUM ARSENIDE/GET AWAY SPECIAL FLIGHT PROJECT
Period *Obligations*
 04/01/1993-05/18/1995 FY95: \$10,000 TOTAL: \$170,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D H MATTHIESEN LERC/R W LAUVER 19-Phys Sci, NEC

NAG 3-1201 Case Western Reserve University 6706
 TIME DEPENDENT NUMERICAL SIMULATIONS OF SOLIDIFICATION PROCESSES
Period *Obligations*
 08/21/1990-01/19/1996 FY95: \$76,500 TOTAL: \$314,301
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P L TAYLOR LERC/A CHAIT 13-Physics
 LERC/T K GLASGOW

NAG 3-1495 Case Western Reserve University 6714
 SUMMER 1993 STUDENT TECHNOLOGY EVALUATION PROGRAM (STEP)
Period *Obligations*
 04/29/1993-12/06/1994 FY95: TOTAL: \$77,190
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R M MASON LERC/K A VARIS 99-Multi-Discip
 S CORT LERC/A F RATAJCZAK
 C L RAHN

NAG 3-1212 Case Western Reserve University 6707
 MODELING OF DIFFUSION FLAMES AT LOW STRETCH RATES
Period *Obligations*
 10/18/1990-02/21/1994 FY95: TOTAL: \$76,922
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J S TIEN LERC/H D ROSS 46-Mech Engr

NAG 3-1525 Case Western Reserve University 6715
 THEORETICAL STUDY OF ELECTRONIC STRUCTURE AND WORK FUNCTION OF A MODEL DISPENSER CATHODE SURFACE
Period *Obligations*
 09/09/1993-02/28/1995 FY95: TOTAL: \$20,814
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B SEGALL LERC/I L KRAINSKY 13-Physics
 W R LAMBRECHT
 A G PETUKHOV

NAG 3-1232 Case Western Reserve University 6708
 FEEDBACK LINEARIZATION FOR CONTROL OF AIR BREATHING ENGINES
Period *Obligations*
 12/21/1990-04/10/1995 FY95: TOTAL: \$153,622
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S M PHILLIPS LERC/C F LORENZO 41-Aero Engr

NAG 3-1538 Case Western Reserve University 6716
 GRAVITY-DEPENDENT TRANSPORT PHENOMENA IN ZEOLITE CRYSTAL GROWTH
Period *Obligations*
 09/28/1993-05/14/1994 FY95: TOTAL: \$29,988
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S OSTRACH LERC/R L THOMPSON 47-Materials Engr
 Y KAMOTARI

NAG 3-1273 Case Western Reserve University 6709
 MICROFABRICATED SHEAR STRESS SENSORS
Period *Obligations*
 04/26/1991-02/04/1996 FY95: \$101,001 TOTAL: \$414,097
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M MEHREGANY LERC/W R HINGST 41-Aero Engr
 R L MULLEN LERC/B P WILLIS

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAG 3-1541 Case Western Reserve University 6717
ANALYTICAL AND NUMERICAL ANALYSIS OF EJECTOR NOZZLE FLOWS
Period *Obligations*
09/28/1993-09/27/1994 FY95: TOTAL: \$52,880
Prin. Invest. *NASA Tech. Officer* *CASE Category*
I GREEBER LERC/J K LYTLE 41-Aero Engr

NAS 3-25973 Case Western Reserve University 6725
THERMOCOAPILLARY CONVECTION EXPERIMENT IN MICROGRAVITY
Period *Obligations*
04/15/1991-06/26/1996 FY95: \$318,856 TOTAL: \$1,575,332
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S OSTRACH LERC/A D PLINE 49-Engr, NEC
Y KAMOTANI

NAG 3-1568 Case Western Reserve University 6718
SURFACE TENSION DRIVEN CONVECTION EXPERIMENTS - 2
Period *Obligations*
02/14/1994-02/13/1996 FY95: \$380,911 TOTAL: \$643,278
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S OSTRACH LERC/A D PLINE 19-Phys Sci, NEC
Y KAMOTANI

NAS 3-26054 Case Western Reserve University 6726
COST REIMBURSEMENT (TASK ORDER) CONTRACT FOR SYMPO SIA AND REPORTS IN ELECTRO-PHYSICS
Period *Obligations*
06/06/1990-12/05/1995 FY95: TOTAL: \$228,737
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B SEGEL LERC/B BANKS 13-Physics
LERC/J DEVON

NAG 3-1702 Case Western Reserve University 6719
STRUCTURAL AND ELCTRICAL CHARACTERIZATION OF LATTIC E DEFECTS IN SIC
Period *Obligations*
02/10/1995-02/09/1996 FY95: \$90,006 TOTAL: \$90,006
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P PIROUZ LERC/J A POWELL 13-Physics

NAS 8-39722 Case Western Reserve University 6727
STUDY OF DOPART SEGREGATION
Period *Obligations*
04/30/1993-12/31/1996 FY95: \$226,000 TOTAL: \$696,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D MATTHIESEN MSFC/T HALL 99-Multi-Discip

NAG 3-1741 Case Western Reserve University 6720
DEVELOPMENT OF HIGH TEMPERATURE NOX SENSOR USING TIN OXIDE BASED AND MOS BASED DEVICES
Period *Obligations*
05/01/1995-02/29/1996 FY95: \$69,998 TOTAL: \$69,998
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C C LIU LERC/G W HUNTER 43-Chem Engr

NCC 3-30 Case Western Reserve University 6728
TRANSIENT ELASTOHYDRODYNAMIC LUBRICATION IN STARVED CONJUNCTIONS
Period *Obligations*
05/09/1983-10/31/1995 FY95: \$1,000 TOTAL: \$1,573,008
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M PRAHL LERC/S V PEPPER 46-Mech Engr
J R JENG LERC/C DELLACORTE

NAG 5-2559 Case Western Reserve University 6721
MICROMACHINED TUNABLE ETALONS AND ETALON ARRAYS
Period *Obligations*
03/24/1994-03/31/1996 FY95: \$39,320 TOTAL: \$76,320
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M MEHREGANY GSFC/D DEMING 11-Astronomy
GSFC/D REUTER

NCC 3-90 Case Western Reserve University 6729
DEVELOPING ONGOING EVAL TO SUPPORT PLANNED CHANGE
Period *Obligations*
07/01/1987-09/21/1994 FY95: TOTAL: \$195,049
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D A KOLB LERC/R L REAMES 79-Soc Sci, NEC

NAG 9-571 Case Western Reserve University 6722
QUANTITATION OF HEAD AND GAZE STABILITY DURING NATURAL ACTIVITIES IN EARTH GRAVITY
Period *Obligations*
01/28/1992-08/01/1995 FY95: TOTAL: \$99,100
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J LEIGH JSC/D L HARM 51-Biological Sci

NCC 3-94 Case Western Reserve University 6730
INCR THERMAL FATIGUE RESIST OF COPER BASED ALLOYDS
Period *Obligations*
07/24/1988-09/30/1995 FY95: \$58,902 TOTAL: \$592,437
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G M MICHAL LERC/H R GRAY 47-Materials Engr
D L ELLIS

NAGW 1193 Case Western Reserve University 6723
CENTER FOR THE COMMERCIALIZATION OF SPACE
Period *Obligations*
10/19/1987-10/31/1995 FY95: TOTAL: \$7,323,771
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J F WALLACE HQ/W A ORAN 99-Multi-Discip
E BAER HQ/A VILLAMIL

NCC 3-112 Case Western Reserve University 6731
SYNTHESIS AND PROCESSING OF ADV. POLYMER SYSTEMS SAME
Period *Obligations*
06/25/1988-12/31/1994 FY95: TOTAL: \$1,057,465
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C N JUKENIK LERC/M A MEADOR 12-Chemistry
LERC/J K SUTTER

NAGW 4398 Case Western Reserve University 6724
MICROGRAVITY: SLEEP DEPRIVATION AND AUTONOMIC CON TROL
Period *Obligations*
04/24/1995-06/30/1998 FY95: \$130,796 TOTAL: \$130,796
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M L SMITH HQ/F SULZMAN 59-Life Sci, NEC

NCC 3-124 Case Western Reserve University 6732
ENVIROMENTAL EFFECTS ON TRANSITION AND THE CONTROL OF TRANSITION
Period *Obligations*
12/21/1988-06/27/1995 FY95: TOTAL: \$894,241
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E RESHOTKO LERC/L A POVINELLI 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NCC 3-139 Case Western Reserve University 6733
 CERAMIC PROCESSING
Period Obligations
 05/08/1989-02/15/1995 FY95: TOTAL: \$682,936
Prin. Invest. NASA Tech. Officer CASE Category
 W S WILLIAMS LERC/S R LEVINE 47-Materials Engr
 J CAWLEY

NCC 3-250 Case Western Reserve University 6741
 NUMERICAL MODEL FOR PROGRAMMABLE MULTIZONE FURNACE
Period Obligations
 02/07/1992-06/30/1994 FY95: TOTAL: \$47,097
Prin. Invest. NASA Tech. Officer CASE Category
 J J LEWANDOWSKI LERC/T K GLASGOW 47-Materials Engr

NCC 3-140 Case Western Reserve University 6734
 THERMOCAPILLARY AND ELECTROCAPILLARY EFFECTS IN REDUCED GRAVITY
Period Obligations
 05/15/1989-05/23/1996 FY95: \$364,841 TOTAL: \$2,119,124
Prin. Invest. NASA Tech. Officer CASE Category
 Y KAMOTANI LERC/R W VERNON 46-Mech Engr

NCC 3-253 Case Western Reserve University 6742
 DEVELOPMENT OF A SIC MICROSENSOR TECHNOLOGY
Period Obligations
 02/19/1992-03/20/1996 FY95: \$75,000 TOTAL: \$275,000
Prin. Invest. NASA Tech. Officer CASE Category
 M MEHREGANY LERC/L G MATUS 45-Elec Engr

NCC 3-141 Case Western Reserve University 6735
 OXYGEN INTERACTION WITH SPACE-POWER MATERIALS
Period Obligations
 05/22/1989-01/12/1995 FY95: TOTAL: \$456,785
Prin. Invest. NASA Tech. Officer CASE Category
 T G ECK LERC/D C FERGUSON 13-Physics
 R W HOFFMAN LERC/C K PURVIS

NCC 3-254 Case Western Reserve University 6743
 AN EXAMINATION OF SORET AND FICKIAN DIFFUSION AND THEIR RELATIONSHIP TO MATERIALS PROCESSING
Period Obligations
 02/21/1992-12/31/1993 FY95: TOTAL: \$109,632
Prin. Invest. NASA Tech. Officer CASE Category
 W S WILLIAMS LERC/T K GLASGOW 47-Materials Engr

NCC 3-144 Case Western Reserve University 6736
 DEVELOPMENT OF NIA1-BASED ALLOYS AND COMPOSITE MATERIALS FOR ELEVATED TEMPERATURE USE
Period Obligations
 07/07/1989-12/01/1994 FY95: TOTAL: \$781,520
Prin. Invest. NASA Tech. Officer CASE Category
 G M MICHAL LERC/H R GRAY 47-Materials Engr

NCC 3-263 Case Western Reserve University 6744
 FLOW VISUALIZATION OF BLADE ROW INTERACTION
Period Obligations
 05/08/1992-06/18/1996 FY95: \$32,000 TOTAL: \$115,256
Prin. Invest. NASA Tech. Officer CASE Category
 J R KADAMBF LERC/J J ADAMCZYK 41-Aero Engr
 LERC/R J BOYLE

NCC 3-166 Case Western Reserve University 6737
 EVALUATION OF LASER-LIGHT SCATTERING HARDWARE FOR MICRO-GRAVITY EXPERIMENTS
Period Obligations
 03/06/1990-04/09/1996 FY95: \$131,555 TOTAL: \$516,379
Prin. Invest. NASA Tech. Officer CASE Category
 J A MANN LERC/T K GLASGOW 47-Materials Engr

NCC 3-266 Case Western Reserve University 6745
 SURFACE LIGHT SCATTERING INSTRUMENT
Period Obligations
 05/19/1992-07/21/1996 FY95: \$38,303 TOTAL: \$239,303
Prin. Invest. NASA Tech. Officer CASE Category
 J A MANN LERC/T K GLASGOW 47-Materials Engr
 LERC/W V MEYER

NCC 3-206 Case Western Reserve University 6738
 IGNITION AND FLAME SPREAD OF LIQUID FUEL POOLS
Period Obligations
 02/14/1991-06/07/1996 FY95: \$124,896 TOTAL: \$548,085
Prin. Invest. NASA Tech. Officer CASE Category
 J S T'EN LERC/H D ROSS 46-Mech Engr

NCC 3-269 Case Western Reserve University 6746
 SURFACE LIGHT SCATTERING INSTRUMENTATION FOR MICROGRAVITY EXPERIMENTS
Period Obligations
 06/02/1992-07/31/1995 FY95: TOTAL: \$272,801
Prin. Invest. NASA Tech. Officer CASE Category
 J A MANN LERC/T K GLASGOW 47-Materials Engr

NCC 3-236 Case Western Reserve University 6739
 MICROSTRUCTURAL CHARACTERIZATION OF METAL MATRIX COMPOSITES (MMS'S), INTERMETALLIC MATRIX COMPOS (IMS)
Period Obligations
 11/22/1991-01/30/1995 FY95: TOTAL: \$282,917
Prin. Invest. NASA Tech. Officer CASE Category
 K P LAGERLOF LERC/D R HULL 47-Materials Engr
 LERC/R L DAVIES

NCC 3-275 Case Western Reserve University 6747
 NUMERICAL STUDIES OF PHASE TRANSITION PHENOMENA IN MICROGRAVITY
Period Obligations
 07/02/1992-01/22/1996 FY95: \$96,800 TOTAL: \$312,606
Prin. Invest. NASA Tech. Officer CASE Category
 V K PINES LERC/A CHAIT 47-Materials Engr

NCC 3-244 Case Western Reserve University 6740
 A STUDY OF THE MECHANICAL PROPERTIES OF Mg AND Ti CO-DOPED SAPPHIRE FIBERS
Period Obligations
 01/02/1992-11/20/1994 FY95: TOTAL: \$648,255
Prin. Invest. NASA Tech. Officer CASE Category
 K D LAGERLOFF LERC/J A DICARLO 47-Materials Engr
 LERC/S R LEVINE

NCC 3-278 Case Western Reserve University 6748
 MOTOR CHARACTERIZATION AND CONTROL FOR INERTIAL BALANCING
Period Obligations
 10/07/1992-06/30/1995 FY95: TOTAL: \$40,738
Prin. Invest. NASA Tech. Officer CASE Category
 W NEWMAN LERC/C LAWRENCE 46-Mech Engr

NASA'S UNIVERSITY PROGRAM

OHIO (Continued)

NCC 3-280 Case Western Reserve University 6749
SEAL PERFORMANCE EVALUATION FOR ADVANCED HIGH TEMPERATURE ENGINE APPLICATIONS
Period Obligations
 10/07/1992-10/24/1994 FY95: TOTAL: \$93,851
Prin. Invest. NASA Tech. Officer CASE Category
 J PRAHL LERC/B M STEINETZ 46-Mech Engr
 L KREN LERC/D A ROHN

NCC 3-322 Case Western Reserve University 6757
MATERIALS EXPOSURE IN THE SPACE ENVIRONMENT
Period Obligations
 08/28/1993-08/26/1994 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 E BAER LERC/J K SUTTER 43-Chem Engr
 D DAVIS

NCC 3-292 Case Western Reserve University 6750
SOFTWARE DEVELOPMENT FOR THE STEREO VELOCIMETRY PROJECT
Period Obligations
 01/11/1993-06/11/1996 FY95: \$22,062 TOTAL: \$61,770
Prin. Invest. NASA Tech. Officer CASE Category
 F I MERAT LERC/M D BETHEA 47-Materials Engr

NCC 3-331 Case Western Reserve University 6758
FATIGUE CRACK GROWTH OF ADVANCED MATERIALS
Period Obligations
 11/29/1993-01/08/1996 FY95: \$113,408 TOTAL: \$220,342
Prin. Invest. NASA Tech. Officer CASE Category
 R L MULLEN LERC/J I TELESMA 46-Mech Engr
 L T GHOSH

NCC 3-293 Case Western Reserve University 6751
DIFFUSION PROCESSES IN MOLTEN SEMICONDUCTORS
Period Obligations
 01/13/1993-03/20/1996 FY95: \$127,800 TOTAL: \$372,400
Prin. Invest. NASA Tech. Officer CASE Category
 D MATTHIESEN LERC/T K GLASGOW 47-Materials Engr
 LERC/C R KROLIKOWSKI

NCC 3-337 Case Western Reserve University 6759
MODELING OF DIFFUSION FLAMES AT LOW STRETCH RATES
Period Obligations
 02/22/1994-02/21/1995 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 J S TIEN LERC/H D ROSS 46-Mech Engr
 LERC/S L OLSON

NCC 3-294 Case Western Reserve University 6752
ELECTRICAL CHARACTERIZATION OF SIC ELECTRIC DEVICES
Period Obligations
 01/25/1993-03/02/1996 FY95: \$33,467 TOTAL: \$97,716
Prin. Invest. NASA Tech. Officer CASE Category
 M TABIB-AZAR LERC/P G NEUDECK 45-Elec Engr

NCC 3-340 Case Western Reserve University 6760
SOFTWARE ENGINEERING FOR STEREO IMAGING VELOCIMETRY
Period Obligations
 03/04/1994-06/11/1996 FY95: \$55,163 TOTAL: \$63,703
Prin. Invest. NASA Tech. Officer CASE Category
 G W ERNST LERC/M D BETHEA 22-Computer Science

NCC 3-295 Case Western Reserve University 6753
INTERMETALLIC MATRIX COMPOSITES
Period Obligations
 02/10/1993-12/31/1996 FY95: \$27,000 TOTAL: \$111,777
Prin. Invest. NASA Tech. Officer CASE Category
 R M AIKEN LERC/M V NATHAL 47-Materials Engr
 J J LEWANDOSKI

NCC 3-350 Case Western Reserve University 6761
CANDLE FLAMES IN MICROGRAVITY
Period Obligations
 06/03/1994-07/31/1996 FY95: \$42,441 TOTAL: \$63,041
Prin. Invest. NASA Tech. Officer CASE Category
 J S TIEN LERC/H D ROSS 46-Mech Engr

NCC 3-296 Case Western Reserve University 6754
EXPOSURE OF MATERIALS IN SPACE FLIGHT
Period Obligations
 01/22/1993-10/31/1994 FY95: TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
 J F WALLACE LERC/K K DE GROH 47-Materials Engr
 J H PAYER LERC/B A BANKS

NCC 3-352 Case Western Reserve University 6762
EFFECT OF GROWTH PARAMETERS ON SECONDARY ELECTRON YIELD OF DIAMOND FILMS
Period Obligations
 06/13/1994-12/12/1995 FY95: TOTAL: \$29,753
Prin. Invest. NASA Tech. Officer CASE Category
 Y WANG LERC/I L KRAINSLEY 47-Materials Engr
 J C ANGUS

NCC 3-298 Case Western Reserve University 6755
COLLOIDAL PROCESSING STRATEGIES FOR FIBER-REINFORCED CERAMIC COMPOSITES
Period Obligations
 02/24/1993-04/30/1995 FY95: TOTAL: \$353,769
Prin. Invest. NASA Tech. Officer CASE Category
 D L FEKE LERC/R T BHATT 47-Materials Engr
 LERC/S R LEVINE

NCC 3-371 Case Western Reserve University 6763
PROJECT MANAGEMENT: A COMPETENCY STUDY
Period Obligations
 12/12/1994-12/11/1995 FY95: \$42,000 TOTAL: \$42,000
Prin. Invest. NASA Tech. Officer CASE Category
 D KOLB LERC/R CLAPPER 79-Soc Sci, NEC

NCC 3-313 Case Western Reserve University 6756
CAMERA CALIBRATION FOR STEREO IMAGING VELOCIMETRY
Period Obligations
 05/28/1993-12/31/1993 FY95: TOTAL: \$12,841
Prin. Invest. NASA Tech. Officer CASE Category
 F L MERAT LERC/M BETHEA 47-Materials Engr

NCC 3-372 Case Western Reserve University 6764
A STUDY OF THE MECHANICAL PROPERTIES OF DIRECTIONALLY SOLIDIFIED AND CHARACTERIZATION OF HIGH TEMPERATURE
Period Obligations
 11/15/1994-10/31/1996 FY95: \$276,503 TOTAL: \$276,503
Prin. Invest. NASA Tech. Officer CASE Category
 A SAYIR LERC/J A DICARLO 47-Materials Engr
 LERC/S R LEVINE

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NCC 3-377 Case Western Reserve University 6765
 IMPROVED PROCESSING OF HIGH TEMPERATURE COMPOSITE SYSTEMS
Period Obligations
 12/08/1994-12/07/1995 FY95: \$140,373 TOTAL: \$140,373
Prin. Invest. NASA Tech. Officer CASE Category
 C N SUKENIK LERC/M A MEADOR 12-Chemistry

NCC 3-378 Case Western Reserve University 6766
 THE DEVELOPMENT OF SILICON CARBIDE BASED GAS SENSORS FOR AUTOMOBILE EMISSIONS
Period Obligations
 12/07/1994-01/16/1996 FY95: \$200,000 TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
 C C LIU LERC/G W HUNTER 43-Chem Engr

NCC 3-384 Case Western Reserve University 6767
 EVALUATION OF THE LONG TERM DURABILITY OF MATERIALS FOR ADVANCED TURBINE ENGINES
Period Obligations
 03/24/1995-03/23/1996 FY95: \$81,350 TOTAL: \$81,350
Prin. Invest. NASA Tech. Officer CASE Category
 G M MICHAL LERC/R V MINER 47-Materials Engr
 LERC/M V NATHAL

NCC 3-404 Case Western Reserve University 6768
 CERAMIC PROCESSING
Period Obligations
 03/13/1995-02/29/1996 FY95: \$259,617 TOTAL: \$259,617
Prin. Invest. NASA Tech. Officer CASE Category
 J CAWLEY LERC/S LEVINE 47-Materials Engr

NCC 3-409 Case Western Reserve University 6769
 THE DEVELOPMENT OF A NOVEL CLASS OF RETAINERLESS/UNIDIRECTION-FIBER COMPOSITE MOMENTUM WHEELS
Period Obligations
 04/01/1995-03/31/1996 FY95: \$49,761 TOTAL: \$49,761
Prin. Invest. NASA Tech. Officer CASE Category
 J M PRAHL LERC/W R JONES 46-Mech Engr
 LERC/M V ZELLER

NCC 3-431 Case Western Reserve University 6770
 POLING OF MICROWAVE ELECTRO-OPTIC DEVICES
Period Obligations
 09/22/1995-09/21/1996 FY95: \$9,753 TOTAL: \$9,753
Prin. Invest. NASA Tech. Officer CASE Category
 D D SINGER LERC/R R KUNATH 45-Elec Engr

NCCW 36 Case Western Reserve University 6771
 CONTROLLED CROSS CONTAMINATION 2/1/94 NEW AWARD
Period Obligations
 02/23/1994-01/31/1995 FY95: TOTAL: \$97,448
Prin. Invest. NASA Tech. Officer CASE Category
 R PRIBISICH HQ/A DOUGHERTY 19-Phys Sci, NEC

NGT 00-050-588 Case Western Reserve University 6772
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/26/1990-08/31/1994 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 R D QUINN HQ/F C OWENS 46-Mech Engr

NGT 00-050-862 Case Western Reserve University 6773
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/30/1991-12/31/1995 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 J S TIEN HQ/F C OWENS 46-Mech Engr

NGT 00-050-947 Case Western Reserve University 6774
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/11/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 K D SINGER LERC/F MONTEGANI 13-Physics

NGT 00-050-948 Case Western Reserve University 6775
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/14/1992-08/23/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 F E MCCAUGHAN LERC/F MONTEGANI 46-Mech Engr

NGT 00-051-041 Case Western Reserve University 6776
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/14/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 G KLOPMAN JPL/C HIX 12-Chemistry

NGT 00-051-087 Case Western Reserve University 6777
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/15/1993-06/30/1996 FY95: \$14,000 TOTAL: \$58,000
Prin. Invest. NASA Tech. Officer CASE Category
 J S TIEN HQ/D A HOLLAND 46-Mech Engr

NGT 00-051-143 Case Western Reserve University 6778
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/23/1993-08/31/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 F E MCCAUGHAN HQ/G LESANE 46-Mech Engr

NGT 00-051-168 Case Western Reserve University 6779
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/06/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 V KAMOTANI LERC/F MONTEGANI 46-Mech Engr

NGT 00-051-194 Case Western Reserve University 6780
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/20/1993-08/22/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R D QUINN MSFC/B SWINFORD 46-Mech Engr

NGT 00-051-236 Case Western Reserve University 6781
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 11/22/1994-12/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 I GREBER LERC/F MONTEGANI 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NGT 00-051-357 Case Western Reserve University 6782
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
D H MATTHIESEN HQ/G A LESANE 47-Materials Engr

NGT 00-051-361 Case Western Reserve University 6783
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/08/1994-06/30/1997 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
D MATTHIESEN HQ/G A LESANE 47-Materials Engr

NGT 00-051-414 Case Western Reserve University 6784
GSRP
Period Obligations
08/21/1994-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
P S TIEN HQ/D LONGEDDY 41-Aero Engr

NGT 00-070-237 Case Western Reserve University 6785
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
12/17/1991-12/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
T G ECK LARC/E PRIOR 13-Physics

NGT 00-070-281 Case Western Reserve University 6786
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
07/24/1992-12/31/1994 FY95: \$4,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
D SCHERSON LERC/F J MONTEGANI 12-Chemistry

NGT 00-070-351 Case Western Reserve University 6787
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
08/12/1993-12/31/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
S PHILLIPS HQ/D K RUSSELL 45-Elec Engr

NGT 00-070-407 Case Western Reserve University 6788
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
12/05/1994-12/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
S PHILIPS HQ/D K RUSSELL 45-Elec Engr

NGT 00-090-177 Case Western Reserve University 6789
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
M BOULDING HQ/D RUSSELL 99-Multi-Discip

NAG 3-1463 Central State University - Ohio 6790
A STUDY OF EVAPORATION FROM A BINARY MENICUSUS IN M
ICROGRAVITY
Period Obligations
03/04/1993-05/31/1995 FY95: \$204,995 TOTAL: \$528,475
Prin. Invest. NASA Tech. Officer CASE Category
M M GIRGIS LERC/J A SALZMAN 19-Phys Sci, NEC
LERC/R L THOMPSON

NAG 3-1517 Central State University - Ohio 6791
RESEARCH LABORATORY FOR ENGINEERING AND TECHNOLOGY (R
ELEN)
Period Obligations
08/19/1993-11/07/1995 FY95: \$116,988 TOTAL: \$421,143
Prin. Invest. NASA Tech. Officer CASE Category
C B OKHIO LERC/D E LACY 42-Astro Engr

NAG 3-1554 Central State University - Ohio 6792
CLIENT/SERVER STUDY
Period Obligations
12/17/1993-04/16/1996 FY95: TOTAL: \$249,991
Prin. Invest. NASA Tech. Officer CASE Category
K DEZHGOSHA LERC/J J PELOUCH 22-Computer Science

NAG 3-1670 Central State University - Ohio 6793
RESEARCH FACILITY TO STUDY FLOWS THROUGH ANNULAR D
IFFUSRS
Period Obligations
09/28/1994-01/09/1996 FY95: \$121,600 TOTAL: \$190,840
Prin. Invest. NASA Tech. Officer CASE Category
C B OKHIO LERC/R R TACINA 41-Aero Engr

NAG 3-1725 Central State University - Ohio 6794
PERFORMANCE EVALUATION IN NETWORK-BASED PARALLEL C
OMPUTING
Period Obligations
04/01/1995-02/29/1996 FY95: \$86,672 TOTAL: \$86,672
Prin. Invest. NASA Tech. Officer CASE Category
K D ZHGOSHA LERC/G J FOLLEN 22-Computer Science

NAG 3-1787 Central State University - Ohio 6795
DEVELOPMENT OF SEARCHABLE DATABASE ON GENERAL
AVIATION PROPULSION
Period Obligations
09/12/1995-03/11/1997 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
D A IKOMI LERC/C E COLE-HAMILTON 41-Aero Engr
G T NOEL

NAGW 4077 Central State University - Ohio 6796
EARTH TO LOS ANGELES
Period Obligations
07/08/1994-05/31/1996 FY95: \$357,755 TOTAL: \$676,420
Prin. Invest. NASA Tech. Officer CASE Category
D J LOVE HQ/B L WHITE 39-Env Sci, NEC

NAG 3-658 Cleveland State University 6797
THEORY OF INDIUM PHOSPHIDE SOLAR CELLS
Period Obligations
11/06/1985-03/31/1995 FY95: TOTAL: \$1,709,701
Prin. Invest. NASA Tech. Officer CASE Category
C GORADIA LERC/I WEINBERG 45-Elec Engr
M GORADIA LERC/D J FLOOD

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAG 3-955 Cleveland State University 6798
DEVELOPMENT OF MULTI-DIMENSIONAL STERLING ENGINE DESIGN CODE

<i>Period</i>		<i>Obligations</i>	
11/15/1988-03/31/1995	FY95:	TOTAL:	\$222,631
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
M B IBRAHIM	LERC/R C TEW	49-Engr, NEC	
	LERC/J E DUDENHOEFER		

NAG 3-1543 Cleveland State University 6806
EXPERIMENTAL AND ANALYTICAL FATIGUE STUDIES OF POLYMER MATRIX COMPOSITES

<i>Period</i>		<i>Obligations</i>	
10/18/1993-12/06/1995	FY95:	TOTAL:	\$139,925
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
J H HEMANN	LERC/J R ELLIS	44-Civil Engr	

NAG 3-1010 Cleveland State University 6799
FLOW VISUALIZATION STUDIES OF MIXING PROCESS

<i>Period</i>		<i>Obligations</i>	
02/13/1989-09/30/1994	FY95:	TOTAL:	\$325,898
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
B GHORASHI	LERC/K S CHUN	41-Aero Engr	

NAG 3-1560 Cleveland State University 6807
DEVELOPMENT OF EXPERT SYSTEM TOOLS FOR NPSS ENGINE DIAGNOSTICS

<i>Period</i>		<i>Obligations</i>	
01/05/1994-07/05/1994	FY95:	TOTAL:	\$33,246
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
H LEWANDOSKI	LERC/G F FOLLEN	29-Math/Cmputer,NEC	

NAG 3-1216 Cleveland State University 6800
A STUDY OF TIME DEPENDENT RESPONSE OF CERAMIC MATERIALS

<i>Period</i>		<i>Obligations</i>	
12/05/1990-12/12/1995	FY95: \$85,836	TOTAL:	\$380,586
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
J H HEMANN	LERC/J P GYKENYESI	42-Astro Engr	
	LERC/J M MANDERSCHIED		

NAG 3-1593 Cleveland State University 6808
RELIABILITY ANALYSIS OF SHUTTLE BASED MICROGRAVITY FLIGHT EXPERIMENTS

<i>Period</i>		<i>Obligations</i>	
06/02/1994-12/31/1995	FY95:	TOTAL:	\$27,978
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
Y A LIU	LERC/D P MORILAK	29-Math/Cmputer,NEC	

NAG 3-1313 Cleveland State University 6801
CHARACTERIZATION OF DEFECT SOLIDS

<i>Period</i>		<i>Obligations</i>	
12/17/1991-12/31/1994	FY95:	TOTAL:	\$115,250
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
H SCHLOSSER	LERC/J FERRANTE	47-Materials Engr	

NAG 3-1601 Cleveland State University 6809
WIRELESS INTERNET ACCESS USING SPREAD SPECTRUM TECHNOLOGY FOR K-12

<i>Period</i>		<i>Obligations</i>	
07/01/1994-10/31/1994	FY95:	TOTAL:	\$44,873
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
C LIN	LERC/G MACKSON	29-Math/Cmputer,NEC	
	LERC/G FOLLEN		

NAG 3-1379 Cleveland State University 6802
A RATE-ADJUSTING CONGESTION CONTROL SCHEME FOR SATELLITE PACKET SWITCHING NETWORK

<i>Period</i>		<i>Obligations</i>	
11/04/1992-09/08/1996	FY95: \$51,886	TOTAL:	\$135,723
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
P CHU	LERC/H KIM	45-Elec Engr	

NAG 3-1692 Cleveland State University 6810
THEORETICAL AND EXPERIMENTAL RESEARCH IN SPACE PHOTOVOLTAICS

<i>Period</i>		<i>Obligations</i>	
01/23/1995-08/31/1995	FY95: \$76,325	TOTAL:	\$76,325
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
C GORADIA	LERC/I WEINBERG	45-Elec Engr	
M GORADIA	LERC/D J FLOOD		

NAG 3-1441 Cleveland State University 6803
DESIGN OF OBJECT-ORIENTED DISTRIBUTED SIMULATION CLASSES

<i>Period</i>		<i>Obligations</i>	
01/13/1993-11/17/1995	FY95: \$45,395	TOTAL:	\$118,856
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
J SCHOEFFLER	LERC/G YOLKN	22-Computer Science	

NAG 3-1705 Cleveland State University 6811
ECONOMIC IMPACT STUDY OF NASA LEWIS RESEARCH CENTER

<i>Period</i>		<i>Obligations</i>	
02/24/1995-08/31/1995	FY95: \$34,860	TOTAL:	\$34,860
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
D T IANNONE	LERC/R C ALEXANDER	72-Economics	
Z AUSTRIAN	LERC/J M HAIRSTON JR		

NAG 3-1482 Cleveland State University 6804
RELIABILITY ANALYSIS OF SHUTTLE BASED MICROGRAVITY FLIGHT EXPERIMENTS

<i>Period</i>		<i>Obligations</i>	
04/05/1993-11/30/1993	FY95:	TOTAL:	\$26,640
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
Y A LIU	LERC/D P MORILAK	29-Math/Cmputer,NEC	

NAG 3-1714 Cleveland State University 6812
OPTICAL PROPERTIES OF SELECTIVE EMITTER MATERIALS FOR THERMOPHOTVOLTAIC APPLICATIONS

<i>Period</i>		<i>Obligations</i>	
03/01/1995-02/29/1996	FY95: \$12,423	TOTAL:	\$12,423
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
P D HAMBOURGER	LERC/D L CHUBB	13-Physics	
	LERC/B S GOOD		

NAG 3-1511 Cleveland State University 6805
MINORITY ENGINEERING PROGRAMS PIPELINE-A PROPOSAL TO INCREASE MIN STUD ENROLL AND RETENTION IN ENGINEERING

<i>Period</i>		<i>Obligations</i>	
07/13/1993-09/22/1995	FY95: \$35,102	TOTAL:	\$66,396
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
P C CHARITY	LERC/J E BOYD	99-Multi-Discip	
	LERC/J A CHARLESTON		

NAG 3-1756 Cleveland State University 6813
THERMAL ANALYSES FOR MELTING AND FREEZING OF MATERIALS IN A METALLIC CANISTER

<i>Period</i>		<i>Obligations</i>	
06/14/1995-06/13/1996	FY95: \$36,420	TOTAL:	\$36,420
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
M IBRAHIMI	LERC/C M TOLBERT	46-Mech Engr	
G CHROMIK	LERC/K W BAKER		

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAG 3-1772 Cleveland State University 6814
 MINORITY ENGINEERING PROGRAMS PIPELINE - A PROPOSAL TO INCREASE MINORITY STUDENT ENROLLMENT AND RETENTION
Period *Obligations*
 07/26/1985-07/25/1996 FY95: \$17,276 TOTAL: \$17,276
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P C CHARITY LERC/J E BOYD 99-Multi-Discip

NCC 3-138 Cleveland State University 6822
 HIGH TEMPERATURE MECHANICAL BEHAVIOR OF CERAMIC MATRIX COMPOSITES
Period *Obligations*
 04/18/1989-07/14/1996 FY95: \$168,721 TOTAL: \$856,515
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J H HEMANN LERC/S R LEVINE 47-Materials Engr
 LERC/J A SALEM

NCC 3-19 Cleveland State University 6815
 TERRESTRIAL SPACE ENERGETICS AND POWER SYSTEM
Period *Obligations*
 08/12/1982-09/30/1994 FY95: TOTAL: \$1,620,733
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P D HAMBOURGER LERC/S K RUTLEDGE 43-Chem Engr
 D B SHAH LERC/B A BANKS

NCC 3-142 Cleveland State University 6823
 INTERACTION BETWEEN CONVECTION AND HEAT TRANSFER IN CRYSTAL GROWTH
Period *Obligations*
 06/29/1989-12/16/1995 FY95: TOTAL: \$871,837
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S N TEWARI LERC/M D BETHEA 47-Materials Engr
 LERC/B N ROSENTHAL

NCC 3-63 Cleveland State University 6816
 DEVELOPMENT OF CERAMIC COMPOSITES WITH ENHANCED RELIABILITY
Period *Obligations*
 04/18/1986-12/09/1995 FY95: TOTAL: \$1,219,871
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A H ANDRIST LERC/F I HURWITZ 43-Chem Engr

NCC 3-162 Cleveland State University 6824
 SYNTHESIS AND CHARACTERIZATION OF ORGANOCOPPERINDIUM AND ORGANOCOPPERGALLIUM COMPOUNDS
Period *Obligations*
 01/23/1990-03/31/1994 FY95: TOTAL: \$62,838
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S A DURAJ LERC/A F HEPP 12-Chemistry

NCC 3-77 Cleveland State University 6817
 ADVANCED MICROSHEET/COMPOSITE SOLAR REFLECTOR FOR LEO APPLICATIONS
Period *Obligations*
 12/23/1986-12/31/1994 FY95: TOTAL: \$1,098,638
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A PINTZ LERC/J M SAVINO 47-Materials Engr
 LERC/T MROZ

NCC 3-163 Cleveland State University 6825
 DEVELOPMENT OF ENGINEERING SYSTEMS FOR SPACE STATION FREEDOM
Period *Obligations*
 01/25/1990-09/30/1995 FY95: TOTAL: \$418,145
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G L KRAMERICH LERC/J A KOBAK 45-Elec Engr

NCC 3-81 Cleveland State University 6818
 INV. OF THEORIES OF FAILURE FOR CERAMIC COMPOSITE MATERIALS AND THEN IMPLEMENTATION INTO ELEMENT CODE
Period *Obligations*
 02/26/1987-11/24/1994 FY95: TOTAL: \$1,321,126
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J H HEMANN LERC/J P GYEKENYESI 47-Materials Engr
 LERC/B GROSS

NCC 3-190 Cleveland State University 6826
 DEVELOPMENT OF ADVANCED AEROSPACE MATERIALS /5100
Period *Obligations*
 01/02/1991-11/30/1994 FY95: TOTAL: \$208,376
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S N TEWARI LERC/C E LOWELL 47-Materials Engr

NCC 3-111 Cleveland State University 6819
 MICROSTRUCTURAL AND MICROCHEMICAL CHARACTERIZATION OF ELEVATED TEMP
Period *Obligations*
 06/28/1988-04/28/1996 FY95: TOTAL: \$806,538
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S N TEWARI LERC/D R HULL 41-Aero Engr

NCC 3-191 Cleveland State University 6827
 DEVELOPMENT OF ADVANCED MULTIZONE FACILITIES FOR MICROGRAVITY PROCESSING
Period *Obligations*
 12/12/1990-12/16/1995 FY95: TOTAL: \$586,197
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S N TEWARI LERC/ LERC/T K GLASGOW 13-Physics

NCC 3-119 Cleveland State University 6820
 CREEP OF REFRACTORY METAL FIBERS AND MODELLING OF METAL MATRIX COMPOSITES
Period *Obligations*
 11/01/1988-03/14/1996 FY95: TOTAL: \$576,782
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S N TEWARI LERC/H R GRAY 47-Materials Engr
 H M YUN LERC/T L GROBSTEIN

NCC 3-204 Cleveland State University 6828
 A FEAS STUDY OF A BACKSCATTER ENSEMBLE MEASUREMENT PARTICLE SIZE DISTRIBUTION FOR DETECTING WATER DROPLET SIZE DISTRIBUTION WITH CLOUD
Period *Obligations*
 02/14/1991-02/13/1996 FY95: TOTAL: \$126,697
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J A LOCK LERC/R C ANDERSON 13-Physics
 LERC/D J LESCO

NCC 3-122 Cleveland State University 6821
 DEVELOPMENT OF ANALYTICAL METHODS FOR MATERIALS ANALYSIS
Period *Obligations*
 12/06/1988-02/28/1995 FY95: TOTAL: \$799,706
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R G MEGARGLE LERC/R L DAVIES 12-Chemistry
 R L TOWNS LERC/K S CRANDALL

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NCC 3-205 Cleveland State University 6829
 DURABILITY AND LIFE OF CERAMIC MATRIX COMPOSITES IN COMBUSTION ENVIRONMENT
Period Obligations
 06/11/1991-11/30/1995 FY95: \$79,111 TOTAL: \$399,992
Prin. Invest. NASA Tech. Officer CASE Category
 S N TEWARI LERC/L A GREENBAUER-SENG 47-Materials Engr
 LERC/N S JACOBSON

NCC 3-228 Cleveland State University 6830
 SCANNING AND TRANSMISSION ELECTRON MICROSCOPY OF HIGH TEMPERATURE MATERIALS
Period Obligations
 08/14/1991-03/25/1996 FY95: TOTAL: \$325,866
Prin. Invest. NASA Tech. Officer CASE Category
 S N TEWARI LERC/D R HULL 47-Materials Engr

NCC 3-242 Cleveland State University 6831
 SHAPE SELECTION CRITERION FOR CELLULAR ARRAY DURIN G CONSTRAINED GROWTH OF BINARY ALLOYS
Period Obligations
 12/04/1991-11/30/1994 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 S N TEWARI LERC/T K GLASGOW 47-Materials Engr

NCC 3-257 Cleveland State University 6832
 METHODOLOGY FOR THE DESIGN AND IMPLEMENTATION OF REAL-TIME EXPERT SYSTEMS
Period Obligations
 03/06/1992-06/17/1994 FY95: TOTAL: \$85,628
Prin. Invest. NASA Tech. Officer CASE Category
 F E VILLASECA LERC/J C DELAAT 45-Elec Engr

NCC 3-285 Cleveland State University 6833
 PLASMA-SPRAYED REFRACTORY OXIDE COATINGS ON SILICON-BASE CERAMICS
Period Obligations
 03/03/1993-11/15/1995 FY95: \$75,198 TOTAL: \$286,886
Prin. Invest. NASA Tech. Officer CASE Category
 S N TEWARI LERC/L A GREENBAUER-SENG 47-Materials Engr

NCC 3-287 Cleveland State University 6834
 DIRECTIONAL SOLIDIFICATION OF INTERMETALLIC MATRIX COMPOSITES
Period Obligations
 02/12/1993-02/02/1995 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 S N TEWARI LERC/R R BOWMAN 47-Materials Engr

NCC 3-299 Cleveland State University 6835
 MACROSEGREGATION IN DIRECTIONALLY SOLIDIFIED PB-SN ALLOYS
Period Obligations
 05/27/1993-07/14/1995 FY95: TOTAL: \$135,639
Prin. Invest. NASA Tech. Officer CASE Category
 S TEWARI LERC/A CHAIT 47-Materials Engr

NCC 3-301 Cleveland State University 6836
 IN-PLANT TESTING OF MEMBRANES TO TREAT ELECTROPLATING WASTEWATER
Period Obligations
 03/26/1993-12/07/1994 FY95: TOTAL: \$53,834
Prin. Invest. NASA Tech. Officer CASE Category
 D B SHAH LERC/K W STREET 43-Chem Engr
 LERC/A F RATAJCZAK

NCC 3-303 Cleveland State University 6837
 AN INVESTIGATION OF DAMAGE IN SIC/TITANIUM COMPOSITES USING THE SCANNING ACOUSTIC MICROSCOPE
Period Obligations
 05/05/1993-10/31/1994 FY95: TOTAL: \$23,535
Prin. Invest. NASA Tech. Officer CASE Category
 J HEMANN LERC/G BAAKLINI 47-Materials Engr

NCC 3-304 Cleveland State University 6838
 ULTRASONIC SCANNER CONTROL AND DATA ACQUISITION
Period Obligations
 05/05/1993-01/08/1996 FY95: \$97,580 TOTAL: \$202,393
Prin. Invest. NASA Tech. Officer CASE Category
 J HEMANN LERC/G Y BAAKLINI 47-Materials Engr

NCC 3-305 Cleveland State University 6839
 AN INVESTIGATION OF RELIABILITY MODELS FOR CERAMIC MATRIX COMP AND THEIR IMPLEMENTATION INTO FINITE ELEMENT CODES
Period Obligations
 06/29/1993-06/30/1996 FY95: \$30,238 TOTAL: \$148,439
Prin. Invest. NASA Tech. Officer CASE Category
 S DUFFY LERC/N NEMETH 47-Materials Engr

NCC 3-306 Cleveland State University 6840
 AN INVESTIGATION OF THEORIES OF FAILURE FOR CERAMIC MATRIX COMPOSITE MATERIALS
Period Obligations
 05/05/1993-07/21/1995 FY95: \$13,151 TOTAL: \$40,547
Prin. Invest. NASA Tech. Officer CASE Category
 J HEMANN LERC/N NEMETH 47-Materials Engr

NCC 3-310 Cleveland State University 6841
 DESIGN PROTOCOLS AND ANALYTICAL STRATEGIES THAT INCORPORATE STRUCTURAL RELIABILITY MODELS
Period Obligations
 06/15/1993-08/31/1995 FY95: TOTAL: \$128,153
Prin. Invest. NASA Tech. Officer CASE Category
 S DUFFY LERC/N NEMETH 47-Materials Engr

NCC 3-316 Cleveland State University 6842
 NON-DESTRUCTIVE EVALUATION OF ADVANCED MATERIALS FOR HEAT ENGINE AND SPACE STRUCTURE APPLICATIONS
Period Obligations
 08/20/1993-12/31/1995 FY95: \$20,455 TOTAL: \$40,955
Prin. Invest. NASA Tech. Officer CASE Category
 J HEMANN LERC/A VARY 47-Materials Engr

NCC 3-328 Cleveland State University 6843
 AN INVESTIGATION OF THEORIES OF FAILURE FOR WOVEN CERAMIC COMPOSITES AND THEIR IMPLEMENTATION INTO FINITE ELEMENT CODES
Period Obligations
 11/02/1993-11/25/1995 FY95: \$105,018 TOTAL: \$210,694
Prin. Invest. NASA Tech. Officer CASE Category
 J HEMANN LERC/N NEMETH 47-Materials Engr

NCC 3-334 Cleveland State University 6844
 THE DEVELOPMENT OF ENGINEERING TOMOGRAPHY
Period Obligations
 12/23/1993-01/08/1996 FY95: \$56,368 TOTAL: \$185,406
Prin. Invest. NASA Tech. Officer CASE Category
 J H HEMANN LERC/G Y BAAKLINI 47-Materials Engr
 LERC/A VARY

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NCC 3-336 Cleveland State University 6845
BEARING LUBRICATION ANALYSIS COUNTER-ROTATING TEST
APPARATUS DATA ACQUISITION SYSTEM
Period *Obligations*
02/04/1994-02/03/1995 FY95: TOTAL: \$19,109
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J ANTHAN LERC/W R JONES JR. 46-Mech Engr

NCC 3-339 Cleveland State University 6846
NEW ENVIRONMENTALLY DURABLE MATERIALS AND COATINGS
FOR SPACE APPLICATION
Period *Obligations*
03/11/1994-12/31/1995 FY95: TOTAL: \$76,399
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P HAMBOURGER LERC/S RUTLEDGE 13-Physics

NCC 3-342 Cleveland State University 6847
PROFESSIONAL ADVANCED RESEARCH AND ANALYSIS
Period *Obligations*
04/01/1994-04/03/1996 FY95: \$119,626 TOTAL: \$260,810
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G COULMAN LERC/P R PROKOPIUS 43-Chem Engr

NCC 3-367 Cleveland State University 6848
A HIGH TEMPERATURE TESTING SYSTEM FOR CERAMIC COMP
OSITES
Period *Obligations*
11/01/1994-05/07/1996 FY95: \$157,712 TOTAL: \$157,712
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J HEMANN LERC/F HURWITZ 47-Materials Engr

NCC 3-376 Cleveland State University 6849
DONE
Period *Obligations*
12/15/1994-12/14/1995 FY95: \$152,747 TOTAL: \$152,747
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J MASNOVI LERC/F I HURWITZ 12-Chemistry

NCC 3-383 Cleveland State University 6850
PHYSICAL AND CHEMICAL PROPERTIES AND SPACE-ENVIRONME
NT STABILITY OF NEW MATERIALS FOR SPACE POWER AND C
Period *Obligations*
01/01/1995-12/31/1995 FY95: \$108,379 TOTAL: \$108,379
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P D HAMBOURGER LERC/S KUTLEDGE 13-Physics

NCC 3-393 Cleveland State University 6851
DEVELOPMENT EVALUATION AND MODELING OF ADVANCED CE
RAMIC FIBERS FOR HIGH TEMPERATURE COMPOSITES
Period *Obligations*
01/23/1995-02/29/1996 FY95: \$103,072 TOTAL: \$103,072
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S N TEWARI LERC/R V MINER 47-Materials Engr

NCC 3-400 Cleveland State University 6852
CONTINURD DEVELOPMENT OF EXPERT SYSTEM TOOLS FOR N
PSS ENGINE DIAGNOSTICS
Period *Obligations*
03/01/1995-08/12/1996 FY95: \$32,547 TOTAL: \$32,547
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H LEWANDOWSKI LERC/G J FOLLEN 29-Math/Cmputer,NEC
LERC/R BLECH

NCC 3-403 Cleveland State University 6853
APPLICATION OF THIOETHER FOR VAPOR PHASE LUBRICATION
Period *Obligations*
02/22/1995-02/21/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E E GRAHAM LERC/W MORALES 41-Aero Engr

NCC 3-415 Cleveland State University 6854
DESIGN ANALYSIS AND MATERIAL MODELING FOR CERAMIC
MATRIX COMPOSITES
Period *Obligations*
05/23/1995-05/22/1996 FY95: \$91,245 TOTAL: \$91,245
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S F DUFFY LERC/N N NEMETH 46-Mech Engr

NCC 3-428 Cleveland State University 6855
PROTEIN CRYSTAL GROWTH AND TRANSPORT PHENOMENA
Period *Obligations*
08/24/1995-11/14/1996 FY95: \$70,970 TOTAL: \$70,970
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S N TEWARI LERC/T K GLASGOW 47-Materials Engr

NCC 3-433 Cleveland State University 6856
ANALYSIS OF THE USE OF SELECTED MODERN INDUSTRIAL
METHODS AND PROCESSES IN THE SCIENTIFIC ENVIRONMENT
Period *Obligations*
09/24/1995-09/30/1996 FY95: \$79,319 TOTAL: \$79,319
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D L KRAMEVICH LERC/J M MULLINS 46-Mech Engr

NGT 00-070-396 Cleveland State University 6857
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
09/13/1994-06/30/1995 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S MISRA HQ/D RUSSELL 22-Computer Science

NAG 3-1404 College of Wooster 6858
THE TURBIDITY OF A BINARY FLUID MIXTURE VERY CLOSE TO
THE CRITICAL POINT
Period *Obligations*
12/23/1992-12/31/1995 FY95: \$40,000 TOTAL: \$200,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D T JACOBS LERC/R A WILKINSON 13-Physics

NAG 3-313 Cuyahoga Community College 6859
PRE ENGINEERING PROGRAM
Period *Obligations*
07/30/1982-11/30/1994 FY95: TOTAL: \$280,630
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L NIRO LERC/L RHODES 49-Engr, NEC
E T RIVERA

NAG 3-1509 Cuyahoga Community College 6860
NEW APPROACH TO SELF ACHIEVEMENT-THE NASA PROJECT
Period *Obligations*
06/11/1993-07/31/1994 FY95: TOTAL: \$30,518
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S K BECKER LERC/D E LACY 99-Multi-Discip
LERC/J A CHARLESTON

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAG 3-1666 Cuyahoga Community College 6861
SCIENCE AND MATH PIPELINE
Period Obligations
10/01/1994-09/30/1995 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
J L JEFFERSON LERC/J STORTO 99-Multi-Discip

NAG 3-984 John Carroll University 6869
DEVELOPMENT WORK ON FIBEROPTIC SENSORS
Period Obligations
01/27/1989-08/31/1995 FY95: TOTAL: \$416,973
Prin. Invest. NASA Tech. Officer CASE Category
E J CAROME LERC/G ADAMOVSKY 13-Physics
J EHSTACE LERC/G SENG

NAG 3-1711 Cuyahoga Community College 6862
CENTER FOR URBAN EXCELLANCE - SCIECE, ENGINEERING
MATHEMATICS, AND AEROSPACE ACADEMY (SEMMA)
Period Obligations
02/21/1995-02/20/1996 FY95: \$548,600 TOTAL: \$548,600
Prin. Invest. NASA Tech. Officer CASE Category
C JOHNSON LERC/R L BONDURANT 99-Multi-Discip

NAG 3-946 Kent State University 6870
DEVELOPMENT OF SECONDARY ION MASS
Period Obligations
10/21/1988-11/22/1995 FY95: TOTAL: \$299,667
Prin. Invest. NASA Tech. Officer CASE Category
C V ABURTO LERC/I WEINBERG 13-Physics

NAG 3-1778 Cuyahoga Community College 6863
MENTOR INTERSHIP PARTNERSHIP PROGRAM
Period Obligations
08/16/1995-08/15/1996 FY95: \$17,492 TOTAL: \$17,492
Prin. Invest. NASA Tech. Officer CASE Category
R L MOSS LERC/F H YARRIS 41-Aero Engr

NAG 3-1693 Kent State University 6871
SELECTIVE EMITTERS FOR THERMOPHOTOVOLTIAC (TPV)— E
NERGY CONVERSION APPLICATION
Period Obligations
01/09/1995-01/08/1996 FY95: \$33,800 TOTAL: \$33,800
Prin. Invest. NASA Tech. Officer CASE Category
C VARGAS-ABURTO LERC/D L CHUBB 13-Physics
LERC/D J FLOOD

NCC 3-185 Cuyahoga Community College 6864
CCC/NASA LERC MENTOR INTERNSHIP/PARTNERSHIP
Period Obligations
09/18/1990-01/07/1996 FY95: TOTAL: \$68,780
Prin. Invest. NASA Tech. Officer CASE Category
B L CANEPARI LERC/F H YARRIS 41-Aero Engr

NAG 3-1710 Kent State University 6872
EXPERIMENTAL MODULE FOR SOLAR CELL CALIBRATION
Period Obligations
02/24/1995-08/23/1995 FY95: \$34,700 TOTAL: \$34,700
Prin. Invest. NASA Tech. Officer CASE Category
C VARGAS-ABURTO LERC/D J BRINKER 45-Elec Engr

NCC 3-323 Cuyahoga Community College 6865
CENTER FOR URBAN EXCELLENCE-SCIENCE, ENGINEERING M
ATHEMATICS AND AEROSPACE ACADEMY
Period Obligations
09/21/1993-09/30/1995 FY95: TOTAL: \$500,000
Prin. Invest. NASA Tech. Officer CASE Category
S CHAND LERC/R L BONDURANT 99-Multi-Discip

NAG 3-1726 Kent State University 6873
RADIATION EFFECTS ON PHOTOVOLTAIC MATERIALS
Period Obligations
04/01/1995-03/31/1996 FY95: \$11,800 TOTAL: \$11,800
Prin. Invest. NASA Tech. Officer CASE Category
C VARGAS-ABURTO LERC/G RYBICKI 13-Physics

NAGW 1765 Denison University 6866
LABORATORY SPECTROSCOPIC MEASUREMENTS OF THE
ABSORPTION
Period Obligations
06/14/1989-09/30/1996 FY95: \$75,290 TOTAL: \$385,760
Prin. Invest. NASA Tech. Officer CASE Category
M E MICKELSON HQ/J T BERGSTRALH 11-Astronomy

NAG 3-1751 Kent State University 6874
KSU/NASA SUMMER INSTITUTE IN SPACE SCIENCE FOR MID DLE
GRADE TEACHERS
Period Obligations
06/01/1995-05/31/1996 FY95: \$101,706 TOTAL: \$101,706
Prin. Invest. NASA Tech. Officer CASE Category
J D KELLER LERC/J STORTI 99-Multi-Discip
T KOONTZ
T KING

NCC 3-174 Heidelberg College 6867
CALCULATION OF REVISED NASA THERMAL COEFFICIENTS F OR
SELECTED SPECIES AT HIGH TEMPERATURE
Period Obligations
05/17/1990-06/30/1996 FY95: \$10,860 TOTAL: \$70,660
Prin. Invest. NASA Tech. Officer CASE Category
M A RENO LERC/B J MCBRIDE 19-Phys Sci, NEC

NCC 2-803 Kent State University 6875
EXPERIMENTAL TESTING OF TWISTED NEMATIC AND
SUPERTWISTED NEMATIC LIQUID CRYSTAL DISPLAYS
Period Obligations
05/21/1993-12/31/1994 FY95: TOTAL: \$77,918
Prin. Invest. NASA Tech. Officer CASE Category
J KELLY ARC/J LARIMER 13-Physics
O LAVRETOVICH

NAG 3-571 John Carroll University 6868
OPTICAL SENSORS FOR USE IN PROPULSION CONTROL SYSTEMS
Period Obligations
08/27/1984-03/16/1995 FY95: TOTAL: \$925,350
Prin. Invest. NASA Tech. Officer CASE Category
K FRITSCH LERC/G BEHEIM 45-Elec Engr

NCC 3-189 Kent State University 6876
CONTACT SENSOR ATTACHMENT TO TITANIUM METAL COMPOS
ITES (TMCS)
Period Obligations
11/27/1990-09/30/1995 FY95: TOTAL: \$244,000
Prin. Invest. NASA Tech. Officer CASE Category
C VARGAS-ABURTO LERC/N D PILTCH 47-Materials Engr
LERC/W D WILLIAMS

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NCC 3-222 Kent State University 6877
 PHYSICS OF HIGH TEMPERATURE SUPERCONDUCTING MATERIALS AND THEIR USE IN SPACE APPLICATIONS
Period *Obligations*
 12/16/1991-12/12/1995 FY95: TOTAL: \$377,387
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D L JOHNSON LERC/R F LEONARD 13-Physics

NCC 3-184 Lorain County Community College 6885
 LORAIN COUNTY COMMUNITY COLLEGE/LERC MENTOR INTERNSHIP/PARTNERSHIP
Period *Obligations*
 09/20/1990-09/15/1995 FY95: \$1 TOTAL: \$84,081
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J COLE LERC/F H YARRIS 41-Aero Engr

NCC 3-235 Kent State University 6878
 ROLE OF TELECOMMUNICATIONS TECHNOLOGIES AND SERVICES IN A RESEARCH ENVIRONMENT
Period *Obligations*
 11/15/1991-12/31/1994 FY95: TOTAL: \$49,988
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C M BAKES LERC/F N GOLDBERG 22-Computer Science
 LERC/R R SCHULTE

NCC 3-226 Lorain County Community College 6886
 AUGMENTATION OF MICROGRAVITY MATERIAL SCIENCE LABORATORY CAPABILITY
Period *Obligations*
 07/10/1991-06/30/1995 FY95: TOTAL: \$41,040
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J TOMSIC LERC/T K GLASGOW 48-Mech Engr

NCC 3-318 Kent State University 6879
 MOLECULAR-ENGINEERED MATERIALS FOR AEROSPACE APPLICATIONS
Period *Obligations*
 07/29/1993-07/23/1996 FY95: \$72,570 TOTAL: \$342,133
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C V ABURTO LERC/A F HEPP 19-Phys Sci, NEC
 D G HEHEMANN

NAGW 3783 Miami University 6887
 GRAVITROPISM AND GOLGI APPARATUS FUNCTION IN CHARA RHIZBIDS
Period *Obligations*
 10/01/1993-02/29/1996 FY95: TOTAL: \$75,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J KISS HQ/T W HALSTEAD 51-Biological Sci

NCC 3-394 Kent State University 6880
 INSTRUMENTATION FOR THE MEASUREMENT OF MARS MATERIALS PROPERTIES
Period *Obligations*
 02/06/1995-02/05/1996 FY95: \$79,000 TOTAL: \$79,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C VORGAS-ABURTO LERC/A F HEPP 45-Elec Engr

NAG 1-1058 Ohio State University 6888
 GENERAL SIMULATION OF HELICOPTERS AND INTERFACE TO ANTENNA PATTERN PREDICTION CODES
Period *Obligations*
 09/07/1989-01/31/1995 FY95: TOTAL: \$832,491
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E H NEWMAN LARC/G C BARBER 45-Elec Engr
 R G ROJAS LARC/M C GILREATH
 W D BURNSIDE

NGT 00-051-161 Kent State University 6881
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/22/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J POTTER HQ/P HUNTER 22-Computer Science

NAG 1-1357 Ohio State University 6889
 THERMAL CYCLING CREEP AND LIFE PREDICTION OF HIGH PERFORMANCE ALUMINUM-BASED METAL MATRIX FDP
Period *Obligations*
 11/20/1991-11/30/1994 FY95: TOTAL: \$132,488
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G S DAEHN LARC/W D BREWER 47-Materials Engr
 LARC/D M ROYSTER

NAGW 2143 Kenyon College 6882
 ROLE OF ION CHANNELS IN PLANT GRAVITROPISM AS A MODEL SYSTEM
Period *Obligations*
 06/06/1990-01/31/1995 FY95: TOTAL: \$155,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K L EDWARDS HQ/T W HALSTEAD 51-Biological Sci

NAG 1-1555 Ohio State University 6890
 NONLINEAR PROBLEMS IN BOUNDARY-LAYER RECEPMTVITY
Period *Obligations*
 11/24/1993-11/30/1994 FY95: TOTAL: \$42,213
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R J BODONYI LARC/M G MACARAEG 41-Aero Engr

NAG 3-1780 Lorain County Community College 6883
 LORAIN COMMUNITY COLLEGE/NASA LEWIS MENTOR INTERNSHIP PROGRAM
Period *Obligations*
 08/17/1995-09/14/1996 FY95: \$18,086 TOTAL: \$18,086
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G PILLAINAYAGAM LERC/F H YARRIS 41-Aero Engr

NAG 2-810 Ohio State University 6891
 DEVELOPMENT OF HUMAN-CENTERED AIRCRAFT AUTOMATION CONCEPTS
Period *Obligations*
 11/19/1992-03/31/1995 FY95: TOTAL: \$49,426
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C E BILLINGS ARC/J V LEBACQZ 69-Psych, NEC
 ARC/J A ALBERS

NAG 3-1788 Lorain County Community College 6884
 THE AUGMENTATION OF MICROGRAVITY MATERIAL SCIENCE LABORATORY CAPABILITY
Period *Obligations*
 09/22/1995-12/21/1995 FY95: \$8,496 TOTAL: \$8,496
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D PILLAINAYAGAM LERC/T GLASGOW 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAG 2-870 Ohio State University 6892
A PARALLEL IMPLEMENTATION OF THE FINITE ELEMENT METHOD FOR ELECTROMAGNETICS

<i>Period</i>	<i>Obligations</i>	
08/16/1993-06/30/1995	FY95:	TOTAL: \$149,997
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R LEE	ARC/A C WOO	45-Elec Engr
F OZGUNER	ARC/M J SCHUH	
J F LEE		

NAG 3-1415 Ohio State University 6899
CRYSTAL GROWTH AND FLUID MECHANICS PROBLEMS IN DIRECTIONAL SOLIDIFICATION

<i>Period</i>	<i>Obligations</i>	
12/23/1992-12/31/1995	FY95: \$70,000	TOTAL: \$210,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S TANVEER	LERC/A CHAIT	47-Materials Engr
	LERC/V PINES	

NAG 2-995 Ohio State University 6893
HUMAN CENTERED TECHNOLOGIES AND PROCEDURES FOR TRUE AIR TRAFFIC MANAGEMENT

<i>Period</i>	<i>Obligations</i>	
08/21/1995-09/30/1995	FY95: \$100,000	TOTAL: \$100,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P J SMITH	ARC/W T KRAMER	41-Aero Engr
D D WOODS	ARC/J M ORASANU	

NAG 3-1416 Ohio State University 6900
REVERSE MICELLE BASED SYNTHESIS OF MICROPOUROUS MATERIALS IN MICROGRAVITY

<i>Period</i>	<i>Obligations</i>	
12/29/1992-12/31/1995	FY95: \$115,000	TOTAL: \$352,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P K DUTTA	LERC/T K GLASGOW	47-Materials Engr
	LERC/P TIN	

NAG 3-764 Ohio State University 6894
EXPERIMENTAL STUDY OF ORGANIZED STRUCTURES IN A SUPERSONIC SHEAR LAYER

<i>Period</i>	<i>Obligations</i>	
11/26/1986-07/31/1995	FY95:	TOTAL: \$465,506
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M SAMIMY	LERC/K Q ZAMAN	46-Mech Engr
	LERC/C J MAREK	

NAG 3-1437 Ohio State University 6901
MODELING OF DIFFUSION IN LIQUID GE AND ITS ALLOYS

<i>Period</i>	<i>Obligations</i>	
01/19/1993-02/14/1996	FY95: \$38,500	TOTAL: \$114,233
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D G STROUD	LERC/T K GLASGOW	47-Materials Engr
	LERC/C R KROLIKOWSKI	

NAG 3-843 Ohio State University 6895
EFFECTS OF MAGNETIC NOZZLE CONFIGURATIONS

<i>Period</i>	<i>Obligations</i>	
12/02/1987-12/31/1995	FY95:	TOTAL: \$402,999
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T M YORK	LERC/M A MANTENIEKS	13-Physics
D S EMMER		

NAG 3-1440 Ohio State University 6902
PARALLELIZATION OF STRUCTURES CODES

<i>Period</i>	<i>Obligations</i>	
01/19/1993-03/31/1996	FY95: \$49,476	TOTAL: \$124,431
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F OZGUNER	LERC/G J FOLLEN	22-Computer Science
	LERC/R CLAUSS	

NAG 3-1058 Ohio State University 6896
JET NOISE PRODUCTION AND RADIATION

<i>Period</i>	<i>Obligations</i>	
07/07/1989-08/31/1994	FY95:	TOTAL: \$320,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J N SCOTT	LERC/E A KREJSA	41-Aero Engr
R J BODONYI	LERC/J F GROENEWEG	

NAG 3-1461 Ohio State University 6903
HYDROGEN PASSIVATION AND CHARACTERIZATION OF MISMATCH INDUCED DEFECTS OF HETEROEPITAXIAL INP SOLAR CELLS

<i>Period</i>	<i>Obligations</i>	
02/26/1993-07/20/1996	FY95: \$18,000	TOTAL: \$62,958
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S A RINGEL	LERC/I WEINBERG	45-Elec Engr

NAG 3-1108 Ohio State University 6897
CONSTITUTIVE PARAMETER MEASUREMENTS OF LOSSY MATERIALS

<i>Period</i>	<i>Obligations</i>	
01/09/1990-05/13/1995	FY95: \$102,018	TOTAL: \$848,324
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A K DOMINEK	LERC/C A STEARNS	49-Engr, NEC
	LERC/D R BEHRENDT	

NAG 3-1465 Ohio State University 6904
EXPERIMENTAL STUDIES OF HIGH POWER, HIGH PRESSURE PLASMA SOURCES

<i>Period</i>	<i>Obligations</i>	
03/17/1993-08/24/1996	FY95: \$188,473	TOTAL: \$388,473
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P J TURCHI	LERC/F M CURRAN	42-Astro Engr
	LERC/J M SANKOVIC	

NAG 3-1308 Ohio State University 6898
THERMAL PROBLEMS IN MATERIALS PROCESSING OF HIGH-TEMPERATURE COMPOSITES

<i>Period</i>	<i>Obligations</i>	
12/10/1991-09/21/1996	FY95: \$3,457	TOTAL: \$143,304
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S A KORPELA	LERC/A CHAIT	47-Materials Engr

NAG 3-1496 Ohio State University 6905
ELECTROMAGNETIC SCATTERED FIELD EVALUATION AND DATA COMPRESSION USING IMAGING TECHNIQUES

<i>Period</i>	<i>Obligations</i>	
06/02/1993-06/14/1996	FY95: \$17,994	TOTAL: \$269,974
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W D BURNSIDE	LERC/E RHO	45-Elec Engr

NAG 3-1497 Ohio State University 6906
IMAGING THE PROBE DATA OF WRDC'S ADVANCED COMPACT RANGE

<i>Period</i>	<i>Obligations</i>	
06/02/1993-12/31/1994	FY95:	TOTAL: \$24,538
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W D BURNSIDE	LERC/E RHO	45-Elec Engr
I J GUPTA		

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAGW 3677 Ohio State University 6939
 SATELLITE AND MODEL ANALYSIS OF THE ATMOSPHERIC MO
 ISTURE BUDGET
Period Obligations
 06/30/1993-04/30/1996 FY95: \$39,449 TOTAL: \$269,593
Prin. Invest. NASA Tech. Officer CASE Category
 D H BROMWICH HQ/R H THOMAS 39-Env Sci, NEC
 HQ/R A SCHIFFER

NAGW 4560 Ohio State University 6947
 HUMAN INTERACTION DESIGN FOR ANOMALY
Period Obligations
 06/02/1995-05/31/1996 FY95: \$60,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 D D WOODS HQ/G FOGLEMAN 99-Multi-Discip

NAGW 3730 Ohio State University 6940
 ROOT GRAVITROPISM IN MAIZE AND ARABIDOPSIS
Period Obligations
 09/03/1993-06/30/1995 FY95: TOTAL: \$125,000
Prin. Invest. NASA Tech. Officer CASE Category
 M L EVANS HQ/T W HALSTEAD 51-Biological Sci

NAGW 4606 Ohio State University 6948
 SPECTROSCOPY OF PROTOPLANETARY DISK
Period Obligations
 06/30/1995-06/30/1996 FY95: \$19,265 TOTAL: \$19,265
Prin. Invest. NASA Tech. Officer CASE Category
 J CARR HQ/P G ROGERS 11-Astronomy

NAGW 3933 Ohio State University 6941
 PRELIM ASSESSMENT OF PALEOCLIMATE RECS PRESERVED I N
 ICE CORES FROM FRANZ JOSEF LAND
Period Obligations
 04/08/1994-03/31/1995 FY95: TOTAL: \$42,057
Prin. Invest. NASA Tech. Officer CASE Category
 L THOMPSON HQ/R H THOMAS 39-Env Sci, NEC
 HQ/J S THEON

NAGW 4744 Ohio State University 6949
 RADARSAT: THE ANTARCTIC MAPPING PROJECT
Period Obligations
 09/25/1995-06/30/1998 FY95: \$2,200,000 TOTAL: \$2,200,000
Prin. Invest. NASA Tech. Officer CASE Category
 K C JEZEK HQ/M E MAIDEN 39-Env Sci, NEC

NAGW 3982 Ohio State University 6942
 MECHANISM OF PHYTOCHROME REGULATION OF SHOOT GRAVI
 TROPISM IN ARABIDOPSIS
Period Obligations
 05/10/1994-03/31/1995 FY95: TOTAL: \$82,000
Prin. Invest. NASA Tech. Officer CASE Category
 R HANGARTEN HQ/T W HALSTEAD 51-Biological Sci

NAS 3-26305 Ohio State University 6950
 COMPACT RANGE DESIGN
Period Obligations
 06/29/1991-10/30/1995 FY95: TOTAL: \$566,998
Prin. Invest. NASA Tech. Officer CASE Category
 W D BURNSIDE LERC/R R KUNATH 45-Elec Engr
 LERC/C A RAQUET

NAGW 4215 Ohio State University 6943
 SAR OBSERVATIONS OF THE POLAR ICE SHEETS
Period Obligations
 12/07/1994-08/31/1997 FY95: \$553,252 TOTAL: \$553,252
Prin. Invest. NASA Tech. Officer CASE Category
 K JEZEK HQ/R H THOMAS 39-Env Sci, NEC
 HQ/J S THEON

NAS 5-30946 Ohio State University 6951
 GLRS TEAM MEMBER SUPPORT TO THE EARTH OBSERVING
 SYSTEM (EOS) PROGRAM
Period Obligations
 12/18/1990-12/31/1995 FY95: \$105,000 TOTAL: \$249,779
Prin. Invest. NASA Tech. Officer CASE Category
 R H THOMAS GSFC/T W HAMILTON 31-Atmos Sci

NAGW 4275 Ohio State University 6944
 ADVANCE AERONAUTICS DESIGN PROGRAM
Period Obligations
 01/31/1995-09/30/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
 G M GREGOREK HQ/A S MCGEE 49-Engr, NEC
 HQ/G SEIDEL

NAS 5-32643 Ohio State University 6952
 A COMPREHENSIVE OPACITIES/ATOMIC DATABASE FOR THE
 ANALYSIS OF ASTROPHYSICAL SPECTRA AND MODELING
Period Obligations
 08/18/1994-09/17/1997 FY95: \$59,000 TOTAL: \$118,000
Prin. Invest. NASA Tech. Officer CASE Category
 A PRADHAN GSFC/D WEST 11-Astronomy

NAGW 4472 Ohio State University 6945
 RE-EVALUATION OF THE ROLE OF STARCH IN GRAVITROPIC
 SENSING
Period Obligations
 05/15/1995-02/14/1998 FY95: \$79,999 TOTAL: \$79,999
Prin. Invest. NASA Tech. Officer CASE Category
 F D SACK HQ/T K SCOTT 59-Life Sci, NEC

NAS 8-39930 Ohio State University 6953
 VPPA TORCH PERFORMANCE AND DESIGN ANALYSIS
Period Obligations
 03/29/1994-03/28/1996 FY95: TOTAL: \$192,195
Prin. Invest. NASA Tech. Officer CASE Category
 V SABRAMANIAM MSFC/C RUSSELL 47-Materials Engr

NAGW 4522 Ohio State University 6946
 CELLULAR SPECIFICITY IN ARABIDOPSIS ROOT GRAVITROPISM
Period Obligations
 05/30/1995-06/30/1998 FY95: \$94,650 TOTAL: \$94,650
Prin. Invest. NASA Tech. Officer CASE Category
 M L EVANS HQ/T K SCOTT 59-Life Sci, NEC

NCC 1-209 Ohio State University 6954
 COGNITIVE FACTORS IN THE INTERFACE BETWEEN FLIGHT CREWS
 AND MODERN FLIGHT DECK SYSTEMS
Period Obligations
 02/03/1995-02/02/1996 FY95: \$124,727 TOTAL: \$124,727
Prin. Invest. NASA Tech. Officer CASE Category
 D D WOODS LARC/K H ABBOTT 41-Aero Engr
 N B SARTER

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NCC 2-592	Ohio State University	6955		
COGNITIVE ENGINEERING IN AEROSPACE APPLICATIONS				
<i>Period</i>		<i>Obligations</i>		
03/13/1989-12/31/1995	FY95: \$98,766	TOTAL: \$861,342		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
D D WOODS	ARC/K CORKER	41-Aero Engr		
	ARC/B T SWEET			
NGT 00-051-193	Ohio State University	6963		
GRADUATE STUDENT RESEARCHERS PROGRAM				
<i>Period</i>		<i>Obligations</i>		
09/29/1993-08/31/1996	FY95: \$22,000	TOTAL: \$66,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
K ISHII	LERC/F MONTEGANI	46-Mech Engr		
NCC 2-830	Ohio State University	6956		
DISTRIBUTED AND COOPERATIVE PROBLEM-SOLVING IN THE NATIONAL AVIATION SYSTEM				
<i>Period</i>		<i>Obligations</i>		
10/19/1993-11/30/1995	FY95: \$68,213	TOTAL: \$134,363		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
P J SMITH	ARC/J M ORASANU	59-Life Sci, NEC		
NGT 00-051-237	Ohio State University	6964		
GRADUATE STUDENT RESEARCHERS PROGRAM				
<i>Period</i>		<i>Obligations</i>		
09/08/1994-08/31/1997	FY95:	TOTAL: \$21,500		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
R SINGH	LERC/F MONTEGANI	46-Mech Engr		
NGT 00-051-255	Ohio State University	6965		
GRADUATE STUDENT RESEARCHERS PROGRAM				
<i>Period</i>		<i>Obligations</i>		
06/14/1994-06/30/1997	FY95: \$22,000	TOTAL: \$44,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
T E NYGREN	LARC/L EVANS	62-Social Aspects		
NGT 00-051-281	Ohio State University	6966		
GRADUATE STUDENT RESEARCHERS PROGRAM				
<i>Period</i>		<i>Obligations</i>		
06/14/1994-09/30/1996	FY95: \$22,000	TOTAL: \$44,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
F SACK	HQ/G LESANE	51-Biological Sci		
NGT 00-070-349	Ohio State University	6967		
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM				
<i>Period</i>		<i>Obligations</i>		
08/12/1993-09/06/1996	FY95: \$44,000	TOTAL: \$66,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
S KORPELA	HQ/D K RUSSELL	46-Mech Engr		
NGS-1498	Ohio State University	6968		
ANALYSIS OF AIRBORNE ANTENNA PATTERNS				
<i>Period</i>		<i>Obligations</i>		
01/16/1978-07/31/1994	FY95:	TOTAL: \$1,097,889		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
W D BURNSIDE	LARC/M C GILREATH	45-Elec Engr		
R G ROJAS	LARC/C R COCKRELL			
NGT 00-050-668	Ohio State University	6960		
NASA GRADUATE STUDENT RESEARCHERS PROGRAM				
<i>Period</i>		<i>Obligations</i>		
09/11/1990-09/30/1993	FY95:	TOTAL: \$65,870		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
F D SACK	HQ/F C OWENS	51-Biological Sci		
NGT 00-050-945	Ohio State University	6961		
NASA GRADUATE STUDENT RESEARCHERS PROGRAM				
<i>Period</i>		<i>Obligations</i>		
07/01/1992-12/31/1994	FY95:	TOTAL: \$55,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
M SAMIMI	LERC/F MONTEGANI	46-Mech Engr		
NGT 00-051-072	Ohio State University	6962		
GRADUATE STUDENT RESEARCHERS PROGRAM				
<i>Period</i>		<i>Obligations</i>		
06/02/1993-06/30/1996	FY95: \$22,000	TOTAL: \$66,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
M R FOSTER	HQ/D A HOLLAND	41-Aero Engr		
NAG 1-1423	Ohio University	6970		
GPS INTERFEROMETRY				
<i>Period</i>		<i>Obligations</i>		
04/06/1992-03/31/1996	FY95:	TOTAL: \$645,279		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
F VAN GRAAS	LARC/R M HUESCHEN	49-Engr, NEC		

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAG 8-217 **Ohio University** **6971**
COMPUTERIZED DESIGN OF CONTROLLERS USING DATA MODELS
Period *Obligations*
02/21/1992-04/20/1995 FY95: TOTAL: \$135,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D IRWIN MSFC/A P BUKLEY 49-Engr, NEC
J R MITCHELL MSFC/M BUTLER

NAG 3-379 **University of Akron** **6978**
MULTIAXIAL STRUCTURAL BEHAVIOR OF HIGH TEMPERATURE MATERIALS
Period *Obligations*
12/02/1982-11/07/1994 FY95: TOTAL: \$950,029
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D N ROBINSON LERC/S M ARNOLD 41-Aero Engr
J R ELLIS

NAG 8-1041 **Ohio University** **6972**
ENHANCEMENTS TO THE SSME TRANSFER FUNCTION MODEL ING CODE
Period *Obligations*
03/16/1994-03/05/1996 FY95: \$65,164 TOTAL: \$96,376
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R D IRWIN MSFC/T H FOX 46-Mech Engr
J R MITCHELL

NAG 3-901 **University of Akron** **6979**
FINITE ELEMENT IMPLEMENTATION AND COMPUTATIONAL TECHNIQUES
Period *Obligations*
04/28/1988-12/31/1995 FY95: TOTAL: \$395,870
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T P CHANG LERC/S M ARNOLD 41-Aero Engr
T Y CHANG

NCC 2-827 **Ohio University** **6973**
DISTRIBUTED AND COOPERATIVE PROBLEM-SOLVING IN THE NATIONAL AVIATION SYSTEM
Period *Obligations*
09/20/1993-01/14/1996 FY95: \$63,720 TOTAL: \$127,440
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C E MCCOY ARC/J M ORASANU 59-Life Sci, NEC
P J SMITH

NAG 3-969 **University of Akron** **6980**
EXPERIMENTAL AND ANALYTICAL STUDY OF BRUSH SEALS
Period *Obligations*
12/29/1988-06/09/1996 FY95: TOTAL: \$308,748
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J BRAUN LERC/G BOBULA 46-Mech Engr
LERC/R C HENDRICKS

NCC 3-430 **Ohio University** **6974**
HIGH PERFORMANCE TCP/IP APPLICATIONS FOR USE OVER FAST SATELLITE COMMUNICATIONS CHANNELS
Period *Obligations*
09/19/1995-09/30/1996 FY95: \$57,027 TOTAL: \$57,027
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H KRUSE LERC/R J SCHERTLER 49-Engr, NEC

NAG 3-1047 **University of Akron** **6981**
OPTIMAL SPIRAL BEVEL TRANSMISSION DESIGN
Period *Obligations*
05/17/1989-11/05/1994 FY95: TOTAL: \$247,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M SAVAGE LERC/H H COE 46-Mech Engr

NAG 3-1146 **University of Akron** **6982**
HIERARCHICAL PARTITIONING OF GLOBAL CONTROLLERS
Period *Obligations*
02/27/1990-01/25/1995 FY95: TOTAL: \$155,413
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P H SCHMIDT LERC/P J OUZTS 21-Mathematics
LERC/C F LORENZO

NGR36-9017 **Ohio University** **6975**
AIR TRANSPORTATION PROBLEMS WITH EMPHASIS ON GENERAL AVIATION AVIONICS \$50,000
Period *Obligations*
02/26/1971-04/30/1995 FY95: TOTAL: \$1,950,691
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R H MCFARLAND LARC/F R MORRELL 45-Elec Engr
LARC/W H BRYANT

NAG 3-1189 **University of Akron** **6983**
MINORITY ENGINEERING PROGRAM
Period *Obligations*
06/21/1990-07/22/1994 FY95: TOTAL: \$91,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B MCCLAIN LERC/R F LAWRENCE 99-Multi-Discip
P LAM

NGT 00-050-863 **Ohio University** **6976**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
01/03/1992-08/31/1994 FY95: TOTAL: \$58,226
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F C HAGERMAN KSC/B MARTIN 39-Env Sci, NEC
G A DUDLEY

NAG 3-1223 **University of Akron** **6984**
DAMAGE MECHANICS CONTROLLED BY THE INTERACTION OF MICROCRACKS IN THE INTERPHASE OF MMC AND BMC
Period *Obligations*
11/28/1990-02/05/1996 FY95: \$55,000 TOTAL: \$256,003
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W K BINIENDA LERC/S M ARNOLD 41-Aero Engr

NAG 1-448 **University of Akron** **6977**
SYNTHESIS AND CHARACTERIZATION OF THERMALLY-STABLE SOLVENT/IMPACT RESISTANT THERMOPLASTIC POLYIMIDES
Period *Obligations*
02/13/1984-03/31/1996 FY95: \$55,000 TOTAL: \$979,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F W HARRIS LARC/P M HERGENROTHER 12-Chemistry
LARC/B J JENSEN

NAG 3-1289 **University of Akron** **6985**
COMPRESSIVE PROPERTIES AND INTERFACE OF CARBON FIBERS FOR ADVANCED COMPOSITES
Period *Obligations*
06/28/1991-02/07/1996 FY95: \$20,080 TOTAL: \$115,079
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R K EBY LERC/K J BOWLES 47-Materials Engr
LERC/G D ROBERTS

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAG 3-1350 University of Akron 6986
 DESIGN OPTIMIZATION OF STRUCTURAL COMPONENTS FOR THE SPACE STATION FREEDOM IN DYNAMIC REGIME
Period Obligations
 05/19/1992-03/24/1994 FY95: TOTAL: \$95,149
Prin. Invest. NASA Tech. Officer CASE Category
 T Y CHANG LERC/L BERKE 42-Astro Engr
 LERC/D A HOPKINS

NAG 3-1498 University of Akron 6993
 MODELING AND STRUCTURE-PROPERTY RELATIONSHIPS OF POLYIMIDE THERMOSETTING RESINS
Period Obligations
 05/26/1993-02/05/1996 FY95: \$26,090 TOTAL: \$66,040
Prin. Invest. NASA Tech. Officer CASE Category
 F N KELLEY LERC/G D ROBERTS 47-Materials Engr
 V GALIATSATOS

NAG 3-1361 University of Akron 6987
 EXPERIMENTAL INVESTIGATION OF ROTATING CYLINDRICAL SEAL CONFIGURATIONS FOR NUMERICAL CODE VALIDATION
Period Obligations
 07/10/1992-12/14/1994 FY95: TOTAL: \$65,381
Prin. Invest. NASA Tech. Officer CASE Category
 M J BRAUN LERC/A D LIANG 46-Mech Engr
 F K CHOY LERC/R C HENDRICKS

NAG 3-1544 University of Akron 6994
 ACTIVE ROTOR BLADE TIP CLEARANCE CONTROL - PHASE I
Period Obligations
 10/18/1993-12/31/1994 FY95: TOTAL: \$33,951
Prin. Invest. NASA Tech. Officer CASE Category
 Y J LIN LERC/B B CHOI 46-Mech Engr

NAG 3-1366 University of Akron 6988
 NUMERICAL AND EXPERIMENTAL STUDIES ON FOIL BEARINGS COUPLING OF THERMAL AND DYNAMIC NON-LINEAR EFFECTS
Period Obligations
 09/14/1992-09/30/1994 FY95: TOTAL: \$102,784
Prin. Invest. NASA Tech. Officer CASE Category
 M J BRAUN LERC/J F WALKER 46-Mech Engr
 F K CHOY

NAG 3-1547 University of Akron 6995
 AN EXPERIMENTAL AND NUMERICAL INVESTIGATION OF THE FLOW PATTERNS, PRESSURE DROPS AND FLOW COEFFICIENTS
Period Obligations
 11/26/1993-11/30/1995 FY95: TOTAL: \$56,570
Prin. Invest. NASA Tech. Officer CASE Category
 M J BRAUN LERC/J F WALKER 46-Mech Engr

NAG 3-1376 University of Akron 6989
 DEVELOPMENT OF A MODEL BASED TECHNIQUE FOR GEAR DIAGNOSTICS USING THE WIGNER-VILLE METHOD
Period Obligations
 10/30/1992-12/07/1996 FY95: \$60,000 TOTAL: \$179,999
Prin. Invest. NASA Tech. Officer CASE Category
 F K CHOY LERC/J J ZAKRAJSEK 46-Mech Engr

NAG 3-1551 University of Akron 6996
 APPLICATIONS OF PARALLEL COMPUTATION IN MICRO-MECHANICS AND FINITE ELEMENT METHOD
Period Obligations
 12/02/1993-02/05/1996 FY95: \$20,116 TOTAL: \$100,103
Prin. Invest. NASA Tech. Officer CASE Category
 H TAN LERC/S M ARNOLD 41-Aero Engr

NAG 3-1450 University of Akron 6990
 INTERDISCIPLINARY RESEARCH IN COMPUTATIONAL FLUID DYNAMICS AND CONTROL SYSTEMS
Period Obligations
 02/10/1993-01/31/1996 FY95: \$67,284 TOTAL: \$192,669
Prin. Invest. NASA Tech. Officer CASE Category
 T T HARTLEY LERC/K J MELCHER 41-Aero Engr
 LERC/C F LORENZO

NAG 3-1553 University of Akron 6997
 DURABILITY AND LIFE PREDICTION MODELING IN POLYIMIDE COMPOSITES
Period Obligations
 12/17/1993-08/31/1995 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 W K BINIERDA LERC/G D ROBERTS 47-Materials Engr
 LERC/K BOWLES

NAG 3-1491 University of Akron 6991
 UTILIZATION OF THE FRACTIONAL CALCULUS IN CONTROL ENGINEERING
Period Obligations
 04/26/1993-12/20/1995 FY95: \$31,005 TOTAL: \$100,839
Prin. Invest. NASA Tech. Officer CASE Category
 T T HARTLEY LERC/C F LORENZO 49-Engr, NEC

NAG 3-1746 University of Akron 6998
 ALGORITHMS FOR PARAMETER ESTIMATION IN VISCOPLASTIC MATERIAL MODELS
Period Obligations
 05/19/1995-11/18/1995 FY95: \$70,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
 A F SALEEB LERC/S M ARNOLD 41-Aero Engr

NAG 3-1493 University of Akron 6992
 STATE-VARIABLES INTEGRATORS IN COMPUTATIONAL VISCOPLASTICITY
Period Obligations
 04/21/1993-12/31/1994 FY95: TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
 A F SALEEB LERC/S M ARNOLD 41-Aero Engr

NAG 3-1747 University of Akron 6999
 DEVELOPMENTS IN COUPLED DEFORMATION-DAMAGE AND FRACTURE MODELING FOR LIFE PREDICTIONS OF STRUCTURES
Period Obligations
 05/19/1995-01/18/1996 FY95: \$74,398 TOTAL: \$74,398
Prin. Invest. NASA Tech. Officer CASE Category
 A F SALEEB LERC/S M ARNOLD 41-Aero Engr

NAS 3-27318 University of Akron 7000
 PREPARATION AND EVALUATION OF ADVANCED ORGANIC FIBERS FOR HIGH TEMPERATURE APPLICATION
Period Obligations
 05/12/1994-06/12/1995 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 F W HARRIS LERC/C H CHUANG 47-Materials Engr
 S D CHENG

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NCC 3-104 University of Akron 7001
SUPPORT MICROGRAV MATERIALS SCIENCE
Period Obligations
12/11/1987-05/01/1996 FY95: \$148,398 TOTAL: \$1,555,617
Prin. Invest. NASA Tech. Officer CASE Category
G W YOUNG LERC/G P ROBERTS 47-Materials Engr
S I HARIHARAN LERC/T K GLASGOW

NCC 3-335 University of Akron 7009
ELEVATED TEMPERATURE IMPACT TESTING OF FAN CONTAINMENT MATERIAL/STRUCTURAL CONCEPTS
Period Obligations
01/24/1994-01/23/1995 FY95: TOTAL: \$39,451
Prin. Invest. NASA Tech. Officer CASE Category
E D VON MEERWALL LERC/J M PEREIRA 13-Physics

NCC 3-164 University of Akron 7002
PULSED NMR AND DIFFUSION STUDIES IN HIGH TEMPERATURE STRUCTURAL POLYMERS AND COMPOSITES
Period Obligations
01/29/1990-12/31/1995 FY95: TOTAL: \$124,238
Prin. Invest. NASA Tech. Officer CASE Category
E D VON MEERWALL LERC/G D ROBERTS 13-Physics

NCC 3-368 University of Akron 7010
COMPUTATIONAL TOOLS AND TECHNIQUES FOR THE MACRO/MICROMECHANICAL ANALYSIS OF COMPOSITES STRUCTURE
Period Obligations
11/01/1994-10/31/1995 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
A F SALEEB LERC/S M ARNOLD 41-Aero Engr

NCC 3-178 University of Akron 7003
APPLICATION OF UPWIND PARABOLIZED NAVIER-STOKES CODE TO AIRCRAFT PROPULSION SYSTEMS
Period Obligations
07/05/1990-11/30/1993 FY95: TOTAL: \$181,645
Prin. Invest. NASA Tech. Officer CASE Category
B P LEONARD LERC/M S LIU 41-Aero Engr
S MOKHTARI

NCC 3-375 University of Akron 7011
DEVELOPMENT OF LIFE PREDICTION METHODOLOGY AND EFFICIENT FINITE ELEMENT ANALYSIS TECH FOR APPL. AEROSP
Period Obligations
12/01/1994-01/08/1996 FY95: \$109,361 TOTAL: \$109,361
Prin. Invest. NASA Tech. Officer CASE Category
D C BUCHTHAL LERC/G R HALFORD 49-Engr, NEC

NCC 3-188 University of Akron 7004
3-D FEM SIM OF DELAMIN PROG IN CROSS-PLY GRAPH-POL LAM INIT BY TRANSV CRACKS IN 90 LAYER
Period Obligations
10/24/1990-08/31/1994 FY95: TOTAL: \$89,490
Prin. Invest. NASA Tech. Officer CASE Category
W K BINIENDA LERC/G D ROBERTS 47-Materials Engr

NGT 00-051-182 University of Akron 7012
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/02/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
M ELBULUK LERC/F MONTEGANI 45-Elec Engr

NCC 3-209 University of Akron 7005
MULTIVARIABLE ADAPTATIVE CONTROL OF INTERFACE FOR PROGRAMMABLE MULTIZONE CRYSTAL GROWTH FURNACE
Period Obligations
02/27/1991-01/31/1996 FY95: TOTAL: \$152,612
Prin. Invest. NASA Tech. Officer CASE Category
C BATUR LERC/B N ROSENTHAL 47-Materials Engr
LERC/T K GLASGOW

NGT 00-070-235 University of Akron 7013
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period Obligations
07/15/1991-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
R K EBY HQ/F C OWENS 47-Materials Engr

NCC 3-225 University of Akron 7006
ORGANOMETALLIC POLYMERIC CONDUCTORS
Period Obligations
06/28/1991-01/08/1996 FY95: \$87,236 TOTAL: \$433,132
Prin. Invest. NASA Tech. Officer CASE Category
W J YOUNGS LERC/M A MEADOR 12-Chemistry

NAG 1-1280 University of Cincinnati 7014
STRUCTURAL SIMILITUDE AND SCALING LAWS - FDP
Period Obligations
06/12/1991-06/03/1996 FY95: \$55,482 TOTAL: \$258,255
Prin. Invest. NASA Tech. Officer CASE Category
G J SIMITSES LARC/J H STARNES 41-Aero Engr

NCC 3-283 University of Akron 7007
SHOCK POSITION SENSING: THEORY, EXPERIMENT AND DESIGN
Period Obligations
11/17/1992-12/31/1996 FY95: \$54,700 TOTAL: \$162,671
Prin. Invest. NASA Tech. Officer CASE Category
S I HARIHARAN LERC/G ADAUIOVSKY 45-Elec Engr

NAG 1-1418 University of Cincinnati 7015
VIBRATION ISOLATION FOR FLEXIBLE SPACE STRUCTURES: A ZERO-BASED APPROACH
Period Obligations
04/24/1992-04/26/1995 FY95: TOTAL: \$97,804
Prin. Invest. NASA Tech. Officer CASE Category
T WILLIAMS LARC/P G MAGHAMI 42-Astro Engr

NCC 3-314 University of Akron 7008
MICROEMULSION ROUTE TO MODIFIED MICROPOROUS CERAMIC MATERIALS: PROOF OF PRINCIPLE EXPERIMENTS
Period Obligations
07/16/1993-10/14/1994 FY95: TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
H M CHEUNG LERC/L A GREENBUER-SENG 47-Materials Engr

NAG 1-1553 University of Cincinnati 7016
RNS APPLICATIONS FOR INTERNAL INTERACTING SUBSONIC AND SUPERSONIC FLOWS NLPN 93-833
Period Obligations
11/19/1993-11/18/1995 FY95: TOTAL: \$59,497
Prin. Invest. NASA Tech. Officer CASE Category
S G RUBIN LARC/J J KORTE 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAG 3-1757 University of Cincinnati 7032
 FABRICATION AND CHARACTERIZATION OF A LONG WAVE LENGTH
 INP HBT-BASED OPTICAL RECEIVER
Period Obligations
 06/16/1995-06/15/1996 FY95: \$80,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 K P ROENKER LERC/R R KUNATH 45-Elec Engr

NAGW 3307 University of Cincinnati 7040
 NAGW-3307/UNIV CINCINNATI/ORDOVICIAN BIODIVERSITY:
 GEOGRAPHY AND ENVIRONMENT
Period Obligations
 12/31/1992-08/31/1995 FY95: TOTAL: \$101,893
Prin. Invest. NASA Tech. Officer CASE Category
 A MILLER HQ/J D RUMMEL 32-Geological Sci

NAG 3-1765 University of Cincinnati 7033
 EMERGING ETHNIC ENGINEERS PROGRAM
Period Obligations
 07/07/1995-07/06/1996 FY95: \$83,000 TOTAL: \$83,000
Prin. Invest. NASA Tech. Officer CASE Category
 E N PRATHER LERC/S A MERRITT 99-Multi-Discip
 LERC/J E BOYD

NAGW 4304 University of Cincinnati 7041
 SPACE ADVANCED DESIGN PROGRAM
Period Obligations
 02/22/1995-10/31/1995 FY95: \$26,340 TOTAL: \$26,340
Prin. Invest. NASA Tech. Officer CASE Category
 L COOPER HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NAG 3-1774 University of Cincinnati 7034
 OPTICAL WAVEGUIDE SENSORS FOR WIND TUNNEL INSTRUMENTATION
Period Obligations
 08/03/1995-08/02/1996 FY95: \$140,000 TOTAL: \$140,000
Prin. Invest. NASA Tech. Officer CASE Category
 J T BOYD LERC/G BEHEIM 49-Engr, NEC

NCA 2-734 University of Cincinnati 7042
 INVESTIGATION OF ON-LINE VIBRATION PARAMETER ESTIMATION
 SCHEMES
Period Obligations
 08/03/1992-02/28/1994 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J ALLEMANG ARC/L C FREUDINGER 46-Mech Engr
 S J SHELLEY

NAG 9-717 University of Cincinnati 7035
 REDUCTION ON ORBIT DATA FOR MASS PROPERTIES DETERMINATION
Period Obligations
 09/28/1993-09/01/1994 FY95: TOTAL: \$15,958
Prin. Invest. NASA Tech. Officer CASE Category
 T W WILLIAMS JSC/S H GOLDSTEIN 41-Aero Engr

NCA 2-831 University of Cincinnati 7043
 IDENTIFICATION OF CLOSED LOOP FEEDBACK MODELS
Period Obligations
 07/15/1993-08/31/1994 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 S J SHELLEY ARC/L C FREUDINGER 41-Aero Engr
 A W PHILLIPS

NAG 9-766 University of Cincinnati 7036
 ANALYSIS OF SAFER ON ORBIT DATA/EVA MANEUVERING SYSTEMS
Period Obligations
 09/27/1994-06/30/1995 FY95: TOTAL: \$16,164
Prin. Invest. NASA Tech. Officer CASE Category
 T WILLIAMS JSC/C HESS 42-Astro Engr

NCC 1-181 University of Cincinnati 7044
 PARAMETER IDENTIFICATION FOR NONLINEAR AIRCRAFT
 DYNAMICS BY EXTENDED KALMAN FILTER METHODS
Period Obligations
 06/25/1993-06/13/1994 FY95: TOTAL: \$31,894
Prin. Invest. NASA Tech. Officer CASE Category
 B K WALKER LARC/P C MURPHY 41-Aero Engr

NAG 9-799 University of Cincinnati 7037
 TECHNIQUES FOR IMPROVING PERFORMANCE OF FUTURE EVA
 MANEUVERING SYSTEM
Period Obligations
 06/15/1995-12/01/1995 FY95: \$29,933 TOTAL: \$29,933
Prin. Invest. NASA Tech. Officer CASE Category
 T WILLIAMS JSC/C HESS 41-Aero Engr

NCC 2-669 University of Cincinnati 7045
 ADVANCED TRAJECTORY ANALYSIS WITH APPLICATION TO AIR
 TRAFFIC CONTROL
Period Obligations
 05/25/1990-10/31/1995 FY95: \$38,332 TOTAL: \$183,913
Prin. Invest. NASA Tech. Officer CASE Category
 G L SLATER ARC/H N SWENSON 41-Aero Engr
 ARC/H ERZBERGER

NAGW 1407 University of Cincinnati 7038
 UNIVERSITY SPACE ENGINEERING RESEARCH CENTER
Period Obligations
 08/17/1988-03/31/1996 FY95: \$358,925 TOTAL: \$8,314,849
Prin. Invest. NASA Tech. Officer CASE Category
 L M GALES HQ/S C HARTMAN 49-Engr, NEC

NCC 2-5096 University of Cincinnati 7046
 DEVELOPMENT OF A VORTICITY-VELOCITY NAVIER-STOKES
 FORMULATION FOR THE STUDY OF COMPRESSIBILITY EFFECTS
Period Obligations
 08/18/1994-02/29/1996 FY95: TOTAL: \$28,572
Prin. Invest. NASA Tech. Officer CASE Category
 K N GHIA ARC/D KWAK 41-Aero Engr
 U GHIA ARC/S E ROGERS

NAGW 3230 University of Cincinnati 7039
 NAGW-3230/UNIV CINCINNATI/ASTRONOMY IN THE CLASSROOM II
Period Obligations
 11/02/1992-07/31/1994 FY95: TOTAL: \$4,851
Prin. Invest. NASA Tech. Officer CASE Category
 M L SITKO HQ/L LAPIANA 11-Astronomy
 HQ/G P NEWTON

NCC 3-33 University of Cincinnati 7047
 III-V COMPOUND SEMICONDUCTOR TECHNOLOGY
Period Obligations
 08/02/1983-03/31/1995 FY95: TOTAL: \$844,261
Prin. Invest. NASA Tech. Officer CASE Category
 V J KAPOOR LERC/J POUCH 19-Phys Sci, NEC
 J E DICKMAN LERC/R F LEONARD

NASA'S UNIVERSITY PROGRAM

OHIO (Continued)

NCC 3-252 University of Cincinnati 7048
 DESIGN AND DEVELOPMENT OF AN INTEGRATED OEIC RECEIVE R
 FOR A PHASED ARRAY ANTENNA
Period Obligations
 02/28/1992-09/30/1995 FY95: TOTAL: \$266,967
Prin. Invest. NASA Tech. Officer CASE Category
 K P ROENKER LERC/R R KUNATH 45-Elec Engr

NCC 3-282 University of Cincinnati 7049
 NON-INTRUSIVE SPRAY COMBUSTION MEASUREMENTS
Period Obligations
 11/19/1992-11/03/1995 FY95: \$10,520 TOTAL: \$74,376
Prin. Invest. NASA Tech. Officer CASE Category
 S JENG LERC/D L BULZAN 41-Aero Engr

NCC 3-308 University of Cincinnati 7050
 ARTIFICIAL NEURAL NETWORK BASED MODELS FOR SSME SE NSOR
 VALIDATION
Period Obligations
 06/14/1993-11/02/1994 FY95: TOTAL: \$20,085
Prin. Invest. NASA Tech. Officer CASE Category
 P DHAWAN LERC/J F ZAKRAJSEK 49-Engr, NEC

NCCW 35 University of Cincinnati 7051
 TANK PRESSURE/NCCW35
Period Obligations
 02/16/1994-01/31/1996 FY95: \$157,363 TOTAL: \$199,888
Prin. Invest. NASA Tech. Officer CASE Category
 J M ALBAYYARI HQ/M NALL 13-Physics

NGT 00-010-014 University of Cincinnati 7052
 NGT-10014/UNIV CINCINNATI; AEROSPACE ENGINEERING C
 URRICULUM FOR THE 21ST CENTURY
Period Obligations
 11/17/1993-09/30/1995 FY95: \$25,000 TOTAL: \$49,999
Prin. Invest. NASA Tech. Officer CASE Category
 G J SIMITSES HQ/E T SCHWARTZ 49-Engr, NEC

NGT 00-010-021 University of Cincinnati 7053
 NGT-10021/UNIV CINCINNATI/MULTIDISCIPLINARY DESIGN AND
 ANALYSIS FELLOWSHIP PROGRAM
Period Obligations
 12/02/1993-03/31/1994 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 A HAMED HQ/G S SEIDEL 41-Aero Engr
 HQ/J R FACEY

NGT 00-010-031 University of Cincinnati 7054
 A TRAINING PROPOSAL FOR UNIVERSITY SPACE ENGINEERIN G
 RESEARCH CENTER GRADUATE STUDENTS
Period Obligations
 12/16/1994-09/30/1997 FY95: \$226,038 TOTAL: \$226,038
Prin. Invest. NASA Tech. Officer CASE Category
 L P COOPER HQ/T R BRUNEEL 43-Chem Engr

NGT 00-030-321 University of Cincinnati 7055
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/10/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 S ISLAM HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-326 University of Cincinnati 7056
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/05/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 S ISLAM HQ/G ASRAR 31-Atmos Sci
 HQ/R A SCHIFFER

NGT 00-050-712 University of Cincinnati 7057
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/13/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 N GAYARAMAN HQ/F C OWENS 47-Materials Engr

NGT 00-050-982 University of Cincinnati 7058
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/11/1992-06/30/1995 FY95: \$11,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R Y LIN LERC/F MONTEGANI 47-Materials Engr

NGT 00-051-202 University of Cincinnati 7059
 GRAD STUDENT RESEARCHERS PROGRAM
Period Obligations
 04/25/1994-06/30/1995 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 S M JENG MSFC/F SIX 41-Aero Engr

NGT 00-051-234 University of Cincinnati 7060
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/07/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 V J KAPOOR LERC/F MONTEGANI 45-Elec Engr

NGT 00-051-320 University of Cincinnati 7061
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/08/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 B WALKER LERC/F MONTEGANI 41-Aero Engr

NGT 00-051-367 University of Cincinnati 7062
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 S A KHAN HQ/G LESANE 51-Biological Sci

NGT 00-070-168 University of Cincinnati 7063
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/06/1990-05/31/1994 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 S G RUBIN HQ/F C OWENS 45-Elec Engr

NGT 00-070-278 University of Cincinnati 7064
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/11/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S G RUBIN LERC/F MONTEGANI 42-Astro Engr

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NGT 2-52205 University of Cincinnati 7065
THE DEPARTURE PROBLEM IN AIR TRAFFIC MANAGEMENT:
ANALYSIS CONTROL STRATEGIES AND IMPLEMENTATION
Period Obligations
09/14/1995-08/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
G L SLATER ARC/H N SWENSON 99-Multi-Discip
M A BOLENDER ARC/H ERZBERGER

NAG 3-72 University of Toledo 7073
NUMERICAL SIMULATION OF INTERNAL HEAT TRANSFERS
PHENOMENA OCCURRING DURING DEICING OF AIRCRAFT COMPO
Period Obligations
05/06/1980-01/17/1996 FY95: TOTAL: \$626,577
Prin. Invest. NASA Tech. Officer CASE Category
K J DEWITT LERC/M VARGAS 41-Aero Engr
T G KEITH LERC/J J REINMANN

NGT 8-52801 University of Cincinnati 7066
GRADSTUDENT RESEARCH PROGRAM
Period Obligations
07/28/1995-07/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
K N GHIA MSFC/P K MCCONNAUGHEY 41-Aero Engr

NAG 3-577 University of Toledo 7074
FLUID PHYSICS PHENOMENA OF RESISTOJET THRUSTERS
Period Obligations
10/02/1984-12/31/1995 FY95: TOTAL: \$271,000
Prin. Invest. NASA Tech. Officer CASE Category
K J DEWITT LERC/W E MORREN 19-Phys Sci, NEC
T G KEITH LERC/P F PENKO

NAG 1-1327 University of Dayton 7067
DETERMINATION OF OPERATIONAL AND SUPPORT REQUIRE-
MENTS AND COSTS DURING CONCEPTUAL DESIGN OF SPACE
Period Obligations
07/26/1991-12/31/1996 FY95: \$99,838 TOTAL: \$312,111
Prin. Invest. NASA Tech. Officer CASE Category
C E EBELING LARC/W D MORRIS 49-Engr, NEC

NAG 3-742 University of Toledo 7075
OPTIMIZATION OF PROPFAN BLADES WITH DYNAMIC
CONSTRAINTS
Period Obligations
08/25/1986-12/31/1993 FY95: TOTAL: \$376,574
Prin. Invest. NASA Tech. Officer CASE Category
T G KEITH LERC/G L STEFKO 41-Aero Engr
D V MURTHY LERC/L J KIRALY

NAG 3-1391 University of Dayton 7068
EVAPORATION FROM A MENISCUS WITHIN A CAPILLARY TUB E IN
MICROGRAVITY
Period Obligations
12/23/1992-11/30/1995 FY95: \$247,133 TOTAL: \$579,957
Prin. Invest. NASA Tech. Officer CASE Category
K P HALLINAN LERC/R L THOMPSON 19-Phys Sci, NEC
J ERVIN

NAG 3-799 University of Toledo 7076
A DIGITALLY IMPLEMENTED MULTICARRIER DEMODULATOR
Period Obligations
05/17/1989-09/17/1995 FY95: TOTAL: \$471,154
Prin. Invest. NASA Tech. Officer CASE Category
S C KWATRA LERC/J M BUDINGER 45-Elec Engr
M M JAMALI LERC/J L HARROLD

NAG 9-600 University of Dayton 7069
COLLECTION AND PROCESSING OF DAMAGE TOLERANT DESIG N
DATA FOR NON-AEROSPACE STRUCTURAL MATERIALS
Period Obligations
06/01/1992-06/01/1994 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
J P GALLAGHER JSC/R G FORMAN 46-Mech Engr

NAG 3-1068 University of Toledo 7077
ADV MOD FOR AEROELAST ANALY OF PROP SYS
Period Obligations
08/22/1989-06/10/1994 FY95: TOTAL: \$335,195
Prin. Invest. NASA Tech. Officer CASE Category
T G KEITH LERC/G L STEFKO 41-Aero Engr
A J MAHAJAN LERC/L J KIRALY

NAS 5-31661 University of Dayton 7070
VERIFICATION AND ANALYSIS OF UPPER ATMOSPHERIC DATA
Period Obligations
11/01/1989-10/31/1994 FY95: TOTAL: \$595,189
Prin. Invest. NASA Tech. Officer CASE Category
J K LUERS GSFC/F J SCHMIDLIN 31-Atmos Sci

NAG 3-1137 University of Toledo 7078
AEROELASTIC STABILITY AND RESPONSE OF ROTATING STRUC-
TURES
Period Obligations
01/29/1990-11/07/1995 FY95: \$90,499 TOTAL: \$459,340
Prin. Invest. NASA Tech. Officer CASE Category
T G KEITH JR LERC/ 41-Aero Engr
T S REDDY
M A BAKHLE

NGT 00-051-089 University of Dayton 7071
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/02/1993-06/30/1996 FY95: TOTAL: \$42,250
Prin. Invest. NASA Tech. Officer CASE Category
K P HALLINAN HQ/D A HOLLAND 46-Mech Engr

NAG 3-1165 University of Toledo 7079
TURBOMACHINERY DESIGN AND PERFORMANCE ANALYSIS
Period Obligations
04/13/1990-11/20/1995 FY95: \$99,967 TOTAL: \$547,914
Prin. Invest. NASA Tech. Officer CASE Category
K J DEWITT LERC/J K LYTLE 42-Astro Engr

NGT 00-051-207 University of Dayton 7072
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/15/1994-07/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
T J KELLY MSFC/F SIX 46-Mech Engr

NAG 3-1219 University of Toledo 7080
COMPUTATION OF REACTING FLOWS IN COMBUSTION PROCES S
Period Obligations
12/03/1990-01/03/1996 FY95: \$68,000 TOTAL: \$395,000
Prin. Invest. NASA Tech. Officer CASE Category
T G KEITH LERC/R W CLAUS 41-Aero Engr
LERC/E J MULARZ

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAG 3-1230	University of Toledo	7081	EULER/NAVIER STROKES SOLVERS APPLIED FOR ADVANCED PROPELLER CONFIGERATIONS
<i>Period</i>	<i>Obligations</i>		
12/17/1990-12/20/1995	FY95: \$80,000	TOTAL: \$328,115	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
T G KEITH	LERC/D C JANETZKE	41-Aero Engr	
R SRIVASTAVA	LERC/L J KIRALY		
NAG 3-1234	University of Toledo	7082	AEROELASTIC ANALYSIS USING VARIOUS CFD MODELS / 52 30
<i>Period</i>	<i>Obligations</i>		
01/07/1991-12/21/1995	FY95: \$80,000	TOTAL: \$312,214	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
T G KEITH	LERC/A P KURKOU	41-Aero Engr	
M A BAKHLE	LERC/L J KIRALY		
NAG 3-1264	University of Toledo	7083	COMPUTATIONAL SIMULATION OF COMPOSITE MATERIAL BEHAVIOR
<i>Period</i>	<i>Obligations</i>		
03/26/1991-11/13/1995	FY95: \$91,458	TOTAL: \$628,019	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
S K MITAL	LERC/P L MURTHY	49-Engr, NEC	
	LERC/C C CHAMIS		
NAG 3-1307	University of Toledo	7084	DETAILED AND REDUCED HYDROCARBON OXIDATION CHEMISTRY
<i>Period</i>	<i>Obligations</i>		
11/19/1991-12/14/1995	FY95: \$132,000	TOTAL: \$443,896	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
K J DEWITT	LERC/M J RABINOWITZ	12-Chemistry	
	LERC/E A LEZBERG		
NAG 3-1338	University of Toledo	7085	MIXING ENHANCEMENT OF A FREE JET BY IMPARTING SWIRL
<i>Period</i>	<i>Obligations</i>		
03/20/1992-06/30/1994	FY95:	TOTAL: \$115,044	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
K J DEWITT	LERC/K Q ZAMAN	46-Mech Engr	
J PANDA	LERC/J M ABBOTT		
NAG 3-1370	University of Toledo	7086	HYDRODYNAMIC ANALYSES AND EVALUATION OF NEW FLUID FILM BEARING CONCEPTS
<i>Period</i>	<i>Obligations</i>		
10/06/1992-10/14/1995	FY95:	TOTAL: \$312,500	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
T G KEITH	LERC/J F WALKER	46-Mech Engr	
NAG 3-1422	University of Toledo	7087	PROCESS OPTIMIZATION VIA SOFT COMPUTING
<i>Period</i>	<i>Obligations</i>		
12/11/1992-09/30/1996	FY95: \$10,000	TOTAL: \$50,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
K CIOS	LERC/A VARRY	47-Materials Engr	
	LERC/L BERKE		
NAG 3-1449	University of Toledo	7088	AEROELASTIC ANALYSIS OF TURBOMACHINERY FOR SPACE PROPULSION
<i>Period</i>	<i>Obligations</i>		
01/26/1993-02/13/1996	FY95: \$44,500	TOTAL: \$272,885	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
T G KEITH JR.	LERC/G L STEFKO	41-Aero Engr	
NAG 3-1466	University of Toledo	7089	DESIGN AND MODELING OF A HIGH EFFICIENCY SILICON SOLAR CELL WITH BURIED TRAP LEVEL
<i>Period</i>	<i>Obligations</i>		
02/25/1993-11/13/1995	FY95: \$73,299	TOTAL: \$205,299	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
T G KEITH	LERC/I WEINBERG	46-Mech Engr	
	LERC/D J FLOOD		
NAG 3-1501	University of Toledo	7090	OSCILLATORY/CHAOTIC THERMOCAPILLARY FLOW INDUCED BY RADIANT HEATING
<i>Period</i>	<i>Obligations</i>		
05/20/1993-05/31/1996	FY95: \$36,000	TOTAL: \$72,404	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
K J DEWITT	LERC/R L THOMPSON	19-Phys Sci, NEC	
NAG 3-1550	University of Toledo	7091	SHOCK OSCILLATION AND ITS RELATION TO THE SCREECH AND BROADBAND NOISE IN UNDEREXPANDED FREE JETS: AN EXPERIMENT
<i>Period</i>	<i>Obligations</i>		
12/14/1993-12/13/1994	FY95: \$86,003	TOTAL: \$167,809	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
K DE WITT	LERC/K Q ZUMAN	46-Mech Engr	
J PANDA			
NAG 3-1576	University of Toledo	7092	STUDY OF A HIGH VOLTAGE ION ENGINE POWER SUPPLY
<i>Period</i>	<i>Obligations</i>		
02/28/1994-02/27/1996	FY95: \$32,161	TOTAL: \$77,181	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
T J STUART	LERC/J A HAMLEY	45-Elec Engr	
R J KING			
NAG 3-1718	University of Toledo	7093	VLSI IMPLEMENTATION OF COMMUNICATIONS SYSTEMS
<i>Period</i>	<i>Obligations</i>		
03/23/1995-03/22/1996	FY95: \$60,000	TOTAL: \$60,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
S C KWATRA	LERC/R E JONES	45-Elec Engr	
M M JAMALI			
NAG 3-1728	University of Toledo	7094	FUZZY AND RADIAL BASIS FUNCTION MODELING OF COMPLEX PROCESSES
<i>Period</i>	<i>Obligations</i>		
04/04/1995-01/03/1996	FY95: \$30,000	TOTAL: \$30,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
K CIOS	LERC/A VARY	47-Materials Engr	
NAG 3-1750	University of Toledo	7095	AN OBJECT-ORIENTED MODEL FOR SIMULATION
<i>Period</i>	<i>Obligations</i>		
05/24/1995-05/23/1996	FY95: \$40,000	TOTAL: \$40,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
A AFJENT	LERC/G J FOLLEN	41-Aero Engr	
NAG 3-1758	University of Toledo	7096	INVESTIGATION OF FIELD EMITTER ARRAY VACUUM MICROTRIODES FOR SPACE ELECTRONICS APPLICATIONS
<i>Period</i>	<i>Obligations</i>		
06/16/1995-06/15/1996	FY95: \$25,000	TOTAL: \$25,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
V J KAPOOR	LERC/V O HEINES	45-Elec Engr	
M A SMITH			

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NAG 5-2460 University of Toledo 7097
 MAIN SEQUENCE O STARS IN NGC 6231: ENHANCED WINDS
Period Obligations
 01/11/1994-12/31/1995 FY95: TOTAL: \$1,500
Prin. Invest. NASA Tech. Officer CASE Category
 N MORRISON GSFC/D WEST 11-Astronomy

NCC 3-193 University of Toledo 7105
 ADVANCED PROPULSION SYSTEM STUDIES IN HIGH SPEED RESEARCH
Period Obligations
 12/19/1990-04/30/1994 FY95: TOTAL: \$304,684
Prin. Invest. NASA Tech. Officer CASE Category
 K J DEWITT LERC/L H FISHBACH 41-Aero Engr

NAG 5-2461 University of Toledo 7098
 PULSATIONALLY INDUCED MASS-DUMPING F + B BINARIES
Period Obligations
 01/11/1994-01/14/1995 FY95: TOTAL: \$1,500
Prin. Invest. NASA Tech. Officer CASE Category
 B W GSFC/D WEST 11-Astronomy

NCC 3-207 University of Toledo 7106
 NUMERICAL SIMULATION OF A HIGH BY-PASS FAN IN A JET ENGINE
Period Obligations
 02/15/1991-05/15/1995 FY95: TOTAL: \$189,918
Prin. Invest. NASA Tech. Officer CASE Category
 A A AFJEH LERC/G J FOLLEN 41-Aero Engr

NAGW 2794 University of Toledo 7099
 PHOTOPHYSICS AND HYDROGEN PROCESSING OF INTERSTELLAR CARBON SOLIDS
Period Obligations
 12/18/1991-11/30/1994 FY95: TOTAL: \$127,298
Prin. Invest. NASA Tech. Officer CASE Category
 A N WITT HQ/L J CAROFF 11-Astronomy

NCC 3-229 University of Toledo 7107
 LOW REYNOLDS NUMBER MULTI-TIME-SCALE TURBULENCE MODEL AND ITS APPLICATION TO UNSTEADY AND TRANSITIONARY TURBULENCE FLOWS
Period Obligations
 08/29/1991-02/12/1996 FY95: \$69,847 TOTAL: \$374,361
Prin. Invest. NASA Tech. Officer CASE Category
 K J DEWITT LERC/R M STUBBS 42-Astro Engr
 S W KIM LERC/J M ABBOTT

NAGW 3168 University of Toledo 7100
 RADIATIVE TRANSFER ANALYSIS OF DUSTY ASTRONOMICAL SYSTEMS
Period Obligations
 08/11/1992-04/30/1996 FY95: \$96,903 TOTAL: \$350,704
Prin. Invest. NASA Tech. Officer CASE Category
 A WITT HQ/G R RIEGLER 11-Astronomy

NCC 3-248 University of Toledo 7108
 DEVELOPMENT OF COMPUTATIONAL TECHNIQUES FOR THE NONEQUILIBRIUM ANALYSIS OF COMPACT STRUCTURES AT HIGH TEMPERATURE
Period Obligations
 01/16/1992-03/01/1995 FY95: TOTAL: \$192,241
Prin. Invest. NASA Tech. Officer CASE Category
 T WILT LERC/S M ARNOLD 41-Aero Engr

NAGW 3840 University of Toledo 7101
 NAGW-3840/B UNIV. TOLEDO: OSCILLATOR STRENGTHS FOR ULTRAVIOLET ATOMIC TRANSITIONS
Period Obligations
 12/21/1993-12/31/1995 FY95: \$67,000 TOTAL: \$134,000
Prin. Invest. NASA Tech. Officer CASE Category
 S R FEDERMAN HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NCC 3-260 University of Toledo 7109
 DEVELOPMENT OF SILICON-GERMANIUM TECHNOLOGY FOR MICROWAVE SENSING APPLICATIONS
Period Obligations
 03/27/1992-09/30/1995 FY95: TOTAL: \$175,475
Prin. Invest. NASA Tech. Officer CASE Category
 K J DEWITT LERC/R A MENU 45-Elec Engr
 P G YOUNG LERC/S ALTEROVITZ

NCC 3-120 University of Toledo 7102
 DEVELOPMENT AND APPLICATION OF VISCOPLASTIC MODELS IN NONLINEAR STRUCTURAL ANALYSIS
Period Obligations
 12/12/1988-03/01/1995 FY95: TOTAL: \$568,469
Prin. Invest. NASA Tech. Officer CASE Category
 T G KEITH LERC/S M ARNOLD 42-Astro Engr
 LERC/R E KIELB

NCC 3-279 University of Toledo 7110
 ACCELERATED TESTING TECHNIQUES FOR SPACE MECHANISMS
Period Obligations
 10/12/1992-04/17/1996 FY95: \$15,997 TOTAL: \$68,997
Prin. Invest. NASA Tech. Officer CASE Category
 T G KEITH LERC/R L FUSARO 46-Mech Engr
 LERC/D A ROHN

NCC 3-126 University of Toledo 7103
 MICROSTRIP ANTENNA ARRAYS WITH PARASITIC ELEMENTS
Period Obligations
 01/30/1989-01/14/1996 FY95: TOTAL: \$209,801
Prin. Invest. NASA Tech. Officer CASE Category
 K F LEE LERC/R O LEE 45-Elec Engr

NCC 3-288 University of Toledo 7111
 ENVIRONMENTAL EFFECTS ON BOUNDARY LAYER TRANSITION
Period Obligations
 12/11/1992-02/05/1996 FY95: \$83,786 TOTAL: \$226,336
Prin. Invest. NASA Tech. Officer CASE Category
 K J DEWITT LERC/F F SIMON 46-Mech Engr
 K H SOHN

NCC 3-171 University of Toledo 7104
 RAREFIED FLOW OF GASES IN INTERNAL AND EXTERNAL GEOMETRIES
Period Obligations
 03/27/1990-09/30/1995 FY95: TOTAL: \$344,897
Prin. Invest. NASA Tech. Officer CASE Category
 K J DEWITT LERC/R M STUBBS 42-Astro Engr
 C H CHUNG
 D R JENG

NCC 3-291 University of Toledo 7112
 EFFECT OF CAVITATION ON JOURNAL BEARING DYNAMIC CHARACTERISTICS
Period Obligations
 12/20/1992-02/15/1996 FY95: \$58,967 TOTAL: \$199,967
Prin. Invest. NASA Tech. Officer CASE Category
 T G KEITH LERC/D E BREWE 46-Mech Engr
 LERC/G A BOBULA

**NASA'S UNIVERSITY PROGRAM
OHIO (Continued)**

NCC 3-332 University of Toledo 7113
 ADVANCED MODELS FOR AERO-STRUCTURES INTERACTION AN
 ALYSIS OF PROPULSION SYSTEMS
Period Obligations
 12/20/1993-12/19/1995 FY95: TOTAL: \$79,886
Prin. Invest. NASA Tech. Officer CASE Category
 T G KEITH LERC/G L STEFKO 41-Aero Engr
 A J MAHAJAN

NCC 3-333 University of Toledo 7114
 AN APPLICATION OF SYSTEMS REQUIREMENTS MODELING TO A
 SHUTTLE FLIGHT EXPERIMENT PROJECT
Period Obligations
 01/04/1994-06/30/1995 FY95: TOTAL: \$23,260
Prin. Invest. NASA Tech. Officer CASE Category
 W L SCHELLER II LERC/G G SADLER 49-Engr, NEC

NCC 3-388 University of Toledo 7115
 EFFICIENT AEROELASTIC ANALYSIS OF PROPULSION TURBO
 MACHINERY
Period Obligations
 01/04/1995-01/31/1995 FY95: \$92,000 TOTAL: \$92,000
Prin. Invest. NASA Tech. Officer CASE Category
 T KEITH LERC/J M LUCERO 41-Aero Engr
 LERC/G L STESKO

NCC 3-281 Wilberforce University 7116
 NASA/WILBERFORCE COLLABORATIVE PROGRAM RESEARCH IN
 STITUTE FOR TECHNICAL CAREERS
Period Obligations
 10/21/1992-10/31/1996 FY95: \$472,007 TOTAL: \$1,331,195
Prin. Invest. NASA Tech. Officer CASE Category
 R L GLENN LERC/A F HEPP 19-Phys Sci, NEC
 E ASIKELE LERC/J M EARLS

NAG 3-793 Wittenberg University 7117
 RADIATION EFFECTS ON POWER TRANSISTOR PERFORMANCES
Period Obligations
 03/23/1987-06/15/1994 FY95: TOTAL: \$362,290
Prin. Invest. NASA Tech. Officer CASE Category
 A J FRASCA LERC/G E SCHWARZE 13-Physics

NAG 3-1233 Wright State University 7118
 THERMODYNAMIC STUDIES FO TI-A1 ALLOYS CONTAINING D
 ISSOLVED OXYGEN / 5160
Period Obligations
 01/03/1991-06/30/1994 FY95: TOTAL: \$69,062
Prin. Invest. NASA Tech. Officer CASE Category
 G M MEHROTRA LERC/N S JACOBSON 47-Materials Engr
 LERC/A K MISRA

NAG 3-1489 Wright State University 7119
 RELIABILITY BASED STRUCTURAL OPTIMIZATION
Period Obligations
 04/16/1993-01/13/1996 FY95: \$42,000 TOTAL: \$142,000
Prin. Invest. NASA Tech. Officer CASE Category
 R GRANDHI LERC/D A HOPKINS 46-Mech Engr

NGT36-24790 Wright State University 7120
 AEROSPACE MEDICINE RESIDENCY PROGRAM
Period Obligations
 07/01/1978-12/31/1995 FY95: \$585,000 TOTAL: \$6,976,242
Prin. Invest. NASA Tech. Officer CASE Category
 S MOHLER HQ/F D EVANS 59-Life Sci, NEC
 HQ/A E NICOGLOSSIAN

NAG 8-1108 Youngstown State University 7121
 JOVE
Period Obligations
 10/21/1994-05/31/1996 FY95: \$75,797 TOTAL: \$75,797
Prin. Invest. NASA Tech. Officer CASE Category
 J ALAM MSFC/F SIX 99-Multi-Discip
 R BEIERSDORFER
 D ROST

OKLAHOMA

NAG 3-1613 Oklahoma State University 7122
 LIGHT SCATTERING STUDIES OF RELATIVE MOTIONS OF SOLID
 PARTICLES IN TURBULENT FLOWS
Period Obligations
 07/01/1994-07/18/1996 FY95: \$70,000 TOTAL: \$140,000
Prin. Invest. NASA Tech. Officer CASE Category
 P TONET LERC/D F CHAO 13-Physics
 W I GOLDBURG

NAG 3-1624 Oklahoma State University 7123
 COLLIODS AND NUCLEATION
Period Obligations
 06/24/1994-06/23/1996 FY95: \$52,899 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 B J ACKERSON LERC/G A ZIMMERLI 13-Physics

NAG 3-1785 Oklahoma State University 7124
 ELECTRONIC MAGNETIC STRUCTURE DESIGN
Period Obligations
 08/13/1995-03/12/1996 FY95: \$149,700 TOTAL: \$149,700
Prin. Invest. NASA Tech. Officer CASE Category
 A DOMINEK LERC/R HANN 45-Elec Engr

NASW 4516 Oklahoma State University 7125
 NASW-4516/OKLAHOMA STATE UNIV/OPERATION AND MANAGEME
 NTOF THE NASA AEROSPACE EDUCATION SERVICES PROGRA
Period Obligations
 07/11/1990-09/30/1995 FY95: \$2,024,784 TOTAL: \$27,848,900
Prin. Invest. NASA Tech. Officer CASE Category
 K WIGGINS HQ/L B BILBROUGH 99-Multi-Discip
 N EHRlich

NASW 5043 Oklahoma State University 7126
 OPERATION OF AEROSPACE EDUCATION SERVICES PROGRAM
Period Obligations
 09/25/1995-09/30/1996 FY95: \$3,279,932 TOTAL: \$3,279,932
Prin. Invest. NASA Tech. Officer CASE Category
 K WIGGINS HQ/L BILBROUGH 99-Multi-Discip

NCC 2-5021 Oklahoma State University 7127
 UNSTEADY AERODYNAMICS MODELLING FOR STARS AEROSERV
 OELASTIC VALIDATION
Period Obligations
 12/21/1993-08/31/1994 FY95: TOTAL: \$9,615
Prin. Invest. NASA Tech. Officer CASE Category
 A ARENA ARC/K K GUPTA 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
OKLAHOMA (Continued)**

NCC 2-5105 Oklahoma State University 7128
 COMPUTATIONAL AEROSERVOELASTIC ANALYSIS WITH AN EU
 LER-BASED UNSTEADY FLOW SOLVER
Period Obligations
 10/28/1994-10/31/1996 FY95: \$39,991 TOTAL: \$39,991
Prin. Invest. NASA Tech. Officer CASE Category
 A S ARENA DFRC/K K GUPTA 41-Aero Engr

NCCW 5 Oklahoma State University 7129
 NASA'S TEACHER IN SPACE PROJECT
Period Obligations
 10/16/1985-11/30/1995 FY95: \$782,537 TOTAL: \$5,737,158
Prin. Invest. NASA Tech. Officer CASE Category
 K WIGGINS HQ/L BILBROUGH 99-Multi-Discip

NAG 1-1375 University of Oklahoma - Norman 7130
 THE NONDESTRUCTIVE EVALUATION OF CARBON-CARBON COM
 POSITES: EFFECT OF THERMAL DEGRADATION ON MECH.BE
Period Obligations
 02/14/1992-02/11/1995 FY95: TOTAL: \$61,939
Prin. Invest. NASA Tech. Officer CASE Category
 R A KLINE LARC/P H JOHNSTON 19-Phys Sci, NEC
 A G STRIZ

NAG 1-1643 University of Oklahoma - Norman 7131
 THEORETICAL INVESTIGATION IN NON-LINEAR AERO PREDI CTION
Period Obligations
 09/06/1994-08/30/1995 FY95: TOTAL: \$25,276
Prin. Invest. NASA Tech. Officer CASE Category
 D E SMITH LARC/M J LOGAN 41-Aero Engr

NAG 3-1594 University of Oklahoma - Norman 7132
 EFFECTS OF ENERGY RELEASE ON NEAR FIELD FLOW STRUC
 TURE OF GAS JETS
Period Obligations
 06/02/1994-06/01/1996 FY95: \$100,000 TOTAL: \$194,000
Prin. Invest. NASA Tech. Officer CASE Category
 A K AGRAWAL LERC/H D ROSS 46-Mech Engr
 S R GOLLAHALLI

NAG 5-1379 University of Oklahoma - Norman 7133
 LARGE EDDY SIMULATION OF THE FIFE ATMOSPHERE
Period Obligations
 04/24/1990-05/31/1995 FY95: TOTAL: \$202,447
Prin. Invest. NASA Tech. Officer CASE Category
 T GAL-CHEN GSFC/F G HALL 31-Atmos Sci

NAG 5-1528 University of Oklahoma - Norman 7134
 EXPLICIT GROWTH OF ICE PARTICLES IN NUMERICAL MODE LS
 OF CUMULUS CLOUDS
Period Obligations
 04/09/1991-04/14/1994 FY95: TOTAL: \$140,989
Prin. Invest. NASA Tech. Officer CASE Category
 Y L KOGAN GSFC/J SIMPSON 31-Atmos Sci

NAG 5-2389 University of Oklahoma - Norman 7135
 CARBON PRODUCTION IN INTERMEDIATE-MASS STARS
Period Obligations
 10/07/1993-10/14/1996 FY95: \$33,863 TOTAL: \$63,563
Prin. Invest. NASA Tech. Officer CASE Category
 R B HENRY GSFC/D WEST 11-Astronomy

NAG 5-2558 University of Oklahoma - Norman 7136
 ADVANCED SILICON MICROSTRIPE STUDIES
Period Obligations
 03/17/1994-03/31/1995 FY95: TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 G R KALBFLEISCH GSFC/L M BARBIER 11-Astronomy

NAG 8-922 University of Oklahoma - Norman 7137
 ANALYSIS OF SURFACE ENERGY AND LAND-ATMOSPHERE WATER
 BUDGET MEASUREMENTS FOR THE CAPE FIEL PROGRA
Period Obligations
 07/06/1992-07/31/1994 FY95: TOTAL: \$87,725
Prin. Invest. NASA Tech. Officer CASE Category
 C E DUCHON MSFC/S J GOODMAN 31-Atmos Sci

NAGW 2999 University of Oklahoma - Norman 7138
 QUANTATIVE ANALYSIS OF SUPERNOVA ULTRAVIOLET SPECT RA
Period Obligations
 03/10/1992-01/31/1996 FY95: \$65,000 TOTAL: \$236,000
Prin. Invest. NASA Tech. Officer CASE Category
 D R BRANCH HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 3031 University of Oklahoma - Norman 7139
 NAGW-3031/UNIV OKLAHOMA/STABILITY OF EARLY MARTIAN
 CLIMATES: CONSEQUENCES FOR VOLATILE DISTRIBUTION
Period Obligations
 04/06/1992-12/31/1994 FY95: TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
 S POSTAWKO HQ/H C BRINTON 32-Geological Sci

NAGW 4551 University of Oklahoma - Norman 7140
 ENVIRONMENTAL REMOTE SENSING, GIS AND OKLAHOMA
 MESONET
Period Obligations
 06/30/1995-03/31/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 M MORRISSEY HQ/A S MCGEE 39-Env Sci, NEC
 HQ/E T SCHWARTZ

NAS 3-26957 University of Oklahoma - Norman 7141
 ACTS PROPAGATION EXPERIMENTS
Period Obligations
 05/13/1993-12/31/1995 FY95: TOTAL: \$215,217
Prin. Invest. NASA Tech. Officer CASE Category
 R K CRANE LERC/R J GUNDERMAN 41-Aero Engr

NGT 00-030-308 University of Oklahoma - Norman 7142
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/12/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 P J MCCANN HQ/M LUTHER 45-Elec Engr
 HQ/G ASRAR

NGT 00-040-052 University of Oklahoma - Norman 7143
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
 09/03/1991-02/28/1998 FY95: \$240,863 TOTAL: \$903,863
Prin. Invest. NASA Tech. Officer CASE Category
 K L HOVING HQ/E T SCHWARTZ 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
OKLAHOMA (Continued)**

NGT 00-051-110 University of Oklahoma - Norman 7144
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/22/1993-07/31/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
R A KLINE LARC/E PRIOR 46-Mech Engr

NAG 1-1579 University of Tulsa 7145
SMART PLC INTELLIGENT CONTROLLER
Period Obligations
12/20/1993-12/31/1995 FY95: \$43,917 TOTAL: \$98,426
Prin. Invest. NASA Tech. Officer CASE Category
M TIMMERMAN LARC/R W WILLS 22-Computer Science
LARC/W H BRYANT

NAG 8-1005 University of Tulsa 7146
JOVE
Period Obligations
03/22/1994-08/31/1996 FY95: \$59,501 TOTAL: \$141,811
Prin. Invest. NASA Tech. Officer CASE Category
L DUNCAN MSFC/F SIX 12-Chemistry

NCC 2-5151 University of Tulsa 7147
CATALYTIC WET OXIDATION IN A MONOLITH REACTOR FOR THE
DESTRUCTION OF SWOLID WASTES
Period Obligations
08/07/1995-07/31/1997 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
M ABRAHAM ARC/J FISHER 49-Engr, NEC

NCC 3-338 University of Tulsa 7148
RESIDUAL STRESS MEASUREMENTS 7 DEBONDING ANALYSIS OF
THERMAL BARRIER COATINGS
Period Obligations
02/17/1994-05/24/1996 FY95: \$29,998 TOTAL: \$49,979
Prin. Invest. NASA Tech. Officer CASE Category
E F RYBICKI LERC/W J BRINDUEY 47-Materials Engr
J R SHADLEY LERC/R A MILLER

OREGON

NAG 2-931 Oregon Graduate Institute of Science & 7149
Technology
MODELS OF SPEED DISCRIMINATION
Period Obligations
09/27/1994-08/31/1995 FY95: TOTAL: \$38,643
Prin. Invest. NASA Tech. Officer CASE Category
M PAVEL HQ/L S STONE 59-Life Sci, NEC

NCC 2-811 Oregon Graduate Institute of Science & 7150
Technology
PERCEPTION-BASED SENSOR FUSION FOR AN AUGMENTED VI SION
SYSTEM
Period Obligations
07/16/1993-02/29/1996 FY95: \$188,300 TOTAL: \$434,024
Prin. Invest. NASA Tech. Officer CASE Category
M PAVEL ARC/A J AHUMADA 69-Psych, NEC
ARC/C H NULL

NGT 8-52803 Oregon Graduate Institute of Science & 7151
Technology
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/28/1995-07/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
U S RAO GUDIMETLA MSFC/R W ROOD 13-Physics

NAGW 3798 Oregon Health Sciences University 7152
A GRAVITY SENSITIVE PERIOD DURING FROG OOLYTE
MATURATION
Period Obligations
11/30/1993-08/31/1996 FY95: \$99,999 TOTAL: \$149,997
Prin. Invest. NASA Tech. Officer CASE Category
M DANILCHIK HQ/T W HALSTEAD 51-Biological Sci

NCC 2-934 Oregon Health Sciences University 7153
CA2+ METABOLISM AND VASCULAR FUNCTION AFTER SPACE FL
IGHT
Period Obligations
09/21/1995-07/14/1996 FY95: \$150,000 TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
D A MCCARRON ARC/D A REISS-BUBENHEIM 51-Biological Sci
D C HATTON ARC/C M WINGET

NAG 1-1234 Oregon State University 7154
FIRE 2 SATELLITE OBSERVATIONS OF CIRRUS
Period Obligations
02/22/1991-03/31/1996 FY95: TOTAL: \$277,000
Prin. Invest. NASA Tech. Officer CASE Category
J A COAKLEY LARC/T OWENS 31-Atmos Sci

NAG 1-1263 Oregon State University 7155
CHARACTERIZATION OF CLOUDS AND ANISOTROPY OF EMITTED
AND REFLECTED RADIANCES AS PART OF CERES
Period Obligations
05/07/1991-06/30/1996 FY95: \$291,027 TOTAL: \$546,027
Prin. Invest. NASA Tech. Officer CASE Category
J A COAKLEY LARC/J W YOUNGBLOOD 31-Atmos Sci
LARC/B A WIELICKI

NAG 1-1620 Oregon State University 7156
PROGRESSIVE DAMAGE MODELING IN COMPOSITE SHELL
STRUCTURES
Period Obligations
04/19/1994-04/13/1996 FY95: \$53,118 TOTAL: \$107,853
Prin. Invest. NASA Tech. Officer CASE Category
T C KENNEDY LARC/J H STARNES 41-Aero Engr
LARC/D R AMBUR

NAG 2-875 Oregon State University 7157
AN AGENT-BASED COCKPIT TASK MANAGEMENT SYSTEM
Period Obligations
12/30/1993-12/31/1995 FY95: \$159,427 TOTAL: \$288,973
Prin. Invest. NASA Tech. Officer CASE Category
K H FUNK II ARC/K M CORKER 69-Psych, NEC
ARC/F A PALMER III

NAG 5-2300 Oregon State University 7158
FLUXES OVER INHOMOGENEOUS SURFACES IN BOREAS
Period Obligations
06/30/1993-07/14/1996 FY95: \$90,000 TOTAL: \$155,000
Prin. Invest. NASA Tech. Officer CASE Category
L MAHRT GSFC/F G HALL 39-Env Sci, NEC
GSFC/P SELLERS

**NASA'S UNIVERSITY PROGRAM
OREGON (Continued)**

NAG 5-2301 Oregon State University 7159
 FROM MICROSCALE TO MESOSCALE: SNOWMELT, SOIL MOIS TURE,
 AND EVAPOTRANSPIRATION FROM DISTRIBUTED. .
Period Obligations
 06/30/1993-07/14/1996 FY95: \$78,735 TOTAL: \$148,735
Prin. Invest. NASA Tech. Officer CASE Category
 D MARKS GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P SELLERS

NAGW 3062 Oregon State University 7167
 DEVELOPMENT AND ANALYSIS OF A MODEL FUNCTION FOR T HE
 ERS-1 C-BAND SCATTEROMETER USING OPERATIONAL
Period Obligations
 05/04/1992-01/31/1995 FY95: TOTAL: \$354,385
Prin. Invest. NASA Tech. Officer CASE Category
 M H FREILICH HQ/D ADAMEC 32-Geological Sci
 HQ/R A SCHIFFER

NAG 5-2377 Oregon State University 7160
 COUPLED ATMOSPHERIC-FOREST CANOPY-SOIL PROFILE MON
 ITORING AND SIMULATION
Period Obligations
 09/30/1993-09/30/1996 FY95: \$67,929 TOTAL: \$193,349
Prin. Invest. NASA Tech. Officer CASE Category
 R H CUENCA GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P SELLERS

NAGW 3217 Oregon State University 7168
 NAGW-3217/OREGON STATE UNIV/MUD VOLCANOES ON EARTH
 AND MARS
Period Obligations
 09/29/1992-03/31/1994 FY95: TOTAL: \$29,994
Prin. Invest. NASA Tech. Officer CASE Category
 P D KOMAR HQ/J M BOYCE 32-Geological Sci

NAGW 2445 Oregon State University 7161
 RESEARCH OF THE ATMOSPHERE OF MARS
Period Obligations
 04/02/1991-02/28/1996 FY95: \$78,975 TOTAL: \$390,827
Prin. Invest. NASA Tech. Officer CASE Category
 J R BARNES HQ/W QUAIDE 11-Astronomy

NAGW 3305 Oregon State University 7169
 NAGW-3305/OREGON STATE UNIV/INVESTIGATIONS OF SCAT
 TERING MECHANISMS AND CENTIMETRIC SURFACE ROUGHNESS
Period Obligations
 12/31/1992-12/31/1994 FY95: \$79,991 TOTAL: \$157,745
Prin. Invest. NASA Tech. Officer CASE Category
 M H FREILICH HQ/J S THEON 33-Oceanography

NAGW 2454 Oregon State University 7162
 COUPLED ATMOSPHERE/OCEAN PROCESSES AND PRIMARY PRO
 Duction IN THE SOUTHERN OCEAN
Period Obligations
 04/19/1991-12/31/1994 FY95: TOTAL: \$4,652,051
Prin. Invest. NASA Tech. Officer CASE Category
 M R ABBOTT HQ/B G MITCHELL 33-Oceanography
 HQ/W S WILSON

NAGW 3510 Oregon State University 7170
 WIND-DRIVEN VARIABILITY ON THE SOUTHERN HEMISPHERE
 OCEANS
Period Obligations
 04/09/1993-12/31/1995 FY95: \$110,000 TOTAL: \$375,532
Prin. Invest. NASA Tech. Officer CASE Category
 D B CHILTON HQ/D ADAMEC 33-Oceanography

NAGW 2475 Oregon State University 7163
 SATELLITE ESTIMATED BIOLOGICAL PHYSICAL COUPLING I N
 EASTERN BOUNDARY CURRENTS
Period Obligations
 09/01/1991-08/31/1995 FY95: \$112,523 TOTAL: \$394,714
Prin. Invest. NASA Tech. Officer CASE Category
 P T STRUB HQ/D ADAMEC 39-Env Sci, NEC
 HQ/R A SCHIFFER

NAGW 3545 Oregon State University 7171
 CHEMICAL STUDIES OF LUNAR, METEORITE AND TERRESTRI AL
 SAMPLES
Period Obligations
 04/22/1993-01/31/1994 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A SCHMITT HQ/H C BRINTON 32-Geological Sci

NAGW 2707 Oregon State University 7164
 COLLABORATIVE RESEARCH: SCALING THEORIES OF HYDROLOGY,
 HYDRAULICS, AND GEOMETRY OF RIVER NETWORKS
Period Obligations
 09/19/1991-12/31/1994 FY95: TOTAL: \$155,377
Prin. Invest. NASA Tech. Officer CASE Category
 E C WEYINIRE HQ/M Y WEI 39-Env Sci, NEC
 V J GUPTA HQ/J S THEON

NAGW 3580 Oregon State University 7172
 STUDY OF INHERENT OPTICAL PROPERTIES IN RELATION T O
 REMOTELY SENSED RADIANCE
Period Obligations
 05/25/1993-03/01/1996 FY95: \$124,070 TOTAL: \$285,228
Prin. Invest. NASA Tech. Officer CASE Category
 R ZANEVELD HQ/D E WICKLAND 33-Oceanography
 HQ/A C JANETOS

NAGW 2715 Oregon State University 7165
 NAGW-2715/OREGON STATE UNIV/TOPEX/POSEIDON TIDES
Period Obligations
 09/24/1991-05/31/1994 FY95: TOTAL: \$401,020
Prin. Invest. NASA Tech. Officer CASE Category
 A F BENNETT HQ/D ADAMEO 33-Oceanography
 HQ/R A SCHIFFER

NAGW 3642 Oregon State University 7173
 CENTER FOR AIRBORNE ENVIRONMENTAL ANALYSES
Period Obligations
 08/19/1993-09/30/1995 FY95: \$122,483 TOTAL: \$446,059
Prin. Invest. NASA Tech. Officer CASE Category
 C CHEN HQ/D WICKLAND 31-Atmos Sci
 R W MCCREIGHT
 C E CHEN

NAGW 2833 Oregon State University 7166
 CHEMISTRY OF HYDROTHERMAL PROCESSES AND ORIGIN OF
 LIFE
Period Obligations
 02/13/1992-01/31/1995 FY95: \$110,498 TOTAL: \$319,698
Prin. Invest. NASA Tech. Officer CASE Category
 B R SIMONEIT HQ/J D RUMMEL 12-Chemistry

NAGW 3683 Oregon State University 7174
 ASSESSING REMOTE SENSING DATA, EDUCATE PUBLIC ABOU T
 PACIFIC OCEAN AND OTHER OCEANOGRAPHIC/EARTH SCI
Period Obligations
 08/12/1993-03/31/1995 FY95: TOTAL: \$492,000
Prin. Invest. NASA Tech. Officer CASE Category
 L WEBER HQ/R SMITH 33-Oceanography
 HQ/M V PHELPS

**NASA'S UNIVERSITY PROGRAM
OREGON (Continued)**

NAGW 3716 Oregon State University 7175
ANALYSIS OF LAZY-2 GRAVITROPIC RESPONSE MUTANT OF TOMATO
Period *Obligations*
08/19/1993-06/30/1996 FY95: \$116,163 TOTAL: \$166,163
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T LOMAX HQ/T W HALSTEAD 51-Biological Sci

NAGW 4680 Oregon State University 7183
THE TOPOLOGY OF OCEAN CIRCULATION
Period *Obligations*
08/03/1995-06/30/1996 FY95: \$50,890 TOTAL: \$50,890
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A F BENNETT HQ/M BALTUCK 33-Oceanography
HQ/N MAYNARD

NAGW 3737 Oregon State University 7176
CYCLING OF DMSP AND DMS IN SURFACE OCEAN WATERS
Period *Obligations*
09/10/1993-05/31/1996 FY95: \$140,000 TOTAL: \$355,253
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E B SHERR HQ/A C JANETOS 33-Oceanography
B F SHERR HQ/J T SUTTLES
G WOLFE

NAGW 4714 Oregon State University 7184
COLLABORATIVE RESEARCH SCALING RHEORIES OF 3-D CEMETRY AND FLOWS
Period *Obligations*
08/18/1995-05/31/1998 FY95: \$29,382 TOTAL: \$29,382
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E C WAYMIRE HQ/M Y WEI 39-Env Sci, NEC
HQ/A C JANETOS

NAGW 3745 Oregon State University 7177
ANALYSIS OF LAND-USE EFFECTS ON LANDSCAPE PATTERNS AND BIOLOGICAL DIVERSITY IN PACIFIC NW FORESTS
Period *Obligations*
09/17/1993-05/31/1996 FY95: \$123,387 TOTAL: \$326,283
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D O WALLIN HQ/D E WICKLAND 39-Env Sci, NEC
W B COHEN HQ/A C JANETOS
G A BRADSHAW

NAS 1-18992 Oregon State University 7185
ERBE SCIENCE TEAM SUPPORT
Period *Obligations*
09/20/1989-01/19/1994 FY95: TOTAL: \$301,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A COAKLEY LARC/J E COOPER 31-Atmos Sci
LARC/B BARKSTROM

NAGW 3870 Oregon State University 7178
NAGW-3870/B OREGOSN STATE UNIV. 'REL. BETWEEN CHRL OPHYLL, SPECTRAL VEGETATION INDICES.' 36-MO
Period *Obligations*
03/18/1994-02/28/1997 FY95: TOTAL: \$105,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B J YODER HQ/D E WICKLAND 39-Env Sci, NEC
W E WINDER HQ/A C JANETOS

NAS 1-19952 Oregon State University 7186
SCIENCE SUPPORT TO THE LITE SCIENCE TEAM
Period *Obligations*
05/14/1993-05/12/1996 FY95: \$60,000 TOTAL: \$115,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A COAKLEY LARC/G L MADDREA 31-Atmos Sci

NAGW 4104 Oregon State University 7179
THE IMPACT OF EL NINO ON TIDAL MIXING AND AIR-SEA INTERACTION
Period *Obligations*
08/05/1994-04/30/1995 FY95: TOTAL: \$41,175
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C PADEO HQ/J S THEON 33-Oceanography

NAS 5-31360 Oregon State University 7187
MODIS INVESTIGATION
Period *Obligations*
12/30/1991-12/14/2001 FY95: \$515,000 TOTAL: \$1,318,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M R ABBOTT GSFC/H OSEROFF 33-Oceanography

NAGW 4172 Oregon State University 7180
EXPERIMENTAL AND THEORETICAL STUDIES OF ORGANIC SYNTHESIS AND ALTERATION AT HYDROTHERMAL CONDITIONS
Period *Obligations*
10/20/1994-07/31/1995 FY95: \$79,998 TOTAL: \$79,998
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B SIMONEIT HQ/M MEYER 11-Astronomy

NAS 5-32965 Oregon State University 7188
SEAWINDS PRINCIPAL INVESTIGATOR AND SCIENCE TEAM ACTIVITIES
Period *Obligations*
09/15/1995-12/31/2004 FY95: \$500,000 TOTAL: \$500,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D H FREILICH GSFC/C RABER 31-Atmos Sci

NAGW 4436 Oregon State University 7181
EVALUATING ECOSYSTEM MODEL PREDICTIONS
Period *Obligations*
05/10/1995-03/31/1997 FY95: \$301,673 TOTAL: \$301,673
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M H UNSWORTH HQ/D E WICKLAND 39-Env Sci, NEC
T L CRAWFORD HQ/A C JANETOS

NCC 2-661 Oregon State University 7189
NUMERICAL SIMULATIONS OF THE MARTIAN ATMOSPHERE
Period *Obligations*
03/15/1990-10/31/1995 FY95: \$15,261 TOTAL: \$78,321
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J R BARNES ARC/R M HABERLE 31-Atmos Sci
ARC/J B POLLACK

NAGW 4596 Oregon State University 7182
COUPLED ATMOSPHERE OCEAN PROCESSES
Period *Obligations*
07/20/1995-06/30/1996 FY95: \$1,131,623 TOTAL: \$1,131,623
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M R ABBOTT HQ/M BALTUCK 33-Oceanography
HQ/D M BUTLER

NGT 00-030-188 Oregon State University 7190
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
09/01/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B SHERR HQ/G ASRAF 33-Oceanography
HQ/D M BUTLER

**NASA'S UNIVERSITY PROGRAM
OREGON (Continued)**

NGT 00-030-203 Oregon State University 7191
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/01/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 P SOLLINS HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-249 Oregon State University 7192
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/06/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J B KAUFMAN HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-263 Oregon State University 7193
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/22/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 M FREILICH HQ/R A SCHIFFER 33-Oceanography
 HQ/G ASRAR

NGT 00-040-033 Oregon State University 7194
 NATL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
 04/03/1991-02/28/1996 FY95: \$188,365 TOTAL: \$856,366
Prin. Invest. NASA Tech. Officer CASE Category
 D R CALDWELL HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-050-914 Oregon State University 7195
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/21/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R WARING HQ/J ALEXANDER 55-Agriculture Sci

NGT 00-070-193 Oregon State University 7196
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 06/04/1990-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M ABBOTT HQ/F C OWENS 32-Geological Sci

NGT 00-070-400 Oregon State University 7197
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 09/29/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D BELLA HQ/D K RUSSELL 75-Political Sci

NAG 8-222 Southern Oregon State College 7198
 JOVE
Period Obligations
 02/25/1992-04/30/1996 FY95: \$12,493 TOTAL: \$130,993
Prin. Invest. NASA Tech. Officer CASE Category
 J D'ALLURA MSFC/F SIX 11-Astronomy
 G STRINGER

NAG 1-963 University of Oregon - Eugene 7199
 ATMOSPHERIC AND SPECTROSCOPIC RESEARCH IN THE FAR
 INFRARED
Period Obligations
 02/27/1989-02/21/1995 FY95: TOTAL: \$670,339
Prin. Invest. NASA Tech. Officer CASE Category
 K J PARK LARC/I G NOLT 31-Atmos Sci

NAG 1-1427 University of Oregon - Eugene 7200
 EXCITATION OF ELECTRONIC STATES OF ATOMS AND MOLE CULES
 BY COLLISION WITH HEAVY GAS PARTICLES
Period Obligations
 05/08/1992-09/30/1993 FY95: TOTAL: \$45,537
Prin. Invest. NASA Tech. Officer CASE Category
 C F HANSEN LARC/P A GNOFFO 41-Aero Engr

NAG 1-1650 University of Oregon - Eugene 7201
 ATMOSPHERIC AND SPECTROSCOPIC RESEARCH IN THE FAR
 INFRARED NLPN 94-830
Period Obligations
 11/14/1994-02/21/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 K JAI-PARK LARC/I G NOLT 31-Atmos Sci
 LARC/T C STEELE

NAG 5-1903 University of Oregon - Eugene 7202
 KINEMATIC AND DYNAMIC MODELING OF WESTERN NORTH AM
 ERICAN TECTONIC ACTIVITY
Period Obligations
 02/20/1992-02/29/1996 FY95: \$93,000 TOTAL: \$332,000
Prin. Invest. NASA Tech. Officer CASE Category
 E D HUMPHREYS GSFC/B G BILLS 32-Geological Sci

NAG 5-2418 University of Oregon - Eugene 7203
 TIMING STUDIES OF NEUTRON STAR AND WHITE DWARF X-R AY
 BINARIES
Period Obligations
 11/06/1993-11/14/1995 FY95: \$34,900 TOTAL: \$69,100
Prin. Invest. NASA Tech. Officer CASE Category
 J IMAMURA GSFC/D WEST 11-Astronomy

NAG 5-2662 University of Oregon - Eugene 7204
 LOW SURFACE BRIGHTNESS GALAXIES IN THE VIT DATA BASE
Period Obligations
 07/29/1994-01/31/1996 FY95: TOTAL: \$28,000
Prin. Invest. NASA Tech. Officer CASE Category
 G D BOTHUN GSFC/D WEST 11-Astronomy

NAG 8-1047 University of Oregon - Eugene 7205
 THE NEAR-UV PROPERTIES OF GALAXIES WHICH HAVE LOW
 OPTICAL SURFACE BRIGHTNESS
Period Obligations
 03/16/1994-02/28/1996 FY95: \$38,953 TOTAL: \$77,906
Prin. Invest. NASA Tech. Officer CASE Category
 G D BOTHUN MSFC/J OWENS 31-Atmos Sci
 E P SMITH

NAGW 3354 University of Oregon - Eugene 7206
 NAGW-3354UNIV OREGON EUGENE/NUCLEATION OF QUANTIZE D
 VORTICES FROM ROTATING SUPERFLUID DROPS
Period Obligations
 01/27/1993-12/31/1995 FY95: \$200,000 TOTAL: \$300,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J DONNELLY HQ/M C LEE 13-Physics

**NASA'S UNIVERSITY PROGRAM
OREGON (Continued)**

NCC 2-882 University of Oregon - Eugene 7207
 MODIFICATION OF COMPUTER CODES FOR DETERMINING THE
 STRUCTURE OF THE ATMOSPHERE OF JUPITER AND USE OF.
Period Obligations
 01/09/1995-03/31/1996 FY95: \$59,982 TOTAL: \$59,982
Prin. Invest. NASA Tech. Officer CASE Category
 D B KIRK ARC/L E LASHER 31-Atmos Sci
 ARC/R E YOUNG

NAG 1-1666 Carnegie - Mellon University 7214
 PSEUDO-TIME ONE-SHOT METHODS FOR CONSTRAINED OPTIM
 IZATION PROBLEMS
Period Obligations
 01/13/1995-01/12/1996 FY95: \$69,838 TOTAL: \$69,838
Prin. Invest. NASA Tech. Officer CASE Category
 S TA'ASAN LARC/M D SALAS 41-Aero Engr

NGT 00-051-307 University of Oregon - Eugene 7208
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/02/1994-06/30/1997 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 A MALONY ARC/K G STEVENS 22-Computer Science

NAG 1-1687 Carnegie - Mellon University 7215
 CANONICAL VARIABLES MULTIGRID METHOD FOR COMPRESSIBLE
 NAVIER-STOKES EQUATIONS
Period Obligations
 01/20/1995-01/19/1996 FY95: \$30,576 TOTAL: \$30,576
Prin. Invest. NASA Tech. Officer CASE Category
 S TA'ASAN LARC/W K ANDERSON 41-Aero Engr

NAG 2-634 Carnegie - Mellon University 7216
 MODELLING THE NASA TEST DIRECTOR
Period Obligations
 05/02/1990-12/31/1993 FY95: TOTAL: \$398,707
Prin. Invest. NASA Tech. Officer CASE Category
 B E JOHN ARC/R W REWINGTON 69-Psych, NEC
 D STEIER ARC/M G SHAFFE
 A NEWELL

PENNSYLVANIA

NGT 00-090-183 Bryn Mawr College 7209
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1995 FY95: TOTAL: \$19,000
Prin. Invest. NASA Tech. Officer CASE Category
 V DONNAY HQ/D RUSSELL 99-Multi-Discip

NAG 3-929 Carnegie - Mellon University 7217
 NUM STUDY OF THE FLOW FIELDS INSIDE COMP AND TURB COMP
 OF GAS TURB ENG
Period Obligations
 09/18/1988-11/16/1994 FY95: TOTAL: \$400,708
Prin. Invest. NASA Tech. Officer CASE Category
 T I SHIH LERC/R J ROELKE 41-Aero Engr
 LERC/R D MOORE

NAG 5-2509 Bucknell University 7210
 DESIGN OF ROUTERS FOR MASSIVELY PARALLEL COMPUTERS
 WITH GREATER THAN A MILLION PROCESSORS
Period Obligations
 02/08/1994-09/30/1995 FY95: TOTAL: \$39,991
Prin. Invest. NASA Tech. Officer CASE Category
 M F ABURDENE GSFC/J E DORBAND 22-Computer Science

NAG 3-1009 Carnegie - Mellon University 7218
 NUMERICAL STUDIES OF COMBUSTION PROCESS IN HSCT AN D
 SMALL GAS TURBINE ENGINES
Period Obligations
 02/14/1989-12/31/1994 FY95: TOTAL: \$460,000
Prin. Invest. NASA Tech. Officer CASE Category
 J I RAMOS LERC/H L NGUYEN 46-Mech Engr
 T I SHIH

NAG 5-2934 Bucknell University 7211
 DESIGN OF A MICROCONTROLLER FOR A MASSIVELY PARALLEL
 COMPUTER WITH GREATER THAN A MILLION ETC.
Period Obligations
 05/15/1995-07/31/1996 FY95: \$28,695 TOTAL: \$28,695
Prin. Invest. NASA Tech. Officer CASE Category
 M F ABURDENA GSFC/J K DORBAND 45-Elec Engr

NAG 3-1390 Carnegie - Mellon University 7219
 MICROSCALE HYDRODYNAMICS NEAR MOVING CONTACT LINES
Period Obligations
 12/01/1992-11/30/1995 FY95: \$164,991 TOTAL: \$506,223
Prin. Invest. NASA Tech. Officer CASE Category
 S GAROFF LERC/R L THOMPSON 19-Phys Sci, NEC

NAGW 3377 Bucknell University 7212
 EFFECTS OF NON-SPHERICITY AND HETEROGENEITY ON LIGHT
 SCATTERING FROM COMETARY DUST.
Period Obligations
 01/01/1993-12/31/1994 FY95: TOTAL: \$44,117
Prin. Invest. NASA Tech. Officer CASE Category
 D J LIEN HQ/J M BOYCE 32-Geological Sci

NAG 3-1505 Carnegie - Mellon University 7220
 TRANSPORT PHENOMENA IN STRATIFIED MULTI-FLUID FLOW IN
 THE PRESENCE AND IN THE ABSENCE OF GRAVITY
Period Obligations
 06/23/1993-07/12/1996 FY95: \$130,000 TOTAL: \$390,000
Prin. Invest. NASA Tech. Officer CASE Category
 N CHIGIER LERC/R L THOMPSON 19-Phys Sci, NEC

NAG 1-1075 Carnegie - Mellon University 7213
 RESEARCH ON CONTROL OF REDUNDANT MANIPULATORS
Period Obligations
 01/11/1990-12/31/1994 FY95: \$1 TOTAL: \$268,545
Prin. Invest. NASA Tech. Officer CASE Category
 P K KHOSLA LARC/P W GOODE 29-Math/Cmputer, NEC
 LARC/S L VAZQUEZ

NAG 3-1727 Carnegie - Mellon University 7221
 NUMERICAL SIMULATION OR TURBINE BLADE COOLING
Period Obligations
 04/01/1995-03/30/1996 FY95: \$47,818 TOTAL: \$47,818
Prin. Invest. NASA Tech. Officer CASE Category
 T I-P SHIH LERC/K C CIVINSKAS 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAG 5-1468 Carnegie - Mellon University 7222
 RESEARCH RELATIVE TO AVOIDING SPACE ROBOT COLLISIONS
 UTILIZING TRI-MODE SKIN SENSORS
Period Obligations
 09/20/1990-10/31/1995 FY95: \$20,060 TOTAL: \$187,117
Prin. Invest. NASA Tech. Officer CASE Category
 F PRINZ GSFC/J M VRANISH 22-Computer Science
 S MAHALINGAM

NCC 2-707 Carnegie - Mellon University 7230
 CONSTRAINT-DIRECTED INTEGRATION OF SCHEDULING AND P
 LANNING WITH APPLICATIONS TO SPACE TELESCOPE.....
Period Obligations
 03/08/1991-09/30/1995 FY95: \$80,000 TOTAL: \$450,000
Prin. Invest. NASA Tech. Officer CASE Category
 S F SMITH ARC/S LAU 22-Computer Science
 ARC/P H LAIRD

NAG 8-964 Carnegie - Mellon University 7223
 ELECTROKINETIC TRANSPORT OF HETEROGENEOUS PARTICLE IN
Period Obligations
 05/26/1993-12/31/1995 FY95: \$93,000 TOTAL: \$278,145
Prin. Invest. NASA Tech. Officer CASE Category
 J L ANDERSON MSFC/T MILLER 19-Phys Sci, NEC
 S GAROFF

NCC 2-845 Carnegie - Mellon University 7231
 NUMERICAL STUDY OF BOUNDARY-LAYER CONTROL IN AEROD
 YNAMICS
Period Obligations
 03/14/1994-12/31/1995 FY95: \$90,000 TOTAL: \$158,887
Prin. Invest. NASA Tech. Officer CASE Category
 T I SHIH ARC/W J CHYU 41-Aero Engr
 ARC/D P BENCZE

NAGW 1175 Carnegie - Mellon University 7224
 AUTONOMOUS PLANETARY ROVER
Period Obligations
 10/19/1987-09/30/1995 FY95: \$379,715 TOTAL: \$10,655,094
Prin. Invest. NASA Tech. Officer CASE Category
 T KANADE HQ/D LAVERY 49-Engr, NEC
 T MITCHELL HQ/C B SOLLOWAY
 W L WHITTAKER

NCC 2-5057 Carnegie - Mellon University 7232
 DEVELOPING A GRID GENERATION METHODOLOGY FOR THE N
 UMERICAL STUDY OF INLET BLEED
Period Obligations
 05/19/1994-10/15/1994 FY95: TOTAL: \$6,432
Prin. Invest. NASA Tech. Officer CASE Category
 T I SHIH ARC/W J CHYU 41-Aero Engr

NAGW 2998 Carnegie - Mellon University 7225
 EREBUS EXPLORER
Period Obligations
 03/24/1992-06/30/1995 FY95: \$45,000 TOTAL: \$3,997,664
Prin. Invest. NASA Tech. Officer CASE Category
 R WHITTAKER HQ/D LAVERY 49-Engr, NEC

NGT 00-050-559 Carnegie - Mellon University 7233
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1990-07/31/1994 FY95: TOTAL: \$77,000
Prin. Invest. NASA Tech. Officer CASE Category
 T KANADE HQ/V C OWENS 45-Elec Engr

NAGW 3863 Carnegie - Mellon University 7226
 LUNAR ROVER DEMONSTRATION
Period Obligations
 01/26/1994-12/31/1995 FY95: \$870,285 TOTAL: \$1,545,885
Prin. Invest. NASA Tech. Officer CASE Category
 W L WHITTAKER HQ/D B LAVERN 49-Engr, NEC

NGT 00-050-823 Carnegie - Mellon University 7234
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/12/1991-07/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A W THOMPSON HQ/F C OWENS 47-Materials Engr

NAGW 3903 Carnegie - Mellon University 7227
 ROBOTICS ENGINEERING CONSORTIUM: COMMERCIALIZATION OF
 NASA ROBOTIC TECHNOLOGY
Period Obligations
 04/11/1994-01/31/1997 FY95: \$1,000,149 TOTAL: \$1,999,964
Prin. Invest. NASA Tech. Officer CASE Category
 W L WHITTAKER HQ/D B LAVERY 44-Civil Engr

NGT 00-050-965 Carnegie - Mellon University 7235
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/15/1992-09/14/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 H T KUNG HQ/P HUNTER 22-Computer Science

NAG10-95 Carnegie - Mellon University 7228
 CONFIGURATION OF PRECISION MECHANISM FOR SPACE SHUTTLE
 TILE PROCESSING
Period Obligations
 12/16/1991-12/15/1994 FY95: TOTAL: \$1,447,587
Prin. Invest. NASA Tech. Officer CASE Category
 W L WHITTAKER KSC/T GRAHAM 99-Multi-Discip

NGT 00-050-990 Carnegie - Mellon University 7236
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 T KANADE LARC/E J PRIOR 45-Elec Engr

NAS 8-38348 Carnegie - Mellon University 7229
 MODELING THE EFFECTS OF SHROUD CONTACT AND FRICTION
 DAMPERS ON THE MISTUNED RESPONSE OF TURBO-PUMPS
Period Obligations
 05/15/1991-12/31/1994 FY95: TOTAL: \$255,000
Prin. Invest. NASA Tech. Officer CASE Category
 J H GRIFFIN MSFC/L A KIEFLING 46-Mech Engr
 MSFC/K K MIMS

NGT 00-050-995 Carnegie - Mellon University 7237
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/17/1992-09/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 B MOREL HQ/J K ALEXANDER 49-Engr, NEC

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NGT 00-051-026 Carnegie - Mellon University 7238
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/14/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
S A SHAFER ARC/M MOORE 22-Computer Science

NGT 00-090-267 Carnegie - Mellon University 7247
UGSRP/UMF
Period Obligations
02/03/1995-08/14/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
R P KAIL HQ/D RUSSELL 99-Multi-Discip

NGT 00-051-039 Carnegie - Mellon University 7239
NGT-51039/CARNEGIE MELLON UNIV/GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/05/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
R SIMMONS JPL/C HIX 45-Elec Engr
T MITCHELL

NGT 9-1 Carnegie - Mellon University 7248
APPLICATIONS TO VISION /AUTONOMOUS VEHICLE CONTROL
Period Obligations
05/31/1991-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
D A POWERLAAN JSC/D G RICKORES 22-Computer Science

NGT 00-051-045 Carnegie - Mellon University 7240
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/14/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
E KROTKOV MSFC/F SIX 45-Elec Engr

NAG 1-1224 Drexel University 7249
SULPHUR GAS MEASUREMENTS BY GAS CHROMATOGRAPHY/ MASS SPECTROMETRY W/ISOTOPICALLY LABELLED INTERNAL
Period Obligations
02/15/1991-03/31/1996 FY95: \$89,397 TOTAL: \$804,397
Prin. Invest. NASA Tech. Officer CASE Category
A R BANDY LARC/R J BENDURA 31-Atmos Sci
D C THORNTON LARC/J M HOELL

NGT 00-051-162 Carnegie - Mellon University 7241
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/05/1993-12/21/1994 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
J M PEHA HQ/P HUNTER 22-Computer Science

NAG 1-1770 Drexel University 7250
A STUDY OF DMS AND SO2 ON PEM-TROPICS MY 1/2
Period Obligations
09/29/1995-03/31/1997 FY95: \$354,000 TOTAL: \$354,000
Prin. Invest. NASA Tech. Officer CASE Category
D R BANDY LARC/J M HOELL JR. 31-Atmos Sci
LARC/R J BENDURA

NGT 00-051-231 Carnegie - Mellon University 7242
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/16/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
B V KUMAR JSC/S GOLDSTEIN 45-Elec Engr

NAG 2-876 Drexel University 7251
DEVELOPMENT OF AN ATMOSPHERIC PRESSURE IONIZATION MASS SPECTROMETER (APIMS)
Period Obligations
12/17/1993-09/30/1995 FY95: \$72,090 TOTAL: \$382,590
Prin. Invest. NASA Tech. Officer CASE Category
A R BRANDY ARC/E P CONDON 31-Atmos Sci
ARC/A P MARGOZZI

NGT 00-051-272 Carnegie - Mellon University 7243
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/26/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
M ERDMANN JPL/C HIX 22-Computer Science

NAG 3-1059 Drexel University 7252
DEVELOPMENT OF IMPROVED HYPERSONIC ENGINE SEALS
Period Obligations
06/30/1989-10/06/1994 FY95: \$647,100 TOTAL: \$647,100
Prin. Invest. NASA Tech. Officer CASE Category
F K KO LERC/B M STEINETZ 46-Mech Engr
R MUTHARASON
P PASTORE

NGT 00-051-275 Carnegie - Mellon University 7244
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/26/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
W WHITTAKER JPL/C HIX 22-Computer Science

NAG 3-1347 Drexel University 7253
THERMAL DURABILITY OF SAPPHIRE OPTICAL WAVEGUIDES PROCESSED INTO HIGH TEMPERATURE CERAMIC COMPOSITES
Period Obligations
04/23/1992-06/30/1995 FY95: \$70,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
M A EL-SHERIF LERC/D J ROTH 47-Materials Engr

NGT 00-051-292 Carnegie - Mellon University 7245
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/06/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
C THORPE HQ/D HOLLAND 22-Computer Science

NAG 3-1421 Drexel University 7254
FUEL-AIR MIXING IN LEAN BURN DIRECT INJECTION COMBUSTION
Period Obligations
12/17/1992-02/20/1996 FY95: \$54,519 TOTAL: \$158,326
Prin. Invest. NASA Tech. Officer CASE Category
K J CHOI LERC/R R TACINA 41-Aero Engr

NGT 00-090-184 Carnegie - Mellon University 7246
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
R KAIL HQ/D RUSSELL 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAG 3-1715 Drexel University 7255
 IN VIVO EVALUATION OF A NOVEL AND IMPROVED INSTRUMENT FOR OBJECTIVE EVALUATION OF OPHTHALMIC LENS OP
Period *Obligations*
 03/01/1995-02/29/1996 FY95: \$7,770 TOTAL: \$7,770
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S DUBIN VMD LERC/J S LING 56-Medical Sciences
 LERC/B S SINGH

NAGW 3521 Lafayette College 7263
 NAGW-3521/LAFAYETTE COLLEGE/DENSITIES AND PHASE EQUILIBRIA TO 1.4 GPA AND 120K
Period *Obligations*
 04/16/1993-02/28/1996 FY95: \$35,790 TOTAL: \$110,028
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D HOGENBLOOM HQ/J BOYCE 32-Geological Sci

NAG 8-298 Drexel University 7256
 IMPACT OF TEMPORAL AND SPATIAL RESOLUTION ON HEAT AND MOISTURE BUDGET DIAGNOSTICS
Period *Obligations*
 07/08/1993-07/07/1994 FY95: TOTAL: \$16,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D PERKEY MSFC/F ROBERTSON 54-Env Biology

NAG 1-1477 Lehigh University 7264
 A LINKAGE SUSPENSION SYSTEM FOR FLEXIBLE SPACE ROBOTS NLPN 92-1223
Period *Obligations*
 02/01/1993-11/30/1995 FY95: TOTAL: \$62,498
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M CHEW LARC/J JUANG 42-Astro Engr
 LARC/L G HORTA

NAGW 2559 Drexel University 7257
 NAGW-2559/DREXEL UNIV/STAR CLUSTER EVOLUTION WITH PRIMORDIAL BINARIES
Period *Obligations*
 06/13/1991-02/28/1996 FY95: \$43,000 TOTAL: \$206,480
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S L MCILLAN HQ/D P HUENEMOERDER 11-Astronomy
 HQ/E J WEILER

NAG 3-1578 Lehigh University 7265
 HYPERSONIC THREE - DIMENSIONAL BOUNDARY LAYER SEPARATION
Period *Obligations*
 03/08/1994-04/04/1996 FY95: \$35,000 TOTAL: \$95,389
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J D WALKER LERC/L A POVINELLI 41-Aero Engr

NAGW 3738 Drexel University 7258
 DEVELOPMENT OF INSTRUCTIONAL MATERIALS BASED ON THE GREENHOUSE
Period *Obligations*
 09/08/1993-12/31/1994 FY95: TOTAL: \$80,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D R BROOKE HQ/R A SCHIFFER 59-Life Sci, NEC
 HQ/D M BUTLER

NAG 3-1632 Lehigh University 7266
 LOW DIMENSIONAL MODELS FOR THERMOCAPILLARY CONVECTIVE FLOWS IN CRYSTALS PROCESSES
Period *Obligations*
 06/24/1994-08/22/1996 FY95: \$49,831 TOTAL: \$99,647
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A LIAKOPOULOS LERC/R J SKARDA 46-Mech Engr
 P A BLYTHE

NCC 1-171 Drexel University 7259
 NEURAL CONTROL OF MAGNETIC SUSPENSION SYSTEMS FOR AEROSPACE APPLICATIONS
Period *Obligations*
 03/12/1993-12/31/1995 FY95: \$13,472 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S GRAY LARC/D I SOLOWAY 45-Elec Engr
 LARC/P J HALEY

NAG 5-2100 Lehigh University 7267
 MASS FLOW IN THE INTERACTING SEMI-DETACHED BINARY DELTA LIBRAE
Period *Obligations*
 09/15/1992-01/31/1995 FY95: TOTAL: \$32,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G E MCCLUSKEY GSFC/D WEST 11-Astronomy

NCC 3-149 Drexel University 7260
 FIBER OPTIC LINKS FOR MILLIMETER WAVE PHASED ARRAY ANTENNAS IN COMMUNICATION SATELLITES II
Period *Obligations*
 09/22/1989-09/30/1994 FY95: TOTAL: \$264,750
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A S DARYOUSH LERC/R R KUNATH 45-Elec Engr

NAG 8-972 Lehigh University 7268
 MONODISPERSE POLYMER PARTICLES CONTAINING LASER-EXCITABLE DYES
Period *Obligations*
 05/24/1993-06/14/1995 FY95: TOTAL: \$119,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J W VANDERHOFF MSFC/D M KORNFELD 12-Chemistry

NCC 3-363 Drexel University 7261
 MMIC CIRCUIT REALIZATION OF A KA-BAND SELF-OSCILLATING MIXER FOR OPTICALLY DISTRIBUTED COMM ARRAY A
Period *Obligations*
 11/01/1994-10/30/1995 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A S DARYOUSH LERC/R KUNATH 45-Elec Engr

NAGW 3374 Lehigh University 7269
 SHOCK AND THERMAL HISTORY OF IRON AND CHONDRITIC METEORITES
Period *Obligations*
 02/10/1993-02/28/1995 FY95: TOTAL: \$285,930
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J I GOLDSTEIN HQ/H C BRINTON 32-Geological Sci

NAG 5-3015 Haverford College 7262
 A SEARCH FOR HOT, DIFFUSE GAS IN SUPERCLUSTERS
Period *Obligations*
 07/19/1995-07/31/1996 FY95: \$18,700 TOTAL: \$18,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S P BOUGHN GSFC/D WEST 11-Astronomy

NGT 00-070-346 Lehigh University 7270
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
 08/12/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J RICLES HQ/D K RUSSELL 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAGW 4544 Lincoln University - Pa. 7271
 PACE/MSET PROGRAM (LINCOLN ADVANCE SCIENCE AND
 ENGINEERING REINFORCEMENT
Period Obligations
 06/16/1995-04/30/1998 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 W WILLIAMS HQ/B L WHITE 99-Multi-Discip

NAG 1-1095 Pennsylvania State Univ. - Univ. Park 7279
 EXTENDED FIELD OBSERVATIONS OF CIRRUS CLOUDS USING A
 GROUND BASED CLOUD OBSERVING SYSTEM
Period Obligations
 02/28/1990-07/31/1994 FY95: TOTAL: \$261,284
Prin. Invest. NASA Tech. Officer CASE Category
 T P ACKERMAN LARC/T OWENS 31-Atmos Sci
 B A ALBRECHT

NAGW 4654 Lincoln University - Pa. 7272
 PROJECT EXCITE: EXPLORING THE CHALLENGE OF INTEGRATING
 TECHNOLOGY AND EDUCATION
Period Obligations
 08/16/1995-06/30/1996 FY95: \$185,263 TOTAL: \$185,263
Prin. Invest. NASA Tech. Officer CASE Category
 J ISAAC HQ/B L WHITE 99-Multi-Discip

NAG 1-1367 Pennsylvania State Univ. - Univ. Park 7280
 COMPUTATIONAL AEROACOUSTICS USING NONLINEAR CFD
 TECHNIQUES ON PARALLEL COMPUTERS
Period Obligations
 01/15/1992-12/31/1995 FY95: \$50,000 TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
 L N LONG LARC/J W POSEY 41-Aero Engr
 LARC/W R WATSON

NGT 00-090-020 Lincoln University - Pa. 7273
 LINCOLN ADVANCED SCIENCE AND ENGINEERING REINFORCEMENT
 PROGRAM
Period Obligations
 08/23/1988-06/30/1996 FY95: \$90,000 TOTAL: \$670,000
Prin. Invest. NASA Tech. Officer CASE Category
 W WILLIAMS HQ/Y B FREEMAN 49-Engr, NEC

NAG 1-1371 Pennsylvania State Univ. - Univ. Park 7281
 ANALYSIS OF IMAGE SEQUENCES FROM SENSORS FOR
 RESTRICTED-VISIBILITY OPERATIONS
Period Obligations
 01/31/1992-05/31/1994 FY95: TOTAL: \$207,218
Prin. Invest. NASA Tech. Officer CASE Category
 R KASTURI LARC/R L HARRIS 29-Math/Computer, NEC
 LARC/V M BATSON

NAGW 4400 Pennsylvania State Univ - hershey Med. 7274
 EFFECTS OF BEDREST ON FOREARM MUSCLE
Period Obligations
 04/03/1995-02/28/1998 FY95: \$112,604 TOTAL: \$112,604
Prin. Invest. NASA Tech. Officer CASE Category
 L I SINOWAY HQ/V THORNE 56-Medical Sciences

NAG 1-1412 Pennsylvania State Univ. - Univ. Park 7282
 DEVELOPMENT OF A NEW OPTICAL INSTRUMENT FOR TURBULENCE
 MEASUREMENTS
Period Obligations
 03/24/1992-06/30/1995 FY95: TOTAL: \$208,000
Prin. Invest. NASA Tech. Officer CASE Category
 G S SETTLES LARC/L M WEINSTEIN 41-Aero Engr

NGT 00-070-327 Pennsylvania State Univ - hershey Med. 7275
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 07/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W SEVERS HQ/D K RUSSELL 56-Medical Sciences

NAG 1-1441 Pennsylvania State Univ. - Univ. Park 7283
 EEG AND CHAOS: DESCRIPTION OF UNDERLYING DYNAMICS AND
 ITS RELATION TO DISSOCIATIVE STATES
Period Obligations
 06/25/1992-09/30/1996 FY95: \$42,000 TOTAL: \$154,619
Prin. Invest. NASA Tech. Officer CASE Category
 M J RAY LARC/A T POPE 69-Psych, NEC

NAG 1-999 Pennsylvania State Univ. - Univ. Park 7276
 STUDIES OF RADIATION AND MICROPHYSICS IN CIRRUS AND
 MARINE STRATOCUMULUS
Period Obligations
 05/25/1989-11/30/1996 FY95: \$122,000 TOTAL: \$450,001
Prin. Invest. NASA Tech. Officer CASE Category
 T P ACKERMAN LARC/T OWENS 31-Atmos Sci

NAG 1-1479 Pennsylvania State Univ. - Univ. Park 7284
 COMPUTATIONAL AEROACOUSTICS AND NUMERICAL SIMULATION
 OF SUPERSONIC JETS NLPN 92-1121
Period Obligations
 02/25/1993-02/24/1996 FY95: \$60,000 TOTAL: \$254,048
Prin. Invest. NASA Tech. Officer CASE Category
 P J MORRIS LARC/W E ZORUMSKI 41-Aero Engr
 L N LONG

NAG 1-1047 Pennsylvania State Univ. - Univ. Park 7277
 THE AEROACOUSTICS OF SUPERSONIC JET
Period Obligations
 08/16/1989-06/30/1995 FY95: TOTAL: \$525,533
Prin. Invest. NASA Tech. Officer CASE Category
 P J MORRIS LARC/J M SEINER 41-Aero Engr
 D K MCLAUGHLIN LARC/J S PREISSER

NAG 1-1547 Pennsylvania State Univ. - Univ. Park 7285
 EXTENDED FIELD OBSERVATIONS OF CIRRUS CLOUDS USING A
 GROUND-BASED CLOUD OBSERVING SYSTEM NLPN 93-70
Period Obligations
 09/28/1993-11/30/1995 FY95: TOTAL: \$82,000
Prin. Invest. NASA Tech. Officer CASE Category
 T P ACKERMAN LARC/D S MCDUGAL 31-Atmos Sci
 B A ALBRECHT LARC/T L OWENS

NAG 1-1057 Pennsylvania State Univ. - Univ. Park 7278
 IN SITU DETECTION OF TROPOSPHERIC OH, HO₂, NO₂, AND NO BY
 LASER INDUCED FLUORESCENCE IN DETECTION
Period Obligations
 08/31/1989-03/31/1996 FY95: \$124,000 TOTAL: \$746,631
Prin. Invest. NASA Tech. Officer CASE Category
 W H BRUNE LARC/J M HOELL 31-Atmos Sci
 LARC/R J BENDURA

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAG 1-1554 Pennsylvania State Univ. - Univ. Park 7286
 A FUNDAMENTAL STUDY OF LASER BEAM WELDING ALUMINUM
 LITHIUM ALLOY 2195 FOR CRYOGNEIC TANKAGE APPLICAT

<i>Period</i>	<i>Obligations</i>	
11/24/1993-05/31/1995	FY95:	TOTAL: \$49,985
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R P MARTUKANITZ	LARC/C L LACH	47-Materials Engr
	LARC/D M ROYSTER	

NAG 2-938 Pennsylvania State Univ. - Univ. Park 7293
 ADAPTATION OF AN INSITU GROUND-BASED TROPOSPHERIC
 OH/HO2 INSTRUMENT FOR AIRCRAFT USE

<i>Period</i>	<i>Obligations</i>	
11/02/1994-06/30/1996	FY95: \$572,558	TOTAL: \$572,558
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W H BRUNE	ARC/E P CONDON	31-Atmos Sci
	ARC/O B TOON	

NAG 1-1557 Pennsylvania State Univ. - Univ. Park 7287
 ACTIVE MINIMIZATION OF ENERGY DENSITY IN THREE-
 DIMENSIONAL ENCLOSURES

<i>Period</i>	<i>Obligations</i>	
01/12/1994-12/14/1995	FY95: \$52,871	TOTAL: \$111,924
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S D SOMMERFELDT	LARC/V L METCALF	49-Engr, NEC
	LARC/R J SILCOX	

NAG 3-555 Pennsylvania State Univ. - Univ. Park 7294
 3-D FLOW FIELD IN A TURBINE NOZZLE AND ROTOR BLADE
 ROWS

<i>Period</i>	<i>Obligations</i>	
06/18/1984-03/09/1995	FY95:	TOTAL: \$602,062
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B LAKSHMINARAYANA	LERC/R J BOYLE	41-Aero Engr
	LERC/R E GAUGLER	

NAG 1-1638 Pennsylvania State Univ. - Univ. Park 7288
 SONIC BOOM NOISE PENETRATION INTO THE OCEAN MY 1/3

<i>Period</i>	<i>Obligations</i>	
08/15/1994-08/14/1996	FY95: \$50,856	TOTAL: \$60,856
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
V W SPARROW	LARC/G L MCANINCH	41-Aero Engr

NAG 3-991 Pennsylvania State Univ. - Univ. Park 7295
 CHEMICAL KINETICS OF AIR PROPULSION

<i>Period</i>	<i>Obligations</i>	
02/28/1989-12/31/1994	FY95:	TOTAL: \$375,317
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M Y FRENKLACH	LERC/M J RABINOWITZ	12-Chemistry
	LERC/E A LEZBERG	

NAG 1-1646 Pennsylvania State Univ. - Univ. Park 7289
 EXTENSION AND VALIDATION OF FDTD FOR SCATTERING FR OM
 TARGETS WHICH INCLUDE THIN RAM COATINGS

<i>Period</i>	<i>Obligations</i>	
10/06/1994-10/05/1995	FY95: \$50,880	TOTAL: \$50,880
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R LUEBBERS	LARC/F B BECK	45-Elec Engr
	LARC/K J MOELLER	

NAG 3-1020 Pennsylvania State Univ. - Univ. Park 7296
 FLOWFIELD ANALYSIS OF LOW REYNOLDS NUMBER ROCKET E
 NGINES

<i>Period</i>	<i>Obligations</i>	
03/27/1989-01/14/1995	FY95:	TOTAL: \$249,952
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C L MERKLE	LERC/P F PENKO	41-Aero Engr

NAG 2-751 Pennsylvania State Univ. - Univ. Park 7290
 LABORATORY INVESTIGATIONS OF THE MICROPHYSICS AND C
 HEMISTRY OF AQUEOUS PARTICLES TYPICAL OF THE

<i>Period</i>	<i>Obligations</i>	
12/13/1991-10/31/1995	FY95:	TOTAL: \$297,588
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W H BRUNE	ARC/E P CONDON	31-Atmos Sci
D LAMB		
B KENDALL		

NAG 3-1044 Pennsylvania State Univ. - Univ. Park 7297
 IGNITION AND COMBUSTION CHARACTERICTICS FO METALLIZE D
 PROPELLANTS

<i>Period</i>	<i>Obligations</i>	
05/30/1989-05/31/1994	FY95:	TOTAL: \$204,219
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S R TURNS	LERC/B PALASZEWSKI	46-Mech Engr

NAG 2-826 Pennsylvania State Univ. - Univ. Park 7291
 PARTICIPATION AS MISSION SCIENTIST FOR THE SPADEII MISSION

<i>Period</i>	<i>Obligations</i>	
02/22/1993-01/31/1996	FY95: \$216,643	TOTAL: \$510,643
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W BRUNE	ARC/E CONDON	31-Atmos Sci

NAG 3-1052 Pennsylvania State Univ. - Univ. Park 7298
 ANALYSIS OF FOIL BEARINGS FOR HIGH SPEED OPERATION IN
 CRYOGENIC APPLICATIONS

<i>Period</i>	<i>Obligations</i>	
06/07/1989-01/31/1996	FY95:	TOTAL: \$295,187
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M CARPINO	LERC/J F WALKER	46-Mech Engr

NAG 2-867 Pennsylvania State Univ. - Univ. Park 7292
 ADVANCED METHODS FOR COMPUTATIONAL ELECTROMAGNETIC
 S: FINITE DIFFERENT TIME DOMAIN

<i>Period</i>	<i>Obligations</i>	
08/11/1993-04/14/1995	FY95:	TOTAL: \$138,313
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R J LUEBBERS	ARC/A C WOO	45-Elec Engr
L N LONG	ARC/M J SCHUH	

NAG 3-1168 Pennsylvania State Univ. - Univ. Park 7299
 COMPUT AND TURLBUL MODELING FOR THE PRED OF UNSTEADY
 FLOW FIELD DUE TO ROTOR/STATOR INTERACT IN TURBS

<i>Period</i>	<i>Obligations</i>	
05/10/1990-09/29/1995	FY95:	TOTAL: \$179,833
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B LAKSHMINARAYANA	LERC/P M SOCKOL	41-Aero Engr

NAG 3-1222 Pennsylvania State Univ. - Univ. Park 7300
 EXPERIMENTAL INVESTIGATION OF SPANWISE MIXING PHEN
 OMENA AND 3D FLOW FIELD IN MULTISTAGE COMPRESSORS

<i>Period</i>	<i>Obligations</i>	
12/19/1990-06/15/1995	FY95:	TOTAL: \$213,991
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B LAKSHMINARAYANA	LERC/A J STRAZISAR	41-Aero Engr
	LERC/J J ADAMCZYK	

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAG 3-1287 Pennsylvania State Univ. - Univ. Park 7301
THE GRAVITATIONAL ROLE IN LIQUID PHASE SINTERING
Period Obligations
07/03/1991-10/31/1995 FY95: \$180,000 TOTAL: \$704,000
Prin. Invest. NASA Tech. Officer CASE Category
R M GERMAN LERC/R L DEWITT 47-Materials Engr

NAG 3-1365 Pennsylvania State Univ. - Univ. Park 7302
QUANTITATIVE GUIDED WAVE ANALYSIS FOR ACUSTO-ULTRA SONIC NDE
Period Obligations
09/09/1992-06/30/1995 FY95: \$18,000 TOTAL: \$61,000
Prin. Invest. NASA Tech. Officer CASE Category
J L ROSE LERC/A VARY 47-Materials Engr

NAG 3-1485 Pennsylvania State Univ. - Univ. Park 7303
DUCT FLOWS WITH VORTEX GENERATORS
Period Obligations
05/12/1993-05/14/1994 FY95: TOTAL: \$49,605
Prin. Invest. NASA Tech. Officer CASE Category
H MCDONALD LERC/B H ANDERSON 41-Aero Engr

NAG 3-1492 Pennsylvania State Univ. - Univ. Park 7304
MIXING ENHANCEMENT IN SUPERSONIC SHEAR LAYERS
Period Obligations
05/07/1993-10/31/1994 FY95: TOTAL: \$99,992
Prin. Invest. NASA Tech. Officer CASE Category
P J MORRIS LERC/K Q ZAMAN 46-Mech Engr
D K MCLAUGHLIN

NAG 3-1563 Pennsylvania State Univ. - Univ. Park 7305
COMPUTATIONAL ASSESSMENT OF PLUG NOZZLES AS SUPERS ONIC JET NOISE SUPPRESSORS
Period Obligations
01/18/1994-01/13/1995 FY95: \$2,800 TOTAL: \$32,800
Prin. Invest. NASA Tech. Officer CASE Category
I S DAS LERC/E A KREJSA 41-Aero Engr
LERC/J F GROENEWEG

NAG 3-1586 Pennsylvania State Univ. - Univ. Park 7306
NEURAL-NETWORK-BASED ANALYSIS OF SPACE ACCELERATIO N MEASUREMENT SYSTEM (SAMS) DATA
Period Obligations
04/04/1994-07/09/1996 FY95: \$55,000 TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
A SINHA LERC/C M GRODSINSKY 42-Astro Engr

NAG 3-1590 Pennsylvania State Univ. - Univ. Park 7307
EFFECTIVE GRADIENT - BASED AND GENETIC SEARCH METH ODS FOR MULTIOBJECTIVE OPMITIZATION
Period Obligations
04/25/1994-04/24/1995 FY95: TOTAL: \$38,856
Prin. Invest. NASA Tech. Officer CASE Category
A D BELEGUNDU LERC/P L MURTHY 41-Aero Engr
LERC/D A HOPKINS

NAG 3-1673 Pennsylvania State Univ. - Univ. Park 7308
INVESTIGATION OF ADVANCED CONTROL CONCEPTS FOR LIF EXTENSION O AEROSPACE SYSTEM
Period Obligations
09/27/1994-09/26/1995 FY95: TOTAL: \$29,960
Prin. Invest. NASA Tech. Officer CASE Category
A RAY LERC/C F LORENZO 46-Mech Engr
M CARPINO
MISZNAIER

NAG 3-1708 Pennsylvania State Univ. - Univ. Park 7309
COMPUTATIONAL NOISE STUDIES OF SHORT CONICAL PLUG- NOZZLE AND EQUIVALENT CONVERGENT AND CD NOZZLES
Period Obligations
02/01/1995-01/31/1996 FY95: \$74,248 TOTAL: \$74,248
Prin. Invest. NASA Tech. Officer CASE Category
I S DAS LERC/E A KREJSA 41-Aero Engr
LERC/J F GROENEWEG

NAG 3-1735 Pennsylvania State Univ. - Univ. Park 7310
FLOW FIELD ANALYSIS OF LOW REYNOLDS NUMBER ROCKET ENGINES
Period Obligations
04/13/1995-04/12/1996 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
C L MERKLE LERC/S SCHNEIDER 46-Mech Engr

NAG 3-1736 Pennsylvania State Univ. - Univ. Park 7311
THREE-DIMENSIONAL FLOW FIELD IN A TURBINE NOZZLE A ND ROTOR BLADE FLOWS
Period Obligations
04/17/1995-04/16/1996 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
B LAKSHMINARAYANA LERC/R BOYLE 41-Aero Engr

NAG 3-1745 Pennsylvania State Univ. - Univ. Park 7312
EXPERIMENTAL INVESTIGATION OF SPANWISE MIXING PHEN OMENA AND 3D UNSTEADY FLOW FIELD IN MULTISTAGE CO
Period Obligations
05/26/1995-11/25/1995 FY95: \$31,143 TOTAL: \$31,143
Prin. Invest. NASA Tech. Officer CASE Category
B LAKSHMINARAYANA LERC/A STRAZIAR 41-Aero Engr

NAG 3-1781 Pennsylvania State Univ. - Univ. Park 7313
DUCT FLOWS WITH VORTEX GENERATORS
Period Obligations
08/23/1995-08/22/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
D MCDONALD LERC/R H ANDERSON 41-Aero Engr

NAG 5-100 Pennsylvania State Univ. - Univ. Park 7314
HIGH ANGULAR RESOLUTION X-RAY AND XUV ASTROROMY OBSERVATIONS
Period Obligations
10/01/1980-12/31/1995 FY95: \$853,000 TOTAL: \$6,821,900
Prin. Invest. NASA Tech. Officer CASE Category
G P GARMIE GSFC/L J EARLY 11-Astronomy
GSFC/R H PLESS

NAG 5-643 Pennsylvania State Univ. - Univ. Park 7315
OPTIMIZATION OF BALLOON FILM TOUGHNESS
Period Obligations
04/01/1987-05/14/1996 FY95: \$86,007 TOTAL: \$1,372,935
Prin. Invest. NASA Tech. Officer CASE Category
I R HARRISON GSFC/I S SMITH 99-Multi-Discip
J P HUNT GSFC/H C NEEDLEMAN

NAG 5-683 Pennsylvania State Univ. - Univ. Park 7316
MIDDLE ATMOSPHERE ELECTRODYNAMICS DURING A THUNDERSTORM
Period Obligations
04/30/1991-09/30/1995 FY95: TOTAL: \$415,000
Prin. Invest. NASA Tech. Officer CASE Category
C L CROSKEY GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAG 5-1678 Pennsylvania State Univ. - Univ. Park 7317
PRE-MAIN SEQUENCE STARS IN THE CHAMAELEON CLOUD;
PRE-MAIN SEQUENCE STARS IN THE RHO OPHIUCHI CLOUD

<i>Period</i>	<i>Obligations</i>	
06/27/1991-06/30/1996	FY95: \$19,478	TOTAL: \$95,478
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D FEIGELSON	GSFC/R PETRE	11-Astronomy

NAG 5-2125 Pennsylvania State Univ. - Univ. Park 7325
ADVANCED MODELS OF ACCRETION DISK ATMOSPHERES AND
SPECTRA FOR CLOSE BINARY STARS

<i>Period</i>	<i>Obligations</i>	
10/26/1992-10/31/1994	FY95:	TOTAL: \$82,300
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
WADE	GSFC/D WEST	11-Astronomy

NAG 5-1698 Pennsylvania State Univ. - Univ. Park 7318
CNO PROCESSING IN MASSIVE ALGOL BINARIES

<i>Period</i>	<i>Obligations</i>	
07/15/1991-07/14/1996	FY95:	TOTAL: \$40,674
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R A WADE	GSFC/D WEST	11-Astronomy

NAG 5-2144 Pennsylvania State Univ. - Univ. Park 7326
A SYSTEMATIC STUDY OF X-RAY EMISSION FROM ACTIVE S
EMI-DETACHED SYSTEMS

<i>Period</i>	<i>Obligations</i>	
11/23/1992-11/30/1995	FY95:	TOTAL: \$15,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R A WADE	GSFC/R PETRE	11-Astronomy

NAG 5-1751 Pennsylvania State Univ. - Univ. Park 7319
ROSAT STUDY OF X-RAY FLICKERING ON II PEGASI AND OBS OF
FLARES IN II PEG THROUGH TIME SERIES SPECTROSC

<i>Period</i>	<i>Obligations</i>	
08/15/1991-08/14/1994	FY95:	TOTAL: \$9,762
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D P HUENEMOERDER	GSFC/R PETRE	11-Astronomy

NAG 5-2214 Pennsylvania State Univ. - Univ. Park 7327
ORBITAL PERIOD CHANGES IN THE LOW MASS X-RAY BINAR Y
EXO 0748-676

<i>Period</i>	<i>Obligations</i>	
02/18/1993-02/28/1995	FY95:	TOTAL: \$15,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R H CORBET	GSFC/R PETRE	11-Astronomy

NAG 5-1763 Pennsylvania State Univ. - Univ. Park 7320
VARIOUS ROSAT STUDIES

<i>Period</i>	<i>Obligations</i>	
09/06/1991-09/14/1996	FY95:	TOTAL: \$84,599
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F A DOMINIC	GSFC/R PETRE	11-Astronomy
CORDOVA		

NAG 5-2362 Pennsylvania State Univ. - Univ. Park 7328
COSMOLOGICAL GAMMA-RAY BURST MODELS: SIGNATURES A ND
CONSTRAINTS

<i>Period</i>	<i>Obligations</i>	
09/09/1993-10/14/1995	FY95: \$49,160	TOTAL: \$98,680
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P I MESZAROS	GSFC/J P NORRIS	11-Astronomy
	GSFC/N WHITE	

NAG 5-1786 Pennsylvania State Univ. - Univ. Park 7321
X-RAY SHADOWS AND THE ORIGIN OF THE GALACTIC DIFFU SE
X-RAY BACKGROUND AND ANALYSIS OF THE ROSAT OBS.

<i>Period</i>	<i>Obligations</i>	
10/16/1991-10/31/1994	FY95:	TOTAL: \$161,914
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D N BURROWS	GSFC/R PETRE	11-Astronomy

NAG 5-2437 Pennsylvania State Univ. - Univ. Park 7329
THE ERIDION BUBBLE

<i>Period</i>	<i>Obligations</i>	
11/16/1993-11/30/1995	FY95: \$25,000	TOTAL: \$60,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D BURROWS	GSFC/D WEST	11-Astronomy

NAG 5-1898 Pennsylvania State Univ. - Univ. Park 7322
X-RAY SPECTRAL CHARACTERISTICS OF RS CVN SYSTEMS W ITH
AND WITHOUT MASS TRANSFER

<i>Period</i>	<i>Obligations</i>	
02/20/1992-02/28/1994	FY95:	TOTAL: \$33,215
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L W RAMSEY	GSFC/R PETRE	11-Astronomy

NAG 5-2483 Pennsylvania State Univ. - Univ. Park 7330
ASCA PV PHASE DATA ANALYSIS AND FRFREAD MAINTENANC E

<i>Period</i>	<i>Obligations</i>	
02/08/1994-02/14/1996	FY95: \$39,066	TOTAL: \$119,060
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J NOUSEK	GSFC/N E WHITE	11-Astronomy

NAG 5-1909 Pennsylvania State Univ. - Univ. Park 7323
THREE DIMENSIONAL STRUCTURE AND DEFORMATION OF TRA
NSFORM PLATE BOUNDARIES: GOEDETIC AND MODELING.

<i>Period</i>	<i>Obligations</i>	
02/24/1992-02/29/1996	FY95: \$56,000	TOTAL: \$212,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K P FURLONG	GSFC/B G BILLS	32-Geological Sci

NAG 5-2527 Pennsylvania State Univ. - Univ. Park 7331
YOUNG STELLAR OBJECTS IN THE L1551 STAR FORMING CL OUD

<i>Period</i>	<i>Obligations</i>	
02/28/1994-12/14/1995	FY95:	TOTAL: \$12,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E D FEIGELSON	GSFC/N WHITE	11-Astronomy

NAG 5-2118 Pennsylvania State Univ. - Univ. Park 7324
THE SPATIALLY-RESOLVED STRUCTURES OF THE V711 TAU
STELLAR ENVIRONMENT

<i>Period</i>	<i>Obligations</i>	
10/09/1992-03/31/1995	FY95:	TOTAL: \$30,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J E NEFF	GSFC/D WEST	11-Astronomy

NAG 5-2528 Pennsylvania State Univ. - Univ. Park 7332
IRON LINE DIAGNOSTICS OF NARROW EMISSION LINE GALA XIES

<i>Period</i>	<i>Obligations</i>	
02/24/1994-08/14/1996	FY95:	TOTAL: \$15,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J A NOUSEK	GSFC/N WHITE	11-Astronomy

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAG 5-2537 Pennsylvania State Univ. - Univ. Park 7333
ASUKA OBSERVATIONS OF THE SNR VRO 42.05.01
Period Obligations
02/28/1994-09/14/1996 FY95: \$26,000 TOTAL: \$46,000
Prin. Invest. NASA Tech. Officer CASE Category
D N BURROWS GSFC/N WHITE 11-Astronomy

NAG 5-2981 Pennsylvania State Univ. - Univ. Park 7341
CHARACTERIZING AND QUANTIFYING THE X-RAY VARIABLE SKY:
FROM ROSAT TO XTE AND BEY
Period Obligations
06/29/1995-06/30/1996 FY95: \$60,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
G S STRINGFELLOW GSFC/D WEST 11-Astronomy

NAG 5-2701 Pennsylvania State Univ. - Univ. Park 7334
AN ASSESSMENT OF THE RADIATIVE IMPACT OF CONTRAIL BASED
ON ANALYSIS AND OBJECTIVE CLASSIFICATION
Period Obligations
08/24/1994-10/31/1995 FY95: \$50,100 TOTAL: \$53,603
Prin. Invest. NASA Tech. Officer CASE Category
T P ACKERMAN GSFC/R W STEWART 31-Atmos Sci

NAG 5-3040 Pennsylvania State Univ. - Univ. Park 7342
CHROMOSPHERIC DOPPLER IMAGING AND THE SEARCH FOR THE
MAGNETIC CYCLE IN AR LACERT
Period Obligations
08/01/1995-08/14/1996 FY95: \$18,110 TOTAL: \$18,110
Prin. Invest. NASA Tech. Officer CASE Category
J E NEFF GSFC/D WEST 11-Astronomy

NAG 5-2776 Pennsylvania State Univ. - Univ. Park 7335
CONFIRMING A HIGHLY REDSHIFTED IRON LINE IN MRK 27 9
Period Obligations
11/07/1994-05/14/1996 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
K WEAVER GSFC/N WHITE 11-Astronomy

NAG 5-3043 Pennsylvania State Univ. - Univ. Park 7343
CONTINUATION OF CONVERSION OF GINGA DATABASES TO FITS
DATA SETS
Period Obligations
08/03/1995-08/14/1996 FY95: \$39,300 TOTAL: \$39,300
Prin. Invest. NASA Tech. Officer CASE Category
J A NOUSEK GSFC/D WEST 11-Astronomy

NAG 5-2807 Pennsylvania State Univ. - Univ. Park 7336
NEUTRON STAR ATMOSPHERES
Period Obligations
12/01/1994-12/14/1995 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
G PAVLOV GSFC/D WEST 11-Astronomy

NAG 5-5015 Pennsylvania State Univ. - Univ. Park 7344
COORDINATED STUDIES OF EQUATORIAL MESOSPHERIC AND
LOWER THERMOSPHERIC DYNAMICS BY ROCKET AND CADRE
Period Obligations
05/28/1993-12/31/1995 FY95: \$35,000 TOTAL: \$142,688
Prin. Invest. NASA Tech. Officer CASE Category
J D RUSSELL GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-2857 Pennsylvania State Univ. - Univ. Park 7337
PHYSICS AND COSMOLOGY OF HIGH-ENERGY SOURCES
Period Obligations
01/23/1995-01/31/1996 FY95: \$95,000 TOTAL: \$95,000
Prin. Invest. NASA Tech. Officer CASE Category
P MESZAROS GSFC/D WEST 11-Astronomy

NAG 5-5035 Pennsylvania State Univ. - Univ. Park 7345
COORDINATED ROCKET AND GROUND-BASED STUDIES OF
HIGH-LATITUDE FINE-SCALE STRUCTURE IN ION/SODIUM.
Period Obligations
04/19/1995-12/31/1995 FY95: \$142,722 TOTAL: \$142,722
Prin. Invest. NASA Tech. Officer CASE Category
T J KANE GSFC/R H PLESS 13-Physics

NAG 5-2922 Pennsylvania State Univ. - Univ. Park 7338
QUIESCENT CORONAL STRUCTURE AND VARIABILITY AT THE
BOTTOM OF THE MAIN SEQUENCE: THE SINGLE STAR....
Period Obligations
03/22/1995-09/30/1996 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
D STRINGFELLOW GSFC/D WHITE 11-Astronomy

NAG 6-7 Pennsylvania State Univ. - Univ. Park 7346
INVESTIGATE INFLUENCE OF AURORAL ENERGETICS AND
ELECTRODYNAMIC COUPLING ON MIDDLE ATMOS ELEC PAR
Period Obligations
09/01/1980-12/31/1994 FY95: TOTAL: \$1,000,460
Prin. Invest. NASA Tech. Officer CASE Category
J D MITCHELL GSFC/L J EARLY 19-Phys Sci, NEC
N C MAYNARD GSFC/R H PLESS
R A GOLDBERG

NAG 5-2927 Pennsylvania State Univ. - Univ. Park 7339
EVALUATION AND UNDERSTANDING PARAMETERIZED CON-
VECTIVE PROCESSES AND THEIR ROLE IN THE ECT....
Period Obligations
04/05/1995-04/14/1996 FY95: \$30,139 TOTAL: \$30,139
Prin. Invest. NASA Tech. Officer CASE Category
M FRITSCH GSFC/W TAO 31-Atmos Sci

NAG 8-136 Pennsylvania State Univ. - Univ. Park 7347
SUPERCRITICAL DROPLET COMBUSTION WITH APPLICATION TO
LIQUID-PROPELLANT ROCKET PERFORMANCE AND INSTABIL
Period Obligations
03/22/1991-11/12/1994 FY95: TOTAL: \$249,375
Prin. Invest. NASA Tech. Officer CASE Category
V YANG MSFC/M ROCKER 41-Aero Engr
MSFC/S D BAI

NAG 5-2975 Pennsylvania State Univ. - Univ. Park 7340
THE EXTREME X-RAY TRANSIENT A0538-66
Period Obligations
06/16/1995-12/31/1996 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
R CORBET GSFC/N WHITE 12-Chemistry

NAG 8-231 Pennsylvania State Univ. - Univ. Park 7348
X-RAY PULSATORS: PULSE PHASE SPECTROSCOPY
Period Obligations
03/23/1992-09/22/1994 FY95: TOTAL: \$43,539
Prin. Invest. NASA Tech. Officer CASE Category
R H CORBET MSFC/J VARGAS 31-Atmos Sci
P I MESZAROS

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAG 8-288 Pennsylvania State Univ. - Univ. Park 7349
CONTINUATION OF STUDIES
Period *Obligations*
05/12/1993-05/10/1995 FY95: TOTAL: \$36,246
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R CORBIN MSFC/J VARGAS 41-Aero Engr

NAG 8-879 Pennsylvania State Univ. - Univ. Park 7350
ANALYSIS FOR THERMAL-CHEMICAL DECOMPOSITION
Period *Obligations*
07/23/1991-03/31/1995 FY95: \$15,000 TOTAL: \$184,877
Prin. Invest. *NASA Tech. Officer* *CASE Category*
N J SALAMON MSFC/M STUCKER 43-Chem Engr
MSFC/R AHMED

NAG 8-953 Pennsylvania State Univ. - Univ. Park 7351
ELECTROPHORETIC SEPARATION OF CELLS AND PARTICLES FROM
RAT PITUITARY AND RAT SPLEEN.
Period *Obligations*
02/19/1993-03/31/1996 FY95: \$102,000 TOTAL: \$524,522
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W C HYMER MSFC/R C DARTY 51-Biological Sci
A M MASTRO

NAG 8-1067 Pennsylvania State Univ. - Univ. Park 7352
EHD FILM FORMATION STUDY
Period *Obligations*
06/30/1994-12/31/1994 FY95: TOTAL: \$6,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L CHANG MSFC/P B HALL 46-Mech Engr
MSFC/T R JETT

NAG 8-1134 Pennsylvania State Univ. - Univ. Park 7353
EXPERIMENTAL/ANALYTICAL INVESTIGATIONS OF ADVANCED HIGH
PERFORMANCE BEARINGS OPERATING IN CRYOGENIC
Period *Obligations*
04/27/1995-04/26/1996 FY95: \$49,847 TOTAL: \$49,847
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L CHANG MSFC/P B HALL 42-Astro Engr
MSFC/T R JETT

NAGW 1196 Pennsylvania State Univ. - Univ. Park 7354
CENTER FOR THE COMMERCIAL DEVELOPMENT OF SPACE
Period *Obligations*
10/16/1987-10/31/1995 FY95: TOTAL: \$12,931,608
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W HYMER HQ/W A ORAN 99-Multi-Discip
A MAESTRO HQ/A VILLAMIL

NAGW 1302 Pennsylvania State Univ. - Univ. Park 7355
INTERIM SUPPORT FOR MICROWAVE MEASUREMENTS OF
MESOPHERIC WATER VA
Period *Obligations*
04/18/1988-06/30/1994 FY95: TOTAL: \$855,342
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J OLIVERO HQ/M J KURYLO 31-Atmos Sci
C CROSKY HQ/M LUTHER

NAGW 1356 Pennsylvania State Univ. - Univ. Park 7356
CENTER FOR SPACE PROPULSION ENGINEERING
Period *Obligations*
07/18/1988-10/31/1995 FY95: \$426,839 TOTAL: \$8,754,737
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C L MERKLE HQ/E E VANLANDINGHAM 49-Engr, NEC

NAGW 1381 Pennsylvania State Univ. - Univ. Park 7357
ADVANCED HIGH TEMPERATURE COMPOSITE MATERIALS
Period *Obligations*
10/07/1988-09/30/1996 FY95: \$250,000 TOTAL: \$3,114,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E TRESSLER HQ/B F QUIGLEY 47-Materials Engr
J R HELLMAN HQ/T W CROOKER
H T HAHN

NAGW 1522 Pennsylvania State Univ. - Univ. Park 7358
STUDIES OF HIGH ENERGY COMPACT SOURCES AND RADIATION
Period *Obligations*
11/30/1988-11/30/1994 FY95: TOTAL: \$421,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P I MESZAROS HQ/L J KALUZIENSKI 11-Astronomy
HQ/A N BUNNER

NAGW 1911 Pennsylvania State Univ. - Univ. Park 7359
NAGW-1911/PENNSYLVANIA STATE UNIV/CONSTRAINTS IMPO SED
BY PALEOENVIRONMENTS ON THE ORIGIN AND EVOLUTIO
Period *Obligations*
02/06/1990-09/30/1995 FY95: \$76,000 TOTAL: \$429,546
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J F KASTING HQ/J D RUMMEL 31-Atmos Sci

NAGW 2120 Pennsylvania State Univ. - Univ. Park 7360
MULTI WAVELENGTH AND STATISTICAL RESEARCH IN SPACE
ASRTOPHYSICS
Period *Obligations*
06/13/1990-12/31/1995 FY95: \$130,000 TOTAL: \$691,019
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E D FEIGELSON HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 2209 Pennsylvania State Univ. - Univ. Park 7361
NAGW-2209/PENN STATE UNIV/ASSESSMENTS OF RADIATIVE
HEATING NEAR THE TROPICAL TROPOPAUSE
Period *Obligations*
09/17/1990-06/30/1994 FY95: TOTAL: \$112,388
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T P ACKERMAN HQ/R D MCPETERS 31-Atmos Sci
HQ/M J PRATHER

NAGW 2280 Pennsylvania State Univ. - Univ. Park 7362
ORIGINS OF INTERSTELLAR AND SOLAR SYSTEM CARBONACE OUS
MATERIALS
Period *Obligations*
02/22/1991-10/31/1994 FY95: TOTAL: \$135,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E D FEIGELSON HQ/J A NUTH 19-Phys Sci, NEC

NAGW 2603 Pennsylvania State Univ. - Univ. Park 7363
SPATIAL STRUCTURE AND DYNAMICS OF OUTER STELLAR AT
MOSPHERES
Period *Obligations*
08/06/1991-04/30/1996 FY95: \$101,200 TOTAL: \$487,229
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J E NEFF HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAGW 2647 Pennsylvania State Univ. - Univ. Park 7364
 NAGW-2647/PENNSYLVANIA STATE UNIV/COMBINING REMOTE AND
 SURFACE MEASUREMENT TO ESTIMATE SOIL MOISTURE
Period Obligations
 08/22/1991-11/30/1994 FY95: TOTAL: \$129,772
Prin. Invest. NASA Tech. Officer CASE Category
 T N CARLSON HQ/G ASRAR 39-Env Sci, NEC
 HQ/D E WICKLAND

NAGW 2670 Pennsylvania State Univ. - Univ. Park 7365
 SECOND AIRBORNE ARCTIC STRATOSPHERIC EXPEDITION (A
 ASEII)
Period Obligations
 08/20/1991-09/30/1994 FY95: TOTAL: \$154,268
Prin. Invest. NASA Tech. Officer CASE Category
 W H BRUNE HQ/M J KURYLO 31-Atmos Sci
 HQ/R F HAMPSON

NAGW 2686 Pennsylvania State Univ. - Univ. Park 7366
 NAGW-2686/PENN STATE UNIV/GLOBAL WATER CYCLE: EXTENSION
 ACROSS THE EARTH SCIENCES
Period Obligations
 08/02/1991-12/31/1995 FY95: \$1,807,905 TOTAL: \$7,387,905
Prin. Invest. NASA Tech. Officer CASE Category
 E J BARRON HQ/J C DODGE 31-Atmos Sci
 HQ/W S WILSON

NAGW 2712 Pennsylvania State Univ. - Univ. Park 7367
 PENNSYLVANIA STATE PARTICIPATING IN THE MINIMETER WAVE
 ATMOSPHERIC SOUNDER EXPERIMENT IN THE SPACE
Period Obligations
 09/04/1991-12/31/1996 FY95: TOTAL: \$120,442
Prin. Invest. NASA Tech. Officer CASE Category
 J J OLIVERO HQ/J A KAYE 31-Atmos Sci
 HQ/R E MURPHY

NAGW 3159 Pennsylvania State Univ. - Univ. Park 7368
 A DETAILED INVESTIGATION INTO THE USE OF PLANETARY
 NEBULAE AS STANDARD CANDLES
Period Obligations
 08/10/1992-07/31/1996 FY95: \$75,276 TOTAL: \$279,203
Prin. Invest. NASA Tech. Officer CASE Category
 R CIARDULLO HQ/G R RIEGLER 11-Astronomy

NAGW 3171 Pennsylvania State Univ. - Univ. Park 7369
 ADVANCED SPECTRUM MODELLING OF ACCRETION DISKS FOR
 CLOSE BINARY STARS
Period Obligations
 08/14/1992-04/30/1996 FY95: \$104,047 TOTAL: \$371,735
Prin. Invest. NASA Tech. Officer CASE Category
 R WADE HQ/G R RIEGLER 11-Astronomy

NAGW 3211 Pennsylvania State Univ. - Univ. Park 7370
 NAGW-3211/PENN STATE UNIV/MULTIWAVELINK: AN INTERA TIVE
 DATA BASE FOR THE COORDINATION OF MULTIWAVEL
Period Obligations
 09/16/1992-07/31/1994 FY95: TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
 F A CORDOVA HQ/F GIOVANE 11-Astronomy
 HQ/G R RIEGLER

NAGW 3333 Pennsylvania State Univ. - Univ. Park 7371
 NAGW-3333/PENNSYLVANIA STATE UNIV UP/MECHANISM OF
 DIFFERENTIAL GROWTH DURING GRAVITROPSIM
Period Obligations
 01/15/1993-10/31/1995 FY95: \$62,268 TOTAL: \$175,771
Prin. Invest. NASA Tech. Officer CASE Category
 D J COSGROVE HQ/T W HALSTEAD 51-Biological Sci

NAGW 3358 Pennsylvania State Univ. - Univ. Park 7372
 MICROGRAVITY IN VITRO OF BONE CELLS; FLOW EFFECTS
Period Obligations
 01/29/1993-12/31/1994 FY95: TOTAL: \$95,268
Prin. Invest. NASA Tech. Officer CASE Category
 J A FRANGOS HQ/T W HALSTEAD 51-Biological Sci

NAGW 3372 Pennsylvania State Univ. - Univ. Park 7373
 EXPERIMENTAL RHEO. OF THE VENUSIAN LITH.
Period Obligations
 02/25/1993-12/31/1993 FY95: TOTAL: \$59,600
Prin. Invest. NASA Tech. Officer CASE Category
 S J MACKWELL HQ/J M BOYCE 32-Geological Sci

NAGW 3405 Pennsylvania State Univ. - Univ. Park 7374
 PLANETS AROUND NEUTRON STARS
Period Obligations
 02/16/1993-02/28/1996 FY95: \$55,000 TOTAL: \$165,000
Prin. Invest. NASA Tech. Officer CASE Category
 A WOLSZCZAN HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3415 Pennsylvania State Univ. - Univ. Park 7375
 INFRARED SPECTROSCOPY OF JUPITER AND SATURN
Period Obligations
 03/09/1993-12/31/1994 FY95: TOTAL: \$257,667
Prin. Invest. NASA Tech. Officer CASE Category
 R F KNACKE HQ/H C BRINTON 11-Astronomy

NAGW 3571 Pennsylvania State Univ. - Univ. Park 7376
 THE THEORY OF QSO ABSORPTION LINE SYSTEMS
Period Obligations
 04/29/1993-12/31/1995 FY95: \$56,500 TOTAL: \$169,499
Prin. Invest. NASA Tech. Officer CASE Category
 J C CHARLTON HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 3853 Pennsylvania State Univ. - Univ. Park 7377
 PENN STATE / PULSATILE FLUID SHEAR IN BONE REMODELING
Period Obligations
 01/14/1994-09/30/1994 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A FRANGOS HQ/F M SULZMAN 56-Medical Sciences

NAGW 3929 Pennsylvania State Univ. - Univ. Park 7378
 NAGW-3929/B PENN STATE UNIV. 'DEVEL. OF A MODEL O F ATM.
 OXY. VARIATIONS TO EST...12-MO AWARD
Period Obligations
 04/11/1994-10/31/1995 FY95: TOTAL: \$83,500
Prin. Invest. NASA Tech. Officer CASE Category
 R G NAJJAR HQ/R A SCHIFFER 39-Env Sci, NEC

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAGW 4124 Pennsylvania State Univ. - Univ. Park 7379
 SPATIAL DISTRIBUTION OF CARBON MONOXIDE AND OTHER TRACE MINERALS
Period *Obligations*
 08/30/1994-03/31/1995 FY95: \$80,638 TOTAL: \$157,436
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R KNACKE HQ/J H RAHE 11-Astronomy

NAGW 4250 Pennsylvania State Univ. - Univ. Park 7380
 A REMOTELY SENSED INDEX OF DEFORESTATION/URBANIZATION FOR USE IN CLIMATE MODELS
Period *Obligations*
 01/20/1995-12/31/1997 FY95: \$121,755 TOTAL: \$121,755
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T N CARLSON HQ/M Y WEI 39-Env Sci, NEC
 HQ/J S THEON

NAGW 4309 Pennsylvania State Univ. - Univ. Park 7381
 ADVANCED DESIGN PROGRAM
Period *Obligations*
 02/22/1995-10/31/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R G MELTON HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NAGW 4401 Pennsylvania State Univ. - Univ. Park 7382
 SOIL MOISTURE SUBSURFACE STORAGE AND RUNOFF AS A LOW DIMENSIONAL SYSTEM
Period *Obligations*
 04/20/1995-02/28/1998 FY95: \$184,000 TOTAL: \$184,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C J DUFFY HQ/M Y WEI 39-Env Sci, NEC
 J P CUSMANO HQ/A C JANETOS
 J A LYNCH

NAGW 4421 Pennsylvania State Univ. - Univ. Park 7383
 THE BIOMECHANICS OF EXERCISE COUNTERMEASURES
Period *Obligations*
 04/17/1995-02/14/1998 FY95: \$96,877 TOTAL: \$96,877
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P R CAVANAGH HQ/F SULZMAN 59-Life Sci, NEC

NAGW 4520 Pennsylvania State Univ. - Univ. Park 7384
 DEFORMATION OF DRY DIABASE: IMPLICATIONS FOR TECTONICS ON VENUS
Period *Obligations*
 05/30/1995-02/28/1996 FY95: \$62,760 TOTAL: \$62,760
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S MACKWELL HQ/H BRINTON 32-Geological Sci

NAGW 4737 Pennsylvania State Univ. - Univ. Park 7385
 RESEARCH IN PARTICLE ASTROPHYSICS
Period *Obligations*
 09/13/1995-11/30/1995 FY95: \$142,982 TOTAL: \$142,982
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J BEATTY HQ/M A FORMAN 19-Phys Sci, NEC

NAG10-137 Pennsylvania State Univ. - Univ. Park 7386
 EXPERIMENTS IN SHORT TERM LIGHTNING FORECASTING USING LDAR, UP FIELD MILL AND COMPANION METER DATA
Period *Obligations*
 05/13/1994-08/02/1994 FY95: TOTAL: \$7,382
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G S FORBES KSC/L MAIER 31-Atmos Sci

NAG10-154 Pennsylvania State Univ. - Univ. Park 7387
 LIGHTNING FORECASTING STUDIES
Period *Obligations*
 03/27/1995-09/15/1995 FY95: \$9,628 TOTAL: \$9,628
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G S FORBES KSC/C LENNON 31-Atmos Sci

NAS 5-31787 Pennsylvania State Univ. - Univ. Park 7388
 DESIGN AND DEVELOPMENT OF DIGITAL PROCESSING UNIT
Period *Obligations*
 10/01/1991-09/30/1998 FY95: \$114,000 TOTAL: \$826,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F CORDORA GSFC/R DONNELLY 42-Astro Engr

NAS 5-32074 Pennsylvania State Univ. - Univ. Park 7389
 ADP - RESEARCH STUDIES/SERVICES REFORMATTING AND RETRIEVAL OF HEAO-1 DATA PRODUCTS
Period *Obligations*
 11/24/1992-11/23/1995 FY95: TOTAL: \$117,100
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J A NOUSEK GSFC/R OLIVERSEN 11-Astronomy

NAS 5-32489 Pennsylvania State Univ. - Univ. Park 7390
 CONVERSION OF TENMA AND GINGA DATABASES TO FITS
Period *Obligations*
 01/27/1994-01/26/1995 FY95: TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R CORBETT GSFC/D K WEST 19-Phys Sci, NEC

NAS 5-32669 Pennsylvania State Univ. - Univ. Park 7391
 A NATIONAL STATISTICAL CONSULTING CENTER FOR THE ASTRONOMICAL COMMUNITY
Period *Obligations*
 07/27/1994-08/27/1996 FY95: \$30,000 TOTAL: \$80,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M AKRITAS GSFC/D WEST 11-Astronomy

NAS 8-38252 Pennsylvania State Univ. - Univ. Park 7392
 AXAF CCD IMAGING SPECTROMETER
Period *Obligations*
 08/27/1990-11/30/1999 FY95: \$701,000 TOTAL: \$2,512,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G P GARMERE MSFC/N B CUMINGS 11-Astronomy

NAS 8-38861 Pennsylvania State Univ. - Univ. Park 7393
 RELIABILITY OF NAVIER-STOKES CODES THROUGH CONVERGENCE
Period *Obligations*
 05/15/1991-10/31/1994 FY95: TOTAL: \$338,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C C MERKLE MSFC/G A WILHOLD 49-Engr, NEC
 C S DULIKRAVICH MSFC/E T STEWART

NAS 8-38862 Pennsylvania State Univ. - Univ. Park 7394
 AN EXPERIMENTAL STUDY OF CHARACTERISTIC COMBUSTION DRIVEN FLOW FOR CFD VALIDATION
Period *Obligations*
 04/16/1991-04/15/1996 FY95: \$125,000 TOTAL: \$580,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R J SANTORO MSFC/G A WILHOLD 41-Aero Engr
 MSFC/P K TUCKER

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAS 8-38867 Pennsylvania State Univ. - Univ. Park 7395
TURBULENCE MODELLING AND COMPUTER OF TURBINE
AERODYNAMICS
Period *Obligations*
04/10/1991-12/31/1995 FY95: TOTAL: \$146,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B LAKSHMINARAYANA MSFC/L GRIFFIN 41-Aero Engr

NAS 8-39945 Pennsylvania State Univ. - Univ. Park 7396
FUEL STUDIES
Period *Obligations*
05/04/1994-03/31/1996 FY95: TOTAL: \$346,791
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K K KUO MSFC/R J HARWELL 49-Engr, NEC
MSFC/R L NICHOLS

NASW 4878 Pennsylvania State Univ. - Univ. Park 7397
BASIS RESEARCH ON ROBOT UMBILICALS FOR VIBRATION
ISOLATION OF MICROGRAVITY PAYLOADS
Period *Obligations*
05/12/1994-02/11/1995 FY95: TOTAL: \$55,673
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L E CROSS HQ/J LANDERS 46-Mech Engr

NCA 2-769 Pennsylvania State Univ. - Univ. Park 7398
OPTIMIZATION OF THREE-DIMENSIONAL SINGED HYPERSONIC
CONFIGURATIONS
Period *Obligations*
11/23/1992-12/31/1994 FY95: TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G S DULIKRAVICH ARC/J BOWLES 41-Aero Engr

NCC 2-370 Pennsylvania State Univ. - Univ. Park 7399
MICROGRAVITY-INDUCED EFFECT ON PITUITARY GROWTH
HORMONE CELL FUNCTION: A MECHANISM FOR MUSCLE ATRO
Period *Obligations*
11/01/1987-12/31/1995 FY95: \$7,090 TOTAL: \$674,784
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W C HYMER ARC/C M WINGET 51-Biological Sci
R E GRINDELAND ARC/R W BALLARD
D R MORRISON

NCC 2-853 Pennsylvania State Univ. - Univ. Park 7400
ALGORITHMS FOR DETECTION OF OBJECTS IN IMAGE SEQUENCES
CAPTURED FROM AN AIRBORNE IMAGING SYSTEM
Period *Obligations*
05/12/1994-08/31/1995 FY95: TOTAL: \$104,159
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R KASTURI ARC/B SRIDHAR 22-Computer Science
ARC/R E SUORSA

NCC 2-916 Pennsylvania State Univ. - Univ. Park 7401
A VISION-BASED OBSTACLE DETECTION SYSTEM FOR AIRCRAFT
NAVIGATION
Period *Obligations*
07/25/1995-07/31/1996 FY95: \$85,808 TOTAL: \$85,808
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R KASTURI ARC/P N SMITH 22-Computer Science
O CAMPS

NCC 8-46 Pennsylvania State Univ. - Univ. Park 7402
TRIPROPELLANT COMBUSTION AND OXYGEN RICH ROCKET
COMBUSTOR TECHNOLOGIES
Period *Obligations*
07/26/1994-11/30/1995 FY95: \$565,439 TOTAL: \$835,331
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J SANTORO MSFC/H P TRINH 41-Aero Engr

NCC 8-56 Pennsylvania State Univ. - Univ. Park 7403
CRYSTAL RESEARCH
Period *Obligations*
09/15/1994-09/14/1996 FY95: \$24,028 TOTAL: \$46,186
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G S DUBKVAVICH MSFC/M P VOLZ 13-Physics
MSFC/S L LEHOCZKY

NGT 00-010-006 Pennsylvania State Univ. - Univ. Park 7404
NGT 10006/B PENN. ST. UNIV (MDAFP) 10/1/93 START
Period *Obligations*
10/22/1993-03/31/1994 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G S DULIKRAVICH HQ/G S SEIDEL 41-Aero Engr
HQ/J R FACEY

NGT 00-010-034 Pennsylvania State Univ. - Univ. Park 7405
USERC GRADUATE STUDENT ASSISTANTSHIPS
Period *Obligations*
01/09/1995-09/30/1997 FY95: \$465,667 TOTAL: \$465,667
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C MERKLE HQ/V BITTINGER 49-Engr, NEC

NGT 00-030-120 Pennsylvania State Univ. - Univ. Park 7406
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/29/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J H MATHER HQ/G ASRAR 33-Oceanography
HQ/D M BUTLER

NGT 00-030-122 Pennsylvania State Univ. - Univ. Park 7407
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
11/02/1992-05/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G E TUCKER HQ/G ASRAR 32-Geological Sci
HQ/D M BUTLER

NGT 00-030-152 Pennsylvania State Univ. - Univ. Park 7408
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/21/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K L O'BRIEN HQ/G ASRAR 39-Env Sci, NEC
HQ/D M BUTLER

NGT 00-030-280 Pennsylvania State Univ. - Univ. Park 7409
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
10/02/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D LAMB HQ/J S THEON 39-Env Sci, NEC
HQ/G ASRAR

NGT 00-030-314 Pennsylvania State Univ. - Univ. Park 7410
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
09/01/1995-08/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W H BRUNE HQ/R A SCHIFFER 31-Atmos Sci
HQ/G ASRAR

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NGT 00-040-002 Pennsylvania State Univ. - Univ. Park 7411
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
 09/28/1989-01/31/1996 FY95: \$454,777 TOTAL: \$2,430,944
Prin. Invest. NASA Tech. Officer CASE Category
 R DEVON HQ/L T KEFFER 99-Multi-Discip

NGT 00-051-125 Pennsylvania State Univ. - Univ. Park 7420
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/07/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D BURROWS HQ/D HOLLAND 13-Physics

NGT 00-050-706 Pennsylvania State Univ. - Univ. Park 7412
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/13/1991-12/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A RAY HQ/F C OWENS 46-Mech Engr

NGT 00-051-131 Pennsylvania State Univ. - Univ. Park 7421
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/22/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 H R ALLOCK LERC/F MONTEGANI 12-Chemistry

NGT 00-050-803 Pennsylvania State Univ. - Univ. Park 7413
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/01/1991-07/31/1995 FY95: TOTAL: \$64,227
Prin. Invest. NASA Tech. Officer CASE Category
 G P GARMIRE HQ/F C OWENS 11-Astronomy

NGT 00-051-165 Pennsylvania State Univ. - Univ. Park 7422
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/22/1993-08/14/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D A SANTAVICCA MSFC/F SIX 46-Mech Engr

NGT 00-050-884 Pennsylvania State Univ. - Univ. Park 7414
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/26/1992-07/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C L MERKLE MSFC/F SIX 46-Mech Engr

NGT 00-051-203 Pennsylvania State Univ. - Univ. Park 7423
 GRAD STUDENT RESEARCHERS PROGRAM
Period Obligations
 04/25/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J SANTORO MSFC/F SIX 46-Mech Engr

NGT 00-050-952 Pennsylvania State Univ. - Univ. Park 7415
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/14/1992-08/14/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 G S SETTLES ARC/M MOORE 46-Mech Engr

NGT 00-051-204 Pennsylvania State Univ. - Univ. Park 7424
 GRAD STUDENT RESEARCHERS PROGRAM
Period Obligations
 04/25/1994-06/30/1995 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 P R HOWELL MSFC/F SIX 47-Materials Engr
 J SINGH

NGT 00-051-016 Pennsylvania State Univ. - Univ. Park 7416
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/23/1993-08/14/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M K HEID HQ/D V GALLAWAY 21-Mathematics

NGT 00-051-226 Pennsylvania State Univ. - Univ. Park 7425
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1994-08/15/1997 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 C A BERNECKER KSC/W CAMP 49-Engr, NEC

NGT 00-051-106 Pennsylvania State Univ. - Univ. Park 7417
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/14/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G KOODMANN HQ/J T LYNCH 41-Aero Engr

NGT 00-051-316 Pennsylvania State Univ. - Univ. Park 7426
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A WOLSZCZAN HQ/D HOLLAND 11-Astronomy

NGT 00-051-118 Pennsylvania State Univ. - Univ. Park 7418
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/24/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 L N LONG LARC/E PRIOR 41-Aero Engr

NGT 00-051-384 Pennsylvania State Univ. - Univ. Park 7427
 GSRP
Period Obligations
 06/16/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J F KASTING HQ/D HOLLAND 19-Phys Sci, NEC

NGT 00-051-119 Pennsylvania State Univ. - Univ. Park 7419
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/09/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 V YANG MSFC/F SIX 46-Mech Engr

NGT 00-051-406 Pennsylvania State Univ. - Univ. Park 7428
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/07/1995-07/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J E NEFF HQ/D HOLLAND 13-Physics

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NGT 00-070-204 Pennsylvania State Univ. - Univ. Park 7429
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM

<i>Period</i>	<i>Obligations</i>	
08/10/1990-07/31/1994	FY95: TOTAL: \$66,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E D FEIGELSON	HQ/F C OWENS	11-Astronomy

NAG 5-1168 University of Pennsylvania 7437
HOT, MASSIVE BINARIES

<i>Period</i>	<i>Obligations</i>	
07/15/1989-09/30/1994	FY95: TOTAL: \$43,500	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R H KOCH	GSFC/D K WEST	11-Astronomy

NGT 00-070-257 Pennsylvania State Univ. - Univ. Park 7430
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM

<i>Period</i>	<i>Obligations</i>	
05/15/1992-06/30/1995	FY95: TOTAL: \$66,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R J SANFORO	MSFC/F SIX	46-Mech Engr

NAG 5-1473 University of Pennsylvania 7438
MODELLING OF NON-ISOTROPIC OUTFLOW IN COMETARY COMAE

<i>Period</i>	<i>Obligations</i>	
10/05/1990-10/31/1994	FY95: TOTAL: \$66,694	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R KOCH	GSFC/M J MUMMA	11-Astronomy

NGT 00-070-299 Pennsylvania State Univ. - Univ. Park 7431
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/11/1992-08/14/1995	FY95: TOTAL: \$66,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W J RAY	LARC/E PRIOR	69-Psych, NEC

NAG 9-597 University of Pennsylvania 7439
CO2/O2 INTERACTIONS IN EXTENSION OF TOLERANCE TO ACUTE
HYPOXIA

<i>Period</i>	<i>Obligations</i>	
05/04/1992-04/01/1995	FY95: TOTAL: \$298,500	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C J LAMBERTSEN J M CLARK	JSC/J M WALIGORA JSC/M R POWELL	56-Medical Sciences

NGT 00-070-328 Pennsylvania State Univ. - Univ. Park 7432
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/01/1993-06/30/1995	FY95: TOTAL: \$44,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J FRANGOS	HQ/D K RUSSELL	43-Chem Engr

NAG 9-817 University of Pennsylvania 7440
USE OF BIOACTIVE GLASS PARTICLES AS MICROCARRIERS IN
MICROGRAVITY ENVIRONMENT

<i>Period</i>	<i>Obligations</i>	
08/29/1995-06/30/1996	FY95: \$175,000 TOTAL: \$175,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P S AYYASWAMY	JSC/N PELLIS	59-Life Sci, NEC

NGT 1-52109 Pennsylvania State Univ. - Univ. Park 7433
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)

<i>Period</i>	<i>Obligations</i>	
06/15/1995-06/30/1996	FY95: \$22,000 TOTAL: \$22,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E C SMITH A T HOWARD	LARC/M W NIXON	41-Aero Engr

NAGW 3616 University of Pennsylvania 7441
AMS MEASUREMENTS OF 41CA, 36CL, AND 59NI: APPLICAT ION
TO EXTRATERRESTRIAL MATERIALS

<i>Period</i>	<i>Obligations</i>	
06/16/1993-05/31/1995	FY95: \$34,763 TOTAL: \$81,113	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R MIDDLETON	HQ/J BOYCE	32-Geological Sci

NGT 8-52800 Pennsylvania State Univ. - Univ. Park 7434
GRADUATE STUDEN RESEARCHS

<i>Period</i>	<i>Obligations</i>	
07/28/1995-07/30/1998	FY95: \$22,000 TOTAL: \$22,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A KULKARNI J SINGH	MSFC/B N BHAT	46-Mech Engr

NAGW 3628 University of Pennsylvania 7442
ENVIRONMENTAL BIOMEDICAL RESEARCH DATA CENTER

<i>Period</i>	<i>Obligations</i>	
06/03/1993-11/30/1995	FY95: \$191,197 TOTAL: \$508,197	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C J LAMBERTSEN	HQ/R J WHITE	56-Medical Sciences

NAG 5-5017 St. Vincent College & Seminary 7435
AIRBORNE OCEANOGRAPHIC LIDAR ON LONG RANGE P-3
MISSIONS

<i>Period</i>	<i>Obligations</i>	
09/24/1993-06/30/1996	FY95: TOTAL: \$88,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R E BERRY	GSFC/W B KRABILL GSFC/F E HOGE	19-Phys Sci, NEC

NAGW 4359 University of Pennsylvania 7443
CO2-O2 INTERACTIONS IN EXTENSION OF TOLERANCE TO A CUTE
HYPOXIA

<i>Period</i>	<i>Obligations</i>	
03/10/1995-03/31/1998	FY95: \$120,000 TOTAL: \$120,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C J LAMBERTSEN	HQ/F SULZMAN	59-Life Sci, NEC

NAG 8-199 Susquehanna University 7436
JOVE

<i>Period</i>	<i>Obligations</i>	
05/29/1991-06/03/1994	FY95: TOTAL: \$61,800	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R KOZLOWSKI	MSFC/N F SIX MSFC/C R CHAPPELL	11-Astronomy

NAG10-122 University of Pennsylvania 7444
ACCESSIBILITY ANIMATION WITH GRAPHICAL HUMAN MODELS

<i>Period</i>	<i>Obligations</i>	
05/24/1993-04/23/1995	FY95: TOTAL: \$48,750	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
N I BODLER	KSC/J R GOODIN	56-Medical Sciences

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NGT 00-050-729 University of Pennsylvania 7445
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/12/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R P PAUL HQ/Q F C OWENS 46-Mech Engr

NAG 3-1545 University of Pittsburgh 7453
 SYSTEM DESIGN OF SHARED POWER FOR SPACE AND PLANET S
Period Obligations
 11/09/1993-11/08/1995 FY95: TOTAL: \$60,825
Prin. Invest. NASA Tech. Officer CASE Category
 G L KUSIC LERC/R C CULL 45-Elec Engr

NGT 00-051-393 University of Pennsylvania 7446
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/18/1995-08/31/1998 FY95: \$21,220 TOTAL: \$21,220
Prin. Invest. NASA Tech. Officer CASE Category
 N H FARHAT JPL/C HICKS 45-Elec Engr

NAG 3-1583 University of Pittsburgh 7454
 BEARING DESIGN ANALYSIS USING POWER LUBRICANTS
Period Obligations
 03/25/1994-10/31/1995 FY95: TOTAL: \$44,981
Prin. Invest. NASA Tech. Officer CASE Category
 M M KHONSARI LERC/D E BREWE 46-Mech Engr
 LERC/M V ZELLER

NGT 00-070-359 University of Pennsylvania 7447
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/31/1993-08/31/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 V KUMAR HQ/D K RUSSELL 46-Mech Engr

NAG 3-1691 University of Pittsburgh 7455
 DECISION SUPPORT INTEGRATION OF SHARE POWER FOR SP ACE
 OR PLANETS
Period Obligations
 01/03/1995-01/02/1996 FY95: \$55,213 TOTAL: \$55,213
Prin. Invest. NASA Tech. Officer CASE Category
 G KUSIC LERC/R C CULL 45-Elec Engr

NGT 00-090-241 University of Pennsylvania 7448
 UNIV PA; UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 03/03/1994-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 C INGRUM HQ/D K RUSSELL 99-Multi-Discip

NAG 3-1695 University of Pittsburgh 7456
 LOW TEMPERATURE LUMINENCE, RAMAN SCATTERING, AN D
 RBS/CHANNELING OF SIC CVD FILMS
Period Obligations
 01/18/1995-12/07/1995 FY95: \$45,000 TOTAL: \$45,000
Prin. Invest. NASA Tech. Officer CASE Category
 W J CHOYKE LERC/J A POWELL 13-Physics

NAG 3-603 University of Pittsburgh 7449
 LOW TEMP LUMINESCENCE RAMAN SCATTERING AND
 RBS/CHANNELLING OF B SIC-CVD FILMS
Period Obligations
 01/24/1985-07/09/1995 FY95: TOTAL: \$335,985
Prin. Invest. NASA Tech. Officer CASE Category
 W J CHOYKE LERC/J A POWELL 13-Physics
 LERC/L G MATUS

NAG 5-609 University of Pittsburgh 7457
 A SOUNDING ROCKET STUDY OF N20, N0 AND OTHER T ROD
 CONSTITUENTS IN THE UPPER STRATOSPHERE AND MESOSP
Period Obligations
 07/01/1982-11/30/1995 FY95: TOTAL: \$1,589,067
Prin. Invest. NASA Tech. Officer CASE Category
 E C ZIFF GSFC/L J EARLY 13-Physics
 P W ERDMAN GSFC/R H PLESS

NAG 3-945 University of Pittsburgh 7450
 HIGH FREQUENCY TEMPERATURE CHARACTERIZATION
Period Obligations
 10/26/1988-10/19/1994 FY95: TOTAL: \$288,907
Prin. Invest. NASA Tech. Officer CASE Category
 W R WIESERMAN LERC/G E SCHWARZE 45-Elec Engr

NAG 5-661 University of Pittsburgh 7458
 SUBORBITAL PROGRAM IN MAGNETOSPHERIC AND IONSPHERIC
 PHYSICS
Period Obligations
 05/04/1990-07/31/1996 FY95: \$157,023 TOTAL: \$881,693
Prin. Invest. NASA Tech. Officer CASE Category
 E C ZIFF GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 3-1403 University of Pittsburgh 7451
 KINETIC AND TRANSPORT PHENOMENA IN A MICROGRAVITY EN
 VIRONMENT
Period Obligations
 01/06/1993-12/31/1995 FY95: \$109,000 TOTAL: \$327,000
Prin. Invest. NASA Tech. Officer CASE Category
 D JASNOW LERC/A T CHAI 19-Phys Sci, NEC

NAG 5-1778 University of Pittsburgh 7459
 UV STUDIES OF ABUNDANCES IN BAL QSOS AND DAMPED LYMA
 N-ALPHA ABSORPTION FROM LOW TO MODERATE . . .
Period Obligations
 09/27/1991-01/31/1995 FY95: TOTAL: \$85,500
Prin. Invest. NASA Tech. Officer CASE Category
 D A TURNSHEK GSFC/D WEST 11-Astronomy

NAG 3-1439 University of Pittsburgh 7452
 ANALYSIS OF HEAT TRANSFER IN AN ABSORBING EMITTING
 MEDIUM - APPLICATION TO PYROMETRY
Period Obligations
 01/20/1993-02/08/1996 FY95: TOTAL: \$79,544
Prin. Invest. NASA Tech. Officer CASE Category
 C C HWANG LERC/D L NG 46-Mech Engr

NAG 5-2411 University of Pittsburgh 7460
 WHAT DRIVES THE WINDS OF WOLF-RAYET STARS
Period Obligations
 10/28/1993-06/30/1995 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 R E LADBECK GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NAG 5-2495 University of Pittsburgh 7461
 BASELINEING THE UV PROPERTIES OF SLASH STARS
Period Obligations
 02/08/1994-02/14/1995 FY95: TOTAL: \$2,499
Prin. Invest. NASA Tech. Officer CASE Category
 R S LADBECK GSFC/D WEST 11-Astronomy

NAGW 2977 University of Pittsburgh 7469
 SPECTROPOLARIMETRY AS A PROBE OF THE ATMOSPHERIC S
 TRUCTURE FOR WOLF-RAYET STARS
Period Obligations
 03/12/1992-12/31/1993 FY95: TOTAL: \$44,629
Prin. Invest. NASA Tech. Officer CASE Category
 R E LADBECK HQ/R STACHNIK 11-Astronomy
 HQ/E J WEILER

NAG 5-2599 University of Pittsburgh 7462
 OBSERVATIONS OF A SAMPLE OF SEYFERT AND QSO'S SHOW
 ING EMISSION LINE VELOCITY DIFFERENCES
Period Obligations
 05/26/1994-12/31/1995 FY95: \$6,000 TOTAL: \$6,000
Prin. Invest. NASA Tech. Officer CASE Category
 B R ESPEY GSFC/R OLIVERSEN 11-Astronomy

NAGW 3231 University of Pittsburgh 7470
 NAGW-3231/UNIV PITTSBURGH/PUBLIC DISPLAY OF ASTRON
 OMICAL DATA AT PITTSBURGH NEW CARNEGIE SCIENCE
Period Obligations
 11/02/1992-07/31/1994 FY95: TOTAL: \$5,000
Prin. Invest. NASA Tech. Officer CASE Category
 P C HAZARD HQ/L LAPIANA 11-Astronomy
 HQ/G P NEWTON

NAG 8-959 University of Pittsburgh 7463
 NUCLEATION AND CHIRAL SYMETRY BREAKING UNDER
 HYDRODYNAMIC FLOWS
Period Obligations
 06/02/1993-06/14/1996 FY95: TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
 X L WU MSFC/D NOEVER 19-Phys Sci, NEC

NAGW 3828 University of Pittsburgh 7471
 NAGW 3828/B UNIV OF PITTSBURGH 'NON-LTE LINE BLANK ETED
 MODEL ATMOSPHERES' 1/1/94 START
Period Obligations
 12/09/1993-12/31/1995 FY95: \$35,000 TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
 D J HILLIER HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAG 8-1049 University of Pittsburgh 7464
 OVI EMISSION AND BROAD-BAND UV SPECTRA OF SYMBIO- TIC
 SYSTEMS
Period Obligations
 03/17/1994-02/28/1996 FY95: \$54,475 TOTAL: \$99,291
Prin. Invest. NASA Tech. Officer CASE Category
 B R ESPEY MSFC/J OWENS 31-Atmos Sci

NAGW 3842 University of Pittsburgh 7472
 MODELS FOR THE EMPLACEMENT OF LAVA FLOWS: STYLES O F
 EFFUSIVE VOLCANISM ON MARS
Period Obligations
 01/03/1994-12/31/1997 FY95: \$47,700 TOTAL: \$95,418
Prin. Invest. NASA Tech. Officer CASE Category
 D CROWN HQ/R J WILLIAMS 32-Geological Sci

NAG 8-1073 University of Pittsburgh 7465
 THE EXTENDED ATMOSPHERES OF WOLF-RAYET STARS
Period Obligations
 04/01/1994-02/28/1996 FY95: \$51,936 TOTAL: \$105,070
Prin. Invest. NASA Tech. Officer CASE Category
 R E MSFC/J OWENS 11-Astronomy
 SCHULTE-LADBECK

NAGW 4186 University of Pittsburgh 7473
 GEOLOGICAL MAPPING OF REULL VALLIS, MARS
Period Obligations
 10/31/1994-09/30/1997 FY95: \$16,895 TOTAL: \$16,895
Prin. Invest. NASA Tech. Officer CASE Category
 D A CROWN HQ/P ROGERS 32-Geological Sci

NAGW 1270 University of Pittsburgh 7466
 SEARCH FOR PLANETARY SYSTEMS
Period Obligations
 04/15/1988-11/30/1996 FY95: \$119,488 TOTAL: \$849,986
Prin. Invest. NASA Tech. Officer CASE Category
 J P WEFEL HQ/J H RAHE 11-Astronomy

NAGW 4224 University of Pittsburgh 7474
 AUTOMATIC CATALOGUING
Period Obligations
 12/09/1994-07/31/1996 FY95: \$190,849 TOTAL: \$190,849
Prin. Invest. NASA Tech. Officer CASE Category
 R RYMON HQ/R S MCGINNIS 22-Computer Science

NAGW 1764 University of Pittsburgh 7467
 ELECTRON ION RECOMBINATION AND ION MOLECULE REACTION
 PROCESS
Period Obligations
 05/17/1989-09/30/1995 FY95: \$108,276 TOTAL: \$632,644
Prin. Invest. NASA Tech. Officer CASE Category
 R JOHNSEN HQ/J T BERGSTRALH 11-Astronomy

NAGW 4489 University of Pittsburgh 7475
 GLOBAL HEALTH NETWORK PROJECT DEVELOPMENT
Period Obligations
 05/26/1995-03/31/1996 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 R LAPORTE HQ/L WORTHINGTON 56-Medical Sciences

NAGW 2060 University of Pittsburgh 7468
 PHOTOMETRIC ANALYSIS OF SPACECRAFT PLANETARY IMAGE S
Period Obligations
 04/06/1990-10/31/1995 FY95: \$65,000 TOTAL: \$388,900
Prin. Invest. NASA Tech. Officer CASE Category
 B HAPKE HQ/T A MAXWELL 32-Geological Sci

NAS 9-18404 University of Pittsburgh 7476
 DEFINITION PHASE FOR IML-2 EXPERIMENT 'HUMAN SLEEP AND
 CIRCADIAN RYHTHM'
Period Obligations
 11/02/1990-08/01/1997 FY95: \$380,000 TOTAL: \$1,175,822
Prin. Invest. NASA Tech. Officer CASE Category
 T H MONK JSC/J VILLARREAL 51-Biological Sci

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NASW 4677 University of Pittsburgh 7477
 NASW-4677/UNIV OF PITTSBURGH/NASA RTTC LOCATED IN THE
 MID-ATLANTIC REGION OF THE U.S.
Period Obligations
 12/20/1991-12/21/1995 FY95: \$1,499,560 TOTAL: \$4,481,586
Prin. Invest. NASA Tech. Officer CASE Category
 L S HUMMEL HQ/F E PENARANDA 99-Multi-Discip

NAG 5-2279 Villanova University 7485
 CORONAL SPECTROSCOPY AND OUTER ATMOSPHERIC MODELLI
 NG OF ZERO-AGE-MAIN-SEQUENCE K DWARFS
Period Obligations
 07/15/1993-07/31/1996 FY95: \$74,941 TOTAL: \$126,501
Prin. Invest. NASA Tech. Officer CASE Category
 C W AMBRUSTER GSFC/R OLIVERSEN 11-Astronomy

NGT 00-051-348 University of Pittsburgh 7478
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/24/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 W L WE HQ/G A LESANE 13-Physics

NAG 5-2413 Villanova University 7486
 CORONAL STRUCTURE, ROTATION AND ACTIVITY: A TEST USING
 PLEIADES - AGE K DWARFS
Period Obligations
 11/02/1993-11/14/1995 FY95: TOTAL: \$5,500
Prin. Invest. NASA Tech. Officer CASE Category
 C AMBRUSTER GSFC/PETRE 11-Astronomy

NGT 00-051-372 University of Pittsburgh 7479
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 01/09/1995-07/31/1996 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 M B WEISS HQ/E MASSEY 22-Computer Science

NAG 5-2462 Villanova University 7487
 IUE OBSERVATIONS OF AN X-RAY ANOMALOUS A-TYPE GIAN T
Period Obligations
 01/11/1994-01/14/1996 FY95: TOTAL: \$2,500
Prin. Invest. NASA Tech. Officer CASE Category
 J SIAH GSFC/D WEST 11-Astronomy

NAG 5-382 Villanova University 7480
 COORDINATED ULTRAVIOLET SPECTROSCOPY AND OPTICAL
 PHOTOMETRY OF SELECTED COOL STARS
Period Obligations
 01/01/1984-09/30/1994 FY95: TOTAL: \$298,039
Prin. Invest. NASA Tech. Officer CASE Category
 E F GUINAN GSFC/D WEST 11-Astronomy
 F P MALONEY
 S W WACKER

NAG 5-2463 Villanova University 7488
 IUE ECHELLE INVESTIGATION OF THE PECULIAR HELIUM R ICH
 DEGENERATE, PG 1346 + 082
Period Obligations
 01/11/1994-01/14/1996 FY95: TOTAL: \$2,500
Prin. Invest. NASA Tech. Officer CASE Category
 M HUANG GSFC/D WEST 11-Astronomy

NAG 5-980 Villanova University 7481
 SIMULTANEOUS IUE AND MAGNETIC OBSERVATIONS OF A
 SELECTED YOUNG DWARF
Period Obligations
 09/01/1987-09/30/1996 FY95: TOTAL: \$99,258
Prin. Invest. NASA Tech. Officer CASE Category
 C AMBRUSTER GSFC/D WEST 11-Astronomy

NAG 5-2494 Villanova University 7489
 EVOLUTION OF SOLAR CORONAL X-RAY EMISSION: ROSAT
 OBSERVATIONS OF SOLAR PROXIES
Period Obligations
 02/03/1994-02/14/1997 FY95: \$2,800 TOTAL: \$25,300
Prin. Invest. NASA Tech. Officer CASE Category
 E F GUINAN GSFC/R PETRE 11-Astronomy

NAG 5-1836 Villanova University 7482
 1. THE COOLING OF THE WHITE DWARF IN U GEM 2. DO DA
 STARS HAVE WEAK WINDS AND IUE HIGH RESOLUTION . .
Period Obligations
 11/26/1991-11/30/1994 FY95: TOTAL: \$47,527
Prin. Invest. NASA Tech. Officer CASE Category
 E M SION GSFC/D WEST 11-Astronomy

NAG 5-2707 Villanova University 7490
 THE SUN IN TIME: THE HIGH-TEMPERATURE CORONAL STR UCTURE
 OF SOLAR TYPE STARS
Period Obligations
 08/31/1994-03/14/1996 FY95: \$8,000 TOTAL: \$28,000
Prin. Invest. NASA Tech. Officer CASE Category
 E GUINAN GSFC/N E WHITE 11-Astronomy

NAG 5-2160 Villanova University 7483
 1) THE PAST, PRESENT AND FUTURE SUN: AN IUE INVES T., OF
 SOLAR PROXIES 2) UV CHROMOSPHERIC . . .
Period Obligations
 12/31/1992-01/31/1995 FY95: TOTAL: \$43,200
Prin. Invest. NASA Tech. Officer CASE Category
 E F GUINAN GSFC/D WEST 11-Astronomy

NAGW 3726 Villanova University 7491
 WHITE DWARFS IN CATAclySMIC VARIABLES
Period Obligations
 08/31/1993-09/30/1995 FY95: \$34,118 TOTAL: \$66,740
Prin. Invest. NASA Tech. Officer CASE Category
 E SION HQ/G R RIEGLER 11-Astronomy

NAG 5-2278 Villanova University 7484
 EUVE SPECTROSCOPY OF EXPOSED WD'S IN 3 CATAclySMIC
 VARIABLES: PROBING ACCRETION PHYSICS FOR . . .
Period Obligations
 05/26/1993-06/14/1996 FY95: \$18,132 TOTAL: \$38,132
Prin. Invest. NASA Tech. Officer CASE Category
 E SION GSFC/R OLIVERSEN 11-Astronomy

NAGW 4607 Villanova University 7492
 THE PROPERTIES OF INTERSTELLAR DUST AND APPLICATIO NS
 TO ASTROPHYSICAL PROBLEMS
Period Obligations
 06/29/1995-08/31/1996 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 J CARDELLI HQ/G R RIEGLER 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
PENNSYLVANIA (Continued)**

NCA 2-797 Villanova University 7493
CONTINGENT ATTENTIONAL CAPTURE
Period Obligations
03/11/1993-09/15/1995 FY95: TOTAL: \$44,963
Prin. Invest. NASA Tech. Officer CASE Category
C L FOLK ARC/R REMINGTON 61-Biol Aspects

NAG 5-2629 Brown University 7500
ANISOTROPY OF THE COSMIC MICROWAVE BACKGROUND ON
LARGE AND MEDIUM ANGULAR SCALES
Period Obligations
06/23/1994-06/30/1996 FY95: \$78,400 TOTAL: \$97,400
Prin. Invest. NASA Tech. Officer CASE Category
P TIMBIE GSFC/E CHENG 11-Astronomy
GSFC/R F SILVERBERG

NCC 3-276 Westminster College 7494
INTERFEROMETRIC FRINGE ANALYSIS OF THE DENSITY REL
AXATION OF THE LIQ-VAPRO CRITICAL POINT FLUID SF6
Period Obligations
08/19/1992-12/31/1995 FY95: \$11,229 TOTAL: \$93,448
Prin. Invest. NASA Tech. Officer CASE Category
W L JOHNSON LERC/R A WILKINSON 13-Physics

NAGW 28 Brown University 7501
REMOTE SENSING INFORMATION APPLIED TO GEOLOGICAL
STUDIES OF PLANETS
Period Obligations
02/14/1980-09/30/1995 FY95: \$71,000 TOTAL: \$1,484,222
Prin. Invest. NASA Tech. Officer CASE Category
C M PIETERS HQ/J UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

RHODE ISLAND

NAG 1-1145 Brown University 7495
MULTI-DIMENSIONAL HIGH ORDER ESSENTIALLY NON--
OSCILLATORY FINITE DIFFERENCE METHODS IN GEN COORD
Period Obligations
05/23/1990-05/31/1996 FY95: \$30,000 TOTAL: \$112,500
Prin. Invest. NASA Tech. Officer CASE Category
C W SHU LARC/H L ATKINS 41-Aero Engr

NAGW 137 Brown University 7502
GEOLOGIC PROCESSES ON THE GALILEAN SATELLITE: IMPACT
CRATERING,
Period Obligations
03/01/1981-10/31/1996 FY95: \$70,000 TOTAL: \$1,037,635
Prin. Invest. NASA Tech. Officer CASE Category
J W HEAD HQ/J R UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

NAG 1-1230 Brown University 7496
QUANTITATIVE AND PREDICTIVE MODELLING OF WALL BOUNDED
FLOWS -- MY
Period Obligations
02/26/1991-08/31/1994 FY95: TOTAL: \$80,341
Prin. Invest. NASA Tech. Officer CASE Category
L SIROVICH LARC/T B GATSKI 41-Aero Engr

NAGW 705 Brown University 7503
PLANETARY IMPACT PROCESSES
Period Obligations
03/01/1985-09/30/1995 FY95: \$144,000 TOTAL: \$1,591,762
Prin. Invest. NASA Tech. Officer CASE Category
P H SCHULTZ HQ/J R UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

NAG 2-830 Brown University 7497
THREE-DIMENSIONAL USER INTERFACES FOR SCIENTIFIC V
ISUALIZATION
Period Obligations
04/02/1993-03/31/1996 FY95: \$100,000 TOTAL: \$300,000
Prin. Invest. NASA Tech. Officer CASE Category
A DAM ARC/T A LASINSKI 22-Computer Science

NAGW 713 Brown University 7504
VENUS DATA ANALYSIS - RADAR IMAGES/GLOBAL DATA SETS
Period Obligations
03/01/1985-09/30/1995 FY95: \$112,933 TOTAL: \$716,829
Prin. Invest. NASA Tech. Officer CASE Category
J W HEAD HQ/J R UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

NAG 3-1484 Brown University 7498
MIXING ENHANCEMENT IN HIGH SPEED JET FLOWS THROUGH
NONLINEAR MULTIPLE-FREQUENCY MODE INTERACTIONS
Period Obligations
05/04/1993-03/20/1996 FY95: \$46,000 TOTAL: \$208,700
Prin. Invest. NASA Tech. Officer CASE Category
J T LIU LERC/M D DAHL 41-Aero Engr

NAGW 748 Brown University 7505
REFLECTANCE EXPERIMENT LAB
Period Obligations
05/01/1985-09/30/1995 FY95: \$98,969 TOTAL: \$773,961
Prin. Invest. NASA Tech. Officer CASE Category
C M PIETERS HQ/J R UNDERWOOD 32-Geological Sci
HQ/J M BOYCE

NAG 3-1648 Brown University 7499
COLLABORATION ON SEP MISSIONS TO THE MOON AND SMAL L
BODIES
Period Obligations
07/26/1994-07/25/1995 FY95: TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
C M PIETERS (DR.) LERC/J M HICKMAN 19-Phys Sci, NEC

NAGW 855 Brown University 7506
REGIONAL PLANETARY DATA FACILITY
Period Obligations
11/01/1985-09/30/1995 FY95: \$46,000 TOTAL: \$368,081
Prin. Invest. NASA Tech. Officer CASE Category
P H SCHULTZ HQ/J R UNDERWOOD 32-Geological Sci
HQ/B M FRENCH

NAGW 1873 Brown University 7507
GEOLOGICAL PROCESSES ON PLANETS AND SATELLITES: T
ECTONISM
Period Obligations
07/23/1990-09/30/1995 FY95: \$58,200 TOTAL: \$440,059
Prin. Invest. NASA Tech. Officer CASE Category
J W HEAD HQ/T A MAXWELL 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
RHODE ISLAND (Continued)**

NAGW 1928 **Brown University** **7508**
 PLANETARY GEOPHYSICS AND TECTONICS
Period *Obligations*
 01/05/1990-10/31/1995 FY95: \$69,100 TOTAL: \$395,534
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E M PARMENTIER HQ/T A MAXWELL 32-Geological Sci

NAGW 2185 **Brown University** **7509**
 GEOLOGICAL STUDIES OF PLANETS AND SATELLITES; PLAN ETARY
 VOLCANISM
Period *Obligations*
 07/23/1990-09/30/1995 FY95: \$84,000 TOTAL: \$911,086
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J W HEAD HQ/T A MAXWELL 32-Geological Sci

NAGW 2500 **Brown University** **7510**
 PROBLEMS IN VOLCANOLOGY AND UNCONFORMABLE SURFACE
 DEPOSITS ON MARS
Period *Obligations*
 08/12/1991-09/30/1995 FY95: \$110,000 TOTAL: \$184,422
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J HEAD HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 2797 **Brown University** **7511**
 FAR INFRARED DETECTORS FOR OBSERVATIONAL COSMOLOGY
Period *Obligations*
 01/03/1992-12/31/1994 FY95: TOTAL: \$252,895
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P T TIMBIE HQ/J K ALEXANDER 11-Astronomy
 HQ/D A HOLLAND

NAGW 3331 **Brown University** **7512**
 KINETIC AND THERMODYNAMIC STUDIES OF MELTING FREEZ ING
 OF HELIUM IN MICROGRAVITY
Period *Obligations*
 01/11/1993-12/31/1996 FY95: \$110,000 TOTAL: \$330,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C ELBAUM HQ/M C LEE 19-Phys Sci, NEC

NAGW 3359 **Brown University** **7513**
 THE DYNAMICS AND MORPHOLOGY OF SUPERFLUID HELIUM
 DROPS IN A MICROGRAVITY ENVIRONMENT
Period *Obligations*
 02/04/1993-12/31/1995 FY95: \$140,000 TOTAL: \$440,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H J MARIS HQ/M C LEE 13-Physics

NAGW 3379 **Brown University** **7514**
 COMPOSITION, ALTERATION, AND REDISTRIBUTION OF LOW
 ALBEDO MATERIALS ON MARS FROM ISM DATA
Period *Obligations*
 02/16/1993-02/29/1996 FY95: \$38,685 TOTAL: \$112,370
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J F MUSTARD HQ/J M BOYCE 32-Geological Sci

NAGW 3412 **Brown University** **7515**
 GEO. TRANS. FR. LOW. TO HIGH., SOUT. CHR. PLAN. AND NOR.
 XAN. TER., MAR. GEO. MAP. OF THE MTM ### QUAD
Period *Obligations*
 02/18/1993-02/28/1995 FY95: TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L S CRUMPLER HQ/J M BOYCE 32-Geological Sci

NAGW 3431 **Brown University** **7516**
 GEOLOGIC SIGNATURES OF ATMOSPHERIC EFFECTS ON IMPA CT
 CRATERING ON VENUS
Period *Obligations*
 03/03/1993-12/31/1995 FY95: TOTAL: \$139,563
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P H SCHULTY HQ/W J WAGNER 13-Physics
 HQ/G WITHBROE

NAGW 3486 **Brown University** **7517**
 RELATIONSHIP AND STRATIGRAPHIC ASSOCIATION OF THE SMALL
 VOLCANOES AND PLAINS TERRAIN OF VENUS
Period *Obligations*
 04/02/1993-03/14/1995 FY95: \$19,000 TOTAL: \$45,176
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J C AUBELE HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3488 **Brown University** **7518**
 THE GABBRO ECLOGITE TRANSITION AND CRYSTAL RECYCLI NG
 ON VENUS
Period *Obligations*
 03/27/1993-03/14/1995 FY95: TOTAL: \$111,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P C HESS HQ/J T BERGSTRALH 32-Geological Sci

NAGW 3613 **Brown University** **7519**
 EXPERIMENTAL STUDY OF CHEMICAL PHASE AND TEXTURAL
 EQUILIBRIUM OF HIGH TIO2 MARE BASALTS AND PERIDOTI
Period *Obligations*
 06/11/1993-04/30/1996 FY95: \$49,069 TOTAL: \$177,640
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P HESS HQ/RAHE 32-Geological Sci

NAGW 3633 **Brown University** **7520**
 EXPERIMENTAL STUDY OF LUNAR AND SNC MAGMAS: ROLE OF
 VOLATILES
Period *Obligations*
 06/16/1993-03/31/1996 FY95: \$44,100 TOTAL: \$134,503
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M RUTHERFORD HQ/J BOYCE 32-Geological Sci

NAGW 3709 **Brown University** **7521**
 MINERALOGY OF LUNAR MATERIALS FROM REFLECTANCE SPE C
Period *Obligations*
 08/10/1993-06/30/1996 FY95: \$65,721 TOTAL: \$92,511
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C PIETERS HQ/RAHE 32-Geological Sci

NAGW 3756 **Brown University** **7522**
 MISSION OPERATIONS AND CALIBRATION OF CLEMENTINE D ATA
 FOR MAXIMUM SCIENCE RETURN
Period *Obligations*
 09/17/1993-06/30/1997 FY95: \$80,000 TOTAL: \$170,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C PIETERS HQ/H C BRINTON 11-Astronomy

NAGW 3773 **Brown University** **7523**
 NAGW-3773/BROWN UNIV/VENUS MAGMATISM FROM MAGELLAN
 DATA
Period *Obligations*
 11/04/1993-05/31/1995 FY95: TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J W HEAD HQ/J T BERGSTRALH 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
RHODE ISLAND (Continued)**

NAGW 3803 **Brown University** **7524**
GEOLOGY AND GEOCHEMISTRY OF THE VENERA/BEGA LANDING SITES
Period *Obligations*
10/29/1993-09/30/1995 FY95: TOTAL: \$69,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A BASILEVSKY HQ/J T BERGSTRALH 32-Geological Sci

NAGW 4418 **Brown University** **7525**
CHAIRMANSHIP OF THE TERRESTRIAL PLANETARY BODIES SCIENCE WORKING GROUP
Period *Obligations*
05/12/1995-01/31/1996 FY95: \$49,992 TOTAL: \$49,992
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J HEAD,III HQ/J RAHE 11-Astronomy

NAGW 4792 **Brown University** **7526**
DEVELOPMENT OF A HIGH-RESOLUTION SINGLE-PHOTON X-RAY DETECTOR
Period *Obligations*
09/22/1995-07/31/1996 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G M SEIDEL HQ/L J KALUZIENSKI 11-Astronomy

NCA 2-796 **Brown University** **7527**
EFFECTS OF EXTREME ALTITUDE AND STRESS ON SOME ASPECTS OF SPEECH SYNTAX MEMORY AND COGNITION AT MT EVER
Period *Obligations*
02/16/1993-08/31/1994 FY95: TOTAL: \$39,967
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P LIEBERMAN ARC/B KANKI 61-Biol Aspects

NCC 2-5041 **Brown University** **7528**
VOICE MONITORING OF MOTOR CONTROL COGNITIVE ABILITY, AND STRESS
Period *Obligations*
03/18/1994-08/31/1995 FY95: TOTAL: \$19,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P LIEBERMAN ARC/B KANKI 69-Psych, NEC

NGT 00-040-034 **Brown University** **7529**
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period *Obligations*
04/03/1991-01/31/1998 FY95: \$170,000 TOTAL: \$830,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P H SCHULTZ HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-050-558 **Brown University** **7530**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/26/1990-06/30/1994 FY95: TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C M PIETERS HQ/F C OWENS 12-Chemistry

NGT 00-050-795 **Brown University** **7531**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/28/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C M PIETERS HQ/F C OWENS 32-Geological Sci

NGT 00-050-917 **Brown University** **7532**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/29/1992-06/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J RUTHERFORD HQ/J ALEXANDER 32-Geological Sci

NGT 00-050-922 **Brown University** **7533**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/30/1992-09/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M J RUTHERFORD HQ/J ALEXANDER 32-Geological Sci

NGT 00-051-011 **Brown University** **7534**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
02/09/1993-12/14/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R H GSFC/G SOFFEN 13-Physics
BRANDENBERGER

NGT 00-051-029 **Brown University** **7535**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/23/1993-06/30/1996 FY95: \$37,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P F FISHER HQ/J T LYNCH 21-Mathematics

NGT 00-051-058 **Brown University** **7536**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P H SCHULTZ HQ/D HOLLAND 32-Geological Sci

NGT 00-051-187 **Brown University** **7537**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
09/29/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P T TIMBIE GSFC/M BURRELL 13-Physics

NGT 00-051-262 **Brown University** **7538**
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G SEIDEL HQ/G LESANE 13-Physics

NGT 00-051-350 **Brown University** **7539**
GRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period *Obligations*
08/18/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P C HESS HQ/G A LESANE 32-Geological Sci

NGT 00-070-285 **Brown University** **7540**
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
07/09/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P C HESS HQ/J K ALEXANDER 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
RHODE ISLAND (Continued)**

NGT 00-070-326 **Brown University** **7541**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 07/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J HEAD HQ/D K RUSSELL 32-Geological Sci

NAG 5-1844 **University of Rhode Island** **7549**
 SOURCE OF VOLCANIC AEROSOL: SULFUR SOLUBILITY AND
 DEGASSING OF MAGMAS
Period *Obligations*
 12/10/1991-12/14/1994 FY95: TOTAL: \$162,989
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H SIGURDSSON GSFC/L S WALTER 31-Atmos Sci
 M J RUTHERFORD
 S CAREY

NGT 00-070-370 **Brown University** **7542**
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 07/13/1994-06/30/1996 FY95: \$22,000 TOTAL: \$54,051
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G E KARNIADAKIS HQ/D RUSSELL 46-Mech Engr

NAGW 1891 **University of Rhode Island** **7550**
 OCEAN COLOR STUDIES OF THE EASTERN ATLANTIC
Period *Obligations*
 12/07/1989-11/30/1995 FY95: \$165,000 TOTAL: \$927,453
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J A YODER HQ/M R LEWIS 33-Oceanography
 HQ/W S WILSON

NGT 00-090-234 **Brown University** **7543**
 UGSRP
Period *Obligations*
 11/19/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D TARGAN HQ/D RUSSELL 32-Geological Sci

NAGW 2560 **University of Rhode Island** **7551**
 NAGW-2560/UNIV RHODE ISLAND/SATELLITE/IN-SITU INVENTORY
 INTEROPERABILITY: THE FIRST STEP
Period *Obligations*
 06/13/1991-02/28/1994 FY95: TOTAL: \$494,266
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P CORNILLON HQ/G HUNOLT 33-Oceanography
 HQ/D M BUTLER

NAG 1-1222 **University of Rhode Island** **7544**
 DISTRIBUTIONS OF HYDROPEROXIDES:THEIR RELATIONSHIP TO
 OZONE AND OTHER OXIDANTS
Period *Obligations*
 02/27/1991-05/31/1996 FY95: \$42,000 TOTAL: \$459,567
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B G HEIKES LARC/J D BARRICK 31-Atmos Sci
 LARC/J M HOELL

NAGW 3009 **University of Rhode Island** **7552**
 A STUDY OF THE FORMATION OF SUBTROPICAL MODE WATER
Period *Obligations*
 04/03/1992-12/31/1995 FY95: \$193,313 TOTAL: \$578,484
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P C CORMILLON HQ/D ADAMEC 33-Oceanography
 HQ/R A SCHIFFER

NAG 1-1225 **University of Rhode Island** **7545**
 CONCENTRATIONS OF MINERAL AEROSOL AND TRACE ELENE
 TS IN ATMOSPHERE OF WESTERN PACIFIC AND RELATIONS
Period *Obligations*
 02/27/1991-02/25/1996 FY95: TOTAL: \$261,777
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R ARIMOTO LARC/B E ANDERSON 31-Atmos Sci
 R A DUCE LARC/J M HOELL

NAGW 3020 **University of Rhode Island** **7553**
 COMPARISON BETWEEN CZCS-MEASURED AEROSOL RADIANCE
 AND MARINE BOUNDARY LAYER MINERAL AEROSOL CONC.
Period *Obligations*
 03/30/1992-11/30/1993 FY95: TOTAL: \$95,681
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 N W TINDALE HQ/J A KAYE 31-Atmos Sci
 HQ/R E MURPHY

NAG 1-1235 **University of Rhode Island** **7546**
 METEOROLOGICAL AND PHOTOCHEMICAL MODELING IN PEM
 WEST
Period *Obligations*
 03/12/1991-02/28/1996 FY95: \$90,669 TOTAL: \$879,494
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J T MERRILL LARC/J M HOELL 31-Atmos Sci
 B HEIKES

NAGW 3496 **University of Rhode Island** **7554**
 NAGW-3496/UNIV RHODE ISLAND/BOLIDE IMPACT ON EVAPO RITE
 TERRANE
Period *Obligations*
 03/27/1993-12/31/1994 FY95: TOTAL: \$88,197
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H SUGURDSSON HQ/J BOYCE 32-Geological Sci

NAG 1-1757 **University of Rhode Island** **7547**
 THE DISTRIBUTION OF HYDROGEN PEROXIDE, METHYLHY-
 DROPEROXIDE, AND FORMALDEHYDE AND THEIR RELATION-
Period *Obligations*
 09/21/1995-03/31/1997 FY95: \$290,000 TOTAL: \$290,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D HEIKES LARC/J M HOELL JR. 31-Atmos Sci
 LARC/R J BENDURA

NAGW 3601 **University of Rhode Island** **7555**
 REMOTE SENSING OF MINERAL AEROSOLS AND THEIR IMPAC T
 ON PHYTOPLANKTON PRODUCTION
Period *Obligations*
 05/21/1993-04/30/1996 FY95: \$81,532 TOTAL: \$172,745
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P STEGMAN HQ/R E MURPHY 33-Oceanography
 N TINDALE

NAG 3-1428 **University of Rhode Island** **7548**
 HIGH TEMPERATURE THIN FILM STRAIN SENSORS BASED ON
 ALUMINUM NITRIDE
Period *Obligations*
 01/14/1993-02/16/1996 FY95: \$55,000 TOTAL: \$160,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 O J GREGORY LERC/L C MARTIN 49-Engr, NEC

**NASA'S UNIVERSITY PROGRAM
RHODE ISLAND (Continued)**

NAGW 3784 University of Rhode Island 7556
 WORKSHOP SERIES ON DISTRIBUTED DATA SYSTEMS FOR OC
 EANOGRAPHY
Period *Obligations*
 09/29/1993-06/30/1995 FY95: \$80,885 TOTAL: \$155,885
Prin. Invest. NASA Tech. Officer CASE Category
 P C CORNILLON HQ/D ADAMEC 33-Oceanography
 HQ/R A SCHIFFER

NAGW 3890 University of Rhode Island 7557
 UNIV RHODE ISLAND; DISTRIBUTED OCEANOGRAPHIC DATA
 SYSTEM DEVELOPMENT: CLIENT SERVER DATA LOCATION
Period *Obligations*
 03/09/1994-03/31/1997 FY95: \$112,000 TOTAL: \$196,849
Prin. Invest. NASA Tech. Officer CASE Category
 P CORNILLION HQ/G H MUCKLOW 22-Computer Science
 HQ/J H BREDECAMP

NAGW 4045 University of Rhode Island 7558
 1993 ORIGINS OF LIFE CONFERENCE
Period *Obligations*
 06/22/1994-05/30/1995 FY95: TOTAL: \$23,400
Prin. Invest. NASA Tech. Officer CASE Category
 D DES MARAIS HQ/M MEYER 51-Biological Sci

NAGW 4099 University of Rhode Island 7559
 1994 GORDON RESEARCH CONFERENCE ON CRYSTAL GROWTH
Period *Obligations*
 08/09/1994-05/31/1995 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 I D ALEXANDER HQ/D LONGEDDY 13-Physics

NAGW 4210 University of Rhode Island 7560
 A TEMPORARY MOTIVATED CLOUD DETECTION ALGORITHM FOR
 PATHFINDER SST FIELDS
Period *Obligations*
 12/01/1994-08/31/1995 FY95: \$14,680 TOTAL: \$14,680
Prin. Invest. NASA Tech. Officer CASE Category
 P CORNILLON HQ/M E MAIDEN 33-Oceanography

NAGW 4632 University of Rhode Island 7561
 MIDDLE SCHOOL TEACHER INSTITUTE ON GLOBAL CHANGE I
 SSUES
Period *Obligations*
 07/27/1995-06/30/1997 FY95: \$79,703 TOTAL: \$79,703
Prin. Invest. NASA Tech. Officer CASE Category
 L M CARTER HQ/M A PINE 39-Env Sci, NEC
 HQ/D R NORTON

NCC 5-123 University of Rhode Island 7562
 SUPPORT FOR CEOS WORKING GROUP ON DATA CATALOG SUB
 GROUP ACTIVITIES AS A NASA REPRESENTATIVE
Period *Obligations*
 09/14/1995-09/14/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 P CORNILLON GSFC/Y ENLOE 39-Env Sci, NEC
 G MILKOWSKI

NGT 00-030-307 University of Rhode Island 7563
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 08/15/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 Y A YODER HQ/M BALTUCK 33-Oceanography
 HQ/G ASRAR

SOUTH CAROLINA

NAG 8-259 Benedict College 7564
 JOVE
Period *Obligations*
 02/10/1993-05/31/1995 FY95: TOTAL: \$65,171
Prin. Invest. NASA Tech. Officer CASE Category
 L LOWE MSFC/F SIX 56-Medical Sciences

NAG 5-1551 Citadel Military College of S C 7565
 PHOTOGRAPHIC REGION ELEMENTAL ABUNDANCE ANALYSIS O F
 HST/GTO STARS, II
Period *Obligations*
 04/26/1991-07/31/1994 FY95: TOTAL: \$25,673
Prin. Invest. NASA Tech. Officer CASE Category
 S J ADELMAN GSFC/D S LECKRONE 11-Astronomy

NAG 5-2472 Citadel Military College of S C 7566
 ELEMENTAL ABUNDANCES OF MERCURY MANGANESE STARS
Period *Obligations*
 01/04/1994-01/31/1995 FY95: TOTAL: \$7,500
Prin. Invest. NASA Tech. Officer CASE Category
 S ADELMAN GSFC/D WEST 11-Astronomy

NAG 1-1108 Clemson University - Clemson 7567
 DEVELOPMENT OF HIGH TE (110K) BI, T1 AND Y-BASED MATERIALS
 AS SUPERCONDUCTING CIRCUIT ELEMENTS
Period *Obligations*
 02/28/1990-08/20/1994 FY95: \$12 TOTAL: \$170,800
Prin. Invest. NASA Tech. Officer CASE Category
 G H HAERTLING LARC/S A WISE 47-Materials Engr
 B I LEE/W C
 KELLIHER

NAG 1-1141 Clemson University - Clemson 7568
 STIFFNESS TAILORING OF COMPOSITE PLATES FOR IMPROVED
 STABILITY AND STRENGTH UNDER COMBINED LOADING.
Period *Obligations*
 05/28/1990-12/31/1996 FY95: \$20,000 TOTAL: \$327,036
Prin. Invest. NASA Tech. Officer CASE Category
 S B BIGGERS LARC/M J SHUART 41-Aero Engr
 LARC/D R AMBUR

NAG 1-1301 Clemson University - Clemson 7569
 SUPERCONDUCTIVITY DEVICES: COMMERCIAL USE FOR SPACE
Period *Obligations*
 07/03/1991-01/31/1996 FY95: \$70,000 TOTAL: \$295,000
Prin. Invest. NASA Tech. Officer CASE Category
 G H HAERTLING LARC/W E MILLER 47-Materials Engr

NAG 1-1634 Clemson University - Clemson 7570
 LASER RADAR SENSOR DEVELOPMENT SIGNAL PROCESSING
 STUDIES
Period *Obligations*
 06/30/1994-03/15/1996 FY95: \$82,694 TOTAL: \$142,589
Prin. Invest. NASA Tech. Officer CASE Category
 E G BAXA LARC/L D STATON 45-Elec Engr

NAG 3-1311 Clemson University - Clemson 7571
 NEUROCONTROL
Period *Obligations*
 12/12/1991-05/21/1995 FY95: TOTAL: \$151,718
Prin. Invest. NASA Tech. Officer CASE Category
 J K PETERSON LERC/J A PENNLINE 21-Mathematics

**NASA'S UNIVERSITY PROGRAM
SOUTH CAROLINA (Continued)**

NGT 00-050-975	Clemson University - Clemson	7588	NASA GRADUATE STUDENT RESEARCHERS PROGRAM	NAG 5-1634	College of Charleston	7597	A NASA/UNIVERSITY JOINT VENTURE IN SPACE SCIENCE (JOVE)
<i>Period</i>		<i>Obligations</i>		<i>Period</i>		<i>Obligations</i>	
08/18/1992-08/19/1994	FY95:	TOTAL: \$44,000		06/14/1991-07/14/1996	FY95:	TOTAL: \$121,600	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
E G BAXA	LARC/E PRIOR	45-Elec Engr		M W COLGAN	GSFC/G A SOFFEN	32-Geological Sci	
				P DUSTAN	GSFC/P J SAKIMOTO		
NGT 00-051-195	Clemson University - Clemson	7589	GRADUATE STUDENT RESEARCHERS PROGRAM	NAG 9-846	College of Charleston	7598	EVALUATION OF LUNAR DARK MANTLE DEPOSITS
<i>Period</i>		<i>Obligations</i>		<i>Period</i>		<i>Obligations</i>	
09/29/1993-08/23/1996	FY95: \$22,000	TOTAL: \$66,000		09/18/1995-05/31/1996	FY95: \$17,000	TOTAL: \$17,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
D DINGER	LARC/E PRIOR	49-Engr, NEC		D R COOMBS	SSC/D SICKOREZ	32-Geological Sci	
NGT 00-070-386	Clemson University - Clemson	7590	NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM	NAGW 4467	College of Charleston	7599	EXPLORING THE SOLAR SYSTEM IN THE CLASSROOM: A HANDS ON APPROACH
<i>Period</i>		<i>Obligations</i>		<i>Period</i>		<i>Obligations</i>	
08/26/1994-06/30/1995	FY95: \$22,000	TOTAL: \$44,000		05/12/1995-01/31/1996	FY95: \$8,000	TOTAL: \$8,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
J PETERSON	HQ/D RUSSELL	21-Mathematics		C COOMBS	HQ/H BRINTON	99-Multi-Discip	
NGT 00-090-109	Clemson University - Clemson	7591	UNDERGRADUATE STUDENT RESEARCHERS PROGRAM	NAGW 4787	College of Charleston	7600	ROTATIONAL EVOLUTION OF COOL STARS FROM THE ZERO A GE
<i>Period</i>		<i>Obligations</i>		<i>Period</i>		<i>Obligations</i>	
09/17/1992-08/14/1994	FY95:	TOTAL: \$24,000		09/25/1995-08/31/1996	FY95: \$79,183	TOTAL: \$79,183	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
S J LASSER	HQ/D K RUSSELL	99-Multi-Discip		D BUZASI	HQ/G R RIEGLER	11-Astronomy	
NGT 00-090-192	Clemson University - Clemson	7592	UNDERGRADUATE STUDENT RESEARCHERS PROGRAM	NGT 00-040-055	College of Charleston	7601	SOUTH CAROLINA SPACE GRANT CONSORTIUM
<i>Period</i>		<i>Obligations</i>		<i>Period</i>		<i>Obligations</i>	
08/25/1993-08/14/1995	FY95:	TOTAL: \$24,000		08/13/1993-02/28/1996	FY95: \$211,425	TOTAL: \$554,425	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
S LASSER	HQ/D RUSSELL	99-Multi-Discip		M W COLGAN	HQ/E T SCHWARTZ	99-Multi-Discip	
NGT 00-090-193	Clemson University - Clemson	7593	UNDERGRADUATE STUDENT RESEARCHERS PROGRAM	NAG 8-1101	Furman University	7602	JOVE
<i>Period</i>		<i>Obligations</i>		<i>Period</i>		<i>Obligations</i>	
08/27/1993-08/14/1996	FY95: \$12,000	TOTAL: \$36,000		10/19/1994-05/31/1996	FY95: \$54,000	TOTAL: \$54,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
S LASSER	HQ/D K RUSSELL	99-Multi-Discip		K C ABERNETHY	MSFC/F SIX	29-Math/Computer, NEC	
NGT 00-090-194	Clemson University - Clemson	7594	UNDERGRADUATE STUDENT RESEARCHERS PROGRAM				
<i>Period</i>		<i>Obligations</i>					
08/27/1993-08/14/1994	FY95:	TOTAL: \$12,000					
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>					
S LASSER	HQ/D RUSSELL	99-Multi-Discip					
NGT 00-090-220	Clemson University - Clemson	7595	UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM	NAG 1-1752	South Carolina State University	7603	REMOTE SENSING OF TROPOSPHERIC CARBON MONOXIDE DAT A COMPARISON AND RADIATIVE TRANSFER STATION
<i>Period</i>		<i>Obligations</i>		<i>Period</i>		<i>Obligations</i>	
09/23/1993-08/14/1995	FY95:	TOTAL: \$24,000		09/12/1995-09/12/1996	FY95: \$18,000	TOTAL: \$18,000	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
S LASSER	HQ/D RUSSELL	99-Multi-Discip		S RAMAR	LARC/Y CONNORS	31-Atmos Sci	
NGT 00-090-253	Clemson University - Clemson	7596	UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)	NAGW 4618	South Carolina State University	7604	SHARE WITH A PAIR OF PEERS - SWAPOP PROJECT
<i>Period</i>		<i>Obligations</i>		<i>Period</i>		<i>Obligations</i>	
01/11/1995-08/14/1996	FY95: \$48,000	TOTAL: \$48,000		07/21/1995-08/14/1998	FY95: \$184,227	TOTAL: \$184,227	
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	
J S LASSER	HQ/D K RUSSELL	45-Elec Engr		J W FULLER	HQ/B L WHITE	99-Multi-Discip	

**NASA'S UNIVERSITY PROGRAM
SOUTH CAROLINA (Continued)**

NCC 5-116 South Carolina State University 7605
 CENTER FOR NETWORK RESOURCES AND TRAINING AT SOUTH
 CAROLINA STATE UNIVERSITY

<i>Period</i>	<i>Obligations</i>	
08/15/1995-08/14/1996	FY95: \$540,000	TOTAL: \$540,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D K WALTER	GSFC/J BENNETT	22-Computer Science

NAS13-449 University of South Carolina-Columbia 7613
 IMPROVED URBAN INFRASTRUCTURE MAPPING USING REMOTE
 SENSING AND GIS TECHNOLOGY

<i>Period</i>	<i>Obligations</i>	
07/10/1991-07/09/1994	FY95:	TOTAL: \$226,224
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D J COWEN	SSC/C L HILL	72-Economics
J R JENSEN	SSC/B DAVIS	

NAG 1-1489 University of South Carolina-Columbia 7606
 CHARACTERIZATION OF CRACK GROWTH IN ALUMINUM SHEETS
 SUBJECTED TO MULTIMODE LOADING NLPN 93-105

<i>Period</i>	<i>Obligations</i>	
02/19/1993-11/30/1995	FY95: \$106,575	TOTAL: \$288,375
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M SUTTON	LARC/C E HARRIS	47-Materials Engr
W CHAO		

NGT 00-051-315 University of South Carolina-Columbia 7614
 GRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
07/29/1994-08/31/1997	FY95: \$22,000	TOTAL: \$44,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J R ROSE	HQ/J T LYNCH	22-Computer Science

NAG 1-1664 University of South Carolina-Columbia 7607
 DEVELOPMENT OF A PC-BASED, AUTOMATED CRACK CLOSURE
 MEASUREMENT SYSTEM USING COMPUTER VISION

<i>Period</i>	<i>Obligations</i>	
01/31/1995-01/31/1996	FY95: \$63,366	TOTAL: \$63,366
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M SUTTON	LARC/R S PIASCIK	47-Materials Engr

NGT 00-090-145 University of South Carolina-Columbia 7615
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/26/1992-08/14/1996	FY95: \$24,000	TOTAL: \$48,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M SUTTON	HQ/D K RUSSELL	99-Multi-Discip

NAGW 2510 University of South Carolina-Columbia 7608
 NAGW-2510/UNIV SOUTH CAROLINA/3-D UV DETECTORS BAS ED
 ON ENERGY SENSITIVE SUPERCONDUCTING ELEMENTS

<i>Period</i>	<i>Obligations</i>	
05/09/1991-08/31/1994	FY95:	TOTAL: \$309,987
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A K DRUKER	HQ/R STACHNIK	11-Astronomy

SOUTH DAKOTA

NAG 1-542 South Dakota School of Mines & Tech 7616
 MODELING AND PARAMETERIZATION OF HORIZONTALLY
 INHOMOGENEOUS CLOUD RADIATIVE PROP.

<i>Period</i>	<i>Obligations</i>	
12/07/1984-11/15/1995	FY95:	TOTAL: \$615,388
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S K SENGUPTA	LARC/B A WIELICKI	31-Atmos Sci

NAGW 3169 University of South Carolina-Columbia 7609
 MULTISENSOR ANALYSIS OF THE ENVIRONMENTAL SENSITIV ITY
 OF OIL IMPACTED

<i>Period</i>	<i>Obligations</i>	
08/28/1992-08/31/1994	FY95:	TOTAL: \$107,390
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J JENSEN	HQ/M R HELFERT	39-Env Sci, NEC
J MICHEL	HQ/D M BUTLER	

NAG 3-1680 South Dakota School of Mines & Tech 7617
 STUDY OF SOLID STATE SURFACE FOR ELECTRON EMISSION
 APPLICATIONS

<i>Period</i>	<i>Obligations</i>	
12/05/1994-12/04/1995	FY95: \$21,896	TOTAL: \$21,896
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A PETUKHOV	LERC/I L KRAINSKY	13-Physics

NAGW 3637 University of South Carolina-Columbia 7610
 BASALTIC VOLCANISM AND ANCIENT PLANETARY CRUSTS

<i>Period</i>	<i>Obligations</i>	
06/04/1993-05/31/1996	FY95: \$20,846	TOTAL: \$60,966
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J SHERVAIS	HQ/J BOYCE	32-Geological Sci

NAG 5-386 South Dakota School of Mines & Tech 7618
 RAIN VOLUME ESTIMATION OVER AREAS USING SATELLITE AND
 RADAR DATA

<i>Period</i>	<i>Obligations</i>	
01/01/1984-04/30/1996	FY95: \$60,000	TOTAL: \$693,327
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P SMITH	GSFC/R F ADLER	31-Atmos Sci
T H VONDER HAAR		

NAGW 4610 University of South Carolina-Columbia 7611
 DURABILITY OF ADVANCED MATERIALS FOR THE NEXT
 GENERATION OF SUBSONIC AIRCRAFT

<i>Period</i>	<i>Obligations</i>	
08/11/1985-02/28/1996	FY95: \$150,000	TOTAL: \$150,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M COLGAN	HQ/A S MCGEE	49-Engr, NEC
	HQ/E T SCHWARTZ	

NAG 5-2711 South Dakota School of Mines & Tech 7619
 EFFECTS OF SUBSONIC AIRCRAFT ON AEROSOLS AND
 CLOUDINESS IN THE UPPER TROPOSPHERE, ETC...

<i>Period</i>	<i>Obligations</i>	
09/01/1994-10/31/1995	FY95: \$56,000	TOTAL: \$60,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A G DETWILER	GSFC/R W STEWART	31-Atmos Sci

NAG13-27 University of South Carolina-Columbia 7612
 A NASA VISITING INVESTIGATOR PROGRAM

<i>Period</i>	<i>Obligations</i>	
09/02/1993-09/30/1995	FY95: \$91,053	TOTAL: \$209,290
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J R JENSEN	SSC/C	39-Env Sci, NEC
D C COWEN		

**NASA'S UNIVERSITY PROGRAM
SOUTH DAKOTA (Continued)**

NAG 5-2712 South Dakota School of Mines & Tech 7620
RADIATIVE EFFECTS OF SUBSONIC JET CONTRAILS
Period Obligations
09/01/1994-10/31/1995 FY95: \$51,600 TOTAL: \$54,786
Prin. Invest. NASA Tech. Officer CASE Category
R M WELCH GSFC/R W STEWART 31-Atmos Sci

NAGW 4791 South Dakota School of Mines & Tech 7628
GLOBAL CLOUD MASK AND RETRIEVAL OF CLOUD PARTICLE SIZE
AND OPTICAL THICKNESS USING ADEOS OCTS DATA
Period Obligations
09/25/1995-06/30/1996 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
R M WELCH HQ/R A SCHIFFER 31-Atmos Sci

NAG 5-2889 South Dakota School of Mines & Tech 7621
TESTING AND EVALUATION OF THE EOSDIS CORE SYSTEM
Period Obligations
02/08/1995-02/14/1996 FY95: \$89,000 TOTAL: \$89,000
Prin. Invest. NASA Tech. Officer CASE Category
R M WELCH GSFC/D J BLAKE 31-Atmos Sci

NAS 1-19077 South Dakota School of Mines & Tech 7629
SCIENCE INVESTIGATIONS IN SUPPORT OF CLOUDS AND THE
EARTH'S RADIANT ENERGY SYSTEM (CERES)
Period Obligations
12/12/1989-12/12/1999 FY95: \$298,000 TOTAL: \$1,008,299
Prin. Invest. NASA Tech. Officer CASE Category
R M WELCH LARC/B A WIELICKI 19-Phys Sci, NEC
LARC/J W YOUNGBLOOD

NAG 5-2950 South Dakota School of Mines & Tech 7622
SCIENTIFIC KNOWLEDGE FOR INDIAN LEARNING AND LEADERSHIP(SKILL) NASA HONORS SUMMER PROGRAM
Period Obligations
05/31/1995-05/31/1996 FY95: \$144,404 TOTAL: \$144,404
Prin. Invest. NASA Tech. Officer CASE Category
S MCCOLLOH GSFC/T GULL 39-Env Sci, NEC

NAS 5-31718 South Dakota School of Mines & Tech 7630
EOS ASTER/HIRIS INVESTIGATION
Period Obligations
01/09/1992-12/14/2001 FY95: \$110,000 TOTAL: \$882,000
Prin. Invest. NASA Tech. Officer CASE Category
R WELCH GSFC/T BRAKE 39-Env Sci, NEC

NAGW 3740 South Dakota School of Mines & Tech 7623
IMPACT OF AEROSOLS GENERATED FROM BIOMASS BURNING,
DUST STORMS, AND VOLCANOES
Period Obligations
09/22/1993-02/28/1996 FY95: \$69,720 TOTAL: \$181,770
Prin. Invest. NASA Tech. Officer CASE Category
R M WELCH HQ/J T SUTTLES 31-Atmos Sci
HQ/A C JANETOS

NCA 5-115 South Dakota School of Mines & Tech 7631
SCIENTIFIC KNOWLEDGE FOR INDIAN LEARNING AND LEADERSHIP
(SKILL) SUMMER PROGRAM
Period Obligations
01/20/1993-09/30/1995 FY95: TOTAL: \$106,000
Prin. Invest. NASA Tech. Officer CASE Category
S C MCCULLOH GSFC/P J SAKIMOTO 31-Atmos Sci
P SMITH GSFC/T R GULL
D J ANDERSON

NAGW 3788 South Dakota School of Mines & Tech 7624
GLOBAL AND REGIONAL AEROSOLS AND THEIR EFFECTS ON
CLOUD PROPERTIES
Period Obligations
10/05/1993-09/30/1996 FY95: \$59,810 TOTAL: \$124,710
Prin. Invest. NASA Tech. Officer CASE Category
Q Y HAN HQ/J C DODGE 31-Atmos Sci

NCC 9-24 South Dakota School of Mines & Tech 7632
ELECTRONIC EXTENSION SERVICES
Period Obligations
05/18/1994-04/30/1997 FY95: TOTAL: \$1,344,412
Prin. Invest. NASA Tech. Officer CASE Category
T S ARNESON JSC/C WOOLLEY 49-Engr, NEC

NAGW 3922 South Dakota School of Mines & Tech 7625
GLOBAL RETRIEVAL OF CLOUD PARTICLE SIZE AND OPTICAL
THICKNESS USING ISCCP DATA
Period Obligations
04/05/1994-03/31/1997 FY95: \$57,000 TOTAL: \$121,000
Prin. Invest. NASA Tech. Officer CASE Category
Q HAN HQ/R A SCHIFFER 31-Atmos Sci

NGT 00-030-142 South Dakota School of Mines & Tech 7633
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
10/01/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
S A CHRISTOPHER HQ/G ASRAR 99-Multi-Discip
HQ/D M BUTLER

NAGW 3966 South Dakota School of Mines & Tech 7626
NAGW-3966/B SOUTH DAKOTA SCH. OF MINES AND TECH. 'E RBE
AND SAGE-II INVEST. OF CLOUD RADIATIVE..
Period Obligations
05/13/1994-04/30/1997 FY95: \$84,000 TOTAL: \$177,300
Prin. Invest. NASA Tech. Officer CASE Category
R M WELSH HQ/R A SCHIFFER 31-Atmos Sci

NGT 00-040-046 South Dakota School of Mines & Tech 7634
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
03/14/1991-02/28/1998 FY95: \$170,500 TOTAL: \$834,000
Prin. Invest. NASA Tech. Officer CASE Category
P L SMITH HQ/E T SCHWARTZ 99-Multi-Discip

NAGW 4708 South Dakota School of Mines & Tech 7627
A NEW CLASS OF MATERIAL FOR LONG DURATION SCIENTIFIC
BALLOON PLATFORMS
Period Obligations
08/24/1995-05/31/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
C JENKINS HQ/G ASRAR 41-Aero Engr

NGT 00-090-139 South Dakota School of Mines & Tech 7635
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/26/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
F CAMPONE HQ/D K RUSSELL 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
TENNESSEE (Continued)**

NGT 00-070-369 University of Memphis 7672
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 11/24/1993-08/14/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 M GARZON HQ/D K RUSSELL 22-Computer Science

NAG 5-2109 Tennessee State University 7653
 PARAMETRIC ROBUST CONTROL AND SYSTEM IDENTIFICATION:
 UNIFIED APPROACH
Period Obligations
 09/28/1992-12/14/1995 FY95: \$89,333 TOTAL: \$289,543
Prin. Invest. NASA Tech. Officer CASE Category
 L KEEL GSFC/H P FRISCH 42-Astro Engr

NAG 8-1211 Middle Tennessee State University 7646
 JOVE
Period Obligations
 09/22/1995-08/31/1998 FY95: \$26,000 TOTAL: \$26,000
Prin. Invest. NASA Tech. Officer CASE Category
 D HEFFINGTON MSFC/D SIX 32-Geological Sci
 D WHITE

NAG 5-2464 Tennessee State University 7654
 THE RELATIONSHIP OF METALLICITY AND ACTIVITY
Period Obligations
 01/06/1994-06/30/1995 FY95: TOTAL: \$1,500
Prin. Invest. NASA Tech. Officer CASE Category
 F C FEKEL GSFC/D WEST 11-Astronomy

NAG 3-1171 Tennessee State University 7647
 TSU RESEARCH PROJECT FOR INCREASING THE POOL OF MI
 NORITY ENGINEERS
Period Obligations
 05/07/1990-07/14/1994 FY95: TOTAL: \$258,002
Prin. Invest. NASA Tech. Officer CASE Category
 D B ROGERS LERC/R F LAWRENCE 41-Aero Engr
 LERC/R L BONDURANT

NAG 5-2682 Tennessee State University 7655
 WINDS IN NON-ECLIPSING ZETA AURIGAE BINARIES
Period Obligations
 08/15/1994-08/14/1995 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 J A EATON GSFC/D WEST 11-Astronomy

NAG 3-1471 Tennessee State University 7648
 ROBUST INTEGRATED NEURO CONTROLLER FOR COMPLEX DYN
 AMIC SYSTEMS
Period Obligations
 05/31/1993-06/20/1996 FY95: \$75,000 TOTAL: \$416,844
Prin. Invest. NASA Tech. Officer CASE Category
 M S ZEIN-SABATTO LERC/T GUO 41-Aero Engr
 MARPAKA
 M MALKANI

NAG 8-111 Tennessee State University 7656
 PHOTOMETRIC AND SPECTROSCOPIC STUDY OF
 CHROMOSPHERICALLY ACTIVESTARS
Period Obligations
 06/09/1988-07/13/1994 FY95: TOTAL: \$544,282
Prin. Invest. NASA Tech. Officer CASE Category
 M R BUSBY MSFC/J L RANDALL 11-Astronomy
 MSFC/R J WALKER

NAG 3-1479 Tennessee State University 7649
 A STUDY OF RELATIONSHIP BETWEEN PROBABILISTIC DESI GN
 AND AXIOMETRIC DESIGN METHODOLOGY
Period Obligations
 05/14/1993-05/30/1996 FY95: \$400,367 TOTAL: \$1,198,860
Prin. Invest. NASA Tech. Officer CASE Category
 C ONWVBIXO LERC/L BERKE 49-Engr, NEC
 F MISHU LERC/D HOPKINS
 F C CHEN

NAG 8-1014 Tennessee State University 7657
 SUN OBSERVATIONS
Period Obligations
 11/19/1993-11/18/1995 FY95: \$119,903 TOTAL: \$238,046
Prin. Invest. NASA Tech. Officer CASE Category
 G HENRY MSFC/J M DAVIS 11-Astronomy
 J EATON
 M BUSBY

NAG 3-1647 Tennessee State University 7650
 INCREASING THE POOL OF MINORITY ENGINEERS
Period Obligations
 07/01/1994-10/31/1994 FY95: TOTAL: \$69,235
Prin. Invest. NASA Tech. Officer CASE Category
 D B ROGERS LERC/J E BOYD 49-Engr, NEC

NAG 8-1018 Tennessee State University 7658
 RESEARCH ON THE MECHANICAL PROPERTIES OF ION BEAM
 DEPOSITS
Period Obligations
 03/04/1994-06/30/1996 FY95: \$90,470 TOTAL: \$245,482
Prin. Invest. NASA Tech. Officer CASE Category
 D K CHAUDHUN MSFC/F E ROBERTS 47-Materials Engr
 MSFC/R J WALKER

NAG 3-1709 Tennessee State University 7651
 TSU RESEARCH PROJECT FOR INCREASING THE POOL OF MI
 NORITY ENGINEERS
Period Obligations
 02/01/1995-01/31/1996 FY95: \$84,660 TOTAL: \$84,660
Prin. Invest. NASA Tech. Officer CASE Category
 B ROGERS LERC/J BOYD 49-Engr, NEC

NCC 2-883 Tennessee State University 7659
 ARTIFICIAL INTELLIGENCE SCHEDULING OF AUTOMATED TE
 LESCOPIES
Period Obligations
 01/31/1995-09/30/1996 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 G W HENRY ARC/P E FRIEDLAND 22-Computer Science

NAG 5-1474 Tennessee State University 7652
 1. CHROMOSPHERIC STRUCTURE AND HEATING IN SEMIREG ULAR
 VARIABLES 2. MAPPING THE CHROMOSPHERE OF .
Period Obligations
 10/16/1990-01/31/1995 FY95: TOTAL: \$175,100
Prin. Invest. NASA Tech. Officer CASE Category
 J A EATON GSFC/D WEST 11-Astronomy

NCC 5-96 Tennessee State University 7660
 NASA/TSU NETWORK RESOURCE AND TRAINING SITE
Period Obligations
 08/15/1995-08/14/1996 FY95: \$500,000 TOTAL: \$500,000
Prin. Invest. NASA Tech. Officer CASE Category
 W SMITH GSFC/J BENNETT 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
TENNESSEE (Continued)**

NCCW 85 Tennessee State University 7661
 CENTER FOR AUTOMATED SPACE SCIENCE
Period Obligations
 07/20/1995-06/30/2000 FY95: \$1,500,000 TOTAL: \$1,500,000
Prin. Invest. NASA Tech. Officer CASE Category
 M R BUSBY HQ/B L WHITE 11-Astronomy

NAG 1-1566 University of Tennessee - Knoxville 7675
 EFFECT OF FIBER-MATRIX INTERFACE ON THE THERMO- OXIDATIVE
 STABILITY OF IM7/5260 COMPOSITES
Period Obligations
 01/14/1994-10/10/1995 FY95: \$75,832 TOTAL: \$131,419
Prin. Invest. NASA Tech. Officer CASE Category
 M S MADHUKAR LARC/W S JOHNSON 47-Materials Engr
 LARC/C E HARRIS

NGT 00-090-127 Tennessee State University 7662
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/24/1992-08/14/1996 FY95: \$12,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 S DEVGAN HQ/D K RUSSELL 99-Multi-Discip

NAG 1-1612 University of Tennessee - Knoxville 7676
 LARGE-VORTEX CAPTURE BY A WING AT VERY HIGH ANGLES OF
 ATTACK
Period Obligations
 04/19/1994-04/12/1996 FY95: \$71,300 TOTAL: \$142,600
Prin. Invest. NASA Tech. Officer CASE Category
 J M WU LARC/R D JOSLIN 41-Aero Engr
 J Z WU

NGT 00-090-274 Tennessee State University 7663
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 12/16/1994-08/14/1996 FY95: \$96,000 TOTAL: \$96,000
Prin. Invest. NASA Tech. Officer CASE Category
 D ROGERS HQ/D K RUSSELL 45-Elec Engr

NAG 2-861 University of Tennessee - Knoxville 7677
 SUPERSONIC LAMINAR FLOW CONTROL RESEARCH
Period Obligations
 01/24/1994-12/31/1995 FY95: \$30,000 TOTAL: \$60,829
Prin. Invest. NASA Tech. Officer CASE Category
 C F LO ARC/L S KING 41-Aero Engr

NAG 8-206 Tennessee Technological University 7664
 INVESTIGATION OF COLLISOINAL BROADENING MECHANISMS FOR
 ATOMIC SPECIES ON COMBUSTED H2/O2
Period Obligations
 07/22/1991-01/22/1995 FY95: TOTAL: \$57,878
Prin. Invest. NASA Tech. Officer CASE Category
 D C VENTRICE MSFC/W T POWERS 11-Astronomy
 V P FORTNER

NAG 3-1516 University of Tennessee - Knoxville 7678
 DEVELOPMENT OF A METHOD FOR FAST NUMERICAL SOLUTIO N
 OF HELMHOLTZ ATYPE PROBLEMS
Period Obligations
 07/22/1993-12/06/1995 FY95: \$91,969 TOTAL: \$228,636
Prin. Invest. NASA Tech. Officer CASE Category
 J CARUTHERS LERC/D L HUFF 41-Aero Engr

NAG 9-710 Tennessee Technological University 7665
 DESIGN OF SYNTHETIC ESTIMATION FILTERS
Period Obligations
 08/30/1993-11/01/1994 FY95: TOTAL: \$14,281
Prin. Invest. NASA Tech. Officer CASE Category
 P K BAJAN JSC/R JUDAY 22-Computer Science

NAG 3-1573 University of Tennessee - Knoxville 7679
 TOOLS FOR HETEROGENEOUS NETWORK COMPUTING PVM
Period Obligations
 04/01/1994-06/30/1996 FY95: \$100,000 TOTAL: \$200,000
Prin. Invest. NASA Tech. Officer CASE Category
 J DOWGARRA LERC/G J FOLLEN 22-Computer Science

NGT 00-050-731 Tennessee Technological University 7666
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/30/1991-08/31/1994 FY95: TOTAL: \$64,083
Prin. Invest. NASA Tech. Officer CASE Category
 S HAN HQ/F C OWENS 46-Mech Engr

NAG 3-1697 University of Tennessee - Knoxville 7680
 CONTAINERLESS DIRECTIONAL SOLIDIFICATION FO HIGH P URITY
 INTERMETALLICS CRYSTALS AND COMPOSITES
Period Obligations
 01/18/1995-01/31/1996 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 B F OLIVER LERC/R D NOEBE 47-Materials Engr

NAG 1-1008 University of Tennessee - Knoxville 7673
 ROBOTIC CONTROL OF NASA LABORATORY TELEROBOTIC
 MANIPULATOR
Period Obligations
 06/16/1989-12/31/1994 FY95: TOTAL: \$188,048
Prin. Invest. NASA Tech. Officer CASE Category
 R V DUBEY LARC/W W HANKINS 46-Mech Engr
 LARC/L K BARKER

NAG 3-1707 University of Tennessee - Knoxville 7681
 ADVANCED PROPULSION POWER DISTRIBUTION SYSTEM FOR NEXT
 GENERATION ELECTRIC/HYBRID VEHICLE PHASE 1:
Period Obligations
 01/30/1995-07/07/1995 FY95: \$61,879 TOTAL: \$61,879
Prin. Invest. NASA Tech. Officer CASE Category
 B K BOSE LERC/M D KANKAM 45-Elec Engr

NAG 1-1368 University of Tennessee - Knoxville 7674
 AERODYNAMIC/ACOUSTIC COMPUTATION OF HELICOPTER ROTORS
 INCLUDING BLADE/VORTEX IMPINGEMENT
Period Obligations
 12/12/1991-12/09/1995 FY95: \$54,996 TOTAL: \$224,331
Prin. Invest. NASA Tech. Officer CASE Category
 J S STEINHOFF LARC/C L BURLEY 41-Aero Engr
 LARC/T F BROOKS

NAG 8-132 University of Tennessee - Knoxville 7682
 STUDY DROPLET BEHAVIOR AT SUPER CRITICAL PRESSURES
Period Obligations
 09/29/1989-07/31/1994 FY95: TOTAL: \$190,222
Prin. Invest. NASA Tech. Officer CASE Category
 S M JENG MSFC/R H ESKRIDGE 46-Mech Engr
 MSFC/F D BACHTEL

**NASA'S UNIVERSITY PROGRAM
TENNESSEE (Continued)**

NAG 8-1065 University of Tennessee - Knoxville 7683
 SYNTHESIS AND CHARACTERIZATION OF SINGLE
 MACROMOLECULES
Period Obligations
 06/28/1994-08/31/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 S D ALEXANDRATES MSFC/J P DOWNEY 47-Materials Engr
 B WUNDERLICH
 K D COOK

NAG 8-1089 University of Tennessee - Knoxville 7684
 DEVELOPMENT OF LIQUID HANDLING TECHNIQUES IN
 MICROGRAVITY
Period Obligations
 08/23/1994-11/22/1995 FY95: TOTAL: \$29,808
Prin. Invest. NASA Tech. Officer CASE Category
 B N ANTAR MSFC/D KORNFELD 19-Phys Sci, NEC

NAG 9-409 University of Tennessee - Knoxville 7685
 LUNAR SIMULANTS
Period Obligations
 01/02/1990-12/01/1994 FY95: TOTAL: \$80,853
Prin. Invest. NASA Tech. Officer CASE Category
 L A TAYLOR JSC/D S MCKAY 32-Geological Sci

NAG 9-415 University of Tennessee - Knoxville 7686
 CRUST/MANTLE INTERACTIONS IN PLANETARY EVOLUTION
Period Obligations
 05/11/1990-02/01/1994 FY95: TOTAL: \$463,200
Prin. Invest. NASA Tech. Officer CASE Category
 L A TAYLOR JSC/I D BROWNE 19-Phys Sci, NEC

NAGW 125 University of Tennessee - Knoxville 7687
 SPECTROSCOPY OF METHANE FOR THE ATMOSPHERES OF THE
 OUTER PLANETS
Period Obligations
 03/01/1981-12/31/1995 FY95: TOTAL: \$718,795
Prin. Invest. NASA Tech. Officer CASE Category
 K FOX HQ/J T BERGSTRALH 31-Atmos Sci
 HQ/W L QUAIDE

NAGW 2015 University of Tennessee - Knoxville 7688
 CONFERENCE ON LABORATORIES FOR PLANETARY ATMOSPHERE
 RESEARCH
Period Obligations
 04/02/1990-12/31/1993 FY95: TOTAL: \$103,329
Prin. Invest. NASA Tech. Officer CASE Category
 K FOX HQ/J BERGSTRALH 11-Astronomy

NAGW 2800 University of Tennessee - Knoxville 7689
 LIGHT STABLE ISOTOPE ANALYSIS OF METEORITES BY ION
 MICROPROBE
Period Obligations
 01/06/1992-07/31/1994 FY95: TOTAL: \$87,238
Prin. Invest. NASA Tech. Officer CASE Category
 H Y MCSWEEN HQ/J K ALEXANDER 19-Phys Sci, NEC
 HQ/D A HOLLAND

NAGW 3141 University of Tennessee - Knoxville 7690
 EMBRYOGENESIS OF GRAMINEAL IN MICROGRAVITY
Period Obligations
 07/24/1992-07/31/1995 FY95: TOTAL: \$83,000
Prin. Invest. NASA Tech. Officer CASE Category
 B V CONGER HQ/T W HALSTEAD 51-Biological Sci

NAGW 3453 University of Tennessee - Knoxville 7691
 PETROGENESIS OF THE LUNAR CRUST AND MANTLE
Period Obligations
 03/29/1993-01/31/1996 FY95: \$110,850 TOTAL: \$345,802
Prin. Invest. NASA Tech. Officer CASE Category
 L TAYLOR HQ/H C BRINTON 32-Geological Sci

NAGW 3578 University of Tennessee - Knoxville 7692
 REMOTE SENSING OF OCEAN COLOR IN THE HIGH ARCTIC
Period Obligations
 05/05/1993-03/31/1995 FY95: \$126,833 TOTAL: \$487,945
Prin. Invest. NASA Tech. Officer CASE Category
 G COTA HQ/D E WICKLAND 33-Oceanography
 HQ/A C JANETOS

NAGW 3621 University of Tennessee - Knoxville 7693
 METEORITE PETROGENESIS
Period Obligations
 06/17/1993-03/31/1996 FY95: \$98,690 TOTAL: \$282,196
Prin. Invest. NASA Tech. Officer CASE Category
 H MCSWEEN HQ/J BOYCE 11-Astronomy

NAGW 4326 University of Tennessee - Knoxville 7694
 ASTEROID HEATING: A PLAUSIBILITY TEST FOR NEBULAR ISOTOPIC
 HOMOGENEITY AND ACCRETION TIMESCALES
Period Obligations
 03/04/1995-12/31/1996 FY95: \$23,904 TOTAL: \$23,904
Prin. Invest. NASA Tech. Officer CASE Category
 H MCSWEEN HQ/P G ROGERS 11-Astronomy

NAGW 4459 University of Tennessee - Knoxville 7695
 CONFERENCE ON LABORATORY RESEARCH FOR PLANETARY
 ATMOSPHERE
Period Obligations
 05/02/1995-04/30/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 K FOX HQ/J BERGSTRALH 19-Phys Sci, NEC

NAGW 4774 University of Tennessee - Knoxville 7696
 KRYPTON AND XENON ISOTOPE MEASUREMENTS FROM SINGLE
 MICRON-SIZED REFRACTORY EXTRATERRESTRIAL GRAINS
Period Obligations
 09/20/1995-08/31/1998 FY95: \$147,009 TOTAL: \$147,009
Prin. Invest. NASA Tech. Officer CASE Category
 N THONNARD HQ/D A HOLLAND 11-Astronomy
 HQ/J H BREDEKAMP

NAG10-138 University of Tennessee - Knoxville 7697
 SOMATIC ENBRYOGENESIS OF ORCHARDGRASS IN MICRO-
 GRAVITY
Period Obligations
 06/06/1994-12/31/1995 FY95: TOTAL: \$95,706
Prin. Invest. NASA Tech. Officer CASE Category
 B V CONGER KSC/W M KNOTT 55-Agriculture Sci

NCC 5-88 University of Tennessee - Knoxville 7698
 CHAOSI UNDERSTANDING AND CONTROLLING LASER INSTABILITY
Period Obligations
 05/03/1995-05/14/1996 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 W E BLASS GSFC/G CHIN 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
TENNESSEE (Continued)**

NGT 00-050-870 University of Tennessee - Knoxville 7699
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/06/1992-09/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 H V MCSWEEN JSC/S GOLDSTEIN 32-Geological Sci

NAG 1-1484 Vanderbilt University 7707
 ADAPTIVE STRUCTURES AND DEVICES FOR SPACE APPLICATIONS
Period Obligations
 02/22/1993-11/30/1995 FY95: \$75,000 TOTAL: \$225,000
Prin. Invest. NASA Tech. Officer CASE Category
 E GARCIA LARC/G C HORNER 49-Engr, NEC

NGT 00-050-876 University of Tennessee - Knoxville 7700
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/29/1992-07/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 T D MCCAY MSFC/F SIX 41-Aero Engr

NAG 2-834 Vanderbilt University 7708
 INDUCTIVE APPROACHES TO IMPROVING DIAGNOSIS AND DESIGN FOR DIAGNOSABILITY
Period Obligations
 04/29/1993-06/30/1995 FY95: \$42,050 TOTAL: \$145,612
Prin. Invest. NASA Tech. Officer CASE Category
 D H FISHER ARC/S LAU 22-Computer Science
 ARC/P LAIRD

NGT 00-050-969 University of Tennessee - Knoxville 7701
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W E BLASS GSFC/G SOFFEN 13-Physics

NAG 3-1352 Vanderbilt University 7709
 MECHANICAL SYSTEM RELIABILITY FOR LONG LIFE SPACE SYSTEMS
Period Obligations
 05/21/1992-08/31/1994 FY95: TOTAL: \$53,581
Prin. Invest. NASA Tech. Officer CASE Category
 T A CRUSE LERC/C C CHAMIS 41-Aero Engr

NGT 00-051-048 University of Tennessee - Knoxville 7702
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/14/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J SCHULZ LERC/F MONTEGANI 41-Aero Engr

NAG 8-151 Vanderbilt University 7710
 JOVVE PILOT RESEARCH STUDY
Period Obligations
 03/19/1990-05/01/1995 FY95: TOTAL: \$100,550
Prin. Invest. NASA Tech. Officer CASE Category
 A M STRAUSS MSFC/C R CHAPPELL 11-Astronomy
 MSFC/N F SIX

NGT 00-051-052 University of Tennessee - Knoxville 7703
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/25/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 L A TAYLOR JSC/S GOLDSTEIN 32-Geological Sci

NAG 8-832 Vanderbilt University 7711
 CONTAINERLESS PROCESSING OF OXIDE SUPERCONDUCTORS
Period Obligations
 06/05/1990-08/31/1994 FY95: TOTAL: \$450,000
Prin. Invest. NASA Tech. Officer CASE Category
 H HOFMEISTER MSFC/M VLASSE 13-Physics
 R J BAYUZICK

NAG 2-494 University of Tennessee - Memphis 7704
 REGULATION OF ERYTHROPOIESIS IN RATS DURING SPACE FLIGHT
Period Obligations
 01/01/1988-09/30/1995 FY95: TOTAL: \$1,442,421
Prin. Invest. NASA Tech. Officer CASE Category
 A T ICHIKI ARC/W E HINDS 51-Biological Sci
 Z ALLEBBAN ARC/G A JAHNS
 L GIBSON

NAG 8-978 Vanderbilt University 7712
 EFFECTS ON NUCLEATION BY CONTAMERLESS PROCESSING
Period Obligations
 07/09/1993-11/30/1995 FY95: \$160,722 TOTAL: \$740,722
Prin. Invest. NASA Tech. Officer CASE Category
 R J BAYUZICK MSFC/R C DARTY 12-Chemistry
 W H HOFMEISTER

NCC 2-5144 University of Tennessee - Memphis 7705
 A COM
Period Obligations
 06/30/1995-02/15/1996 FY95: \$39,741 TOTAL: \$39,741
Prin. Invest. NASA Tech. Officer CASE Category
 J STENNHOF ARCF CARADONNA 41-Aero Engr

NAG 8-1087 Vanderbilt University 7713
 STUDIES OF NUCLEATION AND GROWTH OF INTERMETALLIC COMPOUNDS
Period Obligations
 09/15/1994-09/14/1996 FY95: \$120,000 TOTAL: \$240,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J BAYUZICK MSFC/M B ROBINSON 47-Materials Engr
 MSFC/B SCHRICK

NAG 1-1464 Vanderbilt University 7706
 SOLAR RADIATION EFFECTS ON GLASSES
Period Obligations
 01/29/1993-09/30/1994 FY95: TOTAL: \$74,407
Prin. Invest. NASA Tech. Officer CASE Category
 D L KINSER LARC/J L JONES 47-Materials Engr
 LARC/W H KINARD

NAG 8-1104 Vanderbilt University 7714
 MICROGRAVITY PROCESSING OF OXIDE SUPERCONDUCTORS
Period Obligations
 10/31/1994-10/31/1996 FY95: \$280,000 TOTAL: \$280,000
Prin. Invest. NASA Tech. Officer CASE Category
 H HOFMEISTER MSFC/M VLASSE 13-Physics

**NASA'S UNIVERSITY PROGRAM
TENNESSEE (Continued)**

NAG 8-1128 Vanderbilt University 7715
ORISINS OF ENERGETIC IONS AND ELECTRONS FROM SATELLITES
IN NEW EARTH ORBIT
Period Obligations
03/10/1995-07/09/1995 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
R G ALBRIDGE GSFC/J A VAUGHN 13-Physics
A V BARNES GSFC/M R CARRUTH JR.
J T MCKINLEY

NAG 9-563 Vanderbilt University 7716
THE ANEMIA OF MICROGRAVITY AND RECUMBENCY: ROLE OF
SYMPATHETIC NEURAL CNTRL OF ERYTHROPOIETIN PRODUCT
Period Obligations
10/01/1991-10/01/1995 FY95: TOTAL: \$232,600
Prin. Invest. NASA Tech. Officer CASE Category
D ROBERTSON JSC/P A WHITSON 56-Medical Sciences

NAGW 1707 Vanderbilt University 7717
ENCAPSULATED LIVING CELLS AS A CURE OF HORMONE
DEFICIENCY
Period Obligations
06/21/1989-01/31/1996 FY95: \$325,000 TOTAL: \$2,055,784
Prin. Invest. NASA Tech. Officer CASE Category
T G WANG HQ/R H OTT 56-Medical Sciences
HQ/H J CLARKS

NAGW 2030 Vanderbilt University 7718
HUMAN PERFORMANCE ENHANCEMENT AND EVALUATION IN SP
ACE AND LUNAR ENVIRONMENTS
Period Obligations
04/10/1990-09/30/1994 FY95: TOTAL: \$295,422
Prin. Invest. NASA Tech. Officer CASE Category
A M STRAUSS HQ/G I JOHNSTON 45-Elec Engr

NAGW 2473 Vanderbilt University 7719
GROUND-BASED STUDIES OF THE DYNAMICS OF CHARGED
Period Obligations
06/17/1991-12/31/1994 FY95: TOTAL: \$750,000
Prin. Invest. NASA Tech. Officer CASE Category
T G WANG HQ/B M CARPENTER 13-Physics

NAGW 2844 Vanderbilt University 7720
NAGW-2844/VANDERBILT UNIV/EVALUATION OF MICROSTRUC
TURAL DEVELOPMENT IN BULK, UNDERCOOLED ALLOYS
Period Obligations
01/31/1992-11/30/1994 FY95: TOTAL: \$315,000
Prin. Invest. NASA Tech. Officer CASE Category
R N GRUGEL HQ/B M CARPENTER 13-Physics

NAGW 3385 Vanderbilt University 7721
RELATIVE ABUNDANCE OF ICES IN THE DISKS OF T TAURI STARS:
IMPLICATIONS FOR COMET FORMATION
Period Obligations
02/16/1993-02/28/1996 FY95: \$15,000 TOTAL: \$45,000
Prin. Invest. NASA Tech. Officer CASE Category
D A WEINTRAUB HQ/J A NUTH 19-Phys Sci, NEC

NAGW 3764 Vanderbilt University 7722
INTERCOMPARTMENTAL FLUID SHIFTS IN RESPONSE TO POS
TURAL AND GRAVITATIONAL FORCES
Period Obligations
10/06/1993-09/30/1995 FY95: \$80,000 TOTAL: \$160,000
Prin. Invest. NASA Tech. Officer CASE Category
F A GAFFNEY HQ/F M SULZMAN 13-Physics

NAGW 3854 Vanderbilt University 7723
VANDERBILT UNIV SCH MEDICINE - ADRENORECEPTOR
HYPERSENSITIVITY IN MODELS OF WEIGHTLESSNESS
Period Obligations
02/04/1994-12/31/1995 FY95: \$120,000 TOTAL: \$239,905
Prin. Invest. NASA Tech. Officer CASE Category
I BIAGGIONI HQ/F M SULZMAN 56-Medical Sciences

NAGW 3873 Vanderbilt University 7724
NAGW-3873/B VANDERBILT UNIV. 'THE SYMPATHETIC NERV OUS
SYSTEM IN THE ANEMIA OF WEIGHTLESSNESS'
Period Obligations
02/25/1994-02/28/1996 FY95: \$135,000 TOTAL: \$269,855
Prin. Invest. NASA Tech. Officer CASE Category
D ROBERTSON HQ/F M SULZMAN 56-Medical Sciences

NAGW 4252 Vanderbilt University 7725
DYNAMICS AND CONTROL OF ORBITING SPACE STRUCTURE
Period Obligations
01/13/1995-10/16/1995 FY95: \$26,340 TOTAL: \$26,340
Prin. Invest. NASA Tech. Officer CASE Category
T A CRUSE HQ/A S MCGEE 49-Engr, NEC

NAGW 4723 Vanderbilt University 7726
DEVELOPMENT OF A TELEMICROROBOT FOR TELEMANIPULATI ON
OF A MICROSCOPIC ENVIRONMENT
Period Obligations
08/31/1995-07/31/1998 FY95: \$81,000 TOTAL: \$81,000
Prin. Invest. NASA Tech. Officer CASE Category
M GOLDFARB HQ/M A SHEPANEK 54-Env Biology

NAS 9-19196 Vanderbilt University 7727
AUTONOMIC NEUROPHYSIOLOGY IN MICROGRAVITY
Period Obligations
09/29/1994-10/31/1995 FY95: TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
D ROBERTSON JSC/S SAWYER 56-Medical Sciences

NCC 2-696 Vanderbilt University 7728
MECHANISMS OF CHANGES IN THE CONTROL OF BLOOD PRE
SSURE DURING BED REST
Period Obligations
10/25/1990-09/30/1993 FY95: TOTAL: \$377,348
Prin. Invest. NASA Tech. Officer CASE Category
D M ROBERTSON ARC/J VERNIKOS 56-Medical Sciences

NCC 3-187 Vanderbilt University 7729
MECHANICAL TESTING PROGRAM FOR THERMAL BARRIER COA
TING DEVELOPMENT SUPPORT
Period Obligations
11/09/1990-01/31/1996 FY95: \$74,999 TOTAL: \$417,518
Prin. Invest. NASA Tech. Officer CASE Category
T A CRUSE LERC/R A MILLER 46-Mech Engr
T S KELLER LERC/W J BRINDLEY

NGT 00-010-024 Vanderbilt University 7730
NGT 10024/B VANDERBILT UNIV 'MDAFP', 10/1/93 STAR T
Period Obligations
05/04/1994-08/31/1994 FY95: TOTAL: \$49,548
Prin. Invest. NASA Tech. Officer CASE Category
T A CRUSE HQ/G S SEIDEL 41-Aero Engr
A M MELLOR HQ/J R FACEY

**NASA'S UNIVERSITY PROGRAM
TENNESSEE (Continued)**

NGT 00-040-021 Vanderbilt University 7731
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
 ACTIVITIES OF TENNESSEE VALLEY AEROSPACE CORP.
Period Obligations
 03/13/1990-01/31/1998 FY95: \$466,074 TOTAL: \$2,201,276
Prin. Invest. NASA Tech. Officer CASE Category
 H M STRAUSS HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-050-883 Vanderbilt University 7732
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/06/1992-06/30/1996 FY95: \$22,000 TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 E GARCIA MSFC/F SIX 46-Mech Engr

NGT 00-050-946 Vanderbilt University 7733
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/22/1992-06/30/1996 FY95: \$22,000 TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 R PITZ LERC/F MONTEGANI 46-Mech Engr

NGT 00-051-044 Vanderbilt University 7734
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 E GARCIA MSFC/F SIX 46-Mech Engr

NGT 00-051-053 Vanderbilt University 7735
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/06/1993-08/31/1996 FY95: \$21,212 TOTAL: \$63,636
Prin. Invest. NASA Tech. Officer CASE Category
 T A CRUSE LERC/F MONTEGANI 46-Mech Engr

NGT 00-051-267 Vanderbilt University 7736
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J BAYUZICK HQ/G LESANE 47-Materials Engr

NGT 00-051-356 Vanderbilt University 7737
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J BAYUZICK HQ/G A LESANE 47-Materials Engr

NGT 1-52106 Vanderbilt University 7738
 GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
Period Obligations
 06/26/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 T M BROWN, III LARC/G L PELLETT 43-Chem Engr
 R W PITZ LARC/R W GUY

NGT 8-52809 Vanderbilt University 7739
 RESEARCH PROGRAM
Period Obligations
 08/23/1995-07/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 D GARCIA MSFC/H WAITES 46-Mech Engr
 JPL/B BADA

TEXAS

NAG 9-708 Baylor University 7752
 PHYSIOLOGICAL MONITORING WITH MAGNETIC RESONANCE I
 MAGING
Period Obligations
 08/16/1993-02/01/1996 FY95: TOTAL: \$417,798
Prin. Invest. NASA Tech. Officer CASE Category
 A LEBLANC JSC/L TAGGART 56-Medical Sciences

NAG 2-500 Baylor College of Medicine 7740
 REGULATION OF BLOOD VOLUME DURING SPACEFLIGHT
Period Obligations
 03/01/1988-04/30/1995 FY95: TOTAL: \$922,651
Prin. Invest. NASA Tech. Officer CASE Category
 C P ALFREY ARC/A D MANDEL 51-Biological Sci
 R G NACHTMAN ARC/H A LEON

NAG 9-754 Baylor College of Medicine 7741
 MAGNETIC RESONANCE IMAGING AFTER EXPOSURE TO MICRO
 GRAVITY
Period Obligations
 09/30/1994-10/01/1995 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 A LEBLANC JSC/D FEEDBACK 51-Biological Sci

NAGW 2862 Baylor College of Medicine 7742
 DEVELOPING SUSPENSION CULTURES TO STUDY CELL POLAR I
 TY
Period Obligations
 01/31/1992-02/28/1994 FY95: TOTAL: \$236,776
Prin. Invest. NASA Tech. Officer CASE Category
 J I MULHOLLAND HQ/J K ALEXANDER 51-Biological Sci
 HQ/D A HOLLAND

NAGW 4437 Baylor College of Medicine 7743
 PHYSIOLOGICAL MONITORING WITH MAGNETIC RESONANCE I
 MAGING
Period Obligations
 05/04/1995-03/31/1996 FY95: \$396,519 TOTAL: \$396,519
Prin. Invest. NASA Tech. Officer CASE Category
 A LEBLANC HQ/V THORNE 56-Medical Sciences

NAS 9-14662 Baylor College of Medicine 7744
 STDY-EXTER PARAM SPACE FLGHT-BLOOD VOLUM
Period Obligations
 06/01/1975-05/31/1995 FY95: \$3,959 TOTAL: \$1,025,000
Prin. Invest. NASA Tech. Officer CASE Category
 C ALFREY JSC/H LANE 56-Medical Sciences

NAS 9-18024 Baylor College of Medicine 7745
 FLIGHT EXPERIMENT/ERYTHROKINETICS
Period Obligations
 12/01/1988-03/01/1995 FY95: \$19,780 TOTAL: \$774,730
Prin. Invest. NASA Tech. Officer CASE Category
 C P ALFREY JSC/F BOOKER 56-Medical Sciences

NAS 9-18065 Baylor College of Medicine 7746
 ANALYSIS ELECTTROPHORESIS SAMPLES
Period Obligations
 03/21/1989-11/01/1995 FY95: TOTAL: \$231,900
Prin. Invest. NASA Tech. Officer CASE Category
 M Z ATASSI JSC/D MORRISON 56-Medical Sciences
 R A WELCH

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAS 9-18076	Baylor College of Medicine	7747	NAGW 4523	Jarvis Christian College	7756
MAGNETIC RESONANCE IMAGING AFTER EXPOSURE TO MICROGRAVITY			PACE/MSET PROGRAM		
<i>Period</i>			<i>Obligations</i>		
06/01/1989-01/01/1994	FY95:	TOTAL: \$105,000	05/18/1995-08/30/1998	FY95: \$100,000	TOTAL: \$100,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A LEBLANC	JSC/B LEVITAN	56-Medical Sciences	J JOHNSON	HQ/B L WHITE	99-Multi-Discip
NAS 9-18952	Baylor College of Medicine	7748	NAG 9-620	Lamar University	7757
MAGNETIC RESONANCE IMAGING AFTER EXPOSURE TO MICRO GRAVITY			ADVANCED CLOSED LIFE SUPPORT SYSTEM TECH		
<i>Period</i>			<i>Obligations</i>		
07/28/1993-03/31/1997	FY95: \$135,000	TOTAL: \$200,000	06/15/1992-08/01/1994	FY95:	TOTAL: \$150,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A D LEBLANC	JSC/A L PLAZA	56-Medical Sciences	W E SIMON	JSC/M HOY	46-Mech Engr
NAS 9-19404	Baylor College of Medicine	7749	NAG 9-639	Lamar University	7758
MAGNETIC RESONANCE IMAGING AFTER EXPOSURE TO MICRO GRAVITY			DEVELOPMENT OF A HAND HELD ASTRONAUT		
<i>Period</i>			<i>Obligations</i>		
09/25/1995-09/30/1998	FY95: \$10,000	TOTAL: \$10,000	09/09/1992-03/01/1995	FY95:	TOTAL: \$40,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A LEBLANC	JSC/C M BUNTIN	56-Medical Sciences	V D NGUYEN	JSC/L MONFORD	46-Mech Engr
NCC 9-23	Baylor College of Medicine	7750	NAG 9-640	Lamar University	7759
DEVELOPMENT AND EVALUATION OF A MINIATURE AXIAL FLOW PUMP			REGENERATIVE LIFE SUPPORT SYSTEMS TECH DEVELOPMENT		
<i>Period</i>			<i>Obligations</i>		
02/03/1993-12/31/1996	FY95: \$417,640	TOTAL: \$1,057,640	09/09/1992-11/01/1994	FY95:	TOTAL: \$35,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M E DEBAKEY	JSC/J B HENDERSON	56-Medical Sciences	W E SIMON	JSC/M HOY	46-Mech Engr
G P NOON					
NCC 9-29	Baylor College of Medicine	7751	NAG 9-695	Lamar University	7760
SHUTTLE/MIR SCIENCE PROGRAM SUPPORT:RED BLOOD CELL MASS AND SURVIVAL			LOCOMOTION TRAINING OF LEGGED ROBOTS USING HYBRID MACHINE LEARNING TECHNIQUES		
<i>Period</i>			<i>Obligations</i>		
12/19/1994-01/01/1997	FY95: \$210,000	TOTAL: \$210,000	06/29/1993-09/01/1995	FY95:	TOTAL: \$100,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H LANE	JSC/D FEEBACK	56-Medical Sciences	V D NGUYEN	JSC/N H CHAFFEE	29-Math/Computer,NEC
C ALFREY					
NCC 9-28	Houston Community College	7753	NAG 9-696	Lamar University	7761
MANUFACTURING EDUCATION USING COMPUTER-AIDED TRAINING			ANAEROBIC WASTE WATER TREATMENT PROCESS		
<i>Period</i>			<i>Obligations</i>		
07/06/1994-01/16/1996	FY95:	TOTAL: \$210,000	07/09/1993-05/01/1995	FY95:	TOTAL: \$40,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G MORENO	JSC/R BURKE	22-Computer Science	K LI	JSC/D M HOY	54-Env Biology
NAG 9-775	Huston-Tillotson College	7754	NAG 9-697	Lamar University	7762
DIVERSITY IN SCIENCE/ENGINEERING AND TECHNOLOGY WORKFORCE			TECHNOLOGY FOR DEVELOPMENT OF CONTROLLED ECOLOGICAL LIFE SUPPORT SYSTEM		
<i>Period</i>			<i>Obligations</i>		
03/17/1995-12/31/1995	FY95: \$55,000	TOTAL: \$55,000	07/08/1993-09/01/1995	FY95:	TOTAL: \$60,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
N KAY	JSC/C HOSKINS	99-Multi-Discip	K LI	JSC/D M HOY	54-Env Biology
NAG10-153	Huston-Tillotson College	7755	NAG 9-698	Lamar University	7763
EFFECTS OF CHEMICAL AGING OF POLYMERS			EFFECTS OF FABRICATION PARAMETERS ON DAMAGE TOLERANCE IN FILAMENT WOUND GRAPHITE/PRESSURE VESSELS		
<i>Period</i>			<i>Obligations</i>		
04/10/1995-04/16/1996	FY95: \$136,965	TOTAL: \$136,965	07/15/1993-07/01/1995	FY95:	TOTAL: \$60,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L J BAYE	KSC/P D FAUGHNAN	43-Chem Engr	V NGUYEN	JSC/G ECORD	47-Materials Engr
NAG 9-699	Lamar University	7764	NAG 9-699	Lamar University	7764
VOLATILES RELEASED FROM LUNAR BRECCIAS			VOLATILES RELEASED FROM LUNAR BRECCIAS		
<i>Period</i>			<i>Obligations</i>		
07/15/1993-04/01/1995	FY95:	TOTAL: \$80,000	07/15/1993-04/01/1995	FY95:	TOTAL: \$80,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>	<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J JORDAN	JSC/T A SULLIVAN	19-Phys Sci, NEC	J JORDAN	JSC/T A SULLIVAN	19-Phys Sci, NEC

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 9-772 Lamar University 7765
 COMPREHENSIVE SPACE SCIENCE AND TECHNOLOGY EDUCATION
 PROGRAM TO MOTIVATE K-12 STUDENTS
Period Obligations
 01/25/1995-12/04/1995 FY95: \$90,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
 M ZOLESKY JSC/N G ROBERTSON 21-Mathematics

NAG 9-659 Prairie View A&M University 7773
 LABORATORY FOR RADIATION STUDIES
Period Obligations
 01/15/1993-04/12/1996 FY95: \$999,478 TOTAL: \$2,687,693
Prin. Invest. NASA Tech. Officer CASE Category
 T N FOGARTY JSC/M DIOQU 49-Engr, NEC

NAG 9-839 Lamar University 7766
 HEAT TRANSFER ANALYSIS
Period Obligations
 08/17/1995-12/01/1996 FY95: \$57,414 TOTAL: \$57,414
Prin. Invest. NASA Tech. Officer CASE Category
 W E SIMON JSC/M EWERT 49-Engr, NEC

NAG 9-667 Prairie View A&M University 7774
 LUNAR OUTPOST CONSTRUCTION/RADIATION PROTECTION USING
 CO-PRODUCT OF A LUNAR OXYGEN PLANT
Period Obligations
 03/03/1993-08/31/1994 FY95: TOTAL: \$19,786
Prin. Invest. NASA Tech. Officer CASE Category
 R RADHA JSC/K E HENDERSON 44-Civil Engr
 JSC/D S MCKAY

NAG 9-19161 Lamar University 7767
 LIGHT WEIGHT QUADRUPLER TRAP ANALYZER
Period Obligations
 11/29/1994-11/29/1995 FY95: \$118,000 TOTAL: \$118,000
Prin. Invest. NASA Tech. Officer CASE Category
 J L JORDAN JSC/D S MCKAY 12-Chemistry

NAG 9-763 Prairie View A&M University 7775
 SPHERICAL MICROSTRIP ARRAYS AS WIDE ANGLE SENSORS
Period Obligations
 09/27/1994-11/30/1994 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 J FOSTER JSC/G D ARNDT 45-Elec Engr

NAG 3-1500 Prairie View A&M University 7768
 COMP ANALY OF VISCOUS FLOW THRU NOZZLE BY USING BOTH
 THE K-E TURB MODEL AND THE PD THOMAS TURB MODEL
Period Obligations
 06/14/1993-11/26/1995 FY95: \$60,000 TOTAL: \$140,000
Prin. Invest. NASA Tech. Officer CASE Category
 I CHANG LERC/E T MELEASON 41-Aero Engr
 LERC/D W LAM

NAG 9-777 Prairie View A&M University 7776
 FUZZY EXPERT SYSTEM FOR FAULT MNGT OF WATER SUPPLY
 AND RECOVERY IN ALSS PROJECT
Period Obligations
 05/15/1995-11/01/1995 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 J LI JSC/R E ECKEL KAMP 59-Life Sci, NEC

NAG 5-2317 Prairie View A&M University 7769
 THE PLASMA CONFIGURATION OF NEPTUNE'S MAGNETOSPHERE
Period Obligations
 07/28/1993-08/14/1996 FY95: \$198,000 TOTAL: \$308,000
Prin. Invest. NASA Tech. Officer CASE Category
 T S HUANG GSFC/R E HARTLE 19-Phys Sci, NEC

NAG 9-778 Prairie View A&M University 7777
 LUNAR OUTPOST CONSTRUCTION AND RADIATION PROTECTION
Period Obligations
 04/04/1995-05/31/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 R RADHARKRISHMAN JSC/J CONNOLLY 54-Env Biology

NAG 9-318 Prairie View A&M University 7770
 MICROWAVE IMAGING/ROBOT VISION
Period Obligations
 09/01/1988-01/01/1994 FY95: TOTAL: \$289,349
Prin. Invest. NASA Tech. Officer CASE Category
 C L TOLLIVER JSC/G D ARNDT 45-Elec Engr

NAG 9-779 Prairie View A&M University 7778
 MICROWAVE IMAGING OF METAL OBJECTS
Period Obligations
 04/06/1995-03/31/1996 FY95: \$90,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
 C L TOLLIVER JSC/K KRISTEN 99-Multi-Discip
 J LI

NAG 9-500 Prairie View A&M University 7771
 RESEARCH SUPPORT THEORY OF RELIABILITY AND RADIATION
 TOLERANCE OF VLSI
Period Obligations
 08/30/1991-02/28/1995 FY95: TOTAL: \$65,000
Prin. Invest. NASA Tech. Officer CASE Category
 A KUMAR JSC/E EMANUEL 19-Phys Sci, NEC

NCC 5-115 Prairie View A&M University 7779
 ESTABLISHMENT OF A NASA SOUTHWEST REGIONAL NETWORK
 RESOURCES TRAINING SITE
Period Obligations
 08/15/1995-08/14/1996 FY95: \$490,000 TOTAL: \$490,000
Prin. Invest. NASA Tech. Officer CASE Category
 J R WILLIAMS GSFC/J BENNETT 22-Computer Science

NAG 9-631 Prairie View A&M University 7772
 FLOW BOILING ENHANCEMENT FOR THERMAL MNGT SYSTEMS
Period Obligations
 09/01/1992-02/28/1996 FY95: \$100,000 TOTAL: \$411,300
Prin. Invest. NASA Tech. Officer CASE Category
 R D BOYD JSC/J P THORNBORROW 13-Physics

NCC 9-31 Prairie View A&M University 7780
 COUPLING OF EARTH'S MAGNETOSPHERE AND IONOSPHERE IN A
 REALISTIC MAGNETIC FIELD
Period Obligations
 09/09/1994-09/01/1997 FY95: TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
 T SEN HUANG JSC/M DIGU 13-Physics

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NCC 9-40 **Prairie View A&M University** **7781**
RESEARCH ON KA BAND
Period *Obligations*
07/28/1995-05/31/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D FOSTER JSC/D D ARNDT 31-Atmos Sci
D
BONDYOPADHYAY(BO
ND

NCCW 86 **Prairie View A&M University** **7782**
CENTER FOR APPLIED RADIATION RESEARCH (CARR)
Period *Obligations*
08/04/1995-06/30/2000 FY95: \$1,490,775 TOTAL: \$1,490,775
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T N FOGARTY HQ/B L WHITE 19-Phys Sci, NEC

NAG 1-1433 **Rice University** **7783**
USE OF ARTIFICIAL NEURAL NETWORKS IN A REAL-TIME
EXPERIMENTAL AERODYNAMIC DATA ANALYSIS SYSTEM
Period *Obligations*
05/05/1992-05/04/1994 FY95: TOTAL: \$29,870
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A J MEADE LARC/M B TRACY 41-Aero Engr

NAG 2-566 **Rice University** **7784**
DATA REDUCTION AND ANALYSIS OF PIONEER-VENUS ORBIT AL
ION MASS SPECTROMETER
Period *Obligations*
02/27/1989-03/31/1996 FY95: TOTAL: \$1,170,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P A CLOUTIER ARC/L E LASHER 11-Astronomy
ARC/R O FIMMEL

NAG 5-262 **Rice University** **7785**
HIGH DISPERSION ULTRAVIOLET SPECTRA-ABUNDANCES OF
CARBON SILICON AND MAGNESIUM IN SELECTED GOLOCTU REGI
Period *Obligations*
08/01/1982-09/30/1994 FY95: TOTAL: \$348,264
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J DUFOUR GSFC/D WEST 11-Astronomy
M MITRA
N R WALBORN

NAG 5-1195 **Rice University** **7786**
STUDY OF THE SOLAR WIND INTERACTIVE WITH MARS
Period *Obligations*
08/01/1989-10/31/1994 FY95: TOTAL: \$73,711
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P A CLOUTIER GSFC/M H ACUNA 13-Physics

NAG 5-1489 **Rice University** **7787**
THREE DIMENSIONAL STRUCTURE OF THE EARTH'S ELECTRO
MAGNETIC FIELD
Period *Obligations*
12/10/1990-07/14/1994 FY95: TOTAL: \$625,876
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T W HILL GSFC/T J BIRMINGHAM 13-Physics

NAG 5-1515 **Rice University** **7788**
MODELING BATSE GAMMA RAY BURST CONTINUUM SPECTRA
Period *Obligations*
04/02/1991-01/14/1996 FY95: \$82,995 TOTAL: \$247,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E P LIANG GSFC/J P NORRIS 11-Astronomy
GSFC/D A KNIFFEN

NAG 5-1547 **Rice University** **7789**
GAMMA RAYS FROM BLACK HOLES: COMPARISON OF GRO OBS
ERVATIONS WITH THEORY
Period *Obligations*
04/15/1991-11/14/1995 FY95: \$40,000 TOTAL: \$184,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E P LIANG GSFC/J P NORRIS 11-Astronomy
GSFC/D A KNIFFEN

NAG 5-1626 **Rice University** **7790**
HUBBLE SPACE TELESCOPE RESEARCH
Period *Obligations*
06/07/1991-10/31/1995 FY95: \$276,900 TOTAL: \$1,201,927
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C R O'DELL GSFC/S SOBIESKI 11-Astronomy

NAG 5-2045 **Rice University** **7791**
SEARCH FOR PERIODICITIES AND LIGHT ECHOES IN BATSE
GAMMA-RAY BURST DATA
Period *Obligations*
07/17/1992-01/14/1994 FY95: TOTAL: \$21,463
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E P LIANG GSFC/J P NORRIS 11-Astronomy
GSFC/N WHITE

NAG 5-2215 **Rice University** **7792**
PEACE INVESTIGATION FOR CLUSTER MISSION
Period *Obligations*
02/17/1993-02/29/1996 FY95: \$115,025 TOTAL: \$165,015
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P H REIFF GSFC/M L GOLDSTEIN 13-Physics

NAG 5-2515 **Rice University** **7793**
INITIAL OSSE SKY SURVEY OBSERVATIONS: DEEP SURVEY IN VIRGO
SURVEY
Period *Obligations*
02/16/1994-02/29/1996 FY95: TOTAL: \$43,677
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R C HAYMES GSFC/J P NORRIS 11-Astronomy
J D KURFESS GSFC/N WHITE

NAG 5-2677 **Rice University** **7794**
A COMPREHENSIVE NEW STUDY OF CARBON AND SILICON
ABUNDANCES IN THE ISM OF GALAXIES
Period *Obligations*
08/11/1994-08/14/1996 FY95: TOTAL: \$37,422
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J DUFOUR GSFC/D WEST 11-Astronomy

NAG 5-2689 **Rice University** **7795**
CREATING THE PUBLIC CONNECTION: INTERACTIVE EXPERIENCES
WITH REAL-TIME EARTH AND SPACE SCIENCE
Period *Obligations*
08/24/1994-10/31/1995 FY95: \$287,163 TOTAL: \$437,163
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P REIF GSFC/N LAL 11-Astronomy

NAG 5-2690 **Rice University** **7796**
X-RAYS FROM GALACTIC BLACK HOLE CANDIDATES
Period *Obligations*
08/24/1994-02/29/1996 FY95: TOTAL: \$13,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E LANG GSFC/N WHITE 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 5-2736 **Rice University** **7797**
 NATIONAL SOFTWARE EXCHANGE FOR THE HIGH PERFORMANC
 COMPUTING COMMUNICATIONS PROGRAM
Period *Obligations*
 09/22/1994-03/31/1996 FY95: \$945,100 TOTAL: \$1,455,100
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K KENNEDY GSFC/J R FISCHER 22-Computer Science

NAG 5-2772 **Rice University** **7798**
 STUDY OF GAMMA-RAY BURSTS FROM EARTH
Period *Obligations*
 10/26/1994-10/31/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F C MICHEAL GSFC/J NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-3045 **Rice University** **7799**
 PLATE MOTION REGIONAL DEFORMATION AND TIME VARIATION
 OF PLATE MOTION FROM STUDIES INTEGRATING
Period *Obligations*
 08/21/1995-03/31/1996 FY95: \$83,026 TOTAL: \$83,026
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R GORDON GSFC/B BILLS 19-Phys Sci, NEC

NAG 5-3070 **Rice University** **7800**
 NUMERICAL SIMULATION OF ACTIVE PULSARS
Period *Obligations*
 09/14/1995-09/14/1996 FY95: \$70,000 TOTAL: \$70,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F C MICHEL GSFC/D WEST 11-Astronomy

NAG 9-461 **Rice University** **7801**
 TELEROBOTICS LABORATORY NETWORK DEVELOPMENT
Period *Obligations*
 08/29/1990-06/01/1995 FY95: TOTAL: \$761,330
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D H JOHNSON JSC/L QUIOCHO 46-Mech Engr

NAG 9-628 **Rice University** **7802**
 FULLERENE REINFORCED ALUMINUM ALLOYS AND STAINLESS S
 TEEL FOR EMU PLSS
Period *Obligations*
 07/17/1992-09/01/1995 FY95: TOTAL: \$82,153
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E V BARRERA JSC/C H LIN 46-Mech Engr
 D CALLAHAN

NAG 9-681 **Rice University** **7803**
 ANALYSIS OF WAVELET TECHNOLOGY FOR NASA APPLICA- TIONS
Period *Obligations*
 04/08/1993-03/31/1994 FY95: TOTAL: \$65,182
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R O WELLS JSC/K KIRSHEN 21-Mathematics

NAG 9-719 **Rice University** **7804**
 DEVELOPMENT PROGRAMMABLE ARTIFICIAL NEURAL NETWORK
Period *Obligations*
 10/01/1993-08/31/1995 FY95: TOTAL: \$16,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A MEADE JR. JSC/S GOLDSTEIN 49-Engr, NEC

NAG 9-740 **Rice University** **7805**
 MYOELECTRIC TELEOPERATION FOR ROBOTICS AND PROSTHETI
 CS
Period *Obligations*
 05/31/1994-05/31/1996 FY95: TOTAL: \$59,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 I D WALKER JSC/C HESS 45-Elec Engr

NAG 9-747 **Rice University** **7806**
 TRANSIENT FREEZING IN 2 PHASE AMMONIA FLOW FOR SPA CE
 STATION
Period *Obligations*
 06/09/1994-10/01/1995 FY95: TOTAL: \$27,517
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B RAMASWAMY JSC/C H LIN 46-Mech Engr

NAG 9-748 **Rice University** **7807**
 WAVELET DIGITAL SIGNAL PROCESSING IMAGE COMPRESSI ON
Period *Obligations*
 06/13/1994-06/30/1996 FY95: TOTAL: \$58,704
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R O WELLS JSC/K KRISHEN 21-Mathematics

NAG 9-771 **Rice University** **7808**
 PARADIGM FOR PROJECT RISK ASSESSMENT AND CONTROL
Period *Obligations*
 01/20/1995-10/31/1995 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J R JSC/R P HEYDORN 21-Mathematics

NAG 9-838 **Rice University** **7809**
 COMPACT LASER MULTI GAS SPECTRAL
Period *Obligations*
 08/25/1995-08/31/1996 FY95: \$54,096 TOTAL: \$54,096
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F K TITTEL JSC/J GRAF 13-Physics

NAG 9-845 **Rice University** **7810**
 MYOELECTRIC TELEOPERATION
Period *Obligations*
 08/24/1995-09/01/1996 FY95: \$57,600 TOTAL: \$57,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 I D WALKER JSC/C HESS 59-Life Sci, NEC

NAGW 1655 **Rice University** **7811**
 MAGNETOSPHERIC AND AURORAL PROCESSES
Period *Obligations*
 02/24/1989-02/28/1997 FY95: \$79,000 TOTAL: \$743,300
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P H REIFF HQ/M M MELLOTT 13-Physics
 HQ/T W PERRY

NAGW 2824 **Rice University** **7812**
 NUMERICAL CODES FOR TWO AND THREE DIMENSIONAL MAGN
 ETOSPHERIC MHD EQUILIBRIUM MODELS
Period *Obligations*
 01/06/1992-03/31/1996 FY95: TOTAL: \$136,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R A WOLFE HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAGW 2826 **Rice University** **7813**
COUPLING OF THE LOW-LATITUDE BOUNDARY LAYER TO THE
MAGNETOSPHERIC INTERIOR
Period *Obligations*
01/15/1992-05/31/1996 FY95: \$44,045 TOTAL: \$124,045
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A WOLF HQ/E C WHIPPLE 13-Physics
HQ/J D BOHLIN

NAGW 2845 **Rice University** **7814**
NON CONTACT THERMAL, PHYSICAL PROPERTY MEASUREMENT S
OF MULTI COMPONENTS, MULTIPHASE SYSTEMS AT RICE
Period *Obligations*
01/24/1992-11/30/1995 FY95: \$79,000 TOTAL: \$394,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R H HAUGE HQ/B M CARPENTER 13-Physics
J L MARBRAVE

NAGW 2893 **Rice University** **7815**
THE GLOBAL CONFIGURATION OF NEPTUNE'S MAGNETOSPHER E
Period *Obligations*
02/19/1992-03/31/1996 FY95: TOTAL: \$147,752
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H VOIGT HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 3139 **Rice University** **7816**
NAGW-3139/RICE UNIV/CALMODULIN-RELATED PROTEINS IN
MECHANOSTIMULATED PLANTS
Period *Obligations*
07/24/1992-06/30/1995 FY95: TOTAL: \$160,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J BRAAM HQ/T W HALSTEAD 51-Biological Sci

NAGW 3504 **Rice University** **7817**
STUDY OF DYNAMICS AND MORPHOLOGY OF SONOSPHERIC ST
RUCTURES OF VENUS
Period *Obligations*
04/09/1993-03/31/1994 FY95: TOTAL: \$58,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P A CLOUTIER HQ/J T BERGSTRALH 31-Atmos Sci

NAGW 3811 **Rice University** **7818**
NAGW-3811/B RICE UNIV 'INVEST. OF PLASMA-NEUTRAL I NTER.
AT TRITON' , 8/16/93 START
Period *Obligations*
11/18/1993-08/15/1994 FY95: TOTAL: \$30,283
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P A CLOUTIER HQ/J T BERGSTRALH 19-Phys Sci, NEC

NAGW 4004 **Rice University** **7819**
MEASUREMENT OF ELECTRON IMPACT CROSS SECTIONS OF
IMPORTANCE
Period *Obligations*
05/09/1994-04/30/1997 FY95: \$79,643 TOTAL: \$155,105
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K SMITH HQ/M M MELLOTT 13-Physics
HQ/J D BOHLIN

NAGW 4035 **Rice University** **7820**
NUMERICAL SIMULATION OF POTATION-DRIVEN PLASMA
TRANSPORT IN THE JOVIAN MAGNETOSPHERE
Period *Obligations*
06/03/1994-03/31/1997 FY95: \$63,000 TOTAL: \$113,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A WOLF HQ/E C WHIPPLE 13-Physics
HQ/J D BOHLIN

NAGW 4173 **Rice University** **7821**
GEOCHEMISTRY AND COSMOCHMESITRY OF FULLERNESS
Period *Obligations*
10/18/1994-06/30/1996 FY95: \$14,976 TOTAL: \$14,976
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D HEYMANN HQ/J BOYCE 11-Astronomy

NAGW 4635 **Rice University** **7822**
A PROCESS LEVEL STUDY OF METHANE EMISSIONS FROM R
ICE FIELDS
Period *Obligations*
07/31/1995-03/31/1998 FY95: \$370,280 TOTAL: \$370,280
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R L SASS HQ/D E WICKLAND 39-Env Sci, NEC
F M FISHER HQ/A C JANETOS

NAGW 4685 **Rice University** **7823**
WORKSHOPS ON REGIONAL ASSESMENT OF TRACE
Period *Obligations*
08/16/1995-07/31/1997 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R L SASS HQ/D E WICKLAND 39-Env Sci, NEC
HQ/A C JANETOS

NCC 1-212 **Rice University** **7824**
THE ADIFOR AUTOMATIC DIFFERENTIATOR: FLEXIBLE, ACCURATE,
AND EFFICIENT ENABLING TECHNOLOGY FOR
Period *Obligations*
03/23/1995-11/23/1995 FY95: \$67,500 TOTAL: \$67,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A CARLE LARC/L L GREEN 99-Multi-Discip
J E DENNIS LARC/P A NEWMAN

NCC 2-5008 **Rice University** **7825**
SILICON AND CARBON ABUNDANCES IN THE ORION NEBULA AND
PLANETARY NEBULA
Period *Obligations*
10/21/1993-09/30/1995 FY95: \$10,780 TOTAL: \$50,780
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J DUFOUR ARC/A G TIELENS 11-Astronomy

NCCW 27 **Rice University** **7826**
MADIC/NASA INFRASTRUCTURE PROJECT
Period *Obligations*
04/09/1993-07/31/1995 FY95: \$250,000 TOTAL: \$1,750,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J E DENNIS HQ/P E HUNTER 41-Aero Engr
LARC/M D SALAS

NGT 00-030-074 **Rice University** **7827**
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
09/06/1991-12/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G A HADDAD HQ/D M BUTLER 33-Oceanography
A W DROXLER HQ/G S WILSON

NGT 00-050-746 **Rice University** **7828**
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
08/12/1991-08/14/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J BENNETT HQ/F C OWENS 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NGT 00-050-924 Rice University 7829
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/15/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 E P LIANG GSFC/G SOFFEN 13-Physics

NGT 00-051-019 Rice University 7830
 NGT-51019/GRADUATE STUDENT RESEARCHERS PROGRAM/RIC E UNIVERSITY
Period Obligations
 05/04/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 G H VOIGT GSFC/G SOFFEN 13-Physics

NGT 00-051-050 Rice University 7831
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/02/1993-03/31/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 B AAZHANG JSC/S GOLSDSTEIN 46-Mech Engr

NGT 00-051-079 Rice University 7832
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/11/1993-06/30/1996 FY95: \$22,000 TOTAL: \$63,724
Prin. Invest. NASA Tech. Officer CASE Category
 R C HAYMES HQ/D HOLLAND 13-Physics

NGT 00-051-186 Rice University 7833
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/29/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 P A CLOUTIER GSFC/M BURRELL 13-Physics

NGT 00-051-230 Rice University 7834
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/08/1994-05/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A J MEADE JR JSC/S GOLDSTEIN 46-Mech Engr

NGT 00-051-376 Rice University 7835
 GRADUATE STUDIES RESEARCHERS PROGRAM
Period Obligations
 06/26/1995-07/14/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 D HEYMANN HQ/D HOLLAND 32-Geological Sci

NGT 00-051-382 Rice University 7836
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/05/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 P H REITT HQ/D HOLLAND 13-Physics

NGT 00-070-251 Rice University 7837
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period Obligations
 04/28/1992-06/30/1996 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 I D WALKER JSC/S GOLDSTEIN 49-Engr, NEC

NGT 00-070-353 Rice University 7838
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period Obligations
 09/02/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A MEADE HQ/D K RUSSELL 46-Mech Engr

NGT 00-090-140 Rice University 7839
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 10/09/1992-08/14/1995 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 R STABELL HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-165 Rice University 7840
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 R STABELL HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-219 Rice University 7841
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
 09/23/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 R STABELL HQ/D K RUSSELL 99-Multi-Discip

NAG 9-749 Sam Houston State University 7842
 STATISTICAL MODELING AND SENSITIVITY ANALYSIS IN SUPPORT OF REGENERATIVE LIFE SUPPORT SYSTEMS
Period Obligations
 06/24/1994-08/31/1995 FY95: TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 C R HALLUM JSC/D L HENNINGER 21-Mathematics
 D M CARPENTER

NAGW 2915 Southern Methodist University 7843
 STRUCTURAL, KINEMATIC, AND STRAIN HISTORY ANALYSIS
Period Obligations
 02/27/1992-02/28/1996 FY95: \$47,004 TOTAL: \$187,874
Prin. Invest. NASA Tech. Officer CASE Category
 V L HANSEN HQ/J M BOYCE 32-Geological Sci

NAG 1-631 Southwest Texas State University 7844
 TRIFLUOROMETHYL - SUBSTITUTED POLYIMIDINES
Period Obligations
 01/14/1986-01/14/1996 FY95: \$44,571 TOTAL: \$431,571
Prin. Invest. NASA Tech. Officer CASE Category
 P E CASSIDY LARC/A K ST CLAIR 12-Chemistry
 LARC/D M STOKLEY

NGT 00-070-271 Southwest Texas State University 7845
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period Obligations
 06/29/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 P E CASSIDY LARC/E J PRIOR 12-Chemistry

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 9-682 Texas A&M University-Kingsville 7947
 MINORITY EDUCATION PROGRAM K-12 OUTREACH EFFORTS
Period Obligations
 04/02/1993-04/14/1996 FY95: \$79,260 TOTAL: \$219,676
Prin. Invest. NASA Tech. Officer CASE Category
 J L KIMBALL JSC/L M ARMENDARIZ 79-Soc Sci, NEC

NAG 3-1256 Texas A&M University System 7946
 HEAT TRANSFER AND BOUNDARY LAYER TRANSITION UNDER TU
 RBOMACHINERY FLOW CONDITIONS
Period Obligations
 03/12/1991-02/24/1994 FY95: TOTAL: \$112,949
Prin. Invest. NASA Tech. Officer CASE Category
 T M SCHOBEIRI LERC/B L COMPOLI 46-Mech Engr
 LERC/R J SIMONEAU

NAG 1-1003 Texas A&M University 7846
 NONEQUILIBRIUM RADIATION AND CHEMISTRY MODELS FOR
 AEROCAPTURE VEHICLE FLOWFIELDS
Period Obligations
 06/27/1989-12/31/1993 FY95: TOTAL: \$209,909
Prin. Invest. NASA Tech. Officer CASE Category
 L A CARLSON LARC/L C HARTUNG 41-Aero Engr

NAG 1-1066 Texas A&M University 7847
 KNOWLEDGE-BASED PROCESSING FOR AIRCRAFT FLIGHT
 CONTROL - FDP
Period Obligations
 10/23/1989-08/31/1994 FY95: TOTAL: \$96,784
Prin. Invest. NASA Tech. Officer CASE Category
 J H PAINTER LARC/R M HUESCHEN 49-Engr, NEC
 LARC/J M MCMANUS

NAG 1-1324 Texas A&M University 7848
 FAILURE ANALYSIS OF 2D AND 3D WOVEN COMPOSITES
 INCREMENTAL FUNDING THROUGH DECEMBER 31, 1991
Period Obligations
 08/30/1991-12/31/1994 FY95: TOTAL: \$161,599
Prin. Invest. NASA Tech. Officer CASE Category
 J D WHITCOMB LARC/J R REEDER 46-Mech Engr
 LARC/C C POE

NAG 1-1407 Texas A&M University 7849
 ANALYSIS OF STATIC CONTACT IN LAMINATED COMPOSITE PLATES
 USING DAMAGE MECHANICS
Period Obligations
 03/12/1992-09/30/1994 FY95: TOTAL: \$193,311
Prin. Invest. NASA Tech. Officer CASE Category
 D H ALLEN LARC/C E HARRIS 46-Mech Engr
 LARC/W C JACKSON

NAG 1-1522 Texas A&M University 7850
 A TWO ELEMENT LAMINAR FLOW AIRFOIL OPTIMIZED FOR
 CRUISE
Period Obligations
 06/18/1993-05/31/1995 FY95: TOTAL: \$19,989
Prin. Invest. NASA Tech. Officer CASE Category
 O W MICKS LARC/M F CARD 41-Aero Engr
 K D KORKAN LARC/R L YANG

NAG 1-1596 Texas A&M University 7851
 INVESTIGATION INTO DESIGN METHODOLOGIES FOR
 AIRFOILS/WINGS AT SEPARATED OR NEAR-SEPARATED
Period Obligations
 02/17/1994-02/16/1995 FY95: TOTAL: \$6,441
Prin. Invest. NASA Tech. Officer CASE Category
 T A GALLY LARC/R L CAMPBELL 41-Aero Engr
 LARC/R E MINECK

NAG 1-1618 Texas A&M University 7852
 WAVELET GALERKIN METHODS AND MULTIREOLUTION ANALYSIS
 IN COMPUTATION MECHANICS
Period Obligations
 04/21/1994-11/30/1995 FY95: \$8,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 A KURDILA LARC/J M HOUSNER 46-Mech Engr
 T STRGANAC
 R LAZAROV

NAG 1-1753 Texas A&M University 7853
 APPLICATION OF ARTIFICIAL NEURAL NETWORKS FOR THE C
 ALIBRATION OF 5-HOLE PROBE
Period Obligations
 09/18/1995-09/17/1996 FY95: \$24,466 TOTAL: \$24,466
Prin. Invest. NASA Tech. Officer CASE Category
 D K REDINIOTIS LARC/W L SELLERS, III 41-Aero Engr

NAG 3-181 Texas A&M University 7854
 ON ROTOR DYNAMIC RESPONSE AND STABILITY
Period Obligations
 04/27/1981-11/30/1994 FY95: TOTAL: \$2,230,165
Prin. Invest. NASA Tech. Officer CASE Category
 D W CHILDS LERC/R C HENDRICKS 46-Mech Engr
 C C NELSON
 G MORRISON

NAG 3-763 Texas A&M University 7855
 ACTIVE CONTROL OF TRANSIENT ROTOR VIBRATIONS
Period Obligations
 12/11/1986-03/29/1994 FY95: TOTAL: \$401,890
Prin. Invest. NASA Tech. Officer CASE Category
 A B PALAZZOLO LERC/A F KASCAK 46-Mech Engr

NAG 3-891 Texas A&M University 7856
 CYOGENIC DAMPERS VERIFICATION
Period Obligations
 02/29/1988-12/26/1995 FY95: TOTAL: \$493,004
Prin. Invest. NASA Tech. Officer CASE Category
 A B PALAZZOLO LERC/A F KASCAK 46-Mech Engr

NAG 3-1144 Texas A&M University 7857
 DEV OF AN ADV COMPUTER CODE FOR SIMULATION OF DYN
 BEHAVIOR OF HIGH PRESSURE GAS TURBINE ENGINES
Period Obligations
 02/21/1990-08/10/1995 FY95: TOTAL: \$248,080
Prin. Invest. NASA Tech. Officer CASE Category
 T SCHOBEIRI LERC/D E PAXSON 41-Aero Engr

NAG 3-1270 Texas A&M University 7858
 ANALYSIS OF NEW COMPOSITES ARCHITECTURES
Period Obligations
 04/16/1991-08/31/1995 FY95: TOTAL: \$107,746
Prin. Invest. NASA Tech. Officer CASE Category
 J D WHITCOMB LERC/C C CHAMIS 41-Aero Engr
 LERC/P L MURTHY

NASA'S UNIVERSITY PROGRAM

TEXAS (Continued)

NAG 3-1326 Texas A&M University 7859
 INVESTIGATION OF NATURAL AND MAN-MADE RADIATION EFFECTS ON CREWS ON LONG-DURATION SPACE MISSIONS
Period Obligations
 02/28/1992-12/31/1993 FY95: \$1 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 W E BOLCH LERC/S M STEVENSON 49-Engr, NEC
 A G PARLOS

NAG 5-673 Texas A&M University 7867
 INVESTIGATION OF BALLOON MATERIAL PROPERTIES EXPOSED TO THE LOW EARTH ORBIT ENVIRONMENT
Period Obligations
 10/19/1990-11/30/1995 FY95: TOTAL: \$208,885
Prin. Invest. NASA Tech. Officer CASE Category
 T W STRGANAC GSFC/I S SMITH 47-Materials Engr
 GSFC/H C NEEDLEMAN

NAG 3-1434 Texas A&M University 7860
 THERMOHYDRODYNAMIC ANALYSIS OF CRYOGENIC LIQUID TURBULENT FLOW FLUID FILM BEARINGS
Period Obligations
 01/11/1993-12/31/1995 FY95: \$68,725 TOTAL: \$292,613
Prin. Invest. NASA Tech. Officer CASE Category
 L SAN ANDRES LERC/J F WALKER 46-Mech Engr

NAG 5-869 Texas A&M University 7868
 STATISTICAL RESEARCH FOR PRECIPITATION FROM SPACE
Period Obligations
 02/01/1987-04/30/1994 FY95: TOTAL: \$674,900
Prin. Invest. NASA Tech. Officer CASE Category
 G R NORTH GSFC/T L BELL 31-Atmos Sci

NAG 3-1512 Texas A&M University 7861
 COMBINED NUMERICAL/ANALYTICAL PERTURBATION SOLUTIONS OF THE NAVIER-STOKES EQU W/APPL TO AERODYN AND G
Period Obligations
 09/23/1993-12/31/1994 FY95: TOTAL: \$42,678
Prin. Invest. NASA Tech. Officer CASE Category
 J A CATON LERC/J K LYTIE 46-Mech Engr

NAG 5-1423 Texas A&M University 7869
 PARTICIPATION IN TRMM-1 AIRCRAFT EXPERIMENT
Period Obligations
 08/02/1990-05/14/1996 FY95: \$49,993 TOTAL: \$307,410
Prin. Invest. NASA Tech. Officer CASE Category
 T T WILHEIT GSFC/J R WANG 31-Atmos Sci
 GSFC/J C SHIUE

NAG 3-1542 Texas A&M University 7862
 ACTIVE CONTROL OF VIBRATION SUBTOPIC - HIGH TEMPERATURE MAGNETIC THRUST BEARING DEVELOPMENT
Period Obligations
 09/29/1993-03/31/1996 FY95: \$30,000 TOTAL: \$102,490
Prin. Invest. NASA Tech. Officer CASE Category
 A B PALAZZOLO LERC/A F KASCAK 46-Mech Engr

NAG 5-1568 Texas A&M University 7870
 RADIOMETER TEAM LEADER
Period Obligations
 05/31/1991-05/31/1996 FY95: \$90,000 TOTAL: \$450,361
Prin. Invest. NASA Tech. Officer CASE Category
 T T WILHEIT GSFC/J WEINMAN 31-Atmos Sci

NAG 3-1556 Texas A&M University 7863
 COMPUTATIONAL METHODS FOR ACTIVE CONTROL OF ROTOR VIBRATION
Period Obligations
 01/04/1994-04/03/1996 FY95: \$75,000 TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
 A B PALAZZOLO LERC/C LAWRENCE 47-Materials Engr

NAG 5-1569 Texas A&M University 7871
 VALIDATION AND TRANSFERABILITY OF TROPICAL RAIN ESTIMATION METHODS
Period Obligations
 05/13/1991-09/30/1995 FY95: \$413,627 TOTAL: \$1,124,427
Prin. Invest. NASA Tech. Officer CASE Category
 E ZIPSER GSFC/O THIELE 31-Atmos Sci

NAG 3-1656 Texas A&M University 7864
 HIGH TURBULENCE EFFECTS ON TURBINE BLADE FILM COOLING HEAT TRANSFER PERFORMANCE USING TRANSIENT LIQUID
Period Obligations
 08/11/1994-08/31/1995 FY95: \$74,136 TOTAL: \$80,130
Prin. Invest. NASA Tech. Officer CASE Category
 J C HAN LERC/P E POINSATTE 41-Aero Engr

NAG 5-1590 Texas A&M University 7872
 STATISTICAL STUDIES FOR THE TROPICAL RAINFALL MEASURING MISSION
Period Obligations
 06/24/1991-06/30/1996 FY95: \$75,000 TOTAL: \$426,723
Prin. Invest. NASA Tech. Officer CASE Category
 G R NORTH GSFC/T BELL 31-Atmos Sci

NAG 3-1789 Texas A&M University 7865
 FURTHER DEVELOPMENT OF GETRAN
Period Obligations
 09/22/1995-02/10/1996 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
 M T SCHOBELERI LERC/D E PAXSON 41-Aero Engr

NAG 5-2033 Texas A&M University 7873
 INTENSIVE BOUNDARY LAYER WATER CYCLE STUDY IN THE WESTERN EQUATORIAL PACIFIC
Period Obligations
 07/17/1992-07/31/1994 FY95: TOTAL: \$64,996
Prin. Invest. NASA Tech. Officer CASE Category
 E ZIPSER GSFC/O W THIELE 31-Atmos Sci

NAG 5-655 Texas A&M University 7866
 BALLOON MATERIALS, SCIENCE AND ENGINEERING
Period Obligations
 03/01/1989-08/31/1994 FY95: TOTAL: \$424,915
Prin. Invest. NASA Tech. Officer CASE Category
 J NOEL GSFC/H C NEEDLEMAN 19-Phys Sci, NEC
 GSFC/L J EARLY

NAG 5-2089 Texas A&M University 7874
 TRMM RELATED OBSERVATIONS OF TROPICAL RAINFALL STRUCTURE IN TOGA/COARE
Period Obligations
 09/02/1992-07/14/1994 FY95: TOTAL: \$44,988
Prin. Invest. NASA Tech. Officer CASE Category
 T WILHEIT GSFC/O W THIELE 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 5-2221 Texas A&M University 7875
 COMET COMMUNICATIONS EXPERIMENT PROGRAM
Period Obligations
 02/22/1993-08/31/1994 FY95: TOTAL: \$39,188
Prin. Invest. NASA Tech. Officer CASE Category
 F LITTLE GSFC/J CHITWOOD 49-Engr, NEC
 GSFC/K L PERKO

NAG 8-1131 Texas A&M University 7883
 ENHANCED SIMULATION FOR ROCKET TURBOPUMP
Period Obligations
 04/13/1995-04/12/1996 FY95: \$23,998 TOTAL: \$23,998
Prin. Invest. NASA Tech. Officer CASE Category
 A B PALAZZOLO MSFC/K M FUNSTON 22-Computer Science
 MSFC/E M EARHART

NAG 5-2778 Texas A&M University 7876
 STATISTICAL RESEARCH FOR PRECIPITATION MISSIONS
Period Obligations
 10/28/1994-11/14/1995 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 G R NORTH GSFC/O W THIELE 31-Atmos Sci

NAG 8-1200 Texas A&M University 7884
 GLOBAL DISTRIBUTION OF TROPICAL RAINFALL
Period Obligations
 09/20/1995-09/30/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 E J ZIPSER MSFC/S J GOODMAN 31-Atmos Sci
 J P MCGUIRK MSFC/H M GOODMAN

NAG 5-5026 Texas A&M University 7877
 A FRACTURE TOUGHNESS STUDY OF SCRIM AND FIBER
 REINFORCED FILMS
Period Obligations
 12/21/1994-12/31/1995 FY95: \$104,290 TOTAL: \$104,290
Prin. Invest. NASA Tech. Officer CASE Category
 J T TIELKING GSFC/I S SMITH 13-Physics
 GSFC/H C NEEDLEMAN

NAG 9-331 Texas A&M University 7885
 SPACE RADIATION/MATERIALS/DEVICES
Period Obligations
 01/15/1989-05/29/1996 FY95: \$100,030 TOTAL: \$484,412
Prin. Invest. NASA Tech. Officer CASE Category
 J S LINDER JSC/C HERMAN 31-Atmos Sci

NAG 8-294 Texas A&M University 7878
 DESIGN REVIEW AND ANALYSIS FOR SEAL TESTING RIG
Period Obligations
 06/23/1993-08/31/1994 FY95: TOTAL: \$61,720
Prin. Invest. NASA Tech. Officer CASE Category
 D CHILDS MSFC/H G GIBSON 46-Mech Engr
 MSFC/R L THOM

NAG 9-395 Texas A&M University 7886
 THE FRACTURE CRITERIA OF BERYLLIUM SHEET AND TUBE
Period Obligations
 09/01/1989-07/01/1994 FY95: TOTAL: \$71,752
Prin. Invest. NASA Tech. Officer CASE Category
 J HERRERA JSC/W L CASTNER 47-Materials Engr

NAG 8-299 Texas A&M University 7879
 MODELING AND DIAGNOSING TROPICAL MOISTURE VARIATION
Period Obligations
 10/21/1993-12/20/1995 FY95: \$75,000 TOTAL: \$148,980
Prin. Invest. NASA Tech. Officer CASE Category
 J P MC GUIRK MSFC/J W KAUFMAN 31-Atmos Sci

NAG 9-491 Texas A&M University 7887
 ROBUST ADAPTIVE CONTROL TECHNOLOGY FOR ADVANCED
 SPACED SPACE SYSTEMS
Period Obligations
 01/01/1991-01/01/1996 FY95: TOTAL: \$149,999
Prin. Invest. NASA Tech. Officer CASE Category
 A G CARLOS JSC/J W SUNKEL 49-Engr, NEC

NAG 8-912 Texas A&M University 7880
 WET NET
Period Obligations
 05/27/1992-05/31/1995 FY95: TOTAL: \$265,000
Prin. Invest. NASA Tech. Officer CASE Category
 E J ZIPSER MSFC/S GOODMAN 31-Atmos Sci
 J P MCGUIRK

NAG 9-566 Texas A&M University 7888
 LONG RANGE TARGETING FOR SPACE BASED RENDEZVOUS
Period Obligations
 10/09/1991-09/01/1995 FY95: TOTAL: \$86,946
Prin. Invest. NASA Tech. Officer CASE Category
 R C REDFIELD JSC/L G MUNFORD 46-Mech Engr
 L J EVERETT

NAG 8-989 Texas A&M University 7881
 ENHANCED SIMULATION SOFTWARE FOR ROCKET PARTS
Period Obligations
 09/24/1993-12/31/1994 FY95: TOTAL: \$28,315
Prin. Invest. NASA Tech. Officer CASE Category
 A B PALAZZOLO MSFC/J VARGAS 46-Mech Engr

NAG 9-629 Texas A&M University 7889
 SELF CALIBRATING AUTOTRAC
Period Obligations
 08/20/1992-09/01/1995 FY95: TOTAL: \$24,917
Prin. Invest. NASA Tech. Officer CASE Category
 L J EVERETT JSC/L MONFORD 46-Mech Engr

NAG 8-1100 Texas A&M University 7882
 JOVE
Period Obligations
 10/18/1994-05/31/1996 FY95: \$42,000 TOTAL: \$42,000
Prin. Invest. NASA Tech. Officer CASE Category
 H G BLOUNT II MSFC/F SIX 11-Astronomy

NAG 9-642 Texas A&M University 7890
 PHOSPHORUS REACTIONS WITH LUNAR SIMULANT
Period Obligations
 09/16/1992-12/31/1995 FY95: TOTAL: \$27,000
Prin. Invest. NASA Tech. Officer CASE Category
 L R HOZZNER JSC/- 54-Env Biology

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 9-668 Texas A&M University 7891
PEIZO ELECTRIC CRYSTALS AS VIBRATION CONTROL DEVICES FOR FLEXIBLE SPACECRAFT STRUCTURES
Period Obligations
03/02/1993-03/01/1995 FY95: TOTAL: \$58,969
Prin. Invest. NASA Tech. Officer CASE Category
S MIDTURI JSC/D A HAMILTON 46-Mech Engr

NAG 9-669 Texas A&M University 7892
FEASIBILITY OF LETTUCE GROWTH AT HYPOXIC AND SUBAMBIENT TOTAL GAS PRESSURE
Period Obligations
04/01/1993-04/01/1996 FY95: \$15,000 TOTAL: \$112,463
Prin. Invest. NASA Tech. Officer CASE Category
M DREW JSC/D HENNINGER 51-Biological Sci
R STAHL
M DRAW

NAG 9-680 Texas A&M University 7893
THE DEVELOPMENT OF NONEQUILIBRIUM HEAT TRANSFER COMPUTATIONAL MODEL FOR VEHICLE FLOWFIELD METHODS
Period Obligations
04/01/1993-09/12/1995 FY95: TOTAL: \$55,563
Prin. Invest. NASA Tech. Officer CASE Category
L A CARLSON JSC/C D SCOTT 41-Aero Engr

NAG 9-716 Texas A&M University 7894
NONINVASIVE OPTICAL DETECTION OF GLUCOSE
Period Obligations
10/08/1993-08/31/1994 FY95: TOTAL: \$15,899
Prin. Invest. NASA Tech. Officer CASE Category
G L COTE JSC/S H GOLDSTEIN 49-Engr, NEC

NAG 9-730 Texas A&M University 7895
PERFORMANCE ENHANCEMENT OF HEAT AND MASS TRANSFER DEVICES WITH ELECTROHYDRODYNAMICS
Period Obligations
05/16/1994-05/01/1996 FY95: TOTAL: \$35,250
Prin. Invest. NASA Tech. Officer CASE Category
J SEYED-YAGOOBI JSC/K MILLER 45-Elec Engr

NAG 9-735 Texas A&M University 7896
ITERATIVE INTERACTIVE IMAGE RESTORATION
Period Obligations
05/18/1994-10/01/1994 FY95: TOTAL: \$9,500
Prin. Invest. NASA Tech. Officer CASE Category
G E HITE JSC/M GAUNCE 22-Computer Science

NAG 9-751 Texas A&M University 7897
ADVANCED MOTOR DRIVE STUDIES FOR ORBITER HYDRAULIC PUMP
Period Obligations
06/21/1994-06/15/1995 FY95: TOTAL: \$46,491
Prin. Invest. NASA Tech. Officer CASE Category
M EHSANI JSC/D BELLANGER 45-Elec Engr

NAG 9-787 Texas A&M University 7898
KC-135 FLIGHT TESTING
Period Obligations
05/25/1995-05/22/1996 FY95: \$51,907 TOTAL: \$51,907
Prin. Invest. NASA Tech. Officer CASE Category
F R BEST JSC/K M HURLBERT 49-Engr, NEC

NAG 9-798 Texas A&M University 7899
TECHNIQUES FOR IMPROVING PERFORMANCE OF FUTURE EVA MANEUVERING SYSTEM
Period Obligations
06/16/1995-12/18/1995 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
D R AVRESLY JSC/R SHULER 22-Computer Science

NAG 9-807 Texas A&M University 7900
COMBINING THE PHOTOGRAPHY/LANDSCAPE ECOLOGY TO PRODUCE A PREDICTIVE MODEL
Period Obligations
08/02/1995-07/31/1996 FY95: \$64,314 TOTAL: \$64,314
Prin. Invest. NASA Tech. Officer CASE Category
J GIARDINO JSC/K LULLA 31-Atmos Sci

NAG 9-821 Texas A&M University 7901
NONINVASIVE NEAR INFRARED SENSOR FOR CONTINUAL CELL GLUCOSE MEASUREMENT
Period Obligations
08/11/1995-08/10/1996 FY95: \$113,250 TOTAL: \$113,250
Prin. Invest. NASA Tech. Officer CASE Category
G COTE JSC/N PELLIS 49-Engr, NEC

NAG 9-831 Texas A&M University 7902
SINGLE EVENT UPSET EVALUATION ENVIR.
Period Obligations
07/25/1995-07/31/1996 FY95: \$44,366 TOTAL: \$44,366
Prin. Invest. NASA Tech. Officer CASE Category
G CHOI JSC/P O'NEILL 13-Physics

NAGW 1194 Texas A&M University 7903
CENTER FOR THE COMMERCIAL DEVELOPMENT OF SPACE POWER
Period Obligations
09/30/1987-10/31/1995 FY95: \$900,000 TOTAL: \$9,743,300
Prin. Invest. NASA Tech. Officer CASE Category
F R BEST HQ/C LIVINGSTON 45-Elec Engr
D R BOYLE HQ/V CEVENINI

NAGW 1979 Texas A&M University 7904
STUDIES OF GEOSTROPHIC TURBULENCE USING GEOSAT DATA
Period Obligations
05/22/1990-03/31/1996 FY95: \$115,000 TOTAL: \$412,677
Prin. Invest. NASA Tech. Officer CASE Category
R H STEWART HQ/G S LAGERLOEF 33-Oceanography
HQ/W S WILSON

NAGW 2427 Texas A&M University 7905
HYDROLOGIC RAINFIELD MODELS AND REMOTE SENSING
Period Obligations
04/12/1991-01/31/1994 FY95: TOTAL: \$219,049
Prin. Invest. NASA Tech. Officer CASE Category
J B VALDES HQ/G ASRAR 39-Env Sci, NEC
G R NORTH HQ/J S THEON

NAGW 2922 Texas A&M University 7906
EXPERIMENTAL DETERMINATION OF THE STRUCTURE OF THE SEA SURFACE INFLUENCING RADIO OBSERVATIONS
Period Obligations
02/27/1992-01/31/1995 FY95: TOTAL: \$155,893
Prin. Invest. NASA Tech. Officer CASE Category
R STEWART HQ/J S THEON 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAGW 3054 Texas A&M University 7907
 NAGW-3054/TEXAS AANDM RESEARCH FOUNDATION/ATMOSPHERIC
 CONDENSATIONAL PROPERTIES OF ULTRAFINE CHAIN
Period Obligations
 04/17/1992-08/31/1995 FY95: TOTAL: \$444,226
Prin. Invest. NASA Tech. Officer CASE Category
 W H MARLOW HQ/J K ALEXANDER 31-Atmos Sci
 HQ/D A HOLLAND

NAGW 4189 Texas A&M University 7914
 CHARACTERIZATION OF THE SPATIAL-TEMPORAL VARIABILITY OF
 SOIL MOISTURE BY REMOTE SENSING
Period Obligations
 11/04/1994-12/31/1997 FY95: \$91,975 TOTAL: \$91,975
Prin. Invest. NASA Tech. Officer CASE Category
 J B VALDES HQ/M Y WEI 39-Env Sci, NEC
 HQ/J S THEON

NAGW 3186 Texas A&M University 7908
 NAGW-3186/TEXAS AANDM UNIV/CONSTRUCTING A RECORD OF
 TROPICAL DEFORESTATION USING LANDSAT, AVHRR,
Period Obligations
 08/28/1992-07/31/1994 FY95: TOTAL: \$118,234
Prin. Invest. NASA Tech. Officer CASE Category
 J GIARDINO HQ/M R HALFERT 39-Env Sci, NEC
 F HOSKINS HQ/D M BUTLER

NAGW 4766 Texas A&M University 7915
 SPACE TIME ORGANIZATION
Period Obligations
 09/25/1995-08/31/1996 FY95: \$66,327 TOTAL: \$66,327
Prin. Invest. NASA Tech. Officer CASE Category
 I RODRIGUEZ-ITURBE HQ/M Y WEI 39-Env Sci, NEC
 D ENTEKHABI HQ/A C JANETOS

NAGW 3363 Texas A&M University 7909
 COMP. BET. CZCS-MEA. AER. RAD. AND MAR. BOUNDARY LAYER
 MINERAL AER. CON.
Period Obligations
 02/18/1993-02/28/1994 FY95: TOTAL: \$48,645
Prin. Invest. NASA Tech. Officer CASE Category
 N W TINDALE HQ/J A KAYE 31-Atmos Sci
 HQ/R E MURPHY

NAS 5-32593 Texas A&M University 7916
 STUDY ENTITLED MIMR SCIENCE TEAM MEMBERSHIP
Period Obligations
 12/15/1993-12/31/1995 FY95: \$109,629 TOTAL: \$220,013
Prin. Invest. NASA Tech. Officer CASE Category
 T T WILHEIT GSFC/P HWONG 31-Atmos Sci

NAGW 3442 Texas A&M University 7910
 OBSERVATIONAL AND MODEL STUDIES OF LARGE SCALE MIXING
 PROCESSES IN THE STRATOSPHERE
Period Obligations
 03/17/1993-02/29/1996 FY95: \$89,571 TOTAL: \$249,382
Prin. Invest. NASA Tech. Officer CASE Category
 K P BOWMAN HQ/J A KAYE 31-Atmos Sci
 HQ/R E MURPHY

NAS 8-37821 Texas A&M University 7917
 PUMP-IMPELLER SHROUD SURFACES STUDY
Period Obligations
 04/26/1989-09/30/1993 FY95: TOTAL: \$298,235
Prin. Invest. NASA Tech. Officer CASE Category
 W CHILDS MSFC/J CANNON 41-Aero Engr
 E BASKHARONE MSFC/L GROSS

NAGW 3652 Texas A&M University 7911
 THE REMOTE SENSING OF MINERAL AEROSOLS AND THEIR IMPACT
 ON PHYTOPLANKTON PRODUCTIVITY USING SEAWIFS
Period Obligations
 06/15/1993-08/31/1996 FY95: \$44,247 TOTAL: \$103,954
Prin. Invest. NASA Tech. Officer CASE Category
 N W TINDALE HQ/J A KAYE 33-Oceanography
 HQ/R E MURPHY

NAS 9-18882 Texas A&M University 7918
 WIND TUNNEL SUPPORT
Period Obligations
 04/16/1993-04/16/1996 FY95: \$109,000 TOTAL: \$229,000
Prin. Invest. NASA Tech. Officer CASE Category
 O NICKS JSC/R E MEYERSON 41-Aero Engr

NAGW 3963 Texas A&M University 7912
 MARS GEOLOGIC MAPPING: DAO AND NIGER VALLES
Period Obligations
 04/22/1994-02/14/1996 FY95: \$15,000 TOTAL: \$30,640
Prin. Invest. NASA Tech. Officer CASE Category
 K H PRICE HQ/R WILLIAMS 32-Geological Sci

NASW 4679 Texas A&M University 7919
 NASW-4679/TX ENG'G EXPERIMENT STATION/NASA RTTC LOCATED
 IN THE MID-CONTINENT REGION OF THE U.S.
Period Obligations
 12/20/1991-12/31/1995 FY95: \$2,181,999 TOTAL: \$5,909,999
Prin. Invest. NASA Tech. Officer CASE Category
 G SERA HQ/F E PEWARANDA 99-Multi-Discip

NAGW 4171 Texas A&M University 7913
 MUTUAL INTERACTION OF SOIL MOISTURE AND CLIMATE DYNAMICS
Period Obligations
 11/04/1994-12/31/1997 FY95: \$32,827 TOTAL: \$32,827
Prin. Invest. NASA Tech. Officer CASE Category
 I RODRIGUEZ-ITURBE HQ/M Y WEI 39-Env Sci, NEC
 HQ/J S THEON

NCC 2-742 Texas A&M University 7920
 INTERMITTENT FLOW VISUALIZATION SYSTEM: PROTOTYPE
 DESIGN
Period Obligations
 12/18/1991-12/30/1994 FY95: TOTAL: \$91,655
Prin. Invest. NASA Tech. Officer CASE Category
 D T WARD ARC/J H DEL FRATE 41-Aero Engr
 ARC/R E CURRY

NCC 2-791 Texas A&M University 7921
 A PARALLEL ADA TRANSLATION SYSTEM FOR MASSIVELY PARALLEL
 COMPUTERS
Period Obligations
 04/20/1993-08/31/1994 FY95: TOTAL: \$97,615
Prin. Invest. NASA Tech. Officer CASE Category
 R A VOLZ ARC/A GOFORTH 22-Computer Science
 ARC/Y K LIU

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NGT 00-030-243 Texas A&M University 7922
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/13/1994-08/31/1996 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R H STEWART HQ/R A SCHIFFER 33-Oceanography
 HQ/G ASRAR

NGT 00-051-244 Texas A&M University 7931
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/29/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 M J ANDREWS LERC/F MONTEGANI 46-Mech Engr

NGT 00-030-287 Texas A&M University 7923
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/06/1994-08/31/1997 FY95: \$43,999 TOTAL: \$43,999
Prin. Invest. NASA Tech. Officer CASE Category
 J B VALDES HQ/J S THEON 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-051-337 Texas A&M University 7932
 GRADUATE STUDENT RESEARCHER PROGRAM
Period Obligations
 08/22/1994-06/30/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 M B HALL ARC/M MOORE 12-Chemistry

NGT 00-050-690 Texas A&M University 7924
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 01/31/1991-09/30/1994 FY95: TOTAL: \$82,500
Prin. Invest. NASA Tech. Officer CASE Category
 E RYKIEL HQ/F C OWENS 51-Biological Sci

NGT 00-070-185 Texas A&M University 7933
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 09/05/1990-08/31/1994 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 A G PARLOS HQ/F C OWENS 49-Engr, NEC

NGT 00-050-733 Texas A&M University 7925
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/25/1991-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A PARLOS HQ/F C OWENS 49-Engr, NEC

NGT 00-070-221 Texas A&M University 7934
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 06/26/1991-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 P N ROSCHKE HQ/F C OWENS 44-Civil Engr

NGT 00-050-738 Texas A&M University 7926
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/03/1991-08/31/1995 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 J YEN HQ/F C OWENS 22-Computer Science

NGT 00-070-248 Texas A&M University 7935
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 05/29/1992-06/30/1996 FY95: \$22,000 TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 F R BEST JSC/S GOLDSTEIN 49-Engr, NEC

NGT 00-050-837 Texas A&M University 7927
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/12/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G YEN HQ/F C OWENS 22-Computer Science

NGT 00-070-304 Texas A&M University 7936
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 05/28/1993-05/31/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 K CHANG HQ/D K RUSSELL 45-Elec Engr

NGT 00-051-185 Texas A&M University 7928
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/30/1993-08/31/1996 FY95: \$22,000 TOTAL: \$86,000
Prin. Invest. NASA Tech. Officer CASE Category
 K P BOWMAN GSFC/M BURRELL 11-Astronomy

NGT 00-070-387 Texas A&M University 7937
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/26/1994-06/30/1996 FY95: \$21,200 TOTAL: \$42,400
Prin. Invest. NASA Tech. Officer CASE Category
 M DREW HQ/D RUSSELL 39-Env Sci, NEC

NGT 00-051-229 Texas A&M University 7929
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/08/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 L R HOSSNER JSC/S GOLDSTEIN 55-Agriculture Sci

NGT 00-090-128 Texas A&M University 7938
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/26/1992-08/14/1995 FY95: \$8,000 TOTAL: \$32,000
Prin. Invest. NASA Tech. Officer CASE Category
 W D TURNER HQ/D K RUSSELL 99-Multi-Discip

NGT 00-051-232 Texas A&M University 7930
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/08/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J S YAGOOBI JSC/S GOLDSTEIN 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NGT 00-090-190 Texas A&M University 7939
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 W D TURNER HQ/D RUSSELL 99-Multi-Discip

NAG 8-818 Texas Southern University 7949
 JOVE PILOT RESEARCH STUDY
Period Obligations
 03/23/1990-08/28/1995 FY95: TOTAL: \$86,842
Prin. Invest. NASA Tech. Officer CASE Category
 S A ARYA MSFC/C R CHAPPELL 31-Atmos Sci
 MSFC/N F SIX

NGT 00-090-191 Texas A&M University 7940
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 W D TURNER HQ/D K RUSSELL 99-Multi-Discip

NAG 9-299 Texas Southern University 7950
 PREPARATION AND STUDY OF TITANIUM, ZIRCONIUM AND HAFNIUM
 COMPLEXES
Period Obligations
 06/01/1988-04/01/1995 FY95: TOTAL: \$398,043
Prin. Invest. NASA Tech. Officer CASE Category
 B L WILSON JSC/D S MCKAY 12-Chemistry

NGT 00-090-217 Texas A&M University 7941
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
 09/23/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 W D TURNER HQ/D K RUSSELL 99-Multi-Discip

NAG 9-325 Texas Southern University 7951
 INTERNATIONAL FOOD PATTERNS FOR SPACE
Period Obligations
 09/01/1988-08/31/1995 FY95: TOTAL: \$360,468
Prin. Invest. NASA Tech. Officer CASE Category
 S M AHMED JSC/C T BOURLAND 59-Life Sci, NEC
 JSC/R R RITZ

NGT 00-090-218 Texas A&M University 7942
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
 09/23/1993-08/14/1995 FY95: TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 W D TURNER HQ/D K RUSSELL 99-Multi-Discip

NAG 9-423 Texas Southern University 7952
 EXAMINATION OF IONIC SPECIES IN SOLUTION OF SIMULATED
 LUNAR REGOLITH AND SELECTED SOLVENTS
Period Obligations
 04/12/1990-10/01/1995 FY95: TOTAL: \$489,550
Prin. Invest. NASA Tech. Officer CASE Category
 R WILSON JSC/D HENNINGER 47-Materials Engr

NGT 00-090-276 Texas A&M University 7943
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 12/16/1994-08/14/1995 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 D TURNER HQ/D K RUSSELL 45-Elec Engr

NAG 9-456 Texas Southern University 7953
 CAREERS IN SCIENCE
Period Obligations
 07/02/1990-08/31/1995 FY95: TOTAL: \$463,467
Prin. Invest. NASA Tech. Officer CASE Category
 W W BARNETT JSC/G JOHNSON 76-Sociology

NGT 5-7 Texas A&M University 7944
 WAVELET-BASED FUSION AND DENOISING OF REMOTELY SENSED
 MULTISPECTRAL DATA
Period Obligations
 06/26/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J C LIU GSFC/G A SOFFEN 22-Computer Science
 GSFC/J TILTON

NAG 9-712 Texas Southern University 7954
 PHYROSLAXINS IN PLANT DISEASE DEVELOPMENT IN HYDRO
 PHONICS
Period Obligations
 09/22/1993-05/31/1996 FY95: \$175,000 TOTAL: \$421,650
Prin. Invest. NASA Tech. Officer CASE Category
 O A JEJELOWO JSC/D BARTA 55-Agriculture Sci

NGT44-1800 Texas A&M University 7945
 NASA ASEE SUMMER FACULTY FELLOWSHIP PROGRAM
Period Obligations
 01/01/1980-01/31/1997 FY95: \$479,822 TOTAL: \$3,051,372
Prin. Invest. NASA Tech. Officer CASE Category
 W A HYMAN HQ/A S MCGEE 49-Engr, NEC
 HQ/E T SCHWARTZ

NAG 9-721 Texas Southern University 7955
 SUMMER FACULTY FELLOWS RECRUITMENT OF AFRICAN AMER
 ICANS IN SCIENCE AND ENGINEERING FOR ASSIGNMENT
Period Obligations
 10/27/1993-05/31/1994 FY95: TOTAL: \$37,000
Prin. Invest. NASA Tech. Officer CASE Category
 L HYMAN JSC/J ATKINSON JR. 99-Multi-Discip

NAG 9-611 Texas College of Osteopathic Medicine 7948
 ALTERATIONS IN HUMAN BARORECEPTOR
Period Obligations
 05/15/1992-09/01/1995 FY95: TOTAL: \$118,999
Prin. Invest. NASA Tech. Officer CASE Category
 P B RAVEN JSC/S M FORTNEY 56-Medical Sciences
 JSC/J B CHARLES

NAG 9-765 Texas Southern University 7956
 SELECTED COMPLEX IONS AND LIGANDS/SIMULATED RIGOLITH
 AND HYDROPONIC SYSTEMS
Period Obligations
 09/19/1994-01/01/1996 FY95: TOTAL: \$125,000
Prin. Invest. NASA Tech. Officer CASE Category
 R F WILSON JSC/D HENNINGER 54-Env Biology

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 9-774 Texas Southern University 7957
 THE LAW OF PROPERTY IN SPACE
Period Obligations
 03/17/1995-02/28/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 O KING JSC/M DIGOU 99-Multi-Discip

NAG 3-1172 Texas Tech University 7965
 ARCJET ELECTRODE DEGRADATION RESEARCH
Period Obligations
 05/10/1990-06/14/1996 FY95: \$143,200 TOTAL: \$973,080
Prin. Invest. NASA Tech. Officer CASE Category
 E A O'HAIR LERC/F M CURRAN 42-Astro Engr
 M KRISTIANSEN LERC/T W HAAG
 L L HATFIELD

NAG 9-781 Texas Southern University 7958
 HIGH ENERGY CELLS AND BATTERIES
Period Obligations
 04/17/1995-03/31/1998 FY95: \$200,002 TOTAL: \$200,002
Prin. Invest. NASA Tech. Officer CASE Category
 A R CHOWDHURY JSC/B J BRAGG 45-Elec Engr
 M C GOURDINE

NAG 3-1672 Texas Tech University 7966
 ELECTRICAL INSULATORS AND HIGH VOLTAGE DEVICES IN A
 VACUUM ENVIRONMENT
Period Obligations
 09/28/1994-09/27/1995 FY95: TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 M KRISTIANSEN LERC/E J PENCIL 45-Elec Engr

NAGW 3060 Texas Southmost College 7959
 SOUTH TEXAS SCIENCE OUTREACH PROGRAM
Period Obligations
 05/04/1992-05/14/1996 FY95: \$139,702 TOTAL: \$465,522
Prin. Invest. NASA Tech. Officer CASE Category
 L V LOF JSC/L ARMENDARIZ 99-Multi-Discip
 P GOMEZ HQ/B L WHITE

NAG 9-800 Texas Tech University 7967
 GUIDES FOR FUTURE TWO-PHASE THERMAL SYSTEM DESIGN
Period Obligations
 06/19/1995-10/01/1995 FY95: \$6,395 TOTAL: \$6,395
Prin. Invest. NASA Tech. Officer CASE Category
 M C CHYUIS JSC/E UNGER 41-Aero Engr

NAGW 4356 Texas Southmost College 7960
 THE TREASURES OF THE RIO GRANDE DELTA
Period Obligations
 03/18/1995-12/31/1995 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 L V LOF HQ/M MATEU 11-Astronomy
 JSC/L M ARMENDARIZ

NAG 9-844 Texas Tech University 7968
 HI FIDELITY IMAGE DATA SYSTEMS
Period Obligations
 08/24/1995-09/21/1996 FY95: \$57,470 TOTAL: \$57,470
Prin. Invest. NASA Tech. Officer CASE Category
 S MITRA JSC/T CLEGHORN 29-Math/Computer, NEC

NAG 1-1510 Texas Tech University 7961
 ELECTROMAGNETIC COMPATIBILITY TESTING STUDIES
Period Obligations
 05/28/1993-08/31/1995 FY95: TOTAL: \$124,652
Prin. Invest. NASA Tech. Officer CASE Category
 T F TROST LARC/F L PITTS 45-Elec Engr

NAG 9-738 Texas Woman's University 7969
 COMPUTER MODELING OF HAND STRENGTH AND POSITION DURI
 NG GRASPING
Period Obligations
 06/01/1994-07/01/1995 FY95: TOTAL: \$63,177
Prin. Invest. NASA Tech. Officer CASE Category
 S HASSON JSC/J MAIDA 59-Life Sci, NEC

NAG 2-878 Texas Tech University 7962
 INVESTIGATIONS OF BACTERIORHODOPSIN FILMS FOR OPTI CAL
 SIGNAL PROCESSING AND DATA STORAGE
Period Obligations
 01/07/1994-02/14/1995 FY95: TOTAL: \$65,000
Prin. Invest. NASA Tech. Officer CASE Category
 J F WALKUP ARC/C K GARY 45-Elec Engr
 D J MEHRL ARC/M B REID

NAG 3-510 Univ Houston 7970
 2 PHASE FLOW @ ZERO GRAVITY
Period Obligations
 12/21/1983-12/02/1994 FY95: TOTAL: \$1,050,879
Prin. Invest. NASA Tech. Officer CASE Category
 A E DUKLER LERC/J B MCQUILLEN 43-Chem Engr

NAG 2-899 Texas Tech University 7963
 STUDENT SUPPORT FOR RESEARCH IN HIERARCHICAL CONTR OL
 AND TRAJECTORY PLANNING
Period Obligations
 01/01/1994-12/31/1995 FY95: \$34,999 TOTAL: \$69,998
Prin. Invest. NASA Tech. Officer CASE Category
 C F MARTIN ARC/G MEYER 49-Engr, NEC

NAG 9-365 Univ Houston 7971
 MINERAL CHEMISTRY OF HED METEORITES
Period Obligations
 06/01/1989-06/01/1994 FY95: TOTAL: \$174,581
Prin. Invest. NASA Tech. Officer CASE Category
 A M REID JSC/I D BROWNE 32-Geological Sci

NAG 2-902 Texas Tech University 7964
 HIERARCHICAL CONTROL AND TRAJECTORY PLANNING
Period Obligations
 05/13/1994-12/31/1995 FY95: \$45,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 C F MARTIN ARC/G MEYER 41-Aero Engr

NAG 9-380 Univ Houston 7972
 STATE-SPACE SELF-TUNER FOR ON-LINE ADAPTIVE CONTROL
Period Obligations
 06/01/1989-06/01/1994 FY95: TOTAL: \$295,000
Prin. Invest. NASA Tech. Officer CASE Category
 L S SHIEH JSC/J W SUNKEL 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 9-759 Univ Houston 7989
 CHARACTERIZATION OF PLASMA DISCHARGE IN MAGNETIC T
 ANDEM MIRROR
Period Obligations
 08/15/1994-08/12/1996 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 F CHANG-DIAZ JSC/K KRISHEN 42-Astro Engr

NGT 00-051-022 Univ Houston 7998
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/14/1993-06/30/1996 FY95: \$22,000 TOTAL: \$86,000
Prin. Invest. NASA Tech. Officer CASE Category
 F HUSSAIN ARC/M MOORE 46-Mech Engr

NAG 9-803 Univ Houston 7990
 SPACE RADIATION MONTE CARLO COMPUTER SIMULATION
Period Obligations
 07/26/1995-04/01/1997 FY95: \$67,054 TOTAL: \$67,054
Prin. Invest. NASA Tech. Officer CASE Category
 L PINSKY JSC/G BADHWAR 13-Physics

NGT 00-051-085 Univ Houston 7999
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G E FOX HQ/D HOLLAND 12-Chemistry

NAG 9-806 Univ Houston 7991
 SOLAR CELLS FOR LUNAR APPL
Period Obligations
 07/20/1995-07/20/1996 FY95: \$57,600 TOTAL: \$57,600
Prin. Invest. NASA Tech. Officer CASE Category
 A IGNATIEV JSC/D MCKAY 13-Physics

NGT 00-051-159 Univ Houston 8000
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/26/1993-06/30/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 A E DUKLER LERC/F MONTEGANI 43-Chem Engr

NAG 9-822 Univ Houston 7992
 SUPERCONDUCTION MAGNETS
Period Obligations
 07/21/1995-07/31/1996 FY95: \$57,580 TOTAL: \$57,580
Prin. Invest. NASA Tech. Officer CASE Category
 R WEINSTEIN JSC/D ARNDT 13-Physics

NGT 00-070-250 Univ Houston 8001
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 05/08/1992-06/30/1996 FY95: \$22,000 TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 T GOLDING HQ/D K RUSSELL 13-Physics

NAGW 977 Univ Houston 7993
 ESTAB CENTER FOR COMM DEVEL OF SPACE
Period Obligations
 09/01/1986-10/14/1996 FY95: \$4,751,000 TOTAL: \$34,558,378
Prin. Invest. NASA Tech. Officer CASE Category
 C W CHU HQ/W A ORAN 51-Biological Sci
 J T NORRIS HQ/A VILLAMIL

NGT 00-090-176 Univ Houston 8002
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 G F PASKUSZ HQ/D RUSSELL 99-Multi-Discip

NAGW 2108 Univ Houston 7994
 IBOSOMAL RNA EVOLUTION AND MICROBIAL PHYLOGENY
Period Obligations
 06/07/1990-11/30/1995 FY95: \$69,000 TOTAL: \$404,000
Prin. Invest. NASA Tech. Officer CASE Category
 G E FOX HQ/J D RUMMEL 51-Biological Sci

NGT 00-090-245 Univ Houston 8003
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 05/16/1994-08/14/1996 FY95: \$36,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 G F PASKUSZ HQ/D K RUSSELL 99-Multi-Discip

NAGW 3191 Univ Houston 7995
 NAGW-3191/UNIV HOUSTON/NASA SPACE LIFE SCIENCES TRAINING
 PROGRAM FEASIBILITY STUDY
Period Obligations
 09/17/1992-07/31/1994 FY95: TOTAL: \$5,000
Prin. Invest. NASA Tech. Officer CASE Category
 I WOLINSKY HQ/G R COULTER 59-Life Sci, NEC

NGT44-5803 Univ Houston 8004
 TRAINING GRANT FOR CONDUCTING SUMMER FACULTY
 FELLOWSHIP PROGRAM
Period Obligations
 01/01/1984-03/31/1996 FY95: TOTAL: \$2,370,913
Prin. Invest. NASA Tech. Officer CASE Category
 R B BANNEROT HQ/A S MCGEE 49-Engr, NEC
 HQ/E T SCHWARTZ

NAGW 3623 Univ Houston 7996
 EUCRITES, HOWARDITES AND CV CHRONDRITES
Period Obligations
 05/28/1993-05/31/1996 FY95: \$53,521 TOTAL: \$86,660
Prin. Invest. NASA Tech. Officer CASE Category
 A REID HQ/J BOYCE 32-Geological Sci

NAG 9-569 University of Houston - Clear Lake 8040
 COMMUNITY COLLEGE CIRRUCLUM DEBELOPMENT FOR AERO
 SPACE OPERATIONS TECHNICIANS PHASE 1
Period Obligations
 11/19/1991-04/01/1995 FY95: TOTAL: \$49,172
Prin. Invest. NASA Tech. Officer CASE Category
 G B FREEDMAN JSC/S H GOLDSTEIN 99-Multi-Discip

NGT 00-050-875 Univ Houston 7997
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/24/1992-07/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 F HUSSAIN JSC/S GOLDSTEIN 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 9-718 University of Houston - Clear Lake 8041
COMPUTER IMAGE ANALYSIS OF ETCHED TRACKS FROM IONIZING RADIATION
Period *Obligations*
09/30/1993-11/30/1994 FY95: TOTAL: \$15,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G BLANFORD JSC/S H GOLDSTEIN 11-Astronomy

NGT 00-090-031 University of Houston - Clear Lake 8049
TRAINING PROGRAM FOR THE STUDIES IN ENERGY AND SPACE TECHNOLOGY
Period *Obligations*
05/10/1990-05/31/1996 FY95: TOTAL: \$588,427
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G SAWYER HQ/M S MARGOLIS 29-Math/Computer, NEC
W MILLER

NAG 9-731 University of Houston - Clear Lake 8042
DEVELOPMENT/EVALUATION OF TEACHER TRAINING INSTITUTE/THEMATIC SCIENCE
Period *Obligations*
05/05/1994-12/01/1995 FY95: TOTAL: \$99,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R M JONES JSC/N G ROBERTSON 99-Multi-Discip

NAG 1-1468 University of North Texas 8050
SCANNING TUNNELING MICROSCOPY STUDIES OF DIAMOND FILMS AND OPTOELECTRONIC MATERIALS - MY 1/3
Period *Obligations*
01/29/1993-11/30/1995 FY95: \$74,507 TOTAL: \$221,607
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M PEREZ LARC/J J SINGH 13-Physics

NAG 9-737 University of Houston - Clear Lake 8043
SCHEDULING IN DISTRIBUTED REAL-TIME SYSTEMS
Period *Obligations*
07/05/1994-01/30/1996 FY95: TOTAL: \$58,394
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T F LEIBFRIED JSC/D M PRUETT 22-Computer Science

NAG 5-2905 University of North Texas 8051
EMERGENCY AND CRISIS MANAGEMENT: A REMOTE SENSING APPLICATION
Period *Obligations*
03/10/1995-03/14/1996 FY95: \$113,000 TOTAL: \$113,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D NEAL GSFC/F HASLER 11-Astronomy

NAG 9-769 University of Houston - Clear Lake 8044
FLOW DIAGNOSTICS OF ARCJET WIND TUNNEL BY SPECTRAL CHARACTERIZATION OF RADIATION
Period *Obligations*
10/24/1994-08/31/1996 FY95: \$31,992 TOTAL: \$31,992
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M A ROB JSC/C SCOTT 42-Astro Engr
JSC/J CARAM

NGT 00-070-409 University of North Texas 8052
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period *Obligations*
07/18/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P B RAVEN HQ/D K RUSSELL 59-Life Sci, NEC

NAG 9-788 University of Houston - Clear Lake 8045
TRAINING/THEMATIC SCIENCE
Period *Obligations*
05/25/1995-12/31/1995 FY95: \$30,985 TOTAL: \$30,985
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B FITZMAURICE JSC/N G ROBERTSON 39-Env Sci, NEC

NAG 9-813 University of North Texas Hlth Sci.ctr at Ft.wort 8053
EFFECT OF MICROGRAVITY ON HUMAN SKIN EQUIVALENT
Period *Obligations*
08/11/1995-11/30/1996 FY95: \$115,000 TOTAL: \$115,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D DIMITRIJEVICH JSC/N PELLIS 51-Biological Sci

NAG 9-802 University of Houston - Clear Lake 8046
MODELING AND PREDICTION OF DECOMPRESSION SICKNESS
Period *Obligations*
08/02/1995-08/31/1996 FY95: \$57,115 TOTAL: \$57,115
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R S CHHIKARA JSC/M POWELL 59-Life Sci, NEC

NAG 5-2726 University of Texas - Arlington 8054
SOIL POLARIZED BIDIRECTIONAL REFLECTANCE RESEARCH
Period *Obligations*
09/29/1994-09/30/1995 FY95: \$19,368 TOTAL: \$19,368
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F C BRUHWELLER GSFC/D WEST 11-Astronomy

NCC 9-16 University of Houston - Clear Lake 8047
RESEARCH INSTITUTE FOR COMPUTING SYSTEMS
Period *Obligations*
06/09/1986-06/30/1996 FY95: \$41,002 TOTAL: \$42,186,648
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E T DICKERSON JSC/R B MACDONALD 22-Computer Science
A G HOUSTON JSC/J R GARMAN

NAGW 3091 University of Texas - Arlington 8055
OPTIMIZED INVERSION FOR GEOPHYSICAL PARAMETERS FROM REMOTE SENSING DATA VIA MODELING AND NEURAL
Period *Obligations*
05/29/1992-02/28/1995 FY95: TOTAL: \$300,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A K FUNG HQ/D E WICKLAND 39-Env Sci, NEC
HQ/A C JANETOS

NCC 9-30 University of Houston - Clear Lake 8048
RESEARCH FOR COMPUTING AND INFORMATION SYSTEMS
Period *Obligations*
08/08/1994-08/31/1996 FY95: \$2,290,757 TOTAL: \$4,404,557
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S L GERHART JSC/R T SAVELY 22-Computer Science

NAGW 3421 University of Texas - Arlington 8056
AN ADVANCED MODEL OF SOIL POLARIZED BIDIRECTIONAL REFLECTANCE
Period *Obligations*
03/09/1993-12/31/1995 FY95: \$80,000 TOTAL: \$258,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D P GIBBS HQ/K J RANSON 39-Env Sci, NEC
HQ/D E WICKLAND

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAGW 3714 University of Texas - Arlington 8057
 NASA/UTA CENTER FOR HYPERSONIC RESEARCH
Period Obligations
 08/13/1993-08/31/1996 FY95: \$230,000 TOTAL: \$430,000
Prin. Invest. NASA Tech. Officer CASE Category
 D R WILSON HQ/S WANDER 49-Engr, NEC

NAG 1-1471 University of Texas - Austin 8065
 CONTROL AND REDUCTION OF UNSTEADY PRESSURE LOADS IN
 SEPERATED SHOCK WAVE TURBULENT BOUNDARY LAYER INT.
Period Obligations
 12/18/1992-01/01/1995 FY95: TOTAL: \$79,950
Prin. Invest. NASA Tech. Officer CASE Category
 D S DOLLING LARC/W E ZORUMSKI 41-Aero Engr

NGT 00-030-245 University of Texas - Arlington 8058
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/10/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A K FUNG HQ/E LUCIER 22-Computer Science
 HQ/G ASRAR

NAG 1-1615 University of Texas - Austin 8066
 NONLINEAR EFFECTS AT HIGH FREQUENCY IN AIRCRAFT NOISE
 PROPAGATION
Period Obligations
 03/25/1994-03/31/1996 FY95: \$55,000 TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
 D T BLACKSTOCK LARC/G L MCANINCH 41-Aero Engr

NGT 00-050-844 University of Texas - Arlington 8059
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/31/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A K FUNG HQ/F C OWENS 45-Elec Engr

NAG 2-67 University of Texas - Austin 8067
 STUDY OF DENSITY AND TEMPERATURE STRUCTURE OF CLOUDS
 AROUND LOW LUMINOSITY YOUNG STARS
Period Obligations
 09/01/1980-09/30/1996 FY95: \$302,309 TOTAL: \$3,820,870
Prin. Invest. NASA Tech. Officer CASE Category
 P M HARVEY ARC/C D LANGHLIN 11-Astronomy
 ARC/H A HENDRIKS

NGT 00-050-896 University of Texas - Arlington 8060
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/14/1992-01/02/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S M YANG LARC/E PRIOR 22-Computer Science

NAG 2-420 University of Texas - Austin 8068
 HIGH RESOLUTION FAR-INFRARED STUDIES OF PRE-MAIN-
 SEQUENCE STARS WITH MOLECULAR OUTFLOWS
Period Obligations
 10/01/1986-09/30/1996 FY95: \$37,000 TOTAL: \$224,381
Prin. Invest. NASA Tech. Officer CASE Category
 N J EVANS ARC/L C HAUGHNEY 11-Astronomy

NAG 1-1121 University of Texas - Austin 8061
 MODELING THE GROWTH AND INTERACTION OF FRACTURES
Period Obligations
 03/26/1990-01/31/1996 FY95: \$89,348 TOTAL: \$327,662
Prin. Invest. NASA Tech. Officer CASE Category
 M E MEAR LARC/J C NEWMAN JR. 46-Mech Engr
 LARC/C E HARRIS

NAG 2-748 University of Texas - Austin 8069
 A HIGH SPATIAL RESOLUTION STUDY OF FAR-IR CONTINU UM
 EMISSION IN GALAXIES
Period Obligations
 12/18/1991-06/14/1996 FY95: \$71,755 TOTAL: \$273,824
Prin. Invest. NASA Tech. Officer CASE Category
 D F LESTER ARC/C D LAUGHLIN 11-Astronomy
 ARC/C M GILLESPIE JR

NAG 1-1204 University of Texas - Austin 8062
 MODEL STUDIES OF SONIC BOOM PROPAGATION THROUGH TH E
 ATMOSPHERE D
Period Obligations
 12/03/1990-03/31/1996 FY95: \$35,000 TOTAL: \$560,000
Prin. Invest. NASA Tech. Officer CASE Category
 D T BLACKSTOCK LARC/G L MCANINCH 41-Aero Engr
 A J TUCKER LARC/A W MUELLER

NAG 2-994 University of Texas - Austin 8070
 MONITORING WITH TRACKERS BASED ON SEMI-QUANTITATIV E
 MODELS
Period Obligations
 08/11/1995-08/14/1996 FY95: \$80,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 B J KUIPERS ARC/S LAU 21-Mathematics

NAG 1-1364 University of Texas - Austin 8063
 THE EFFECT OF A TYPE III AND TYPE IV SHOCK/SHOCK
 INTERACTION ON HEAT TRANSFER IN THE STAGNATIO REG
Period Obligations
 02/05/1992-05/31/1995 FY95: TOTAL: \$107,766
Prin. Invest. NASA Tech. Officer CASE Category
 D E WILSON LARC/R J NOWAK 46-Mech Engr
 LARC/A R WIETING

NAG 2-6002 University of Texas - Austin 8071
 SCIENCE IN THE STRATOSPHERE - A CUEST TEACHER PROG RAM
 FOR THE KAO
Period Obligations
 08/22/1994-09/30/1995 FY95: TOTAL: \$6,000
Prin. Invest. NASA Tech. Officer CASE Category
 D F LESTER ARC/C D LAUGHLIN 11-Astronomy
 ARC/C M GILLESPIEJR.

NAG 1-1459 University of Texas - Austin 8064
 ADAPTIVE-GRID ALGORITHM FOR PRISMATIC ELEMENTS
Period Obligations
 12/04/1992-12/31/1995 FY95: \$31,996 TOTAL: \$90,010
Prin. Invest. NASA Tech. Officer CASE Category
 J KALLINDERIS LARC/R E SMITH 21-Mathematics
 LARC/J J LAMBIOTTE

NAG 3-864 University of Texas - Austin 8072
 TURBULENCE MODELING FOR THE SIMULATION OF TRANSITI ON
 IN WALL SHEAR FLOWS
Period Obligations
 01/22/1988-02/28/1995 FY95: TOTAL: \$358,908
Prin. Invest. NASA Tech. Officer CASE Category
 M E CRAWFORD LERC/F F SIMON 49-Engr, NEC

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 3-1382 University of Texas - Austin 8073
EXPERIMENTS AND THEORY ON INSTABILITY IN SURFACE-TENSION-DRIVEN BENARD CONVECTION (MARANGONI CONVEC
Period Obligations
12/02/1992-11/30/1995 FY95: \$100,000 TOTAL: \$300,000
Prin. Invest. NASA Tech. Officer CASE Category
H L SWINNEY LERC/J A SALZMAN 19-Phys Sci, NEC

NAG 3-1589 University of Texas - Austin 8074
ADVANCED STUDIES OF ELECTROMAGNETICS SCATTERING
Period Obligations
04/18/1994-10/31/1995 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
H LING LERC/J A ZAMAN 45-Elec Engr

NAG 5-1603 University of Texas - Austin 8075
HST - GTO
Period Obligations
05/20/1991-10/31/1995 FY95: \$669,908 TOTAL: \$6,096,772
Prin. Invest. NASA Tech. Officer CASE Category
W H JEFFERYS GSFC/S SOBIESKI 11-Astronomy

NAG 5-1616 University of Texas - Austin 8076
STELLAR SPECTROSCOPY AND THE HUBBLE SPACE TELESCOPE
Period Obligations
05/24/1991-10/31/1995 FY95: \$109,000 TOTAL: \$484,054
Prin. Invest. NASA Tech. Officer CASE Category
D L LAMBERT GSFC/S SOBIESKI 11-Astronomy

NAG 5-1855 University of Texas - Austin 8077
HUBBLE SPACE TELESCOPE (HST) GUARANTEED TIME OBSERVATION
Period Obligations
01/02/1992-01/14/1996 FY95: \$105,000 TOTAL: \$338,000
Prin. Invest. NASA Tech. Officer CASE Category
L M TRAFTON GSFC/A SMITH 11-Astronomy

NAG 5-1929 University of Texas - Austin 8078
ESTABLISHMENT OF A FLINN SITE IN WEST TEXAS
Period Obligations
03/04/1992-03/14/1996 FY95: \$15,000 TOTAL: \$124,998
Prin. Invest. NASA Tech. Officer CASE Category
C R WILSON GSFC/B G BILLS 32-Geological Sci

NAG 5-1936 University of Texas - Austin 8079
TOWARD 10 (9) GPS GEODESY: VECTOR BASELINES, EARTH ROTATION AND REFERENCE FRAMES
Period Obligations
03/12/1992-03/14/1996 FY95: \$110,000 TOTAL: \$415,000
Prin. Invest. NASA Tech. Officer CASE Category
R E SCHUTZ GSFC/B G BILLS 32-Geological Sci

NAG 5-1939 University of Texas - Austin 8080
STUDY OF CRUSTAL DEFORMATION IN THE INDIAN-EURASIAN COLLISION ZONE
Period Obligations
03/12/1992-03/14/1996 FY95: \$94,000 TOTAL: \$274,000
Prin. Invest. NASA Tech. Officer CASE Category
B TAPLEY GSFC/B G BILLS 32-Geological Sci

NAG 5-2139 University of Texas - Austin 8081
SYNOPTIC OBSERVATIONS OF GK PERSEI
Period Obligations
11/09/1992-03/31/1995 FY95: TOTAL: \$19,022
Prin. Invest. NASA Tech. Officer CASE Category
J C WHEELER GSFC/D WEST 11-Astronomy

NAG 5-2146 University of Texas - Austin 8082
LAGEOS SATELLITE LASER RANGING DATA ANALYSIS
Period Obligations
12/14/1992-12/14/1995 FY95: \$103,983 TOTAL: \$325,383
Prin. Invest. NASA Tech. Officer CASE Category
R J EANES GSFC/J J DEGNAN 19-Phys Sci, NEC
M M WATKINS

NAG 5-2217 University of Texas - Austin 8083
MUSCULOSKELETAL MODELS AND COMPUTATIONAL ALGORITHMS FOR THE NUMERICAL SIMULATION OF HUMAN MOTION...
Period Obligations
02/18/1993-11/30/1996 FY95: \$29,987 TOTAL: \$89,961
Prin. Invest. NASA Tech. Officer CASE Category
M G PANDY GSFC/J R FISCHER 22-Computer Science

NAG 5-2484 University of Texas - Austin 8084
BORN ABUNDANCES IN A AND B TYPE STARS
Period Obligations
01/29/1994-01/31/1996 FY95: TOTAL: \$29,051
Prin. Invest. NASA Tech. Officer CASE Category
D L LAMBERT GSFC/D WEST 11-Astronomy

NAG 5-2497 University of Texas - Austin 8085
DENSE LINEAR ALGEBRA ALGORITHMS BASED ON PARALLEL BLAS
Period Obligations
02/02/1994-02/14/1996 FY95: \$30,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
R A VAN DE GEIJN GSFC/J R FISHER 22-Computer Science

NAG 5-2511 University of Texas - Austin 8086
APPLICATION OF MASSIVELY PARALLEL PROCESSING TECHNIQUES FOR LEAST SQUARES PROBLEMS IN SATELLITE...
Period Obligations
02/08/1994-02/14/1996 FY95: \$30,000 TOTAL: \$60,000
Prin. Invest. NASA Tech. Officer CASE Category
B E SCHUTZ GSFC/J R FISHER 22-Computer Science

NAG 5-2773 University of Texas - Austin 8087
SELECTED DYNAMO PROBLEMS IN ASTROPHYSICS
Period Obligations
10/26/1994-08/31/1996 FY95: \$133,000 TOTAL: \$133,000
Prin. Invest. NASA Tech. Officer CASE Category
E T VISHNIAC GSFC/D WEST 11-Astronomy

NAG 5-2785 University of Texas - Austin 8088
THE EVOLUTION OF THE INTERGALACTIC MEDIUM AND THE FORMATION OF GALAXIES AND LARGE-SCALE STRUCTURE...
Period Obligations
11/14/1994-12/31/1995 FY95: \$89,500 TOTAL: \$89,500
Prin. Invest. NASA Tech. Officer CASE Category
P R SHAPIRO GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 5-2818 University of Texas - Austin 8089
 ASTEROSEISMOLOGY OF WHITE DWARF STARS.
Period Obligations
 12/08/1994-11/30/1995 FY95: \$79,838 TOTAL: \$79,838
Prin. Invest. NASA Tech. Officer CASE Category
 D E WINGET GSFC/D WEST 11-Astronomy

NAG 9-463 University of Texas - Austin 8097
 FRACTURE CONTROL ANALYSIS OF SPACECRAFT STRUCTURES
 AND MECHANICAL SYSTEMS
Period Obligations
 09/01/1990-10/01/1993 FY95: TOTAL: \$85,477
Prin. Invest. NASA Tech. Officer CASE Category
 E BECKER JSC/R G FORMAN 19-Phys Sci, NEC

NAG 5-2888 University of Texas - Austin 8090
 COMBINE: COMBUSTION IN ASTROPHYSICS
Period Obligations
 02/09/1995-02/14/1997 FY95: \$420,000 TOTAL: \$420,000
Prin. Invest. NASA Tech. Officer CASE Category
 J C WHEELER GSFC/D WEST 11-Astronomy

NAG 9-661 University of Texas - Austin 8098
 DEV AND IMPLEMENTATION OF A FRAGMENTATION MODEL FOR
 HYPERVELOCITY
Period Obligations
 02/09/1993-09/30/1994 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 C YEW JSC/E CHRISTIANSEN 47-Materials Engr

NAG 5-2954 University of Texas - Austin 8091
 DETECTING SMALL-SCALE TOPOGRAPHIC CHANGES AND RELICIT
 GEOMORPHIC FEATURES ON BARRIER ISLANDS ETC
Period Obligations
 06/01/1995-05/31/1996 FY95: \$85,000 TOTAL: \$85,000
Prin. Invest. NASA Tech. Officer CASE Category
 J C GIBEAUT GSFC/H V FREY 19-Phys Sci, NEC

NAG 9-666 University of Texas - Austin 8099
 ANIMATED COMPUTER VISION TECHNOLOGY FOR A SEMI-AUT
 ONOMOUS ROVER
Period Obligations
 02/22/1993-12/31/1994 FY95: TOTAL: \$59,507
Prin. Invest. NASA Tech. Officer CASE Category
 A C BOVIK JSC/K BAKER 45-Elec Engr

NAG 5-3079 University of Texas - Austin 8092
 SPECTRAL AND TEMPORAL PROPERTIES OF GALACTIC BLACK HOLE
 CANDIDATES
Period Obligations
 09/22/1995-09/30/1996 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 J C WHEELER GSFC/J P NORRIS
 GSFC/N WHITE 11-Astronomy

NAG 9-670 University of Texas - Austin 8100
 MATH MODEL VERIFICATION AND UPDATING BASED ON MEASUR
 ED EXCITATIONS AND REACTIONS
Period Obligations
 02/25/1993-09/01/1995 FY95: TOTAL: \$53,000
Prin. Invest. NASA Tech. Officer CASE Category
 R R CRAIG JSC/D A HAMILTON
 JSC/N E TENGLER 41-Aero Engr

NAG 8-1090 University of Texas - Austin 8093
 ATOM MEASUREMENT
Period Obligations
 09/07/1994-09/06/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 D J HEINZEN MSFC/D A NOEVER 19-Phys Sci, NEC

NAG 9-671 University of Texas - Austin 8101
 MUSCULOSKELETAL MODELING/OPTIMAL CNTRL OF THE HUMAN
 UPPER EXTREMITY
Period Obligations
 03/05/1993-06/01/1994 FY95: TOTAL: \$64,876
Prin. Invest. NASA Tech. Officer CASE Category
 M G PANDY JSC/G K KLUTE
 R E BARR 49-Engr, NEC

NAG 8-1130 University of Texas - Austin 8094
 SUBSTRUCTURE SYSTEM IDENTIFICATION FOR FINITE ELEMENT
 MODEL UPDATING
Period Obligations
 04/19/1995-04/18/1996 FY95: \$50,333 TOTAL: \$50,333
Prin. Invest. NASA Tech. Officer CASE Category
 R R CRAIG JR. MSFC/M L TINKER
 MSFC/P S BOOKOUT 42-Astro Engr

NAG 9-675 University of Texas - Austin 8102
 SMOOTH PARTICLE HYDRODYNAMICS MODELING FOR ORBITAL
 SHIELD DESIGN
Period Obligations
 04/01/1993-12/01/1994 FY95: TOTAL: \$59,966
Prin. Invest. NASA Tech. Officer CASE Category
 E P FAHRENTHOLD JSC/E L CHRISTIANSEN
 C H YEW 41-Aero Engr

NAG 9-397 University of Texas - Austin 8095
 RESEARCH OF BIOSYNTHESIS OF CELLULOSE UNDER
 MICROGRAVITY CONDITIONS
Period Obligations
 09/01/1989-01/01/1994 FY95: TOTAL: \$395,339
Prin. Invest. NASA Tech. Officer CASE Category
 R M BROWN JSC/G SPAULDING
 JSC/C F SAMS 51-Biological Sci

NAG 9-679 University of Texas - Austin 8103
 COOLING OF AIRLOCKS AND HYPERBARIC TREATMENT FACILIT
 IES DURING RAPID PRESSURIZATION
Period Obligations
 03/24/1993-06/01/1995 FY95: TOTAL: \$60,738
Prin. Invest. NASA Tech. Officer CASE Category
 K BALL JSC/J MARMOLEJO
 T BERGMAN 46-Mech Engr

NAG 9-411 University of Texas - Austin 8096
 ADVANCED DEVELOPMENT FOR SPACE ROBOTICS
Period Obligations
 02/01/1990-08/01/1995 FY95: \$300,000 TOTAL: \$1,410,000
Prin. Invest. NASA Tech. Officer CASE Category
 D TESAR JSC/J REUTER 42-Astro Engr

NAG 9-744 University of Texas - Austin 8104
 OBLIQUE HYPERVELOCITY IMPACT SIMULATION FOR MULTI-LAYER
 ORBITAL DEBRIS SHIELDING
Period Obligations
 06/22/1994-02/01/1996 FY95: TOTAL: \$59,740
Prin. Invest. NASA Tech. Officer CASE Category
 E P FAHRENTHOLD JSC/E CHRISTIANSEN 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 9-745 University of Texas - Austin 8105
WIDE AREA NETWORK INSTANTIATION DEPLOYMENT AND MANA
GEMENT OF AUTONOMOUS KNOWLEDGE ROBOTS
Period Obligations
06/10/1994-09/30/1995 FY95: \$55,000 TOTAL: \$105,000
Prin. Invest. NASA Tech. Officer CASE Category
C H WARLICK JSC/M E RORVIG 22-Computer Science
C D STOUT

NAG 9-840 University of Texas - Austin 8113
COMPUTATIONAL APPROACH TO MODELING RAREFIED AND CONT
INUUM FLOW ABOUT AEROSPACE VEHICLES
Period Obligations
08/15/1995-08/31/1996 FY95: \$66,625 TOTAL: \$66,625
Prin. Invest. NASA Tech. Officer CASE Category
D B GOLDSTEIN JSC/F L LUMPKIN 13-Physics
P L VARGHESE

NAG 9-750 University of Texas - Austin 8106
DEMO OF SKY GPS RECEIVER ON WAKE SHIELD FACILITY
Period Obligations
08/04/1994-10/31/1995 FY95: TOTAL: \$46,565
Prin. Invest. NASA Tech. Officer CASE Category
B E SCHUTZ JSC/R CARPENTER 41-Aero Engr
P A ABUSALI

NAG 9-841 University of Texas - Austin 8114
DESIGN OF AUTOMATIC CONTROL FOR HUMAN/LCG THERMAL
INTERACTION
Period Obligations
09/25/1995-09/30/1998 FY95: \$42,500 TOTAL: \$42,500
Prin. Invest. NASA Tech. Officer CASE Category
K R DILLER JSC/C LIN 46-Mech Engr

NAG 9-804 University of Texas - Austin 8107
NEUROMECHANICAL POSTUAL CONTROL SYNERGIES SUPPORTI NG
VOLUNTARY MOVEMENT
Period Obligations
08/17/1995-08/31/1996 FY95: \$26,863 TOTAL: \$26,863
Prin. Invest. NASA Tech. Officer CASE Category
L D ABRAHAM JSC/J BLOOMBERG 59-Life Sci, NEC

NAGW 1477 University of Texas - Austin 8115
A CONTINUED PROGRAM OF PLANETARY STUDY AT THE UNIV
Period Obligations
12/12/1988-12/31/1994 FY95: TOTAL: \$2,017,997
Prin. Invest. NASA Tech. Officer CASE Category
H J SMITH HQ/J H RAHE 11-Astronomy

NAG 9-805 University of Texas - Austin 8108
MUSCULOSKELETAL MODELING OF HUMAN UPPER EXTREMITY
PERFORMANCE
Period Obligations
08/16/1995-08/31/1996 FY95: \$59,385 TOTAL: \$59,385
Prin. Invest. NASA Tech. Officer CASE Category
R E BARR JSC/K DEMEL 51-Biological Sci
L D ABRAHAM
M G PANDY

NAGW 1519 University of Texas - Austin 8116
CELLULAR BASIS OF GRAVITY AND LIGHT-INDUCED GEOTROPISM
Period Obligations
11/21/1988-10/31/1995 FY95: \$80,000 TOTAL: \$452,673
Prin. Invest. NASA Tech. Officer CASE Category
S J ROUX HQ/T W HALSTEAD 51-Biological Sci

NAG 9-808 University of Texas - Austin 8109
COUPLING OF SPH AND FINITE ELEMENT CODES FOR MULTI L
AYER ORBITAL DEBRIS SHIELD DESIGN
Period Obligations
08/10/1995-08/31/1996 FY95: \$57,800 TOTAL: \$57,800
Prin. Invest. NASA Tech. Officer CASE Category
E P FAHRETHOLD JSC/E CHRISTIANSEN 19-Phys Sci, NEC

NAGW 1959 University of Texas - Austin 8117
THE DETERMINATION OF CRUSTAL MOTIONS USING SATELLI TE
LASER RANGING TO LAGEOS-II AND LAGEOS-I
Period Obligations
05/29/1990-08/30/1995 FY95: TOTAL: \$827,100
Prin. Invest. NASA Tech. Officer CASE Category
B D TAPLEY HQ/M BALTUCK 31-Atmos Sci

NAG 9-809 University of Texas - Austin 8110
ADVANCED DEVELOPMENT ON FAULT TOLERANCE TECH
Period Obligations
08/21/1995-07/31/1998 FY95: \$264,000 TOTAL: \$264,000
Prin. Invest. NASA Tech. Officer CASE Category
D TESAR JSC/J T CHLADK 42-Astro Engr

NAGW 2132 University of Texas - Austin 8118
PRECISION ORBIT DETERMINATION AND CALIBRATION SUPP ORT
FOR U.S. WORLD OCEAN CIRCULATION EXPERIMENT
Period Obligations
09/07/1990-08/31/1996 FY95: \$110,000 TOTAL: \$1,000,750
Prin. Invest. NASA Tech. Officer CASE Category
B TAPLEY HQ/G S LAGERLOEF 33-Oceanography
HQ/W S WILSON

NAG 9-828 University of Texas - Austin 8111
SCALABLE DISTRIBUTED APPROACH TO MOBILE ROBOT VISI ON
Period Obligations
08/16/1995-08/31/1996 FY95: \$65,712 TOTAL: \$65,712
Prin. Invest. NASA Tech. Officer CASE Category
B KUIPERS JSC/T PENDLETON 22-Computer Science

NAGW 2288 University of Texas - Austin 8119
PHYSICAL OBSERVATIONS OF COMETS THEIR COMPOSITION
ORIGIN AND EVOLUTION
Period Obligations
06/13/1991-06/30/1994 FY95: TOTAL: \$223,315
Prin. Invest. NASA Tech. Officer CASE Category
A L COCHRAN HQ/J RAHE 11-Astronomy

NAG 9-829 University of Texas - Austin 8112
SUBSTRUCTURE SYSTEM IDENTIFICATION AND MATH UPDATIN
G
Period Obligations
09/22/1995-09/30/1998 FY95: \$60,779 TOTAL: \$60,779
Prin. Invest. NASA Tech. Officer CASE Category
R R CRAIG JR. JSC/N TENGLER 49-Engr, NEC

NAGW 2302 University of Texas - Austin 8120
A SEARCH FOR OTHER SOLAR SYSTEMS
Period Obligations
07/09/1991-10/31/1994 FY95: TOTAL: \$135,086
Prin. Invest. NASA Tech. Officer CASE Category
W D COCHRAN HQ/J A NUTH 19-Phys Sci, NEC

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAGW 2314 University of Texas - Austin 8121
 NAGW-2314/UNIV TEXAS @ AUSTIN/GROUND BASED STUDIES OF THE OUTER PLANETS
Period *Obligations*
 06/13/1991-07/31/1997 FY95: \$90,000 TOTAL: \$368,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L M TRAFTON HQ/J H RAHE 11-Astronomy

NAGW 2323 University of Texas - Austin 8122
 A MULTI-WAVELENGTH STUDY OF PROTOSTARS AND DISKS
Period *Obligations*
 07/09/1991-10/31/1994 FY95: TOTAL: \$180,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P M HARVEY HQ/J A NUTH 19-Phys Sci, NEC
 N J EVANS

NAGW 2399 University of Texas - Austin 8123
 THE EVOLUTION OF THE INTERGALACTIC MEDIUM AND THE FORMATION OF GALAXIES AND LARGE-SCALE STRUCTURE
Period *Obligations*
 05/09/1991-12/31/1994 FY95: TOTAL: \$300,912
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P R SHAPIRO HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2418 University of Texas - Austin 8124
 SELECTED DYNAMO PROBLEMS IN ASTROPHYSICS
Period *Obligations*
 08/02/1991-12/31/1995 FY95: \$6,000 TOTAL: \$426,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E T VISHNIAC HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 2465 University of Texas - Austin 8125
 RADIAL VELOCITY DETECTION OF EXTRA-SOLAR PLANETARY SYSTEMS
Period *Obligations*
 06/03/1991-12/31/1993 FY95: TOTAL: \$282,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W D COCHRAN HQ/J RAHE 11-Astronomy

NAGW 2590 University of Texas - Austin 8126
 NAGW-2590/UNIV TEXAS @ AUSTIN/COLLISIONLESS DYNAMICS OF MAGNETOSPHERIC SUBSTORM PHENOMENA
Period *Obligations*
 07/16/1991-05/31/1995 FY95: TOTAL: \$223,776
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W HORTON HQ/M M MELLOTT 13-Physics
 HQ/J D BOHLIN

NAGW 2615 University of Texas - Austin 8127
 EARTH SYSTEM DYNAMICS; THE DETERMINATION AND INTERPRETATION OF THE GLOBAL ANGULAR MOMENTUM BUDGET
Period *Obligations*
 07/24/1991-06/30/1996 FY95: \$1,319,000 TOTAL: \$4,538,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B TAPLEY HQ/A J ANDERSON 39-Env Sci, NEC
 HQ/W S WILSON

NAGW 2815 University of Texas - Austin 8128
 DISTURBANCE, SPATIAL HETEROGENEITY, AND BIOTIC DIVERSITY IN ARID AUSTRALIA
Period *Obligations*
 01/17/1992-05/31/1995 FY95: \$99,518 TOTAL: \$300,076
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E R PIANKA HQ/J D RUMMEL 54-Env Biology

NAGW 2905 University of Texas - Austin 8129
 THEORETICAL INFRARED SPECTRA OF SUPERNOVAE
Period *Obligations*
 02/20/1992-11/30/1994 FY95: TOTAL: \$183,560
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J C WHEELER HQ/L J CAROFF 11-Astronomy

NAGW 2941 University of Texas - Austin 8130
 THE STUDY OF EFFECTS OF THE VARIATIONS IN THE EARTH'S GRAVITY FIELD ON GEODETIC SATELLITES
Period *Obligations*
 02/28/1992-09/30/1995 FY95: TOTAL: \$195,775
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C K SHUM HQ/R E MURPHY 13-Physics
 HQ/D M BUTLER

NAGW 2970 University of Texas - Austin 8131
 INVESTIGATING RELATIVITY PARAMETERS WITH LUNAR LASER RANGING DATA
Period *Obligations*
 03/12/1992-05/31/1996 FY95: TOTAL: \$298,770
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P J SHELUS HQ/R STACHNIK 41-Aero Engr

NAGW 2975 University of Texas - Austin 8132
 BLACK HOLES IN BINARY STELLAR SYSTEMS
Period *Obligations*
 03/06/1992-04/30/1995 FY95: \$30,000 TOTAL: \$90,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J WHEELER HQ/L J KALUZIENSKI 11-Astronomy
 HQ/A N BUNNER

NAGW 3111 University of Texas - Austin 8133
 ASTROMETRIC SUPPORT FOR THE REDUCTION OF HIPPARCOS COORDINATE SYSTEM DATA
Period *Obligations*
 06/23/1992-06/30/1996 FY95: \$90,099 TOTAL: \$229,480
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P D HEMENWAY HQ/R V STACHNIK 11-Astronomy
 HQ

NAGW 3119 University of Texas - Austin 8134
 NAGW-3119/UNIV TEXAS/DETERMINATION OF THE EARTH'S GRAVITATIONAL POTENTIAL MODEL
Period *Obligations*
 06/26/1992-06/30/1994 FY95: TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B D TAPLEY HQ/R E MURPHY 32-Geological Sci
 HQ/D M BUTLER

NAGW 3131 University of Texas - Austin 8135
 NAGW-3131/UNIV TEXAS/INVESTIGATION OF HIGH FREQUENCY VARIATIONS IN EARTH ORIENTATION AND ROTATION
Period *Obligations*
 07/02/1991-12/31/1994 FY95: TOTAL: \$184,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C R WILSON HQ/R E MURPHY 39-Env Sci, NEC
 HQ/D M BUTLER

NAGW 3306 University of Texas - Austin 8136
 NAGW-3306/UNIV TEXAS @ AUSTIN/MONITORING OF THE MARTIAN H₂O ABUNDANCE IN 1992-93
Period *Obligations*
 12/31/1992-12/31/1994 FY95: TOTAL: \$29,211
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E S BARKER HQ/H C BRINTON 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAGW 3505	University of Texas - Austin	8137			
NAGW-2505/UNIV TEXAS AUSTIN/VENUSIAN GRAVITATIONAL FIELD AND TOPOGRAPH USING PIONEER VENUS ORBITER					
<i>Period</i>		<i>Obligations</i>			
04/16/1993-09/30/1995	FY95:	TOTAL: \$59,500			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
C K SHUM	HQ/J T BERGSTRALH	32-Geological Sci			
NAGW 3743	University of Texas - Austin	8138			
NASA SAR AUSTRALIAN OVERFLIGHT PROJECT					
<i>Period</i>		<i>Obligations</i>			
09/17/1993-06/30/1994	FY95:	TOTAL: \$27,267			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
M M CRAWFORD	HQ/D E WICKLAND	39-Env Sci, NEC			
B TAPLEY	HQ/A C JANETOS				
NAGW 3781	University of Texas - Austin	8139			
CREW SELECTION AND TRAINING CROSS-CULTURAL DIFFERENCES AS DETERMINANTS OF TEAM BEHAVIOR					
<i>Period</i>		<i>Obligations</i>			
09/29/1993-02/28/1995	FY95:	TOTAL: \$20,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
R L HELMREICH	HQ/J H STOKLOSA	59-Life Sci, NEC			
NAGW 3971	University of Texas - Austin	8140			
PHYSICAL OBSERVATIONS OF COMETRAY COMAE					
<i>Period</i>		<i>Obligations</i>			
05/14/1994-03/31/1996	FY95: \$65,070	TOTAL: \$127,472			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
A COCHRAN	HQ/J H RAHE	11-Astronomy			
NAGW 3990	University of Texas - Austin	8141			
RADIAL VELOCITY DETECTION OF EXTRA SOLAR PLANETARY SYSTEMS					
<i>Period</i>		<i>Obligations</i>			
05/13/1994-02/29/1996	FY95: \$139,202	TOTAL: \$278,402			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
W COCHRAN	HQ/J H RAHE	11-Astronomy			
NAGW 4012	University of Texas - Austin	8142			
CCD ASTROMETRY OF FAINT SOLAR SYSTEM OBJECTS					
<i>Period</i>		<i>Obligations</i>			
05/23/1994-02/28/1995	FY95:	TOTAL: \$23,998			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
A WHIPPLE	HQ/J H RAHE	11-Astronomy			
NAGW 4027	University of Texas - Austin	8143			
DIFFRACTION GRATING FOR COMPACT IR SPECTROMETERS IN SPACE					
<i>Period</i>		<i>Obligations</i>			
05/24/1994-04/30/1995	FY95:	TOTAL: \$66,899			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
D JAFFE	HQ/L J CAROFF	11-Astronomy			
NAGW 4076	University of Texas - Austin	8144			
CONTEMPORARY PROBLEMS IN GLOBAL GEODYNAMICS					
<i>Period</i>		<i>Obligations</i>			
07/12/1994-05/31/1995	FY95:	TOTAL: \$39,983			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
B TAPLEY	HQ/M BALTUCK	32-Geological Sci			
NAGW 4087	University of Texas - Austin	8145			
REMOTE SENSING SOIL MOISTURE USING FOUR DIMENSIONAL DATA ASSIMILATION					
<i>Period</i>		<i>Obligations</i>			
07/26/1994-06/30/1997	FY95:	TOTAL: \$53,853			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
J S FAMIGLIETTI	HQ/M Y WEI	39-Env Sci, NEC			
	HQ/J S THEON				
NAGW 4247	University of Texas - Austin	8146			
MULTIRESOLUTION INFORMATION ARCHIVAL AND ANALYSIS SYSTEM					
<i>Period</i>		<i>Obligations</i>			
02/10/1995-01/31/1996	FY95: \$270,833	TOTAL: \$270,833			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
D FUSSELL	HQ/R S MCGINNIS	22-Computer Science			
NAGW 4249	University of Texas - Austin	8147			
ADVANCED DESIGN PROGRAM					
<i>Period</i>		<i>Obligations</i>			
01/23/1995-12/31/1995	FY95: \$17,350	TOTAL: \$17,350			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
W FOWLER	HQ/A S MCGEE	49-Engr, NEC			
NAGW 4277	University of Texas - Austin	8148			
INVESTIGATING RELATIVITY PARAMETERS WITH LUNAR LASER RANGING DATA					
<i>Period</i>		<i>Obligations</i>			
02/13/1995-12/31/1996	FY95: \$39,000	TOTAL: \$39,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
P J SHELUS	HQ/R V STACHNIK	11-Astronomy			
	HQ/E J WEILER				
NAGW 4283	University of Texas - Austin	8149			
MCDONALD OBSERVATORY OPERATIONS SUPPORT					
<i>Period</i>		<i>Obligations</i>			
02/13/1995-12/31/1996	FY95: \$150,000	TOTAL: \$150,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
F N BASH	HQ/J RAHE	11-Astronomy			
NAGW 4350	University of Texas - Austin	8150			
ADVANCE DESIGN PROGRAM					
<i>Period</i>		<i>Obligations</i>			
03/15/1995-08/03/1996	FY95: \$17,350	TOTAL: \$17,350			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
S NICHOLS	HQ/A S MCGEE	49-Engr, NEC			
	HQ/G JOHNSTON				
NAGW 4561	University of Texas - Austin	8151			
CREW CULTURE SELECTION TRAINING AND PERFORMANCE					
<i>Period</i>		<i>Obligations</i>			
05/31/1995-05/31/1996	FY95: \$100,000	TOTAL: \$100,000			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
R L HELMREICH	HQ/V SCHNEIDER	59-Life Sci, NEC			
	HQ/A FREY				
NAGW 4696	University of Texas - Austin	8152			
HUMAN DIMENSIONS OF DEFORESTATION AND REGROWTH IN THE BRAZILIAN AMAZON: INTEGRATING DATA FROM SATELLITE					
<i>Period</i>		<i>Obligations</i>			
08/10/1995-05/15/1996	FY95: \$116,195	TOTAL: \$116,195			
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>			
C WOOD	HQ/N MAYNARD	79-Soc Sci, NEC			
T PULLUM	HQ/R C HARRISS				
S SANDERSON					

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAGW 4727 University of Texas - Austin 8153
 SPACE DISTRIBUTION OF A AND F STARS IN THE SOLAR N
 EIGHBORHOOD
Period Obligations
 08/28/1995-08/31/1997 FY95: \$34,135 TOTAL: \$34,135
Prin. Invest. NASA Tech. Officer CASE Category
 P D HEMENWAY HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NCC 3-273 University of Texas - Austin 8161
 ADVANCED STUDIES OF ELECTROMAGNETIC SCATTERING
Period Obligations
 06/23/1992-04/15/1994 FY95: TOTAL: \$58,673
Prin. Invest. NASA Tech. Officer CASE Category
 H LING LERC/A J ZAMAN 45-Elec Engr

NAG10-143 University of Texas - Austin 8154
 MICROBIAL CELLULOSE ASSEMBLY IN MICROGRAVITY
Period Obligations
 08/15/1994-08/14/1996 FY95: TOTAL: \$99,835
Prin. Invest. NASA Tech. Officer CASE Category
 R M BROWN JR. KSC/W M KNOTT 51-Biological Sci

NCC 9-22 University of Texas - Austin 8162
 DEVELOPEMENT IMPLEMENTATION OF A NASA BASED TECH
 COMMERCIALIZATION
Period Obligations
 02/04/1993-09/30/1995 FY95: \$452,817 TOTAL: \$1,637,817
Prin. Invest. NASA Tech. Officer CASE Category
 G KOZMETSKY JSC/W J HUFFSTETLER 99-Multi-Discip

NAS 3-26403 University of Texas - Austin 8155
 LAND-MOBILE-SATELLITE MEASUREMENTS IN CENTRAL MARY LAND
 AND ALASKA USING ACTS: PASSIVE ANTENNA TRACKIN
Period Obligations
 04/15/1993-01/15/1995 FY95: TOTAL: \$83,874
Prin. Invest. NASA Tech. Officer CASE Category
 W J VOGEL LERC/R J GUNDERMAN 99-Multi-Discip

NCC 9-35 University of Texas - Austin 8163
 WAKESHIELD WSF-02 GPS EXPERIMENT
Period Obligations
 09/12/1994-09/01/1995 FY95: TOTAL: \$14,720
Prin. Invest. NASA Tech. Officer CASE Category
 B E SCHULTZ JSC/J LEDIT 41-Aero Engr
 P ABUSALI

NAS 5-30942 University of Texas - Austin 8156
 MANAGEMENT AND OPERATION OF THE MCDONALD LASER
 RANGING STATION
Period Obligations
 03/01/1991-02/28/1996 FY95: \$415,000 TOTAL: \$2,355,182
Prin. Invest. NASA Tech. Officer CASE Category
 P J SHELUS GSFC/J F MCGARRY 32-Geological Sci

NGT 00-030-001 University of Texas - Austin 8164
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/03/1990-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 V NUTH HQ/G ASRAR 39-Env Sci, NEC

NAS 5-33021 University of Texas - Austin 8157
 EOS INTERDISCIPLINARY STUDY FOR THE GEODYNAMICS LASER
Period Obligations
 12/12/1989-12/31/1995 FY95: \$365,000 TOTAL: \$1,015,200
Prin. Invest. NASA Tech. Officer CASE Category
 B SCHUTZ GSFC/G SOFFE 39-Env Sci, NEC

NGT 00-030-129 University of Texas - Austin 8165
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/09/1992-08/31/1995 FY95: \$21,615 TOTAL: \$65,615
Prin. Invest. NASA Tech. Officer CASE Category
 A SLUYTER HQ/G ASRAR 39-Env Sci, NEC
 HQ/G M BUTLER

NCC 2-286 University of Texas - Austin 8158
 CREW SELECTION, TRAINING, AND PERFORMANCE
Period Obligations
 11/01/1987-12/31/1994 FY95: TOTAL: \$2,100,726
Prin. Invest. NASA Tech. Officer CASE Category
 R L HELMREICH ARC/B G KANKI 62-Social Aspects
 ARC/T R CHIDESTER

NGT 00-030-158 University of Texas - Austin 8166
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/09/1992-08/31/1995 FY95: \$2,362 TOTAL: \$68,362
Prin. Invest. NASA Tech. Officer CASE Category
 C PARMESEAN HQ/G ASRAR 39-Env Sci, NEC
 HQ/D E WICKLAND

NCC 2-760 University of Texas - Austin 8159
 SELF-CALIBRATING MODELS FOR DYNAMIC MONITORING AND
 DIAGNOSIS
Period Obligations
 05/20/1992-12/31/1995 FY95: \$80,714 TOTAL: \$611,394
Prin. Invest. NASA Tech. Officer CASE Category
 B J KUIPERS ARC/S LAU 22-Computer Science
 ARC/D E THOMPSON

NGT 00-030-194 University of Texas - Austin 8167
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/26/1993-08/31/1996 FY95: \$47,061 TOTAL: \$69,061
Prin. Invest. NASA Tech. Officer CASE Category
 K W BUTZER HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NCC 2-787 University of Texas - Austin 8160
 DEVELOPMENT AND IMPLEMENTATION OF NASA TECHNOLOGY
 COMMERCIALIZATION FIELD CENTERS (NTCC)
Period Obligations
 04/21/1993-12/14/1995 FY95: \$1,180,000 TOTAL: \$2,569,500
Prin. Invest. NASA Tech. Officer CASE Category
 G KOZMETSKY ARC/C S HAYWARD 99-Multi-Discip
 ARC/D H BROCKER

NGT 00-040-003 University of Texas - Austin 8168
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
 10/10/1989-02/28/1996 FY95: \$405,000 TOTAL: \$2,701,580
Prin. Invest. NASA Tech. Officer CASE Category
 B D TAPLEY HQ/E T SCHWARTZ 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NGT 00-050-594 University of Texas - Austin 8169
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/05/1990-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R F SIMMONS HQ/F C OWENS 22-Computer Science

NGT 00-051-138 University of Texas - Austin 8178
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/29/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C SEDAN HQ/D HOLLAND 11-Astronomy

NGT 00-050-659 University of Texas - Austin 8170
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/13/1990-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G A SHIELDS HQ/F C OWENS 11-Astronomy

NGT 00-051-151 University of Texas - Austin 8179
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/03/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 H L SWINNEY HQ/B CARPENTER 13-Physics

NGT 00-050-732 University of Texas - Austin 8171
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/19/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R MOONEY HQ/F C OWENS 22-Computer Science

NGT 00-051-332 University of Texas - Austin 8180
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/27/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R MOONEY HQ/D HOLLAND 22-Computer Science

NGT 00-050-849 University of Texas - Austin 8172
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/04/1991-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 P R SHAPIRO HQ/F C OWENS 11-Astronomy

NGT 00-051-365 University of Texas - Austin 8181
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/16/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 B G SANDERS HQ/G LESANE 51-Biological Sci

NGT 00-050-853 University of Texas - Austin 8173
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/12/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J C WHEELER HQ/F C OWENS 13-Physics

NGT 00-070-111 University of Texas - Austin 8182
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 01/17/1989-01/15/1995 FY95: TOTAL: \$102,000
Prin. Invest. NASA Tech. Officer CASE Category
 G F CAREY HQ/R J HAYDUK 49-Engr, NEC

NGT 00-050-869 University of Texas - Austin 8174
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/07/1992-06/30/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 T KODADEK HQ/J K ALEXANDER 12-Chemistry

NGT 00-070-222 University of Texas - Austin 8183
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 12/01/1991-08/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D TESAR HQ/F C OWENS 46-Mech Engr

NGT 00-050-998 University of Texas - Austin 8175
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/28/1992-08/31/1996 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D T JAFFE HQ/J K ALEXANDER 11-Astronomy

NGT 00-070-252 University of Texas - Austin 8184
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 06/25/1992-12/31/1995 FY95: TOTAL: \$64,200
Prin. Invest. NASA Tech. Officer CASE Category
 R E BARR JSC/S GOLDSTEIN 46-Mech Engr

NGT 00-051-025 University of Texas - Austin 8176
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/14/1993-08/31/1996 FY95: \$22,000 TOTAL: \$65,710
Prin. Invest. NASA Tech. Officer CASE Category
 M G PANDY ARC/M MOORE 46-Mech Engr

NGT 00-070-262 University of Texas - Austin 8185
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/18/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 B D TAPLEY JPL/H ASHKENAS 41-Aero Engr

NGT 00-051-065 University of Texas - Austin 8177
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/02/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S ROUX HQ/R WHITE 55-Agriculture Sci

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NGT 00-070-338 University of Texas - Austin 8186
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 06/29/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J CAMBELL HQ/D K RUSSELL 45-Elec Engr

NGT 00-090-097 University of Texas - Austin 8187
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 09/24/1992-08/14/1996 FY95: \$24,000 TOTAL: \$42,000
Prin. Invest. NASA Tech. Officer CASE Category
 E ARMENDARIZ HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-216 University of Texas - Austin 8188
 UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
 09/23/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 R H BISHOP HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-249 University of Texas - Austin 8189
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 01/31/1995-08/14/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 S REED HQ/D K RUSSELL 45-Elec Engr

NAG 5-2210 University of Texas at Brownsville 8227
 EXPLOITING STRUCTURE: INTRODUCTION AND MOTIVATION
Period Obligations
 02/18/1993-08/31/1996 FY95: TOTAL: \$104,091
Prin. Invest. NASA Tech. Officer CASE Category
 Z L XU GSFC/G E MOSIER 41-Aero Engr

NAG 9-776 University of Texas at Brownsville 8228
 HISPANIC MOTHER DAUGHTER PROGRAM
Period Obligations
 03/24/1995-03/31/1996 FY95: \$88,358 TOTAL: \$88,358
Prin. Invest. NASA Tech. Officer CASE Category
 M MANCILLAS JSC/L ARMENDARIZ 99-Multi-Discip

NAG 9-801 University of Texas at Brownsville 8229
 PREPARING TEACHERS TO TEACH SCI STUDENTS INCLUSIVE
 SETTINGS
Period Obligations
 07/28/1995-05/15/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 R C RICHARDSON JSC/L ARMENDARIZ 99-Multi-Discip
 K I NORMAN

NAG 9-864 Univ. of Texas Md Anderson Cancer Center 8032
 ANALYSIS AND PROMOTION OF LYMPHOCYTE LOCOMOTION THRO
 UGH INTERCELLULAR MATRIX
Period Obligations
 03/09/1993-02/01/1995 FY95: TOTAL: \$90,370
Prin. Invest. NASA Tech. Officer CASE Category
 N R PELLIS JSC/G SPAULDING 56-Medical Sciences

NAGW 1665 University of Texas - Dallas 8190
 INTERDISCIPLINARY STUDY OF PLANETARY ATMOSPHERES
Period Obligations
 02/10/1989-11/30/1995 FY95: \$79,325 TOTAL: \$513,536
Prin. Invest. NASA Tech. Officer CASE Category
 F S JOHNSON HQ/J T BERGSTRALH 31-Atmos Sci

NAGW 2490 University of Texas - Dallas 8191
 INTERACTIONS OF GAS PHASE VOLATILES WITH THE LUNAR
 REGOLITH
Period Obligations
 06/07/1991-05/31/1994 FY95: TOTAL: \$150,000
Prin. Invest. NASA Tech. Officer CASE Category
 R R HODGES HQ/J T BERGSTRALH 11-Astronomy

NAGW 2534 University of Texas - Dallas 8192
 NAGW-2534/UNIV TEXAS @ DALLAS/A SATELLITE ANEMOMETER
Period Obligations
 06/03/1991-04/30/1995 FY95: TOTAL: \$191,050
Prin. Invest. NASA Tech. Officer CASE Category
 R R HODGES HQ/W L QUAIDO 19-Phys Sci, NEC
 HQ/J D BOHLIN

NAGW 2535 University of Texas - Dallas 8193
 NAGW-2535/UNIV TEXAS @ DALLAS/MARS '94 CO-INVESTIG ATOR
 PROGRAM: STUDY OF THE DYNAMICS OF THE MARTIA
Period Obligations
 06/03/1991-10/31/1995 FY95: \$30,000 TOTAL: \$235,000
Prin. Invest. NASA Tech. Officer CASE Category
 R R HODGES HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 3444 University of Texas - Dallas 8194
 STUDY OF THE PIONEER VENUS SOUNDER PROBE NEUTRAL M
 ASS
Period Obligations
 03/15/1993-03/14/1996 FY95: TOTAL: \$51,526
Prin. Invest. NASA Tech. Officer CASE Category
 R R HODGES HQ/J T BERGSTRALH 31-Atmos Sci

NAGW 3466 University of Texas - Dallas 8195
 STUDY OF POLAR IONOSPHERIC FLOWS DURING TIMES OF T HETA
 AURORA OCCURRENCES
Period Obligations
 04/09/1993-02/28/1995 FY95: TOTAL: \$110,164
Prin. Invest. NASA Tech. Officer CASE Category
 M R HAIRSTON HQ/M M MELLOTT 13-Physics
 HQ/G L WITHBROE

NAGW 4002 University of Texas - Dallas 8196
 INVESTIGATIONS OF THE ROLE OF GRAVITY WAVES IN THE
 GENERATION OF EQUATORIAL BUBBLES
Period Obligations
 05/14/1994-04/30/1996 FY95: \$58,000 TOTAL: \$116,000
Prin. Invest. NASA Tech. Officer CASE Category
 W B HANSON HQ/M M MELLOTT 13-Physics

NAGW 4411 University of Texas - Dallas 8197
 CHARACTERIZATION OF IONOSPHERIC FLOW PATTERNS DURIN G
 TIME OF UNUSUAL AURORA ACTIVITY
Period Obligations
 04/14/1995-03/31/1996 FY95: \$29,000 TOTAL: \$29,000
Prin. Invest. NASA Tech. Officer CASE Category
 M R HAIRSTON HQ/J D BOHLIN 13-Physics

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAGW 4442 University of Texas - Dallas 8198
ADAPTIVE IDENTIFICATION AND CHARACTERIZATION OF POLAR IONIZATION PATCHES
Period *Obligations*
05/16/1995-04/30/1997 FY95: \$60,431 TOTAL: \$60,431
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W R COLEY HQ/J D BOHLIN 13-Physics

NAG 3-1380 University of Texas - El Paso 8206
IMAGE COMPRESSION BASED ON INCOMPLETE AND OVERCOMPLETE SUBBAND DECOMPOSITIONS
Period *Obligations*
11/10/1992-01/03/1996 FY95: \$74,753 TOTAL: \$224,252
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S D CABRERA LERC/D R GLOVER 29-Math/Computer, NEC

NAGW 4492 University of Texas - Dallas 8199
THE SPATIAL DISTRIBUTION OF IONOSPHERIC PLASMA AND FIELD STRUCTURE OF HIGH LATITUDES
Period *Obligations*
05/16/1995-04/30/1996 FY95: \$58,000 TOTAL: \$58,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A HEELIS HQ/J D BOHLIN 13-Physics

NAG 8-1021 University of Texas - El Paso 8207
GROWTH CONDITIONS FOR SURFACE OXIDES ON ALUMINUM ALLOYS
Period *Obligations*
02/08/1994-02/07/1996 FY95: \$65,022 TOTAL: \$131,503
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P W WANG MSFC/M R CARRUTH JR. 19-Phys Sci, NEC
W P RUSSELL MSFC/B H NERREN
J C MCCLURE

NAS 5-32571 University of Texas - Dallas 8200
IONOSPHERIC DYNAMICS INSTRUMENT (IDI) INVESTIGATION
Period *Obligations*
09/29/1993-09/30/1994 FY95: TOTAL: \$300,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R HEILIS GSFC/J MCGUIRE 31-Atmos Sci

NAG 8-1056 University of Texas - El Paso 8208
A STUDY OF THE GAS PURITY SENSITIVITY OF VAARIABLE POLARITY PLASMA ARC WELDED ALUMINUM LITHIUM ALLOYS
Period *Obligations*
05/03/1994-07/01/1996 FY95: \$55,877 TOTAL: \$101,926
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J C MCCLURE MSFC/A C NUNES 47-Materials Engr
MSFC/C RUSSELL

NAS 8-33827 University of Texas - Dallas 8201
RESEARCH STUDY MEASUREMENT OF VISIBLE AND UV EMISSIONS FROM ENERGETIC NEUTRAL ATOM PRECIPITATION
Period *Obligations*
08/12/1980-06/30/1994 FY95: TOTAL: \$550,727
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B A TINSLEY MSFC/J E JOHNSON 31-Atmos Sci
D P ROHRBAUGH MSFC/R ISE

NAG 9-479 University of Texas - El Paso 8209
MULTIPLE SENSOR INTEGRATION FOR STATE AND TREND MONITORS
Period *Obligations*
10/01/1990-09/01/1994 FY95: TOTAL: \$51,593
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S A STARKS JSC/D LAWLER 22-Computer Science
JSC/K E HENDERSON

NAS 8-39692 University of Texas - Dallas 8202
MINIATURE MAGNETIC MASS ANALYZER
Period *Obligations*
11/10/1992-11/09/1995 FY95: \$14,729 TOTAL: \$89,773
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J H HOFFMAN MSFC/C J POLLOCK 39-Env Sci, NEC
MSFC/T E MOORE

NAG 9-481 University of Texas - El Paso 8210
CHARACTERIZATION OF MATERIALS INTERACTION AND DEGRADATION IN SPACE
Period *Obligations*
09/01/1990-01/01/1996 FY95: \$65,253 TOTAL: \$234,605
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L E MURR JSC/S L KOONTZ 47-Materials Engr
JSC/K E HENDERSON

NAS 9-18736 University of Texas - Dallas 8203
SPACE LIFE SCIENCE
Period *Obligations*
07/06/1992-11/30/1993 FY95: TOTAL: \$278,604
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J BUCKEY JSC/K NEWKIRK 59-Life Sci, NEC

NAG 9-483 University of Texas - El Paso 8211
RELIABILITY OF DAMAGED SPACE STRUCTURES FOR VIBRATION MEASUREMENTS
Period *Obligations*
10/01/1990-12/31/1995 FY95: TOTAL: \$238,575
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C M FERREGUT JSC/R A ROCHA 46-Mech Engr
R O OSEQUEDA JSC/K E HENDERSON

NAG 2-670 University of Texas - El Paso 8204
INTERDISCIPLINARY INVESTIGATIONS IN SUPPORT OF PROJECT DI-MOD
Period *Obligations*
08/24/1990-08/31/1994 FY95: TOTAL: \$196,721
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S A STARKS ARC/D L PETERSON 54-Env Biology
C A HOWARD
L F MAYBERRY

NAG 2-1012 University of Texas - El Paso 8205
MONITORING SOFTWARE THROUGH INTEGRITY CONSTRAINTS
Period *Obligations*
09/21/1995-08/31/1996 FY95: \$64,926 TOTAL: \$64,926
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A Q GATES ARC/C M FALSETTI 22-Computer Science

NAG 9-755 University of Texas - El Paso 8212
NASA PHYSICS CENTER
Period *Obligations*
07/27/1994-09/01/1997 FY95: TOTAL: \$84,821
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A LOPEZ JSC/A POTTER 13-Physics

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 9-756 University of Texas - El Paso 8213
 AUTOMATED SYSTEM TREND MONITORING BASED UPON TIME
 SERIES ANALYSIS
Period *Obligations*
 09/08/1994-12/31/1995 FY95: TOTAL: \$61,613
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S A SPARKS JSC/G L PACK 42-Astro Engr

NGT 00-070-343 University of Texas - El Paso 8221
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 07/06/1993-06/30/1996 FY95: \$22,000 TOTAL: \$65,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L E MURR HQ/D K RUSSELL 47-Materials Engr

NAG 9-757 University of Texas - El Paso 8214
 INTELLIGENT CONTROL/WHICH ALGORITHM TO CHOOSE
Period *Obligations*
 09/01/1994-08/31/1996 FY95: TOTAL: \$64,902
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 V KREINEVICH JSC/J CARVAJAL 42-Astro Engr

NGT 00-070-350 University of Texas - El Paso 8222
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 08/04/1993-07/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K MARSAGLIA HQ/D K RUSSELL 32-Geological Sci

NAGW 4536 University of Texas - El Paso 8215
 EXCITES
Period *Obligations*
 05/24/1995-08/31/1996 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J HERRERA HQ/M MATEU 99-Multi-Discip

NGT 00-070-354 University of Texas - El Paso 8223
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 09/02/1993-08/31/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C FERREGUT HQ/D K RUSSELL 46-Mech Engr

NAS 8-39602 University of Texas - El Paso 8216
 ASYMMETRIC GAS FLOW AND UNDEREUTTING DURING VARIABLE
 POLARITY PLASMA ARC WELDING
Period *Obligations*
 09/10/1992-02/28/1995 FY95: TOTAL: \$72,839
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J C MCCLURE MSFC/A C NUNES 47-Materials Engr
 MSFC/C K RUSSELL

NGT 00-070-406 University of Texas - El Paso 8224
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 12/05/1994-12/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R ARROWOOD HQ/D K RUSSELL 47-Materials Engr

NCC 5-97 University of Texas - El Paso 8217
 THE UNIVERSITY OF TEXAS AT EL PASO NETWORK RESOURCES
 AND TRAINING SITES
Period *Obligations*
 08/15/1995-08/14/1996 FY95: \$440,000 TOTAL: \$440,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M KOLITSKY GSFC/J BENNETT 22-Computer Science

NGT 00-090-044 University of Texas - El Paso 8225
 MINORITY UNDER GRADUATE RESEARCHERS PROGRAM
Period *Obligations*
 08/22/1991-08/31/1995 FY95: TOTAL: \$129,137
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A LOPEZ HQ/B WHITE 99-Multi-Discip

NCCW 89 University of Texas - El Paso 8218
 PAN AMERICAN CENTER FOR EARTH AND ENVIRONMENTAL ST
 UDIES
Period *Obligations*
 08/10/1995-06/30/2000 FY95: \$1,446,608 TOTAL: \$1,446,608
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S A STARKS HQ/M MATEU 39-Env Sci, NEC

NGT 00-090-125 University of Texas - El Paso 8226
 GRADUATE STUDENT RESEARCHERS PROGRAM/UMF
Period *Obligations*
 11/27/1992-08/14/1995 FY95: TOTAL: \$34,281
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A LOPEZ HQ/D K RUSSELL 99-Multi-Discip

NGT 00-070-245 University of Texas - El Paso 8219
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 07/24/1991-10/31/1994 FY95: \$1,121 TOTAL: \$67,121
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J MCCLURE HQ/F C OWENS 47-Materials Engr
 R ARROWOOD

NAG 2-26 Univ of Texas Medical Branch - Galveston 8005
 CONTROL OTOLITCHIN MECHANISMS IN NON-HUMAN PRIMATE
Period *Obligations*
 01/01/1980-12/31/1995 FY95: TOTAL: \$1,015,958
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A A PERACHIO ARC/M D ROSS 51-Biological Sci
 M J CARRETA ARC/M L CORCORAN
 G A KEVETTE

NGT 00-070-297 University of Texas - El Paso 8220
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period *Obligations*
 08/04/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J C MCCLURE MSFC/F SIX 47-Materials Engr

NAG 2-446 Univ of Texas Medical Branch - Galveston 8006
 STUDIES OF VESTIBULAR PRIMARY AFFERENTS IN
 NORMAL, HYPER- AND HYPOGRAVITY
Period *Obligations*
 09/01/1988-08/31/1995 FY95: TOTAL: \$1,107,657
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M J CORREIA ARC/J P CONNOLLY 51-Biological Sci
 A A PERACHIO ARC/R W BALLARD

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 2-780 Univ of Texas Medical Branch - Galveston 8007
 BASIC GRAVITATIONAL REFLEXES IN THE LARVAL FROG
Period Obligations
 04/20/1992-12/31/1994 FY95: TOTAL: \$176,400
Prin. Invest. NASA Tech. Officer CASE Category
 S L COCHRAN ARC/M L CORCORAN 51-Biological Sci
 ARC/C E WADE

NAGW 4032 Univ of Texas Medical Branch - Galveston 8008
 COUNTERMEASURES FOR MICROGRAVITY - INDUCED MUSCLE ATROPHY
Period Obligations
 06/06/1994-04/14/1996 FY95: \$190,000 TOTAL: \$380,000
Prin. Invest. NASA Tech. Officer CASE Category
 C A STUART HQ/F M SULZMAN 56-Medical Sciences

NAS 9-18967 Univ of Texas Medical Branch - Galveston 8009
 PROTEIN TURNOVER INVESTIGATIONS
Period Obligations
 09/23/1993-01/01/1995 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 R WOLFE JSC/H LANE 51-Biological Sci

NAG 9-551 Univ of Texas-Pan American 8013
 GRAPHIC NETWORK DIAGRAM FOR LARGE INFORMATION SRVC
Period Obligations
 09/16/1991-09/14/1995 FY95: TOTAL: \$265,053
Prin. Invest. NASA Tech. Officer CASE Category
 R H FOWLER JSC/J D ATKINSON 31-Atmos Sci

NAG 9-552 Univ of Texas-Pan American 8014
 CORTICAL ACTIVATION PATTERNS IN PEOPLE DURING COMPUTER GENERATED SIMULATIONS
Period Obligations
 09/16/1991-09/15/1994 FY95: TOTAL: \$256,464
Prin. Invest. NASA Tech. Officer CASE Category
 V I ALVARADO JSC/J D ATKINSON 31-Atmos Sci

NAG 9-553 Univ of Texas-Pan American 8015
 DIFFERENTIAL EQUATIONS WITH PIECEWISE CONTINUOUS ARGUMENT AND THEIR APPLICATION
Period Obligations
 09/16/1991-09/14/1995 FY95: TOTAL: \$292,003
Prin. Invest. NASA Tech. Officer CASE Category
 J WIENER JSC/J D ATKINSON 31-Atmos Sci

NAG 9-761 Univ of Texas-Pan American 8016
 P300 AND N400 AS CONTICAL BRAIN INDICATORS OF PERFORMANCE DETERIORATION
Period Obligations
 10/11/1994-10/01/1995 FY95: \$78,974 TOTAL: \$78,974
Prin. Invest. NASA Tech. Officer CASE Category
 V I ALVARADO JSC/F MOUNT 69-Psych, NEC

NAG 9-767 Univ of Texas-Pan American 8017
 CONCATENATED CODING USING TRELIS CODED MODULATION
Period Obligations
 09/27/1994-11/30/1995 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
 S E DAVIDSON JSC/N G ROBERTSON 22-Computer Science

NGT 00-090-043 Univ of Texas-Pan American 8018
 UNDERGRADUATE RESEARCHERS PROGRAM
Period Obligations
 08/22/1992-08/31/1996 FY95: \$72,672 TOTAL: \$197,614
Prin. Invest. NASA Tech. Officer CASE Category
 W SHOCKLEY HQ/B WHITE 49-Engr, NEC

NGT 00-090-101 Univ of Texas-Pan American 8019
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 09/12/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 W SHOCKLEY HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-102 Univ of Texas-Pan American 8020
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/12/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 W SHOCKLEY HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-162 Univ of Texas-Pan American 8021
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/26/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 W C SHOCKLEY HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-163 Univ of Texas-Pan American 8022
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/26/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 W C SHOCKLEY HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-164 Univ of Texas-Pan American 8023
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/27/1993-08/14/1996 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 W C SHOCKLEY HQ/D RUSSELL 99-Multi-Discip

NAG 2-962 Univ of Texas, Health Sci Ctr-Dallas 8024
 SPACE FLIGHT, STRESS AND PLASTICITY
Period Obligations
 02/07/1995-11/30/1995 FY95: \$92,311 TOTAL: \$92,311
Prin. Invest. NASA Tech. Officer CASE Category
 S T BRADY ARC/W E HINDS 51-Biological Sci
 ARC/C M WINGET

NAG 9-152 Univ of Texas, Health Sci Ctr-Dallas 8025
 STUDY OF RENAL STONE FORMATION
Period Obligations
 05/01/1986-05/01/1994 FY95: TOTAL: \$831,118
Prin. Invest. NASA Tech. Officer CASE Category
 C Y PAK JSC/P A WHITSON 56-Medical Sciences
 M NICAR JSC/H W LANE

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 9-492 Univ of Texas, Health Sci Ctr-Dallas 8026
THREE DIMENSIONAL, ECHOCARDIOGRAPHY FOR VENTRICULAR GEOMETRY
Period *Obligations*
02/22/1991-11/01/1994 FY95: TOTAL: \$227,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J C BUCKEY JSC/S M FORTNEY 56-Medical Sciences
JSC/J B CHARLES

NAGW 3582 Univ of Texas, Health Sci Ctr-Dallas 8027
MECHANISMS OF PHYSIOLOGICAL ADAPTATION TO MICROGRAVITY
Period *Obligations*
07/19/1993-05/31/1996 FY95: \$1,126,000 TOTAL: \$3,178,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C G BLOMQUIST HQ/R J WHITE 56-Medical Sciences

NAS 9-16044 Univ of Texas, Health Sci Ctr-Dallas 8028
LIFE SCI EXPER CARDIOVASCULAR ADAPT
Period *Obligations*
01/17/1980-09/30/1995 FY95: \$169,000 TOTAL: \$6,625,366
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G BLOMQUIST JSC/W YOUNG 56-Medical Sciences

NAS 9-18139 Univ of Texas, Health Sci Ctr-Dallas 8029
LIFE SCIENCES FLIGHT EXPERIMENT 'CARDIOVASCULAR REGULATION AT ZERO-G'
Period *Obligations*
09/01/1989-10/01/1995 FY95: \$291,600 TOTAL: \$1,854,400
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G BLOMQUIST JSC/C M BUNTIN 56-Medical Sciences

NAS 9-19190 Univ of Texas, Health Sci Ctr-Dallas 8030
DATA ARCHIVE SCIENTIFIC DEVELOPMENT
Period *Obligations*
08/11/1994-06/30/1995 FY95: \$76,677 TOTAL: \$133,208
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J BUCKEY JSC/J CARDENAS 56-Medical Sciences

NAS 9-19203 Univ of Texas, Health Sci Ctr-Dallas 8031
INTEGRATION OF NEURAL CARDIOVASCULAR CONTROL IN SPACE
Period *Obligations*
09/29/1994-10/31/1995 FY95: \$13,247 TOTAL: \$88,247
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G BLOMQUIST JSC/S SAWYER 56-Medical Sciences

NAG 9-688 Univ. of Texas-Hlth Science Ctr-Houston 8033
PROPAGATION OF NORWALK VIRUS USING APPLIED MICROGRAVITY BIOTECHNOLOGY
Period *Obligations*
05/11/1993-06/01/1994 FY95: TOTAL: \$66,333
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P C JOHNSON JSC/T T GOODWIN 56-Medical Sciences

NAG 9-834 Univ. of Texas-Hlth Science Ctr-Houston 8034
USE OF ROTATING WALL VESSEL TO FACILITATE CULTURE OF NORWALK VIRUS
Period *Obligations*
08/22/1995-09/01/1996 FY95: \$172,000 TOTAL: \$172,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D EOFINGER JSC/D PELLIS 51-Biological Sci

NAGW 3908 Univ. of Texas-Hlth Science Ctr-Houston 8035
NAGW-3908/B UNIV. TX HEALTH SCI CTR HOUSTON 'BIOCHEM. ADAPT. OF ANTI-GRAVITY MUSCLE. ATROPHY' 12 MO
Period *Obligations*
03/31/1994-02/29/1996 FY95: \$87,000 TOTAL: \$173,793
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F W BOOTH HQ/F M SULZMAN 51-Biological Sci

NAGW 4479 Univ. of Texas-Hlth Science Ctr-Houston 8036
PHYSIOLOGICAL EFFECTS OF DECOMPRESSION-INDUCED VENOUS BUBBLES
Period *Obligations*
05/10/1995-05/31/1998 FY95: \$93,374 TOTAL: \$93,374
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B D BUTLER HQ/V SCHNEIDER 59-Life Sci, NEC

NCC 2-423 Univ. of Texas-Hlth Science Ctr-Houston 8037
CHONDROGENESIS IN MICROMASS CULTURES OF EMBRYONIC LIMB MESENCHYME
Period *Obligations*
05/01/1986-03/31/1995 FY95: TOTAL: \$1,314,165
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J DUKE ARC/C M WINGET 51-Biological Sci
ARC/R W BALLARD

NCC 2-876 Univ. of Texas-Hlth Science Ctr-Houston 8038
ULTRASTRUCTURE AND IMMUNOHISTOCHEMICAL ANALYSES OF FETAL MOUSE LONG BONES TO MICROGRAVITY ON
Period *Obligations*
09/27/1994-06/30/1995 FY95: TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J DUKE ARC/C M WINGET 51-Biological Sci
ARC/J C JAHNS

NCC 9-20 Univ. of Texas-Hlth Science Ctr-Houston 8039
HINDLIMB TISSUE GAS PHASE FORMATION IN RESPONSE TO SUSPENSION ADYRAMIA AND HYPIKINESIA
Period *Obligations*
03/07/1991-07/01/1995 FY95: TOTAL: \$33,416
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B BUTLER JSC/M POWELL 56-Medical Sciences

NAG 2-730 Univ of Texas-Hlth Sci Ctr-San Antonio 8010
EARLY DEVELOPMENT OF A GRAVITY-SENSING ORGAN IN MICROGRAVITY
Period *Obligations*
08/20/1991-07/31/1996 FY95: \$191,857 TOTAL: \$619,236
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M L WIDERHOLD ARC/C M WINGET 51-Biological Sci
ARC

NAG 2-952 Univ of Texas-Hlth Sci Ctr-San Antonio 8011
DEVELOPMENT OF BESTIBULAR ORGANS IN MICROGRAVITY
Period *Obligations*
12/16/1994-11/30/1995 FY95: \$100,180 TOTAL: \$100,180
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M L WIEDERHOLD ARC/W E HINDS 51-Biological Sci
ARC/C M WINGET

NAG 4-13 Univ of Texas-Hlth Sci Ctr-San Antonio 8012
PEDIATRIC ONCOLOGY TELEMEDICINE PROJECT
Period *Obligations*
01/23/1995-04/25/1996 FY95: \$131,920 TOTAL: \$131,920
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J D LEGLER DFRC/E L DUKE 56-Medical Sciences
A THRANCE DFRC/Y KELLOGG
F STAFFORD

**NASA'S UNIVERSITY PROGRAM
TEXAS (Continued)**

NAG 2-819 University of Texas at San Antonio 8230
 MONOCLONAL ANTIBODIES DIRECTED AGAINST SURFACE MOLECULES OF MULTICELL SPHEROIDS
Period Obligations
 12/15/1992-12/31/1995 FY95: \$73,000 TOTAL: \$216,591
Prin. Invest. NASA Tech. Officer CASE Category
 A O MARTINEZ ARC/R A GRYMES 51-Biological Sci

NAG 3-867 University of Texas at San Antonio 8231
 DEVELOPMENT OF ADV METHODOLOGIES FOR PROBABILISTIC RELATIONSHIPS OF MATERIALS
Period Obligations
 01/19/1988-07/06/1995 FY95: TOTAL: \$221,416
Prin. Invest. NASA Tech. Officer CASE Category
 L BOYCE LERC/C C CHAMIS 41-Aero Engr
 LERC/R H JOHNS

NAG 9-554 University of Texas at San Antonio 8232
 FUNDAMENTAL SKILLS INTELLIGENT TUTORING SYSTEMS
Period Obligations
 09/19/1991-01/31/1995 FY95: TOTAL: \$324,433
Prin. Invest. NASA Tech. Officer CASE Category
 W ALTER JSC/J D ATKINSON 29-Math/Cmputer,NEC
 R DIEM

NAG 9-773 University of Texas at San Antonio 8233
 FUNDAMENTAL SKILLS INTELLIGENT TUTORING SYSTEMS PROJECT
Period Obligations
 01/27/1995-12/31/1995 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 R DIEM JSC/J A ATKINSON 29-Math/Cmputer,NEC
 D S KATIMS

NAGW 3573 University of Texas at San Antonio 8234
 TEXAS PREFRESHMAN ENGINEERING PROGRAM
Period Obligations
 06/03/1993-05/31/1996 FY95: \$198,422 TOTAL: \$550,959
Prin. Invest. NASA Tech. Officer CASE Category
 M BERRIOZABAL HQ/B WHITE 49-Engr, NEC

NAGW 4114 University of Texas at San Antonio 8235
 ADVANCED PROPULSION STUDIES
Period Obligations
 08/18/1994-08/31/1997 FY95: TOTAL: \$398,038
Prin. Invest. NASA Tech. Officer CASE Category
 L BOYCE HQ/B L WHITE 42-Astro Engr

NAG10-155 University of Texas at San Antonio 8236
 MULTI RESOLUTION IMAGE ANALYSIS FOR ENVIRONMENTAL MAPPING APPLICATIONS
Period Obligations
 03/27/1995-04/02/1996 FY95: \$99,700 TOTAL: \$99,700
Prin. Invest. NASA Tech. Officer CASE Category
 M D DESAI KSC/J C SAAER 39-Env Sci, NEC

NGT 00-090-047 University of Texas at San Antonio 8237
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/22/1991-08/14/1996 FY95: \$59,180 TOTAL: \$167,668
Prin. Invest. NASA Tech. Officer CASE Category
 L VALERDE HQ/B WHITE 49-Engr, NEC

NGT 00-090-099 University of Texas at San Antonio 8238
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 09/24/1992-08/14/1996 FY95: \$12,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 L R WILLIAMS HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-100 University of Texas at San Antonio 8239
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 09/24/1992-08/14/1996 FY95: \$12,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 L R WILLIAMS HQ/D K RUSSELL 99-Multi-Discip

NGT 00-090-261 University of Texas at San Antonio 8240
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 12/19/1994-08/14/1996 FY95: \$72,000 TOTAL: \$72,000
Prin. Invest. NASA Tech. Officer CASE Category
 L WILLIAMS HQ/D K RUSSELL 51-Biological Sci

UTAH

NAG 1-1694 Brigham Young University 8241
 A BASELINE COMPARISON OF FUNDAMENTAL APPROACHES TO MDO
Period Obligations
 02/22/1995-02/29/1996 FY95: \$48,424 TOTAL: \$48,424
Prin. Invest. NASA Tech. Officer CASE Category
 R BALLING LARC/S L PADULA 41-Aero Engr

NAG 2-883 Brigham Young University 8242
 CAPSTONE PROGRAM PROJECT
Period Obligations
 02/17/1994-07/31/1996 FY95: \$32,000 TOTAL: \$47,000
Prin. Invest. NASA Tech. Officer CASE Category
 P CARTER ARC/B W WEBBON 49-Engr, NEC
 R TODD ARC/W C LOMAX

NAGW 2461 Brigham Young University 8243
 MODEL BASED WIND RETRIEVAL OF WIND FIELD USING SEA SAT SCATTEROMETER DATA
Period Obligations
 07/15/1991-09/30/1995 FY95: \$33,785 TOTAL: \$299,010
Prin. Invest. NASA Tech. Officer CASE Category
 D LONG HQ/D ADAMER 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 2875 Brigham Young University 8244
 RESEARCH IN OBSERVATIONS OF OCEANIC AIR/SEA INTERACTION
Period Obligations
 02/10/1992-02/14/1995 FY95: TOTAL: \$528,981
Prin. Invest. NASA Tech. Officer CASE Category
 D G LONG HQ/J K ALEXANDER 33-Oceanography
 HQ/D A HOLLAND

**NASA'S UNIVERSITY PROGRAM
UTAH (Continued)**

NGT 00-010-013 Brigham Young University 8245
 MULTIDISCIPLINARY DESIGN AND ANALYSIS FELLOWSHIP PROGRAM
Period *Obligations*
 10/27/1993-08/31/1995 FY95: \$115,000 TOTAL: \$164,759
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C D SORENSEN HQ/G S SEIDEL 41-Aero Engr
 S P MAGLEBY HQ/J R FACEY
 R H TODD

NGT 00-030-198 Brigham Young University 8246
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
 08/25/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D LONG HQ/G ASRAR 33-Oceanography
 HQ/D M BUTLER

NGT 00-051-411 Brigham Young University 8247
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/20/1995-06/30/1996 FY95: \$12,000 TOTAL: \$12,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J W MOODY HQ/E SCHWARTZ 13-Physics

NAG 1-1232 University of Utah 8248
 AIRFOIL PERFORMANCE IN HIGH LIFT/MAXIMUM PERFORMANCE CONFIGURATIONS DURING HEAVY RAIN AND SNOW STORM
Period *Obligations*
 02/26/1991-06/30/1995 FY95: TOTAL: \$125,861
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R A DECKER LARC/Z T APPLIN 41-Aero Engr
 LARC/G M BEZOS

NAG 1-1314 University of Utah 8249
 FARS CIRRUS MEASUREMENT FOR FIRE II
Period *Obligations*
 07/23/1991-11/30/1995 FY95: \$55,000 TOTAL: \$272,001
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K SASSEN LARC/D S MCDUGAL 31-Atmos Sci

NAG 1-1379 University of Utah 8250
 MULTIAXIAL CHARACTERIZATION OF STIFFNESS AND STRENGTH OF TEXTILE FIBER COMPOSITES
Period *Obligations*
 01/28/1992-01/27/1995 FY95: TOTAL: \$187,157
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S R SWANSON LARC/J R REEDER 47-Materials Engr
 LARC/C C POE JR

NAG 1-1718 University of Utah 8251
 CLOUD SCALE NUMERICAL MODELING OF THE ARCTIC BOUNDARY LAYER
Period *Obligations*
 04/25/1995-04/24/1996 FY95: \$78,000 TOTAL: \$78,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S K KRUEGER LARC/D S MCDUGAL 31-Atmos Sci

NAG 1-1719 University of Utah 8252
 RADIATIVE TRANSFER AND SATELLITE REMOTE SOUNDING OF CIRRUS CLOUDS USING FIRE II IFO DATA
Period *Obligations*
 04/14/1995-04/13/1996 FY95: \$105,600 TOTAL: \$105,600
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K N LIOU LARC/D S MCDUGAL 31-Atmos Sci
 S C OU

NAG 2-939 University of Utah 8253
 CONTRAIL-CIRRUS STUDIES AT FARS
Period *Obligations*
 11/02/1994-02/28/1996 FY95: \$94,676 TOTAL: \$94,676
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K SASSEN ARC/E P CONDON 31-Atmos Sci
 ARC/O B TOON

NAG 5-127 University of Utah 8254
 GLOBAL SCALE DIAGNOSIS OF SATELLITE DATA
Period *Obligations*
 07/01/1981-11/30/1993 FY95: TOTAL: \$594,647
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J N PAEGLE GSFC/H M HELFAND 31-Atmos Sci

NAG 5-1050 University of Utah 8255
 RESEARCH RELATIVE TO SURFACE RADIATION RETRIEVAL METHODOLOGIES
Period *Obligations*
 05/15/1988-02/28/1995 FY95: TOTAL: \$731,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K N LIOU GSFC/M D CHOU 31-Atmos Sci

NAG 5-1822 University of Utah 8256
 LIMNEOTECTONICS OF ALTIPLANO PALEOLAKES
Period *Obligations*
 11/06/1991-11/14/1995 FY95: \$32,222 TOTAL: \$162,222
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D R CURREY GSFC/B G BILLS 32-Geological Sci

NAG 5-2055 University of Utah 8257
 LIMNEOTECTONICS OF THE CANADIAN SHIELD
Period *Obligations*
 08/05/1992-09/14/1996 FY95: \$114,926 TOTAL: \$300,608
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D CURREY GSFC/B G BILLS 32-Geological Sci

NAG 5-2200 University of Utah 8258
 IMAGE COMPRESSION USING HUMAN VISUAL SYSTEM MODELS, WAVELET TRANSFORM CODING AND MASSIVELY
Period *Obligations*
 02/23/1993-11/30/1995 FY95: \$30,000 TOTAL: \$90,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 V J MATHEWS GSFC/J R FISCHER 22-Computer Science

NAG 5-2241 University of Utah 8259
 VEGETATION-ATMOSPHERE CO2 AND H2O EXCHANGE PROCESSES: STABLE ISOTOPE ANALYSES
Period *Obligations*
 04/08/1993-04/14/1996 FY95: \$80,000 TOTAL: \$236,800
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J EHLERINGER GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P SELLERS

NAG 5-2338 University of Utah 8260
 MARS LIDAR FEASIBILITY MODELING STUDY
Period *Obligations*
 07/27/1993-07/31/1994 FY95: TOTAL: \$14,981
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K SASSEN GSFC/J D SPINHIRNE 31-Atmos Sci
 GSFC/J B ABSHIRE

**NASA'S UNIVERSITY PROGRAM
UTAH (Continued)**

NAG 5-2349 University of Utah 8261
 CONSTRAINTS ON GAMMA RAY BURSTER (GRB) SOURCE DISTANCES USING GRO/BATSE IN COINCIDENCE WITH
Period Obligations
 08/12/1993-02/29/1996 FY95: \$14,889 TOTAL: \$31,585
Prin. Invest. NASA Tech. Officer CASE Category
 D B KIEDA GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2678 University of Utah 8262
 RADIATIVE AND CLIMATIC EFFECTS OF CONTRAIL CIRRUSS
Period Obligations
 08/24/1994-10/31/1995 FY95: \$73,458 TOTAL: \$79,083
Prin. Invest. NASA Tech. Officer CASE Category
 K LIU GSFC/R W STEWART 31-Atmos Sci

NAGW 1999 University of Utah 8263
 MAGPIE, A MAGNETIC PASSIVE ISOTOPE EXPERIMENT
Period Obligations
 07/11/1990-02/29/1996 FY95: \$130,000 TOTAL: \$737,973
Prin. Invest. NASA Tech. Officer CASE Category
 M H SALAMON HQ/W V JONES 13-Physics
 HQ/J C LING

NAGW 3687 University of Utah 8264
 INTERMOUNTAIN NETWORK AND SCIENTIFIC COMPUTATION CENTER
Period Obligations
 09/09/1993-07/31/1996 FY95: \$5,000,030 TOTAL: \$14,974,135
Prin. Invest. NASA Tech. Officer CASE Category
 R PUGMIRE HQ/W C STAMPER 99-Multi-Discip

NAGW 4338 University of Utah 8265
 MODELING OF CARDIOVASCULAR RESPONSE TO WEIGHTLESSNESS
Period Obligations
 03/04/1995-12/31/1997 FY95: \$129,559 TOTAL: \$129,559
Prin. Invest. NASA Tech. Officer CASE Category
 M T SHARP HQ/R J WHITE 59-Life Sci, NEC

NCC 1-189 University of Utah 8266
 IMPROVEMENT AND APPLICATION OF THE UU RADIATION PARAMETERIZATION PROGRAM
Period Obligations
 05/25/1994-04/30/1996 FY95: \$51,700 TOTAL: \$101,400
Prin. Invest. NASA Tech. Officer CASE Category
 K N LIU LARC/T P CHARLOCK 31-Atmos Sci
 Q FU LARC/B A WIELICKY

NCC 2-851 University of Utah 8267
 WASTE INCINERATION FOR RESOURCE RECOVERY IN REGULATIVE LIFE SUPPORT SYSTEMS
Period Obligations
 04/15/1994-09/30/1996 FY95: TOTAL: \$364,081
Prin. Invest. NASA Tech. Officer CASE Category
 J S LIGHTLY ARC/R D MACELROY 59-Life Sci, NEC
 D W PERSHING

NCC 2-890 University of Utah 8268
 DEVELOPMENT OF ON-LINE REAL-TIME ENVIRONMENTAL MONITOR FOR AIR AND WATER QUALITY
Period Obligations
 03/27/1995-09/30/1996 FY95: \$195,421 TOTAL: \$195,421
Prin. Invest. NASA Tech. Officer CASE Category
 D R WESTENSKOW ARC/J W FISHER 59-Life Sci, NEC
 D CHRISTENSEN ARC/R D MACELROY
 R E BENNER

NCC 2-5007 University of Utah 8269
 THE IMPACT OF COCKPIT AUTOMATION ON PILOT PROFICIENCY
Period Obligations
 10/29/1993-10/31/1995 FY95: \$39,880 TOTAL: \$79,722
Prin. Invest. NASA Tech. Officer CASE Category
 R DECKER ARC/B KANKI 69-Psych, NEC

NGT 00-030-257 University of Utah 8270
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/20/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 D CHAPMAN HQ/M BALTUCK 99-Multi-Discip
 HQ/G ASRAR

NAG 1-1334 Utah State University 8271
 COORDINATED UARS AND GROUND-BASED MEASUREMENTS OF AIRGLOW, WINDS AND WAVES OF THE MIDDLE ATMOSPHERE
Period Obligations
 08/28/1991-06/30/1995 FY95: \$1 TOTAL: \$278,303
Prin. Invest. NASA Tech. Officer CASE Category
 P J ESPY LARC/J G WELLS 31-Atmos Sci

NAG 1-1335 Utah State University 8272
 CORRELATIVE ATMOSPHERIC SPECIES, TEMPERATURE, DISTURBANCES AND ENERGY INPUT MEASUREMENTS
Period Obligations
 08/28/1991-07/31/1994 FY95: TOTAL: \$165,000
Prin. Invest. NASA Tech. Officer CASE Category
 B WICKWAR LARC/J G WELLS 31-Atmos Sci
 R J SICA
 D REES

NAG 2-874 Utah State University 8273
 TEST FLIGHT OF A NYLON SUPER-PRESSURE BALLOON IN MARS-LIKE CONDITIONS ON EARTH
Period Obligations
 11/04/1993-09/30/1995 FY95: \$39,960 TOTAL: \$84,497
Prin. Invest. NASA Tech. Officer CASE Category
 J CANTRELL ARC/R M HABERLE 41-Aero Engr
 ARC/L G LEMKE

NAG 5-672 Utah State University 8274
 SUBORBITAL PROGRAM MAGNETOSPHERIC/IONOSPHERIC
Period Obligations
 07/30/1990-08/31/1995 FY95: TOTAL: \$72,000
Prin. Invest. NASA Tech. Officer CASE Category
 B G FEJER GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-686 Utah State University 8275
 ROCKET PROBE MEASUREMENTS OF MESOSPHERIC ELECTRON DENSITY BITE-OUTS AND TURBULENCE
Period Obligations
 05/29/1991-12/31/1994 FY95: TOTAL: \$145,856
Prin. Invest. NASA Tech. Officer CASE Category
 J C ULWICK GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-1484 Utah State University 8276
 THE FLOW OF PLASMA IN THE SOLAR TERRESTRIAL ENVIRONMENT
Period Obligations
 11/26/1990-12/31/1995 FY95: \$271,354 TOTAL: \$1,302,744
Prin. Invest. NASA Tech. Officer CASE Category
 R W SCHUNK GSFC/T J BIRMINGHAM 13-Physics

**NASA'S UNIVERSITY PROGRAM
UTAH (Continued)**

NAG 5-2043 **Utah State University** **8277**
MESOSCALE STUDY OF SURFACE HEAT FLUXES AND BOUNDAR Y
LAYER PROCESSES IN A DESERT REGION
Period *Obligations*
07/28/1992-08/14/1996 FY95: TOTAL: \$345,144
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C BINGHAM GSFC/E T ENGMAN 39-Env Sci, NEC

NAG 5-2748 **Utah State University** **8278**
DYNAMO ELECTRIC FIELD AND CURRENTS AS DETERMINED FROM
UARS WIND MEASUREMENT
Period *Obligations*
10/06/1994-04/14/1996 FY95: \$67,250 TOTAL: \$67,250
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J CRAIN GSFC/C H JACKMAN 31-Atmos Sci

NAG 5-5022 **Utah State University** **8279**
AN INVESTIGATION OF THE EFFECTS OF MESOSPHERIC AEROSOLS
ON THE ODD-OXYGEN CHEM AND DISTRIBUTION
Period *Obligations*
04/13/1994-02/29/1996 FY95: \$181,937 TOTAL: \$329,396
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P J ESPY GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 5-5044 **Utah State University** **8280**
AN EXPERIMENT TO STUDY SPORADIC SODIUM LAYERS IN THE
EARTH'S MESOSPHERE AND LOWER THERMOSPHERE
Period *Obligations*
07/28/1995-06/30/1996 FY95: \$8,966 TOTAL: \$8,966
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M SWENSON GSFC/R H PLESS 13-Physics

NAG 5-5046 **Utah State University** **8281**
A ROCKET INVESTIGATION OF MESOSPHERIC EDDY DIFFU- SION
EFFECTS ON AIRGLOW AND ODD OXYGEN CHEMISTRY
Period *Obligations*
08/03/1995-06/30/1996 FY95: \$90,428 TOTAL: \$90,428
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J C ULWICK GSFC/P H PLESS 13-Physics

NAG 8-897 **Utah State University** **8282**
IMPROVEMENT AND FURTHER DEVELOPMENT OF SSM/I OVER-
LAND PARAMETER ALGORITHMS USITN THE WETNET WORKST
Period *Obligations*
11/04/1991-11/04/1994 FY95: TOTAL: \$182,786
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J J MCDONNELL MSFC/J C LUVALL 31-Atmos Sci

NAGW 2103 **Utah State University** **8283**
NAGW-2103/UTAH STATE UNIV/SATELLITE STUDIES OF LOW
LATITUDE IONOSPHERIC PLAMA DRIFTS
Period *Obligations*
05/09/1990-03/31/1995 FY95: TOTAL: \$280,197
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B G FEJER HQ/M M MELLOTT 13-Physics
HQ/T PERRY

NAGW 2852 **Utah State University** **8284**
NAGW-2852/UTAH STATE UNIV/STUDY OF IN SITU EVIDENC E OF
ALFVEN'S CRITICAL IONIZATION VELOCITY EFFECT
Period *Obligations*
01/31/1992-03/31/1994 FY95: TOTAL: \$34,942
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C SWENSON HQ/D L REASONER 13-Physics
HQ/J D BOHLIN

NAGW 3029 **Utah State University** **8285**
SPACE DYNAMICS LABORATORY PROJECT
Period *Obligations*
04/09/1992-09/30/1994 FY95: TOTAL: \$10,000,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W WATKINS HQ/R SPILLINGER 31-Atmos Sci

NAGW 3567 **Utah State University** **8286**
A GENER. TRANSPORT MODEL OF PLASMA FLOW IN SATURN' S
INNER MAGNETOSPHERE
Period *Obligations*
05/14/1993-07/31/1995 FY95: TOTAL: \$49,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H G DEMARS HQ/E C WHIPPLE 13-Physics
HQ/G L WITHBROE

NAGW 3689 **Utah State University** **8287**
ANALYSIS OF ION-MODE MEASUREMENTS BY THE PIONEER V ENUS
RETARDING POTENTIAL ANALYZER
Period *Obligations*
08/18/1993-05/31/1995 FY95: TOTAL: \$103,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K L MILLER HQ/J T BERGSTRALH 31-Atmos Sci

NAGW 3999 **Utah State University** **8288**
MID-LATITUDE POTENTIAL DISTRIBUTION DEFINED BY TH ERMAL
PLASMA MOTIONS
Period *Obligations*
05/09/1994-04/30/1996 FY95: \$64,000 TOTAL: \$124,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D J CRAIN HQ/M M MELLOTT 13-Physics
HQ/J D BOHLIN

NAGW 4057 **Utah State University** **8289**
MOLECULAR CALCULATIONS IN SUPPORT OF PLANETARY
ATMOSPHERE PROGRAMS
Period *Obligations*
07/19/1994-04/30/1996 FY95: TOTAL: \$58,646
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R WATTSON HQ/H H BRINTON 31-Atmos Sci

NAGW 4298 **Utah State University** **8290**
ADVANCED DESIGN PROGRAM
Period *Obligations*
02/14/1995-03/31/1996 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F REDD HQ/A S MCGEE 49-Engr, NEC
HQ/G JOHNSTON

NAGW 4365 **Utah State University** **8291**
CROP PRODUCTION OPTIMIZATION USING CO2 GAS-EXCHANG E
Period *Obligations*
03/31/1995-03/31/1998 FY95: \$152,421 TOTAL: \$152,421
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B G BUGBEE HQ/M AVERNER 59-Life Sci, NEC

NAGW 4425 **Utah State University** **8292**
SATELLITE STUDIES OF STORM TIME MID AND LOW LATITU DE
IONOSPHERIC ELECTRODYNAMICS
Period *Obligations*
04/20/1995-03/31/1997 FY95: \$68,000 TOTAL: \$68,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B G FEJER HQ/J D BOHLIN 13-Physics

**NASA'S UNIVERSITY PROGRAM
VERMONT (Continued)**

NAGW 2141 Middlebury College 8308
 NAGW-2141/MIDDLEBURY COLLEGE/CURRENT SHEET FORMATI ON
 AND LOSS OF EQUILIBRIUM
Period *Obligations*
 08/08/1990-04/30/1996 FY95: \$44,480 TOTAL: \$217,033
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R WOLFSON HQ/J D BOHLIN 13-Physics
 HQ/S KANE

NAG 1-1242 Christopher Newport University 8316
 CHARACTERIZING AND TESTING A THERMALLY ISOLATING
 SUPERCONDUCTING LINK FOR SAFIRE-LIKE MISSIONS
Period *Obligations*
 03/27/1991-06/30/1995 FY95: \$1 TOTAL: \$117,280
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R SELIM LARC/F ALLAMBY 47-Materials Engr
 R CATON LARC/S WISE

NAG 8-238 Norwitch University 8309
 JOVE
Period *Obligations*
 06/19/1988-04/02/1995 FY95: TOTAL: \$22,714
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W TIMOSZYK MSFC/F SIX 13-Physics

NAG 1-1439 Christopher Newport University 8317
 HIGH SPEED DATA ENCODING/DECODING
Period *Obligations*
 05/18/1992-07/31/1994 FY95: TOTAL: \$47,386
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R F HODSON LARC/S G JURCZYK 45-Elec Engr
 LARC/T A SHULL

NAG 9-312 Norwitch University 8310
 MULTIPROCESSOR TECHNIQUES IN DATA ACQUIS
Period *Obligations*
 08/23/1988-12/01/1994 FY95: TOTAL: \$114,114
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P N BARTRAM JSC/D STILWELL 22-Computer Science

NAG 1-1443 Christopher Newport University 8318
 OPTICAL FIBER SPECTROSCOPY
Period *Obligations*
 06/16/1992-12/31/1995 FY95: \$40,981 TOTAL: \$125,492
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A M BUONCRISTIANI LARC/R S ROGOWSKI 45-Elec Engr

NAG 8-1006 University of Vermont 8311
 JOVE
Period *Obligations*
 12/03/1993-05/31/1996 FY95: \$19,000 TOTAL: \$60,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 Y YU MSFC/F SIX 13-Physics

NAG 1-1641 Christopher Newport University 8319
 TEACHER ENHANCEMENT INSTITUTE FOR SCIENCE, MATH AND
 TECHNOLOGY USING PROBLEM BASED
Period *Obligations*
 07/21/1994-05/31/1996 FY95: \$170,236 TOTAL: \$170,236
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R H PETERSON LARC/S E MASSENBERG 99-Multi-Discip
 B BARTELS LARC/S CANRIGHT

NAGW 3604 University of Vermont 8312
 SELF-GENERATED BENDING MOMENTS IN ROOT GRAVITROPIS M
Period *Obligations*
 05/26/1993-09/30/1996 FY95: \$25,451 TOTAL: \$45,451
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P M LINTILHAC HQ/T W HALSTEAD 51-Biological Sci

NAGW 3736 Christopher Newport University 8320
 CONTROLS ON METHANE EMISSIONS FROM VEGETATED WETLA
 NDS
Period *Obligations*
 09/09/1993-06/30/1996 FY95: \$100,000 TOTAL: \$250,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G J WHITING HQ/D E WICKLAND 39-Env Sci, NEC
 J CHANTON HQ/A C JANETOS

NGT 00-040-054 University of Vermont 8313
 NGT-40054/UNIV VERMONT/NATIONAL SPACE GRANT COLLEG E
 AND FELLOWSHIP PROGRAM
Period *Obligations*
 05/29/1992-02/28/1996 FY95: \$170,000 TOTAL: \$663,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W D LAKIN HQ/L KEFFER 99-Multi-Discip
 T S KELLER

NCC 1-178 Christopher Newport University 8321
 SHIELDING FROM SPACE RADIATIONS NLPN 93-313
Period *Obligations*
 04/13/1993-01/31/1996 FY95: \$74,118 TOTAL: \$251,729
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C K CHANG LARC/J L SHINN 13-Physics
 LARC/E J CONWAY

NGT 00-060-012 University of Vermont 8314
 EPSCOR PROGRAM
Period *Obligations*
 08/18/1995-08/01/1996 FY95: \$66,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T KELLER HQ/A S MCGEE 59-Life Sci, NEC
 HQ/E T SCHWARTZ

NCC 1-179 Christopher Newport University 8322
 SPECTROSCOPY OF SOLID STATE LASER MATERIALS
Period *Obligations*
 04/23/1993-12/15/1994 FY95: TOTAL: \$85,810
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A M BUONCRISTIANI LARC/C P RINSLAND 31-Atmos Sci

VIRGINIA

NAG 1-796 Christopher Newport University 8315
 SPECTROSCOPY OF TUNABLE SOLID STATE LASER MATERIAL S
Period *Obligations*
 07/09/1987-03/31/1996 FY95: TOTAL: \$764,304
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A M BUONCRISTIANI LARC/P BROCKMAN 13-Physics
 LARC/R V HESS

NCC 1-204 Christopher Newport University 8323
 APPLICATION OF SPECTROSCOPIC METHODS TO STUDY
 ATMOSPHERIC TRACE GAS CONSTITUENTS
Period *Obligations*
 11/23/1994-12/31/1996 FY95: \$152,908 TOTAL: \$152,908
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 A M BUONCRISTIANI LARC/G W SACHSE 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NGT 1-52108 Christopher Newport University 8324
GRANT STUDENT RESEARCHER PROGRAM (GSRP)
Period *Obligations*
06/15/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C M HILS LARC/M NAMKUNG 13-Physics

NAG 1-1575 College of William And Mary 8332
FIBER OPTIC CHEMICAL SENSING
Period *Obligations*
12/16/1993-06/30/1995 FY95: \$13,128 TOTAL: \$82,047
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M MANOS LARC/R S ROGOWSKI 13-Physics

NAG 1-237 College of William And Mary 8325
CHARACTERIZATION OF RELATIONSHIP OF CURE CYCLE
PROCESSING PROPERTIES
Period *Obligations*
11/05/1981-11/30/1995 FY95: TOTAL: \$828,301
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D E KRANBUEHL LARC/E R LONG 12-Chemistry
LARC/B DEXTER

NAG 1-1585 College of William And Mary 8333
FRONT-SURFACE CHARACTERIZATION OF SUB-SURFACE
STRUCTURES AND DEFECTS NLPN 93-1020
Period *Obligations*
01/05/1994-12/31/1995 FY95: \$42,695 TOTAL: \$266,840
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M MANOS LARC/P H JOHNSTON 13-Physics

NAG 1-884 College of William And Mary 8326
TOWARD A PRACTICAL THEORY OF ULTRA-RELIABLE SOFTWARE
Period *Obligations*
05/18/1988-06/30/1995 FY95: TOTAL: \$386,231
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K W MILLER LARC/D E ECKHARDT 22-Computer Science
R E NOONAN
S K PARK

NAG 1-1597 College of William And Mary 8334
TECHNOLOGIES FOR NONDESTRUCTIVE EVALUATION OF
SURFACES AND THIN LAYERS
Period *Obligations*
03/22/1994-12/31/1995 FY95: \$237,860 TOTAL: \$412,466
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M MANOS LARC/K E CRAMER 13-Physics
LARC/W T YOST

NAG 1-1019 College of William And Mary 8327
FREQUENCY DEPENDENT ELECTROMAGNETIC SENSING FOR IN
SITU MONITORING OF HIGH PERFORMANCE THERMOSET AND
Period *Obligations*
06/01/1989-06/30/1994 FY95: TOTAL: \$335,430
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D E KRANBUEHL LARC/E R LONG 12-Chemistry

NAG 1-1647 College of William And Mary 8335
THROUGH-THE-THICKNESS REINFORCED COMPOSITES
Period *Obligations*
10/24/1994-10/31/1995 FY95: \$29,700 TOTAL: \$29,700
Prin. Invest. *NASA Tech. Officer* *CASE Category*
M K HINDERS LARC/W JACKSON 12-Chemistry

NAG 1-1063 College of William And Mary 8328
QUANTITATIVE NONDESTRUCTIVE EVALUATION OF MATERIALS AND
STRUCTURES
Period *Obligations*
09/26/1989-01/31/1996 FY95: \$244,866 TOTAL: \$832,475
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B T SMITH LARC/P H JOHNSTON 13-Physics

NAG 1-1665 College of William And Mary 8336
OPTICAL FIBER FTIR EVANESCENT WAVE ABSORPTION
SPECTROSCOPY FOR REMOTE SENSING NLPN 94-926
Period *Obligations*
12/28/1994-12/31/1995 FY95: \$89,337 TOTAL: \$89,337
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M MANOS LARC/R ROGOWSKI 13-Physics

NAG 1-1132 College of William And Mary 8329
A RELIABILITY ESTIMATION SYSTEM TESTBED
Period *Obligations*
04/19/1990-05/15/1996 FY95: \$51,380 TOTAL: \$246,380
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M NICOL LARC/D L PALUMBO 29-Math/Cmputer,NEC

NAG 1-1668 College of William And Mary 8337
LASER ULTRASONIC AND THERMAL WAVE NDE
Period *Obligations*
12/28/1994-12/31/1995 FY95: \$164,228 TOTAL: \$164,228
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M MANOS LARC/R S ROGOWSKI 13-Physics
M K HINDERS

NAG 1-1548 College of William And Mary 8330
DEGRADATION STUDIES ON MATRIX/FIBER REINFORCED COM
POSITE MATERIALS FOR THE HIGH SPEED RESEARCH PROG
Period *Obligations*
10/21/1993-10/31/1995 FY95: \$25,758 TOTAL: \$51,031
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R A OKWALL LARC/P R YOUNG 12-Chemistry

NAG 1-1671 College of William And Mary 8338
INTERFACE STRUCTURAL INTEGRITY EVALUATION USING
ULTRASONIC LAMB WAVES -- AIRCRAFT APPLICATION
Period *Obligations*
01/20/1995-01/19/1996 FY95: \$155,243 TOTAL: \$155,243
Prin. Invest. *NASA Tech. Officer* *CASE Category*
K J SUN LARC/P H JOHNSTON 19-Phys Sci, NEC
D MANOS
M K HINDERS

NAG 1-1574 College of William And Mary 8331
NUMERICAL MODELING OF DISPLACEMENT FIELD FOR SHEAR
OGRAPHIC NONDESTRUCTIVE INSPECTION OF AGING A/C
Period *Obligations*
12/16/1993-06/30/1995 FY95: TOTAL: \$55,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D KISHONI LARC/R S ROGOWSKI 46-Mech Engr

NAG 1-1746 College of William And Mary 8339
RITE: RELIABILITY INTERFACE TOOL EXTENSION
Period *Obligations*
09/11/1995-11/10/1996 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D M NICOL LARC/C ELKS 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAS 1-19656 College of William And Mary 8340
 PHYSICAL, MATHEMATICAL, AND COMPUTER SCIENCE RESEARCH
Period Obligations
 08/05/1992-08/05/1998 FY95: \$544,594 TOTAL: \$2,613,079
Prin. Invest. NASA Tech. Officer CASE Category
 C S WELCH LARC/E J PRIOR 19-Phys Sci, NEC
 M C WU LARC/R L YANG

NCC 1-40 College of William And Mary 8341
 TIRE NONLINEAR MODEL
Period Obligations
 03/25/1980-06/30/1994 FY95: TOTAL: \$935,778
Prin. Invest. NASA Tech. Officer CASE Category
 C M ANDERSON LARC/J A TANNER 46-Mech Engr
 LARC/M P ROBINSON

NCC 1-43 College of William And Mary 8342
 HALOE SCIENCE INVESTIGATION
Period Obligations
 07/16/1980-02/29/1996 FY95: \$153,336 TOTAL: \$1,181,311
Prin. Invest. NASA Tech. Officer CASE Category
 D C BENNER LARC/J PARK 31-Atmos Sci
 LARC/J M RUSSELL

NCC 1-80 College of William And Mary 8343
 HIGH RESOLUTION SPECTROSCOPY TO SUPPORT ATMOSPHERIC
 MEASUREMENTS
Period Obligations
 07/18/1983-03/31/1996 FY95: \$103,491 TOTAL: \$971,166
Prin. Invest. NASA Tech. Officer CASE Category
 D C BENNER LARC/M A SMITH 13-Physics
 M D VENKATARAMAN LARC/C P RINSLAND

NCC 1-150 College of William And Mary 8344
 DEVELOPMENT OF ADVANCED POLYMERIC ADHESIVES AND
 FABRICATION AND EVALUATION OF COMPOSITE MATERIALS
Period Obligations
 03/08/1991-12/31/1995 FY95: \$147,334 TOTAL: \$778,870
Prin. Invest. NASA Tech. Officer CASE Category
 R A ORWOLL LARC/T L ST. CLAIR 99-Multi-Discip

NCC 1-159 College of William And Mary 8345
 CASE-BASED REASONING ABOUT PHYSICAL SYSTEMS
Period Obligations
 08/15/1991-02/12/1995 FY95: TOTAL: \$105,123
Prin. Invest. NASA Tech. Officer CASE Category
 S FEYOCK LARC/P C SCHUTTE 22-Computer Science

NCC 1-160 College of William And Mary 8346
 INCONGRUITY, INCONGRUITY RESOLUTION AND MENTAL STATES
 MEASURE AND MODIFICATION OF SITUATIONAL AWARENESS
Period Obligations
 09/24/1991-12/31/1995 FY95: TOTAL: \$99,490
Prin. Invest. NASA Tech. Officer CASE Category
 P L DERKS LARC/A T POPE 69-Psych, NEC
 L S GILLIKIN LARC/J R COMSTOCK

NGT 00-051-008 College of William And Mary 8347
 GSRP
Period Obligations
 09/12/1992-08/14/1995 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 R ORWELL LARC/E PRIOR 46-Mech Engr

NGT 00-051-258 College of William And Mary 8348
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/16/1994-06/30/1997 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A ORWOLL LARC/L EVANS 12-Chemistry

NGT 00-070-211 College of William And Mary 8349
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 06/28/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A ORWOLL HQ/F C OWENS 12-Chemistry

NGT 00-070-293 College of William And Mary 8350
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/14/1992-06/30/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A ORWOLL LARC/E PRIOR 41-Aero Engr

NGT 00-070-306 College of William And Mary 8351
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 05/14/1993-05/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S FEYOCK HQ/D K RUSSELL 22-Computer Science

NGT 00-070-381 College of William And Mary 8352
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/31/1994-07/31/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 S PARK HQ/D K RUSSELL 22-Computer Science

NGT 1-52105 College of William And Mary 8353
 GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
Period Obligations
 06/15/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 W J KESSLER LARC/R H PATER 19-Phys Sci, NEC
 LARC/J J SIGH

NAG 2-767 Estn Va Med Schl-Estrn Va Med 8354
 Authority
 EFFECTS OF MICROGRAVITY ON AURELIA EPHYRA BEHAVIOR AND
 DEVELOPMENT
Period Obligations
 03/03/1992-07/31/1996 FY95: \$81,773 TOTAL: \$445,655
Prin. Invest. NASA Tech. Officer CASE Category
 D B SPANGENBERG ARC/C M WINGET 51-Biological Sci
 ARC/R W BALLARD

NAG10-178 Estn Va Med Schl-Estrn Va Med 8355
 Authority
 ROLE OF THYROXINE IN SPACE DEVELOPED JELLYFISH
Period Obligations
 09/11/1995-09/18/1996 FY95: \$86,281 TOTAL: \$86,281
Prin. Invest. NASA Tech. Officer CASE Category
 D SPANGENBERG KSC/W M KNOTT 59-Life Sci, NEC

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAG 2-907 George Mason University 8356
 A WORKSHOP ON THE VIABILITY OF HALOPHILIC BACTERIA
 IN ANCIENT SALT DEPOSITS
Period Obligations
 06/15/1994-08/31/1995 FY95: TOTAL: \$27,800
Prin. Invest. NASA Tech. Officer CASE Category
 H MOROWITZ ARC/L I HOCHSTEIN 51-Biological Sci

NAG 5-2554 George Mason University 8364
 PEC: A SCALABLE NETWORK FOR MASSIVELY PARALLEL SYSTEMS
Period Obligations
 03/10/1994-08/31/1995 FY95: TOTAL: \$49,996
Prin. Invest. NASA Tech. Officer CASE Category
 P WANG GSFC/J E DORBAND 22-Computer Science
 D QUAMMEN

NAG 3-1397 George Mason University 8357
 A PROPOSAL FOR FURTHER INVESTIGATION OF MODIFIED BARRIER FUNCTION METHODS FOR SOLVING STRUCTURAL PROBLEMS
Period Obligations
 12/22/1992-02/21/1996 FY95: \$33,000 TOTAL: \$122,358
Prin. Invest. NASA Tech. Officer CASE Category
 R A POLYAK LERC/L BERKE 21-Mathematics

NAG 5-2652 George Mason University 8365
 HIGH PERFORMANCE COMPUTING RESEARCH
Period Obligations
 07/06/1994-06/14/1996 FY95: \$253,000 TOTAL: \$466,000
Prin. Invest. NASA Tech. Officer CASE Category
 R LOHNER GSFC/J R FISCHER 13-Physics
 GSFC/S T ZALESAK

NAG 5-2025 George Mason University 8358
 HIGH-ENERGY EMISSION FROM HOT ACCRETION DISKS IN ACTIVE GALACTIC NUCLEI
Period Obligations
 07/17/1992-05/31/1996 FY95: \$5,000 TOTAL: \$156,283
Prin. Invest. NASA Tech. Officer CASE Category
 M KAFATOS GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2710 George Mason University 8366
 CONTINUING THE SEARCH FOR GRAVITATIONAL LENSING ECHOES IN BATSE DATA
Period Obligations
 08/26/1994-06/30/1996 FY95: \$33,200 TOTAL: \$71,300
Prin. Invest. NASA Tech. Officer CASE Category
 R J NEMIROFF GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2247 George Mason University 8359
 SUSTAINING ENGINEERING: LIFE CYCLE SUPPORT FOR EVOLUTIONARY SOFTWARE DEVELOPMENT
Period Obligations
 04/14/1993-12/14/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 H GOMMA GSFC/W TRUSZKOWSKI 22-Computer Science
 GSFC/K MUELLER

NAG 5-2737 George Mason University 8367
 SPECTRAL PROPERTIES OF X-RAY AND GAMMA RAY SOURCES
Period Obligations
 09/27/1994-01/31/1996 FY95: \$103,844 TOTAL: \$103,844
Prin. Invest. NASA Tech. Officer CASE Category
 M KAFATOS GSFC/J P NORRIS 11-Astronomy
 L TITARCHUK GSFC/N WHITE

NAG 5-2320 George Mason University 8360
 ROMPS: HALOGEN LAMP ANNEALING OF POLY-CRYSTALLINE SEMICONDUCTORS - A GATEWAY SPECIAL/HITCHHIKER...
Period Obligations
 07/15/1993-12/31/1995 FY95: \$20,000 TOTAL: \$89,842
Prin. Invest. NASA Tech. Officer CASE Category
 E D COLE GSFC/L R PURVES 47-Materials Engr

NAG 5-2894 George Mason University 8368
 OSSE OBSERVATIONS OF BLAZARS
Period Obligations
 02/14/1995-02/29/1996 FY95: \$16,827 TOTAL: \$16,827
Prin. Invest. NASA Tech. Officer CASE Category
 M KAFATOS GSFC/J P NORRIS 11-Astronomy
 R C HARTMAN GSFC/N WHITE

NAG 5-2327 George Mason University 8361
 MODELS OF PARALLEL COMPUTING STRUCTURES UTILIZING HIERARCHICAL HIGH LEVEL COLORED PETRI NETS
Period Obligations
 07/15/1993-10/31/1994 FY95: TOTAL: \$19,998
Prin. Invest. NASA Tech. Officer CASE Category
 D H SCHAEFER GSFC/J R FISCHER 22-Computer Science
 GSFC/J E DORBAND

NAG 5-2897 George Mason University 8369
 DESIGN AND VISUALIZATION OF INTERACTIVE MULTIMEDIA PRODUCTS FOR SCIENCE EDUCATION
Period Obligations
 02/28/1995-02/29/1996 FY95: \$55,942 TOTAL: \$55,942
Prin. Invest. NASA Tech. Officer CASE Category
 B MONES-HATTAL GSFC/A F HASLER 31-Atmos Sci
 GSFC/A J NEGRI

NAG 5-2360 George Mason University 8362
 EUVE OBSERV. OF THE SYMBIOTIC STAR R AQUARI 2) MORPHOLOGY OF THE LOCAL H I VOID AND THE IONIZATION
Period Obligations
 08/30/1993-07/31/1996 FY95: \$10,000 TOTAL: \$144,305
Prin. Invest. NASA Tech. Officer CASE Category
 M KAFATOS GSFC/R OLIVERSEN 11-Astronomy

NAGW 4233 George Mason University 8370
 1995 NATIONAL CONFERENCE OF BLACK PHYSICS STUDENTS
Period Obligations
 01/06/1995-10/31/1995 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 C R MCINTYRE LARC/S E MASSENBERG 99-Multi-Discip

NAG 5-2442 George Mason University 8363
 COBE OBSERVATION AND THE DYNAMICS OF THE INTERPLANETARY DUST
Period Obligations
 11/30/1993-12/31/1995 FY95: TOTAL: \$75,803
Prin. Invest. NASA Tech. Officer CASE Category
 L OZERNOY GSFC/J C MATHER 11-Astronomy
 GSFC/E DWEK

NCA 2-487 George Mason University 8371
 THE ROLE OF AMPHIPHILIC BILAYER VESICLES IN BIOGENESIS
Period Obligations
 02/12/1990-12/31/1995 FY95: TOTAL: \$65,100
Prin. Invest. NASA Tech. Officer CASE Category
 H MOROWITZ ARC/S CHANG 51-Biological Sci

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAGW 4322 Hampton University 8388
HAMPTON ENGINEERING SCHOLARS PROGRAM
Period Obligations
03/22/1995-01/31/1996 FY95: \$88,804 TOTAL: \$88,804
Prin. Invest. NASA Tech. Officer CASE Category
A A ADEYIGA HQ/M A JONES 49-Engr, NEC

NAS 1-19935 Hampton University 8389
RESEARCH IN AIRWAY SCI, ARCH, AND PHYS
Period Obligations
01/29/1995-01/28/1999 FY95: \$802,465 TOTAL: \$2,514,336
Prin. Invest. NASA Tech. Officer CASE Category
N LARC/R L YANG; 99-Multi-Discip
LARC/E J PRIOR

NAS 1-20444 Hampton University 8390
EDUCATIONAL OUTREACH FOR NASA SCIENCES AND APPLICATIONS
Period Obligations
12/19/1994-12/18/1995 FY95: \$1,000,000 TOTAL: \$1,000,000
Prin. Invest. NASA Tech. Officer CASE Category
W TINSLEY LARC/L B GARRETT 19-Phys Sci, NEC

NCC 1-214 Hampton University 8391
INTERPRETATION OF LIDAR AND SATELLITE DATA SETS USING A GLOBAL PHOTOCHEMICAL MODEL
Period Obligations
06/29/1995-06/29/1997 FY95: \$89,639 TOTAL: \$89,639
Prin. Invest. NASA Tech. Officer CASE Category
T CHYBA LARC/J FISHMAN 31-Atmos Sci
LARC/J R OLSON

NCC 1-215 Hampton University 8392
LASER RESEARCH FOR TROPOSPHERIC WATER VAPOR MEASUREMENTS
Period Obligations
08/15/1995-08/14/1996 FY95: \$42,159 TOTAL: \$42,159
Prin. Invest. NASA Tech. Officer CASE Category
T H CHYBA LARC/E J CONWAY 31-Atmos Sci
LARC/N S HIGDON

NGT47-20800 Hampton University 8393
SUMMER FACULTY FELLOWSHIP PROGRAM IN RESEARCH
Period Obligations
01/01/1982-03/31/1996 FY95: \$12,000 TOTAL: \$3,085,395
Prin. Invest. NASA Tech. Officer CASE Category
J W SPENCER HQ/A S MCGEE 49-Engr, NEC
HQ/E T SCHWARTZ

NAG 1-627 Longwood College 8394
FLOW IN COMPOUNDS THAT MODEL CRYSTAL GROWTH IN BRIDGMAN FURNACES
Period Obligations
12/18/1985-06/01/1995 FY95: TOTAL: \$342,012
Prin. Invest. NASA Tech. Officer CASE Category
P G BARBER LARC/A L FRIPP 47-Materials Engr

NAG 1-1691 Longwood College 8395
DEVELOPMENT OF IMPROVED ANALYTICAL METHODS FOR THE ANALYSIS OF BRIDGMAN GROWN SEMICONDUCTOR CRYSTAL
Period Obligations
02/08/1995-02/07/1996 FY95: \$36,368 TOTAL: \$36,368
Prin. Invest. NASA Tech. Officer CASE Category
P BARBER LARC/A L FRIPP 19-Phys Sci, NEC

NAG 1-1432 Norfolk State University 8396
DEVELOPMENT OF LABORATORY EXPERIMENTS FOR ENGINEERING MATERIALS, SCIENCE, AND TECHNOLOGY
Period Obligations
04/23/1992-12/31/1995 FY95: \$15,000 TOTAL: \$85,001
Prin. Invest. NASA Tech. Officer CASE Category
J A JACOBS LARC/J E GARDNER 49-Engr, NEC
LARC/R L YANG

NAG 1-1453 Norfolk State University 8397
THE GROWTH, SYNTHESIS, AND SPECTROSCOPIC CHARACTERIZATION OF MATERIALS - NLPN 92-207R
Period Obligations
09/11/1992-09/30/1996 FY95: \$399,999 TOTAL: \$792,226
Prin. Invest. NASA Tech. Officer CASE Category
L MATTIX LARC/P R YOUNG 12-Chemistry
H R RIES LARC/N BARNES

NAG 1-1513 Norfolk State University 8398
THE INVESTIGATION OF RADIATIVE PROPERTIES OF MOLECULAR IONS NLPN 93-409
Period Obligations
07/27/1993-06/01/1995 FY95: \$15,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
G E MILLER LARC/J H LEE 13-Physics
K D SONG LARC/W E MEADOR

NAG 1-1536 Norfolk State University 8399
PCI METHODS FOR SOLVING ADVECTIVE DIFFUSION EQUATIONS ON A MULTIPROCESSING SYSTEM USING SWARTZ
Period Obligations
08/23/1993-11/30/1994 FY95: TOTAL: \$68,456
Prin. Invest. NASA Tech. Officer CASE Category
S N SHAH LARC/J J LAMBIOTTE 29-Math/Computer, NEC

NAG 1-1705 Norfolk State University 8400
PRE-SERVICE TEACHER CONFERENCE
Period Obligations
03/27/1995-03/19/1996 FY95: \$123,210 TOTAL: \$123,210
Prin. Invest. NASA Tech. Officer CASE Category
E WITTY LARC/R HATHAWAY 99-Multi-Discip
LARC/E PRIOR

NAG 3-1371 Norfolk State University 8401
AN NMR STUDY OF MICROVOIDS WATER-SOAKED EPOXY POLYMERS
Period Obligations
10/01/1992-05/07/1996 FY95: \$94,726 TOTAL: \$273,447
Prin. Invest. NASA Tech. Officer CASE Category
L MATTIX LERC/M A MEADOR 47-Materials Engr

NAG 8-257 Norfolk State University 8402
JOVE
Period Obligations
01/15/1993-05/31/1995 FY95: TOTAL: \$62,288
Prin. Invest. NASA Tech. Officer CASE Category
L MATTIX MSFC/F SIX 99-Multi-Discip

NCC 1-200 Norfolk State University 8403
COOPERATIVE PROGRAM FOR RESEARCH AND CURRICULUM DEVELOPMENT IN EARTH SYSTEM SCIENCE -- MY 1/3
Period Obligations
09/27/1994-12/31/1995 FY95: \$89,419 TOTAL: \$219,419
Prin. Invest. NASA Tech. Officer CASE Category
S R CHAUDURY LARC/R HATHAWAY 39-Env Sci, NEC
T LARC/E PRIOR
MARSHALL-BRADLEY

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NGT 00-090-160 Norfolk State University 8404
EXPANDING CHROME CLUBS
Period Obligations
05/05/1993-02/28/1996 FY95: \$96,278 TOTAL: \$239,436
Prin. Invest. NASA Tech. Officer CASE Category
J S SHAY HQ/S STOVALL-ALEXANDER 49-Engr, NEC

NAG 1-363 Old Dominion University 8405
INSTITUTE FOR COMPUTATIONAL AND APPLIED MECHANICS (ICAM)
Period Obligations
05/06/1983-06/30/1995 FY95: TOTAL: \$1,511,912
Prin. Invest. NASA Tech. Officer CASE Category
S N TIWARI LARC/S E MASSENBERG 41-Aero Engr
LARC/E J PRIOR

NAG 1-439 Old Dominion University 8406
POTENTIAL USE OF AUTOMATIC PROGRAMMING TECHNOLOGY IN THE PRODUCTION OF ULTRA-RELIABLE COMPUTING SYST
Period Obligations
01/10/1984-12/31/1995 FY95: \$78,746 TOTAL: \$857,020
Prin. Invest. NASA Tech. Officer CASE Category
C D WILD LARC/D E ECKHARDT 22-Computer Science
S ZEIL

NAG 1-648 Old Dominion University 8407
UNSTEADY HYBRID VORTEX TECHNIQUE FOR TRANSONIC VORTEX FLOWS AND FLUTTER APPLICATIONS
Period Obligations
02/20/1986-11/30/1995 FY95: \$45,000 TOTAL: \$547,652
Prin. Invest. NASA Tech. Officer CASE Category
O A KANDIL LARC/J B MALONE 41-Aero Engr
LARC/W WHITLOW

NAG 1-750 Old Dominion University 8408
SOFTWARE RELIABILITY MODELS BASED ON PROGRAM SPACE EQUIVALENCE CLASSES
Period Obligations
03/30/1987-10/01/1994 FY95: TOTAL: \$121,981
Prin. Invest. NASA Tech. Officer CASE Category
L WILSON LARC/K J HAYHURST 29-Math/Computer, NEC
LARC/G B FINELLI

NAG 1-858 Old Dominion University 8409
PARALLEL PROCEDURES FOR STATICS, EIGENVALUE ANALYSIS AND STRUCTURAL DYNAMICS
Period Obligations
02/24/1988-09/30/1995 FY95: TOTAL: \$357,473
Prin. Invest. NASA Tech. Officer CASE Category
D T NGUYEN LARC/O O STORAASLI 44-Civil Engr
LARC/S BOSTIC

NAG 1-908 Old Dominion University 8410
EXTREMELY HIGH DATA-RATE, RELIABLE NETWORK SYSTEMS RESEARCH
Period Obligations
09/02/1988-08/15/1996 FY95: \$35,810 TOTAL: \$137,104
Prin. Invest. NASA Tech. Officer CASE Category
K MALY LARC/N D MURRAY 22-Computer Science

NAG 1-994 Old Dominion University 8411
ANALYSIS AND CONTROL OF SUPERSONIC VORTEX BREAK-DOWN FLOWS
Period Obligations
03/17/1989-09/15/1995 FY95: TOTAL: \$656,306
Prin. Invest. NASA Tech. Officer CASE Category
O A KANDIL LARC/G C GREENE 13-Physics

NAG 1-1056 Old Dominion University 8412
LARGE ANGLE MAGNETIC SUSPENSION TEST FIXTURE
Period Obligations
08/29/1989-10/31/1995 FY95: \$85,090 TOTAL: \$332,862
Prin. Invest. NASA Tech. Officer CASE Category
C P BRITCHER LARC/N J GROOM 49-Engr, NEC

NAG 1-1067 Old Dominion University 8413
POLYMER INFILTRATION STUDIES
Period Obligations
10/25/1989-04/30/1995 FY95: TOTAL: \$742,749
Prin. Invest. NASA Tech. Officer CASE Category
J M MARCHELLO LARC/R M BAUCOM 43-Chem Engr
S N TIWARI LARC/J B NELSON

NAG 1-1114 Old Dominion University 8414
BUILDING A GENERALIZED DISTRIBUTED SYSTEM MODEL
Period Obligations
03/15/1990-12/31/1995 FY95: \$12,230 TOTAL: \$66,111
Prin. Invest. NASA Tech. Officer CASE Category
R MUKKAMALA LARC/W H BRYANT 22-Computer Science
E FOUURIAT

NAG 1-1140 Old Dominion University 8415
AN INVESTIGATION OF GLOW DISCHARGE MEMBRANE SEPERATION OF OXYGEN FROM MARS ATMOSPHERE
Period Obligations
05/07/1990-12/31/1995 FY95: \$51,000 TOTAL: \$180,383
Prin. Invest. NASA Tech. Officer CASE Category
R L ASH LERC/R A OUTLAW 47-Materials Engr
LERC/J H LEE

NAG 1-1150 Old Dominion University 8416
A CFD STUDY OF COMPLEX MISSILE AND STORE CONFIGURATIONS IN RELATIVE MOTION.
Period Obligations
05/31/1990-09/30/1994 FY95: TOTAL: \$341,182
Prin. Invest. NASA Tech. Officer CASE Category
O BAYSAL LARC/D S MILLER 19-Phys Sci, NEC
LARC/R P BOYDEN

NAG 1-1223 Old Dominion University 8417
NEW METHOD FOR RECOGNIZING QUADRIC SURFACES FROM RANGE DATA AND APPLICATION TO TELEBOTICS AND AUTOMA
Period Obligations
02/20/1991-02/28/1994 FY95: TOTAL: \$211,556
Prin. Invest. NASA Tech. Officer CASE Category
R MIELKE LARC/P W GOODE 29-Math/Computer, NEC

NAG 1-1265 Old Dominion University 8418
METHODOLOGY FOR SENSITIVITY ANALYSIS, APPROXIMATE ANALYSIS AND DESIGN OPTIMIZATION IN CFD FOR MULTI
Period Obligations
04/11/1991-12/31/1995 FY95: TOTAL: \$306,360
Prin. Invest. NASA Tech. Officer CASE Category
A C TAYLOR LARC/H E JONES 41-Aero Engr
G W HOU LARC/E C YATES

NAG 1-1302 Old Dominion University 8419
VIRGINIA NETWORK FOR TECHNOLOGY
Period Obligations
07/10/1991-06/30/1995 FY95: TOTAL: \$118,797
Prin. Invest. NASA Tech. Officer CASE Category
E M RUDISILL LARC/S E MASSENBERG 21-Mathematics

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAG 1-1358 Old Dominion University 8420
 NONLINEAR ANALYSES OF COMPOSITE AEROSPACE STRUCTURES
 IN SONIC FATIGUE
Period Obligations
 11/19/1991-03/15/1995 FY95: \$21,365 TOTAL: \$357,500
Prin. Invest. NASA Tech. Officer CASE Category
 C MEI LARC/S A RIZZI 41-Aero Engr
 U SHIRAHATTI LARC/C A POWELL

NAG 1-1550 Old Dominion University 8428
 A PARALLEL AND DISTRIBUTED COMPUTING ENVIRONMENT F OR
 SCIENTIFIC APPLICATIONS
Period Obligations
 11/17/1993-12/31/1995 FY95: \$22,000 TOTAL: \$91,568
Prin. Invest. NASA Tech. Officer CASE Category
 K MALY LARC/M D SALAS 22-Computer Science
 M ZUBAIR
 C M OVERSTREET

NAG 1-1424 Old Dominion University 8421
 THEORETICAL STUDIES OF THERMAL AND ELECTRIC PROPULSION
Period Obligations
 04/13/1992-08/31/1995 FY95: TOTAL: \$217,295
Prin. Invest. NASA Tech. Officer CASE Category
 J H HEINBOCKEL LARC/S H CHOI 13-Physics
 LARC/E J CONWAY

NAG 1-1551 Old Dominion University 8429
 BASELINE BIOLOGICAL SURVEY OF TERRESTRIAL AND AQUATIC
 HABITATS ENDANGERED AND THREATENED FAUNA
Period Obligations
 12/21/1993-02/28/1995 FY95: TOTAL: \$37,089
Prin. Invest. NASA Tech. Officer CASE Category
 R L BEDENBAUGH LARC/J A BENSON 54-Env Biology

NAG 1-1426 Old Dominion University 8422
 DEVELOPMENT OF A CASE TOOL TO SUPPORT DECISION BASED
 SOFTWARE DEVELOPMENT
Period Obligations
 04/13/1992-09/30/1995 FY95: \$12,231 TOTAL: \$34,246
Prin. Invest. NASA Tech. Officer CASE Category
 C WILD LARC/D E ECKHARDT 22-Computer Science

NAG 1-1552 Old Dominion University 8430
 HOT-WIRE ANEMOMETER MEASUREMENTS IN TRANSONIC AND
 SLIP-FLOW ENVIRONMENTS NLPN 93-826
Period Obligations
 11/18/1993-11/17/1994 FY95: TOTAL: \$33,077
Prin. Invest. NASA Tech. Officer CASE Category
 R L ASH LARC/G S JONES 41-Aero Engr

NAG 1-1431 Old Dominion University 8423
 THERMAL STRUCTURAL ANALYSIS FOR CSM TESTBED NLPN
 92-231
Period Obligations
 04/17/1992-08/15/1994 FY95: TOTAL: \$108,353
Prin. Invest. NASA Tech. Officer CASE Category
 C MEI LARC/J M HOUSNER 46-Mech Engr

NAG 1-1556 Old Dominion University 8431
 LAMINAR INSTABILITY MEASUREMENT SYSTEM FOR SLFC FLIGHT
 RESEARCH PROGRAM
Period Obligations
 11/24/1993-05/31/1995 FY95: TOTAL: \$109,574
Prin. Invest. NASA Tech. Officer CASE Category
 S N TIWARI LARC/M C FISCHER 41-Aero Engr
 S J MILEY

NAG 1-1437 Old Dominion University 8424
 IMPROVED TECHNIQUES FOR VORTEX HAZARD PREDICTION NEAR
 AIRPORTS
Period Obligations
 04/28/1992-10/31/1995 FY95: \$110,000 TOTAL: \$293,415
Prin. Invest. NASA Tech. Officer CASE Category
 R L ASH LARC/G C GREENE 13-Physics
 LARC/D D VICROY

NAG 1-1567 Old Dominion University 8432
 NONLINEAR TRANSIENT THERMAL ANALYSIS BY THE FORCE OF
 DERIVATIVE METHOD
Period Obligations
 01/05/1994-01/03/1996 FY95: \$30,610 TOTAL: \$50,110
Prin. Invest. NASA Tech. Officer CASE Category
 G HOU LARC/C J CANARDA 41-Aero Engr
 V BALEKRISHNEN LARC/J H STARNES

NAG 1-1499 Old Dominion University 8425
 DOMAIN DECOMPOSITION FOR ANALYSIS AND OPTIMIZATION NLPN
 93-220
Period Obligations
 03/30/1993-09/30/1995 FY95: TOTAL: \$67,000
Prin. Invest. NASA Tech. Officer CASE Category
 O BAYAAL LARC/J M LUCKRING 29-Math/Computer,NEC

NAG 1-1576 Old Dominion University 8433
 AERODYNAMIC SHAPE OPTIMIZATION DIRECTED TOWARD A
 SUPERSONIC TRANSPORT USING SENSITIVITY ANALYSIS
Period Obligations
 03/10/1994-08/15/1995 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 O BAYSAL LARC/J L DILLON 41-Aero Engr
 LARC/P F COVELL

NAG 1-1505 Old Dominion University 8426
 ASSUMED-STRESS HYBRID ELEMENTS WITH DRILLING DEGREES
 OF FREEDOM FOR NONLINEAR ANALYSIS
Period Obligations
 04/21/1993-12/31/1995 FY95: \$41,220 TOTAL: \$221,083
Prin. Invest. NASA Tech. Officer CASE Category
 N KNIGHT LARC/A TESSLER 46-Mech Engr

NAG 1-1518 Old Dominion University 8427
 INSTABILITY WAVE MODELS AND SUPERSONIC JET NOISE NLPN
 93-232
Period Obligations
 05/28/1993-07/31/1995 FY95: \$42,323 TOTAL: \$158,788
Prin. Invest. NASA Tech. Officer CASE Category
 S H TIWARI LARC/J M SEINER 41-Aero Engr
 T R BHAT LARC/M K PONTON

NAG 1-1578 Old Dominion University 8434
 DEVELOPMENT OF A Ti:AL2O3 LASER FOR REMOTE SENSING OF
 THE ATMOSPHERE NLPN 93-1104
Period Obligations
 12/16/1993-12/31/1995 FY95: \$24,978 TOTAL: \$48,756
Prin. Invest. NASA Tech. Officer CASE Category
 H ELSAYED-ALI LARC/E V BROWELL 13-Physics
 W SITU LARC/A F CARTER

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAG 1-1588 Old Dominion University 8435
ANALYSIS AND DESIGN OF FUSELAGE STRUCTURES INCLUDI NG
RESIDUAL STRENGTH PREDICTION METHODOLOGY
Period Obligations
02/09/1994-12/31/1995 FY95: \$127,972 TOTAL: \$218,342
Prin. Invest. NASA Tech. Officer CASE Category
N F KNIGHT LARC/J H STARNES 41-Aero Engr
M S ANDERSON LARC/D R AMBUR

NAG 1-1603 Old Dominion University 8436
SUPERSONIC SUCTION LAMINAR FLOW CONTROL EXPERIMENT
WITH APPLICATION TO THE HIGH SPEED CIVIL TRANSPOR
Period Obligations
12/28/1993-11/30/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
T AMER LARC/M J WALSH 46-Mech Engr

NAG 1-1653 Old Dominion University 8437
AN INVESTIGATION OF HIGH-ORDER SHOCK-CAPTURING MET HODS
FOR COMPUTATIONAL AEROACOUSTICS -- MY1/3
Period Obligations
01/06/1995-12/31/1995 FY95: \$80,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
J H CASPER LARC/H L ATKINS 41-Aero Engr
O BAYSAL LARC/J L THOMAS

NAG 1-1670 Old Dominion University 8438
A TWO DIMENSIONAL INTERFACE ELEMENT FOR COUPLING OF
INDEPENDENTLY MODELED THREE DIMENSIONAL FINITE
Period Obligations
01/12/1995-01/11/1996 FY95: \$100,810 TOTAL: \$100,810
Prin. Invest. NASA Tech. Officer CASE Category
M A AMINPOUR LARC/R K NORWOOD 46-Mech Engr
LARC/W J STROUD

NAG 1-1677 Old Dominion University 8439
PREDICTION AND CONTROL OF SUPERSONIC JET NOISE
Period Obligations
01/13/1995-01/12/1996 FY95: \$80,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
P BALAKUMAR LARC/M G MACARAEG 11-Astronomy

NAG 1-1684 Old Dominion University 8440
EXPERIMENTAL AND NUMERICAL ANALYSES OF STRUCTURAL
ACOUSTIC CONTROL FOR INTERIOR NOISE REDUCTION
Period Obligations
01/10/1995-01/09/1996 FY95: \$93,198 TOTAL: \$93,198
Prin. Invest. NASA Tech. Officer CASE Category
C MEI LARC/T L TURNER 41-Aero Engr
LARC/K P SHEPHERD

NAG 1-1690 Old Dominion University 8441
INFORMATION TECHNOLOGY: A TOOL TO CUT HEALTH CARE
COSTS
Period Obligations
02/27/1995-02/28/1996 FY95: \$19,905 TOTAL: \$19,905
Prin. Invest. NASA Tech. Officer CASE Category
R MUKKAMALA LARC/W H BRYANT 22-Computer Science

NAG 1-1692 Old Dominion University 8442
PARALLEL IMPLICIT ALGORITHMS FOR CFD
Period Obligations
02/23/1995-02/22/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
D E KEYES LARC/N D MELSON 29-Math/Computer,NEC
LARC/J L THOMAS

NAG 1-1745 Old Dominion University 8443
A PROPOSAL FOR BENCHMARKING THE FUTURE AUTOMATED A
IR TRAFFIC MANAGEMENT (NLPN 95-625)
Period Obligations
08/15/1995-08/15/1996 FY95: \$12,169 TOTAL: \$12,169
Prin. Invest. NASA Tech. Officer CASE Category
D MALY LARC/W H BRYANT 22-Computer Science

NAG 1-1747 Old Dominion University 8444
NEW NASA RESEARCH GRANT
Period Obligations
08/11/1995-08/11/1996 FY95: \$20,885 TOTAL: \$20,885
Prin. Invest. NASA Tech. Officer CASE Category
D MUKKAMALA LARC/W H BRYANT 22-Computer Science

NAG 1-1750 Old Dominion University 8445
REMOTELY ACTUATED FLAP PROJECT
Period Obligations
08/15/1995-02/28/1996 FY95: \$19,962 TOTAL: \$19,962
Prin. Invest. NASA Tech. Officer CASE Category
D LANDMAN LARC/J C LIN 41-Aero Engr
C P BRITCHER

NAG 3-1329 Old Dominion University 8446
CONVERGENCE ACCELERATION OF THE PROTEUS COMPUTER C
ODE WITH MULTIGRID METHODS
Period Obligations
02/19/1992-01/15/1995 FY95: TOTAL: \$187,652
Prin. Invest. NASA Tech. Officer CASE Category
A O DEMUREN LARC/J R SCOTT 29-Math/Computer,NEC

NAG 5-1401 Old Dominion University 8447
OCEAN COLOR MEASUREMENTS IN COUPLED MODELS
Period Obligations
07/05/1990-12/31/1993 FY95: TOTAL: \$101,222
Prin. Invest. NASA Tech. Officer CASE Category
E E HOFMANN GSFC/C R MCCLAIN 33-Oceanography

NAG 5-1527 Old Dominion University 8448
STUDIES OF PARTICLE RADIATION DAMAGE EFFECTS IN
SPACECRAFT INSTRUMENTATION
Period Obligations
04/08/1991-04/14/1996 FY95: TOTAL: \$197,000
Prin. Invest. NASA Tech. Officer CASE Category
J BECHER GSFC/R A KIMBLE 13-Physics
GSFC/F J REBAR

NAGW 3550 Old Dominion University 8449
ASSIMILATION OF OCEAN COLOR MEASUREMENT INTO PHYSI CAL
BIOLOGICAL MODELS
Period Obligations
04/29/1993-02/28/1996 FY95: \$140,000 TOTAL: \$345,000
Prin. Invest. NASA Tech. Officer CASE Category
E HOFMANN HQ/R E MURPHY 33-Oceanography
HQ/D M BUTLER

NAGW 3981 Old Dominion University 8450
AVHRR PATHFINDER OCEAN DATA VALIDATION
Period Obligations
05/14/1994-01/31/1996 FY95: \$189,610 TOTAL: \$383,690
Prin. Invest. NASA Tech. Officer CASE Category
E SMITH HQ/M E MAIDEN 33-Oceanography

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAGW 4339 Old Dominion University 8451
MECHANICAL SYSTEMS DESIGN FOR ADVANCED SPACE
MISSIONS/ADVANCED DESIGN PROGRAM
Period Obligations
03/04/1995-02/28/1996 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
R ASH HQ/A S MCGEE 49-Engr, NEC
HQ/G JOHNSTON

NCC 1-176 Old Dominion University 8458
FUNCTIONAL RELATIONSHIPS AMONG MONITORING PERFORM-
ANCE: SUBJECTIVE REPORT OF THOUGHT PROCESS
Period Obligations
03/30/1993-09/30/1995 FY95: TOTAL: \$33,095
Prin. Invest. NASA Tech. Officer CASE Category
F G FREEMAN LARC/A T POPE 69-Psych, NEC
M W SCERBO LARC/J R COMSTOCK

NAG10-110 Old Dominion University 8452
ROOT GROWTH AND DEVELOPMENT IN RESPONSE CO2 STUDY
Period Obligations
07/02/1992-10/15/1994 FY95: TOTAL: \$25,664
Prin. Invest. NASA Tech. Officer CASE Category
F P DAY KSC/W M KNOTT 51-Biological Sci

NCC 1-180 Old Dominion University 8459
COMPUTATIONAL AND EXPERIMENTAL PARAMETRIC STUDY OF
TRANSITION AT HIGH MACH NUMBERS
Period Obligations
05/13/1993-02/15/1996 FY95: \$60,960 TOTAL: \$108,640
Prin. Invest. NASA Tech. Officer CASE Category
G V SELBY LARC/S P WILKINSON 41-Aero Engr
A E BLANCHARD

NAS 1-19858 Old Dominion University 8453
RESEARCH IN AERODYNAMICS AND RELATED FIELDS
Period Obligations
11/05/1992-11/08/1997 FY95: \$2,288,234 TOTAL: \$5,502,622
Prin. Invest. NASA Tech. Officer CASE Category
LARC/E J PRIOR 41-Aero Engr
LARC/R L YANG

NCC 1-211 Old Dominion University 8460
COUPLING CELL-CENTERED FINITE-VOLUME MULTIBLOCK VI SCOUS
CFD METHODOLOGY WITH OPTIMIZATION
Period Obligations
03/09/1995-03/08/1996 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
O BAYSAL LARC/V N VATSA 41-Aero Engr

NCC 1-42 Old Dominion University 8454
A STUDY OF PHYSICAL PROCESSES FOR SPACE - RELATED
PROTECTION
Period Obligations
06/04/1980-12/31/1995 FY95: \$128,500 TOTAL: \$1,470,888
Prin. Invest. NASA Tech. Officer CASE Category
G S KHANDELWAL LARC/L W TOWNSEND 13-Physics
LARC/E J CONWAY

NCC 1-213 Old Dominion University 8461
SINGULARITY PRESERVING NUMERICAL METHODS FOR BOUNDRY
INTEGRAL EQUATIONS
Period Obligations
05/08/1995-05/07/1996 FY95: \$27,000 TOTAL: \$27,000
Prin. Invest. NASA Tech. Officer CASE Category
H KANEKO LARC/P A PADILLA 21-Mathematics
Y XU

NCC 1-68 Old Dominion University 8455
NUMERICAL SOLUTION OF AXISYMMETRIC FLOW WITH ARBITRARY
WALL GEOMETRY
Period Obligations
05/28/1982-09/30/1995 FY95: \$35,000 TOTAL: \$515,349
Prin. Invest. NASA Tech. Officer CASE Category
S N TIWARI LARC/R E SMITH JR. 41-Aero Engr
J S ABOLHASSANI LARC/J N SHOOSMITH
M KATHONG

NGT 00-030-354 Old Dominion University 8462
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
07/20/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
E HOFMANN HQ/A C JANETOS 33-Oceanography
T BUSALACCHI HQ/G ASRAR

NCC 1-99 Old Dominion University 8456
GEOMETRIC MODELING FOR COMPUTER AIDED DESIGN
Period Obligations
06/14/1985-06/30/1995 FY95: TOTAL: \$1,294,706
Prin. Invest. NASA Tech. Officer CASE Category
J L SCHWING LARC/L F ROWELL 22-Computer Science
LARC/M L MCMILLIN

NGT 00-040-009 Old Dominion University 8463
NATIONAL SPACE GRANT COLLEGE
Period Obligations
10/12/1989-01/31/1998 FY95: \$404,000 TOTAL: \$2,640,694
Prin. Invest. NASA Tech. Officer CASE Category
M L SANDY HQ/E T SCHWARTZ 99-Multi-Discip

NCC 1-136 Old Dominion University 8457
ATAMM ENHANCEMENT AND MULTIPROCESSOR PERFORMANCE
EVALUATION
Period Obligations
03/15/1989-03/31/1994 FY95: TOTAL: \$1,206,744
Prin. Invest. NASA Tech. Officer CASE Category
W STOUGHTON LARC/P J HAYES 45-Elec Engr
R R MIELKE LARC

NGT 00-050-716 Old Dominion University 8464
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/25/1991-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
G V SELBY HQ/F C OWENS 46-Mech Engr

NGT 00-050-980 Old Dominion University 8465
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/24/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
A O DEMUREH LARC/E PRIOR 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
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NGT 00-050-986 Old Dominion University 8466
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/20/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G COATES LARC/E PRIOR 69-Psych, NEC

NGT 00-070-263 Old Dominion University 8475
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 07/15/1992-04/30/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 W L HARNES LARC/E J PRIOR 13-Physics

NGT 00-050-987 Old Dominion University 8467
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/19/1992-10/31/1995 FY95: \$3,649 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R PROBHKARAN LARC/E J PRIOR 46-Mech Engr

NGT 00-070-300 Old Dominion University 8476
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 10/21/1992-08/31/1994 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J HUANG LARC/E J PRIOR 46-Mech Engr

NGT 00-051-103 Old Dominion University 8468
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/27/1993-06/30/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 A DHARAMSI HQ/J T LYNCH 45-Elec Engr

NGT 00-070-307 Old Dominion University 8477
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 05/23/1993-05/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S ALBIN HQ/J T LYNCH 45-Elec Engr

NGT 00-051-104 Old Dominion University 8469
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/22/1993-07/31/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 G S KHANDLWAL LARC/E J PRIOR 13-Physics

NGT 00-070-308 Old Dominion University 8478
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 05/20/1994-06/30/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S ALBIN HQ/D K RUSSELL 45-Elec Engr

NGT 00-051-164 Old Dominion University 8470
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/23/1993-12/31/1995 FY95: \$11,000 TOTAL: \$40,334
Prin. Invest. NASA Tech. Officer CASE Category
 S TIWARI HQ/J T LYNCH 46-Mech Engr

NGT 00-070-382 Old Dominion University 8479
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
 MINORITY FOCUS PROGRAM
Period Obligations
 08/30/1994-06/30/1997 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J L SCHWING HQ/D K RUSSELL 22-Computer Science

NGT 00-051-188 Old Dominion University 8471
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/01/1993-07/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 K H SCHOENBACH LARC/L EVANS 45-Elec Engr

NGT 00-090-143 Old Dominion University 8480
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
 09/26/1992-08/14/1995 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
 E J CROSS HQ/D K RUSSELL 99-Multi-Discip

NGT 00-051-247 Old Dominion University 8472
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 A C TAYLOR LARC/L EVANS 46-Mech Engr

NGT 00-090-279 Old Dominion University 8481
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 01/31/1995-06/14/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
 N BROWN HQ/D K RUSSELL 44-Civil Engr

NGT 00-051-253 Old Dominion University 8473
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J B COOPER LARC/L EVANS 12-Chemistry

NGT 1-52113 Old Dominion University 8482
 GRADUATE STUDENT RESEARCHER (GSRP)
Period Obligations
 06/16/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 M D MEYER LARC/C L CARPENTER 22-Computer Science
 R D HOLT LARC/J L GARCIA

NGT 00-051-259 Old Dominion University 8474
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/09/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 R L ASH LARC/L EVANS 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
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NGT 1-52118	Old Dominion University	8483		
GRADUATE STUDENT RESEARCHER PROGRAM				
<i>Period</i>		<i>Obligations</i>		
06/28/1995-06/30/1996	FY95: \$22,000	TOTAL: \$22,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
N WILSON	LARC/A T POPE	69-Psych, NEC		
	LARC/J R COMSTOCK			
NGT47-3029	Old Dominion University	8484		
TO SUPPORT THE SUMMER FACULTY FELLOWSHIP PROGRAM IN RESEARCH \$150,870				
<i>Period</i>		<i>Obligations</i>		
11/14/1969-12/31/1995	FY95: \$624,695	TOTAL: \$4,710,084		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
S N TIWARI	HQ/A S MCGEE	49-Engr, NEC		
	HQ/E T SCHWARTZ			
NAG 8-1009	Radford University	8485		
JOVE				
<i>Period</i>		<i>Obligations</i>		
11/24/1993-05/31/1996	FY95: \$45,841	TOTAL: \$75,841		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
J D ECKERT	MSFC/F SIX	11-Astronomy		
B H KUENNECKE				
NGT 00-023-000	Thomas Nelson Community College	8488		
NGT-23000/THOMAS NELSON COMMUNITY COLL/STUDENT PROGRAMS UNDER THOMAS NELSON COMMUNITY COLL				
<i>Period</i>		<i>Obligations</i>		
11/05/1992-11/30/1996	FY95: \$128,822	TOTAL: \$560,739		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
S FINCKE	LARC/R YANG	99-Multi-Discip		
NAG 1-350	University of Virginia	8489		
STRESS EFFECTS IN MULTILAYERS				
<i>Period</i>		<i>Obligations</i>		
04/07/1983-12/31/1994	FY95: \$6,999	TOTAL: \$1,526,089		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
W A JESSER	ARC/A L FRIPP	19-Phys Sci, NEC		
M E ORAZEM	LARC/I O CLARK			
NAG 1-745	University of Virginia	8490		
ENVIRONMENT ASSISTED DEGRADATION MECHANISMS IN ALUMINUM-LITHIUM ALLOYS				
<i>Period</i>		<i>Obligations</i>		
03/23/1987-12/31/1995	FY95: \$567,452	TOTAL: \$7,427,181		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
R P GANGLOFF	LARC/D L DICUS	47-Materials Engr		
G E STONER	LARC/D M ROYSTER			
NAG 1-795	University of Virginia	8491		
SUPERSONIC COMBUSTION OF HYDROGEN IN AIR				
<i>Period</i>		<i>Obligations</i>		
07/14/1987-08/31/1994	FY95:	TOTAL: \$3,134,511		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
J C MCDANIEL	LARC/G B NORTHAN	41-Aero Engr		
	LARC/ANTCLIFF			
NAG 1-1013	University of Virginia	8492		
ANALYSIS OF HIGH SPEED FLOW, THERMAL AND STRUCTURAL INTERACTIONS				
<i>Period</i>		<i>Obligations</i>		
06/05/1989-05/31/1994	FY95: \$18,021	TOTAL: \$1,013,233		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
E A THORNTON	LARC/A R WIETING	49-Engr, NEC		
NAG 1-1112	University of Virginia	8493		
ALGORITHMS FOR PARALLEL AND VECTOR COMPUTATION				
<i>Period</i>		<i>Obligations</i>		
03/07/1990-02/28/1995	FY95:	TOTAL: \$144,987		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
J M ORTEGA	LARC/A L OVERMAN	29-Math/Cmputer, NEC		
	LARC/J J LAMBIOTTE			
NAG 1-1123	University of Virginia	8494		
SOFTWARE FAULT TOLERANCE USING DATA DIVERSITY				
<i>Period</i>		<i>Obligations</i>		
04/02/1990-07/31/1996	FY95: \$86,858	TOTAL: \$484,213		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
J C KNIGHT	LARC/D E ECKHARDT	22-Computer Science		
NAG 1-1162	University of Virginia	8495		
TRANSVERSRE STRESSES IN LAMINATED COMPOSITE PANELS (FDP)				
<i>Period</i>		<i>Obligations</i>		
07/11/1990-08/31/1996	FY95: \$102,389	TOTAL: \$461,590		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
A K NOOR	LARC/J H STARNES	41-Aero Engr		
NAG 1-1180	University of Virginia	8496		
NONLINEAR ANALYSIS AND MODELING OF TIRES				
<i>Period</i>		<i>Obligations</i>		
09/17/1990-12/31/1995	FY95: \$65,000	TOTAL: \$295,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
A K NOOR	LARC/J A TANNER	46-Mech Engr		
	LARC/M P ROBINSON			
NAG 1-1197	University of Virginia	8497		
COMPUTATIONAL STRATEGY FOR PREDICTING THE DYNAMIC RESPONSE OF COMPOSITE STRUCTURES DURING IMPACT-FDP				
<i>Period</i>		<i>Obligations</i>		
11/09/1990-11/07/1994	FY95:	TOTAL: \$189,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
A K NOOR	LARC/H D CARDEN	44-Civil Engr		
NAG 1-1529	University of Virginia	8498		
RESEARCH IN PARALLEL COMPUTING				
<i>Period</i>		<i>Obligations</i>		
07/12/1993-07/08/1996	FY95: \$10,000	TOTAL: \$80,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
J M ORTEGA	LARC/J J LAMBIOTTE	22-Computer Science		
NAG 1-1633	University of Virginia	8499		
FUEL PLUME IMAGING VALIDATION				
<i>Period</i>		<i>Obligations</i>		
07/06/1994-12/31/1995	FY95: \$123,000	TOTAL: \$193,000		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
J C MCDANIEL	LARC/R C ROGERS	41-Aero Engr		
	LARC/C R MCCLINTON			
NAG 1-1678	University of Virginia	8500		
TECHNOLOGY FOR ELEVATED TEMPERATURE TESTS OF STRUCTURAL PANELS				
<i>Period</i>		<i>Obligations</i>		
01/30/1995-01/29/1996	FY95: \$50,010	TOTAL: \$50,010		
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>		
E A THORNTON	LARC/S J SCOTTI	41-Aero Engr		
G LAUFER	LARC/J W SAWYER			

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAG 1-1680 University of Virginia 8501
 MICROGRAVITY CHEMICAL VAPOR DEPOSITION
Period Obligations
 01/27/1995-10/26/1995 FY95: \$74,992 TOTAL: \$74,992
Prin. Invest. NASA Tech. Officer CASE Category
 W A JESSER LARC/I O CLARK 47-Materials Engr

NAG 1-1710 University of Virginia 8502
 MULTIDISCIPLINARY PROBLEMS
Period Obligations
 03/31/1995-03/31/1996 FY95: \$25,000 TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
 J M ORTEGA LARC/J L WALSH 29-Math/Computer,NEC

NAG 1-1721 University of Virginia 8503
 TIME-RESOLVED NONINTRUSIVE FLOWFIELD MEASUREMENTS IN
 A SUPERSONIC JET USING LASER-INDUCED IODINE
Period Obligations
 04/20/1995-07/31/1995 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
 J C MCDANIEL JR. LARC/J M SEINER 41-Aero Engr
 LARC/M K PONTON

NAG 1-1723 University of Virginia 8504
 MOLECULAR MODELING OF POLYIMIDES
Period Obligations
 04/26/1995-04/25/1996 FY95: \$24,200 TOTAL: \$24,200
Prin. Invest. NASA Tech. Officer CASE Category
 B L FARMER LARC/J A HINKLEY 47-Materials Engr
 LARC/T S GATES

NAG 3-1319 University of Virginia 8505
 MICROMECHANICAL MODELLING OF GRAPHITE/COPPER COMPO
 SITES UNDER THERMOMECHANICAL LOADING
Period Obligations
 01/29/1992-01/31/1996 FY95: \$45,000 TOTAL: \$164,158
Prin. Invest. NASA Tech. Officer CASE Category
 M J PINDERA LERC/R V MINER 47-Materials Engr

NAG 3-1334 University of Virginia 8506
 HIGH PERFORMANCE MAGNETIC BEARINGS FOR AERO APPLIC
 AITONS
Period Obligations
 03/03/1992-10/22/1995 FY95: \$30,000 TOTAL: \$317,324
Prin. Invest. NASA Tech. Officer CASE Category
 P E ALLAIRE LERC/G V BROWN 46-Mech Engr
 C R KNOSPE
 E H MASLEN

NAG 3-1377 University of Virginia 8507
 MICROMECHANICS OF ADVANCED MULTI-PHASED AND FUNCTION
 ALLY GRADED COMPOSITES
Period Obligations
 11/02/1992-12/06/1995 FY95: \$75,000 TOTAL: \$210,652
Prin. Invest. NASA Tech. Officer CASE Category
 M PINDERA LERC/S M ARNOLD 41-Aero Engr

NAG 3-1396 University of Virginia 8508
 THE EFFECTS OF CONVECTION ON THE THERMOCAPILLARY M
 OTION OF DEFORMABLE DROPS IN CYLINDRICAL CONTAINER
Period Obligations
 12/04/1992-11/30/1995 FY95: \$90,088 TOTAL: \$259,716
Prin. Invest. NASA Tech. Officer CASE Category
 H HAJ-HARI RI LERC/J A SALZMAN 46-Mech Engr

NAG 3-1518 University of Virginia 8509
 FREE STREAM VITIATION EFFECTS ON SUPERSONIC COMBUS TION
 OF HYDROGEN IN AIR
Period Obligations
 09/10/1993-12/31/1995 FY95: \$100,000 TOTAL: \$378,938
Prin. Invest. NASA Tech. Officer CASE Category
 R H KRAUSS LERC/S R THOMAS 41-Aero Engr
 J C MCDANIEL LERC/C J TREFNY
 H K CHELLIAH

NAG 5-700 University of Virginia 8510
 ULTRAVIOLET IMAGING TELESCOPE ASTRONOMICAL
 OBSERVATIONS
Period Obligations
 09/01/1985-07/14/1996 FY95: TOTAL: \$898,552
Prin. Invest. NASA Tech. Officer CASE Category
 R W O CONNELL GSFC/T P STECHER 11-Astronomy
 GSFC/G R BAKER

NAG 5-865 University of Virginia 8511
 MICROGRAVITY NUCLEATION AND PARTICLE COAGULATION
 EXPERIMENT SUPPORT
Period Obligations
 01/01/1987-06/30/1994 FY95: TOTAL: \$310,757
Prin. Invest. NASA Tech. Officer CASE Category
 L U LILLELEHT GSFC/J A NUTH 19-Phys Sci, NEC
 GSFC/J E ALLEN

NAG 5-1018 University of Virginia 8512
 FOREST ECOSEPTEMS DYNAMICS
Period Obligations
 10/15/1987-03/14/1995 FY95: TOTAL: \$566,876
Prin. Invest. NASA Tech. Officer CASE Category
 H H SHUGART GSFC/D L WILLIAMS 39-Env Sci, NEC

NAG 5-1891 University of Virginia 8513
 COOLING FLOW CLUSTERS WITH EVIDENCE FOR STAR FORMA
 TION AND/OR COOL GAS
Period Obligations
 02/10/1992-08/14/1995 FY95: TOTAL: \$128,000
Prin. Invest. NASA Tech. Officer CASE Category
 C L SARAZIN GSFC/R PETRE 11-Astronomy

NAG 5-1961 University of Virginia 8514
 INTERDISCIPLINARY RESEARCH SCENARIO TESTING OF EOS DIS
 VERSION O - SERIES 2
Period Obligations
 04/03/1992-04/14/1996 FY95: \$128,325 TOTAL: \$339,819
Prin. Invest. NASA Tech. Officer CASE Category
 M GARSTANG GSFC/STOCKEY 39-Env Sci, NEC
 G D EMMITT

NAG 5-1978 University of Virginia 8515
 INTENSIVE BOUNDARY LAYER WATER CYCLE STUDY IN THE
 WESTERN EQUATORIAL PACIFIC - ATMOSPHERIC WATER. .
Period Obligations
 05/04/1992-05/14/1994 FY95: TOTAL: \$48,978
Prin. Invest. NASA Tech. Officer CASE Category
 M GARSTANG GSFC/O W THIELE 31-Atmos Sci

NAG 5-2060 University of Virginia 8516
 X-RAY EMISSION FROM ULTRALUMINOUS INFRARED GALAXIE S
Period Obligations
 07/28/1992-08/14/1995 FY95: TOTAL: \$30,002
Prin. Invest. NASA Tech. Officer CASE Category
 T X THUAN GSFC/R PETRE 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAG 5-2061	University of Virginia	8517
TRMM ATMOSPHERIC BUDGET STUDY		
<i>Period</i>	<i>Obligations</i>	
08/05/1992-08/14/1996	FY95:	TOTAL: \$241,384
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M GARSTANG	GSFC/O W THIELE	31-Atmos Sci
NAG 5-2295	University of Virginia	8518
MULTIDISCIPLINE INTEGRATIVE MODELS OF FOREST ECOSY STEM DYNAMICS FOR THE BOREAL FOREST BIOME		
<i>Period</i>	<i>Obligations</i>	
06/17/1993-06/30/1996	FY95: \$70,000	TOTAL: \$138,089
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H H SHUGART	GSFC/F G HALL GSFC/P SELLERS	39-Env Sci, NEC
NAG 5-2526	University of Virginia	8519
X-RAY SPECTRA OF CLUSTER COOLING FLOWS WITH EXCESS		
<i>Period</i>	<i>Obligations</i>	
03/09/1994-03/14/1997	FY95: \$158,639	TOTAL: \$193,639
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C L SARAZIN	GSFC/N WHITE	11-Astronomy
NAG 5-2924	University of Virginia	8520
TORSIONAL BUCKLING TESTS OF A SIMULATED SOLAR ARRAY		
<i>Period</i>	<i>Obligations</i>	
03/28/1995-08/31/1996	FY95: \$50,471	TOTAL: \$50,471
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E THORNTON	GSFC/J DECKER	46-Mech Engr
NAG 5-3056	University of Virginia	8521
DYNAMICS OF MASS TRANSFER IN CLOSE INTERACTING BINARIES		
<i>Period</i>	<i>Obligations</i>	
09/01/1995-09/14/1996	FY95: \$10,500	TOTAL: \$10,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J M RICHARDS	GSFC/D WEST	11-Astronomy
NAG 5-3057	University of Virginia	8522
DYNAMICS AND EMISSION OF HOT ASTROPHYSICAL PLASMAS		
<i>Period</i>	<i>Obligations</i>	
09/15/1995-09/14/1996	FY95: \$96,000	TOTAL: \$96,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C L SARAZIN	GSFC/D WEST	11-Astronomy
NAG 5-3058	University of Virginia	8523
NUMERICAL MHD STUDIES OF ACCRETION DISKS		
<i>Period</i>	<i>Obligations</i>	
09/25/1995-09/30/1996	FY95: \$60,000	TOTAL: \$60,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J F HAWLEY	GSFC/D WEST	11-Astronomy
NAG 9-823	University of Virginia	8524
MICROGRAVITY SIMULATED PROSTATE CELL CULTURE		
<i>Period</i>	<i>Obligations</i>	
09/22/1995-09/25/1996	FY95: \$198,000	TOTAL: \$198,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L K CHUNG, PH.D. H E ZHAY, PH.D.	JSC/N PELLIS	56-Medical Sciences
NAGW 461	University of Virginia	8525
COLLISIONS OF IMPORTANCE IN THE IO PLASMA TONS		
<i>Period</i>	<i>Obligations</i>	
09/01/1983-11/30/1995	FY95: \$151,029	TOTAL: \$550,738
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R E JOHNSON	HQ/J T BERGSTRALH HQ/W L QUAIDE	31-Atmos Sci
NAGW 1510	University of Virginia	8526
NUMERICAL STUDIES IN HIGH ENERGY ASTROPHYSICAL GAS DYNAMICS		
<i>Period</i>	<i>Obligations</i>	
11/29/1988-12/31/1994	FY95:	TOTAL: \$309,108
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J F HAWLEY S A BALBUS	HQ/L J KALUZIENSKI HQ/A N BUNNER	11-Astronomy
NAGW 1692	University of Virginia	8527
INTELLIGENT PROCESSING OF MATERIALS FOR DESIGN AND MANUFACTURING		
<i>Period</i>	<i>Obligations</i>	
03/17/1989-10/31/1995	FY95: \$1,708,284	TOTAL: \$7,297,924
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
H N WADLEY T H COURTNEY J A WERT	HQ/S L VENNERI HQ/T CROOKER	47-Materials Engr
NAGW 1926	University of Virginia	8528
GROUNDWATER AND PERMAFROST PROCESSES ON MARS		
<i>Period</i>	<i>Obligations</i>	
03/05/1990-01/31/1995	FY95:	TOTAL: \$189,619
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A D HOWARD	HQ/T A MAXWELL	32-Geological Sci
NAGW 2282	University of Virginia	8529
SURFACE-ATMOSPHERE INTERACTION		
<i>Period</i>	<i>Obligations</i>	
11/01/1990-10/31/1993	FY95:	TOTAL: \$59,845
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A D HOWARD	HQ/T A MAXWELL	32-Geological Sci
NAGW 2313	University of Virginia	8530
A COMPREHENSIVE INVESTIGATION OF COMET ORIGINS		
<i>Period</i>	<i>Obligations</i>	
06/13/1991-10/31/1993	FY95:	TOTAL: \$74,374
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B DONN	HQ/J A NUTH	19-Phys Sci, NEC
NAGW 2376	University of Virginia	8531
EMISSION PROCESSES AND DYNAMICS OF HOT GASES IN AS TROPHYSICS		
<i>Period</i>	<i>Obligations</i>	
03/22/1991-07/31/1995	FY95: \$75,000	TOTAL: \$587,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R A CHEVALIER	HQ/G S KUTTER HQ/G R RIEGLER	11-Astronomy
NAGW 2377	University of Virginia	8532
SIS MIXER AND SCHOTT VARACTOR ELEMENTS FOR NASA SU BMILLIMETER		
<i>Period</i>	<i>Obligations</i>	
03/18/1991-12/31/1993	FY95:	TOTAL: \$309,932
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A W LICHTENBERGER	HQ/M BICAY	13-Physics

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAGW 2596 University of Virginia 8533
 NAGW-2596/UNIV VIRGINIA/A LOCAL PERSPECTIVE ON GALAXY EVOLUTION IN THE EARLY UNIVERSE
Period Obligations
 08/20/1991-04/30/1994 FY95: TOTAL: \$518,815
Prin. Invest. NASA Tech. Officer CASE Category
 R W O'CONNELL HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 3021 University of Virginia 8534
 ADVANCED COMPUTATIONAL METHODS FOR THE NUMERICAL SOLUTION TO METEOROLOGICAL FLOW PROBLEMS
Period Obligations
 03/30/1992-10/31/1995 FY95: \$90,000 TOTAL: \$320,000
Prin. Invest. NASA Tech. Officer CASE Category
 J J DORNING HQ/K H BERGMAN 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 3954 University of Virginia 8535
 CHARGING OF INTERPLANETARY GRAINS
Period Obligations
 04/20/1994-01/31/1997 FY95: \$63,000 TOTAL: \$123,000
Prin. Invest. NASA Tech. Officer CASE Category
 R R BARAGIOLA HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAGW 3959 University of Virginia 8536
 SUBLIMATION AND OPTICAL PROPERTIES OF ICES AT LOW TEMPS RELEVANT TO SOLAR SYSTEM OBJECTS
Period Obligations
 04/28/1994-03/31/1996 FY95: \$23,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
 R BARAGIOLA HQ/R WILLIAMS 31-Atmos Sci

NAGW 4007 University of Virginia 8537
 SCHOTTKY VARACTOR ELEMENTS FOR NASA
Period Obligations
 05/14/1994-03/31/1996 FY95: \$75,000 TOTAL: \$151,113
Prin. Invest. NASA Tech. Officer CASE Category
 T W CROWE HQ/L J CAROFF 11-Astronomy
 HQ

NAGW 4028 University of Virginia 8538
 AN INVESTIGATION OF PLANETISMAL FORMATION
Period Obligations
 06/03/1994-03/02/1996 FY95: \$25,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 R JOHNSON HQ/P ROGERS 11-Astronomy

NAGW 4029 University of Virginia 8539
 EROSION AND ALTERATION OF INTERSTELLAR AND INTERPLANETARY GRAINS
Period Obligations
 06/03/1994-05/31/1996 FY95: \$38,000 TOTAL: \$53,000
Prin. Invest. NASA Tech. Officer CASE Category
 R JOHNSON HQ/P ROGERS 11-Astronomy

NAGW 4096 University of Virginia 8540
 ESTABLISHING A PROTOTYPE ENVIRONMENT COMMUNITY ACCESS AND NETWORK PROGRAM
Period Obligations
 08/08/1994-12/31/1995 FY95: TOTAL: \$99,000
Prin. Invest. NASA Tech. Officer CASE Category
 J C FRENCH HQ/K M SCHAEFFER 22-Computer Science

NAGW 4106 University of Virginia 8541
 LOCAL PERSPECTIVE ON GALAXY EVOLUTION
Period Obligations
 08/09/1994-06/30/1995 FY95: TOTAL: \$192,861
Prin. Invest. NASA Tech. Officer CASE Category
 P R O'CONNELL HQ/G R RIEGLER 11-Astronomy

NAGW 4294 University of Virginia 8542
 GROUNDWATER AND PERMAFROST PROCESSED ON MARS
Period Obligations
 02/22/1995-12/31/1995 FY95: \$51,492 TOTAL: \$51,492
Prin. Invest. NASA Tech. Officer CASE Category
 A HOWARD HQ/H BRINTON 32-Geological Sci

NAGW 4310 University of Virginia 8543
 CHARGED PARTICLE INDUCED ALTERATIONS OF SURFACES IN THE SOLAR SYSTEM
Period Obligations
 02/20/1995-11/30/1997 FY95: \$30,000 TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
 R JOHNSON HQ/H BRINTON 99-Multi-Discip

NAGW 4431 University of Virginia 8544
 MAGNETOHYDRODYNAMICS OF THE SOLAR NEBULA
Period Obligations
 06/08/1995-05/31/1996 FY95: \$56,988 TOTAL: \$56,988
Prin. Invest. NASA Tech. Officer CASE Category
 S BALBUS HQ/P G ROGERS 11-Astronomy

NAGW 4588 University of Virginia 8545
 CARBON CYCLING IN SOUTHERN AFRICAN SAVANNAS: A COLLABORATIVE PROPOSAL
Period Obligations
 06/28/1995-06/30/1998 FY95: \$82,110 TOTAL: \$82,110
Prin. Invest. NASA Tech. Officer CASE Category
 H SHUGART HQ/D E WICKLAND 39-Env Sci, NEC
 C J TUCKER HQ/A C JANETOS
 C JUSTICE

NAS 1-20301 University of Virginia 8546
 MATLS SCIENCE, HIGH PERF NUMERICAL PROCESS'G AND NUM AEROSC'S, AEROSP. ENGRG AND OP ANAL AND RESEARCH
Period Obligations
 03/30/1995-03/30/1996 FY95: \$20,000 TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 G L CAHEN JR. LARC/C V ECKSTROM 41-Aero Engr

NAS 3-26571 University of Virginia 8547
 ALGORITHM FOR OPTIMIZATION F RESIDUAL STRESSES IN MMC USING THE MULTIPLE COMPLAINT INTERFACIAL LAYER
Period Obligations
 03/02/1992-06/15/1995 FY95: TOTAL: \$206,755
Prin. Invest. NASA Tech. Officer CASE Category
 M J PINDERA LERC/S M ARNOLD 48-Mech Engr

NAS 3-27418 University of Virginia 8548
 COST MODELS FOR MMC MANUFACTURING PROCESS
Period Obligations
 10/19/1994-10/18/1995 FY95: \$119,081 TOTAL: \$119,081
Prin. Invest. NASA Tech. Officer CASE Category
 D M ELZEY LERC/D W PETRASEK 47-Materials Engr
 H N WADLEY

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NCA 2-708 University of Virginia 8549
 EXTRACTING DEPTH FROM MOTION IN STRUCTURED AND IMP
 OVERISHED TERRAINS
Period Obligations
 05/01/1992-08/31/1994 FY95: TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
 D PROFFITT ARC/M K KAISER 69-Psych, NEC

NCC 5-79 University of Virginia 8557
 MICROGRAVITY NUCLEATION AND PARTICLE COAGULATION
 EXPERIMENT SUPPORT
Period Obligations
 10/06/1994-10/14/1995 FY95: \$57,010 TOTAL: \$57,010
Prin. Invest. NASA Tech. Officer CASE Category
 L U LILLELEHT GSFC/J A NUTH 11-Astronomy
 GSFC/J E ALLEN

NCC 1-106 University of Virginia 8550
 CONVECTIVE TRANSPORTS OVER THE AMAZON BASIN
Period Obligations
 06/30/1986-03/30/1994 FY95: TOTAL: \$557,905
Prin. Invest. NASA Tech. Officer CASE Category
 M GARSTANG LARC/J W DREWRY 31-Atmos Sci
 LARC/J M HOELL

NCCW 11 University of Virginia 8558
 CENTER FOR COMPUTATIONAL STRUCTURES TECHNOLOGY
Period Obligations
 07/12/1990-06/30/1996 FY95: \$600,000 TOTAL: \$1,857,955
Prin. Invest. NASA Tech. Officer CASE Category
 A K NOOR HQ/S L VENNERI 49-Engr, NEC

NCC 1-173 University of Virginia 8551
 AN INTEGRATED DESIGN METHODOLOGY BASED ON THE VHSIC
 HARDWARE DESCRIPTION LANGUAGE
Period Obligations
 03/16/1993-12/31/1995 FY95: \$20,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 B W JOHNSON LARC/C R ELKS 22-Computer Science
 J H AYLOR

NGT 00-030-157 University of Virginia 8559
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/02/1992-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M A LEFSKY HQ/G ASRAR 39-Env Sci, NEC
 HQ/D E WICKLAND

NCC 1-197 University of Virginia 8552
 DESIGN FABRICATION AND TESTING OF NANOSCALE, ULTRA HIGH
 FREQUENCY METAL-SEMICONDUCTOR-METAL PHOTO...
Period Obligations
 07/29/1994-07/31/1996 FY95: \$20,000 TOTAL: \$43,000
Prin. Invest. NASA Tech. Officer CASE Category
 E TOWE LARC/J A NCADDOO 45-Elec Engr
 LARC/S P SANDFORD

NGT 00-030-241 University of Virginia 8560
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 10/06/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 G HORNBERGER HQ/J S THEON 39-Env Sci, NEC
 HQ/G ASRAR

NCC 1-210 University of Virginia 8553
 FAULT-TREE MODELS FOR SYSTEM-LEVEL DEPENDABILITY
 ANALYSIS
Period Obligations
 03/20/1995-03/19/1996 FY95: \$106,876 TOTAL: \$106,876
Prin. Invest. NASA Tech. Officer CASE Category
 J B DUGAN LARC/H A ROELANT 49-Engr, NEC
 LARC/V WESSEL

NGT 00-050-647 University of Virginia 8561
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/02/1990-06/30/1994 FY95: TOTAL: \$65,838
Prin. Invest. NASA Tech. Officer CASE Category
 S H JONES HQ/F C OWENS 45-Elec Engr

NCC 2-925 University of Virginia 8554
 PERCEPTION BASED TECHNIQUES FOR IMPROVING COMPUTER
 -GENERATED IMAGERY
Period Obligations
 08/25/1995-03/31/1996 FY95: \$86,927 TOTAL: \$86,927
Prin. Invest. NASA Tech. Officer CASE Category
 D R PROFFITT ARC/M K KAISER 69-Psych, NEC
 R PAUSCH

NGT 00-050-714 University of Virginia 8562
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/02/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G LAUFER HQ/F C OWENS 46-Mech Engr

NCC 2-5024 University of Virginia 8555
 EFFECTS OF HUMIDITY SWINGS ON ADSORPTION COLUMNS F OR
 AIR REVITALIZATION: MODELING AND EXPERIMENTS
Period Obligations
 12/21/1993-01/15/1996 FY95: \$40,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 M D LE VAN ARC/J E FINN 43-Chem Engr

NGT 00-050-722 University of Virginia 8563
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/10/1991-06/30/1995 FY95: TOTAL: \$88,000
Prin. Invest. NASA Tech. Officer CASE Category
 M GARSTANG HQ/F C OWENS 39-Env Sci, NEC

NCC 2-5074 University of Virginia 8556
 PERCEPTUALLY-TUNED VISUAL SIMULATION
Period Obligations
 06/30/1994-08/31/1995 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 D R ARC/M K KAISER 69-Psych, NEC

NGT 00-050-725 University of Virginia 8564
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 04/25/1991-06/30/1994 FY95: TOTAL: \$64,210
Prin. Invest. NASA Tech. Officer CASE Category
 T W CROWE HQ/F C OWENS 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NGT 00-050-750 University of Virginia 8565
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/10/1991-06/30/1994 FY95: TOTAL: \$65,971
Prin. Invest. NASA Tech. Officer CASE Category
 A L MILLS HQ/F C OWENS 39-Env Sci, NEC

NGT 00-051-055 University of Virginia 8574
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/25/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 N NANDHAKUMAR HQ/J T LYNCH 45-Elec Engr

NGT 00-050-820 University of Virginia 8566
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/25/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A W LICHTENBERGER HQ/F C OWENS 45-Elec Engr

NGT 00-051-063 University of Virginia 8575
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J J DORNING HQ/G LESANE 13-Physics

NGT 00-050-821 University of Virginia 8567
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/25/1991-06/30/1995 FY95: TOTAL: \$77,000
Prin. Invest. NASA Tech. Officer CASE Category
 J J DORNING HQ/F C OWENS 13-Physics

NGT 00-051-068 University of Virginia 8576
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/15/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 E TOWE HQ/G LASANE 45-Elec Engr

NGT 00-050-897 University of Virginia 8568
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/18/1992-06/30/1994 FY95: TOTAL: \$43,917
Prin. Invest. NASA Tech. Officer CASE Category
 J C MCDANIEL LARC/E PRIOR 41-Aero Engr

NGT 00-051-094 University of Virginia 8577
 GRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
 07/07/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 L U LILLEHEHET GSFC/M BURRELL 43-Chem Engr

NGT 00-050-905 University of Virginia 8569
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/21/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R BARAGIOLA HQ/J ALEXANDER 49-Engr, NEC

NGT 00-051-114 University of Virginia 8578
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/27/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 E A THORNTON LARC/E J PRIOR 49-Engr, NEC

NGT 00-050-906 University of Virginia 8570
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/21/1992-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R A BARAGIOLA HQ/J ALEXANDER 49-Engr, NEC

NGT 00-051-163 University of Virginia 8579
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/22/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A S GRIMSHAW HQ/P HUNTER 22-Computer Science

NGT 00-050-941 University of Virginia 8571
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/09/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C R KNOSPE LERC/F MONTEGANI 46-Mech Engr

NGT 00-051-221 University of Virginia 8580
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/16/1994-05/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 J J DORNING HQ/A NOVOTNY 49-Engr, NEC

NGT 00-050-970 University of Virginia 8572
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/15/1992-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 A S GRIMSHAW HQ/P HUNTER 22-Computer Science

NGT 00-051-243 University of Virginia 8581
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/06/1994-05/31/1995 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 H HAJ-HARIERI LERC/F MONTEGANI 46-Mech Engr

NGT 00-051-018 University of Virginia 8573
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/14/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J C FRENCH GSFC/G SOFFEN 22-Computer Science

NGT 00-051-326 University of Virginia 8582
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/28/1994-07/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 T W CROWE HQ/D HOLLAND 45-Elec Engr

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NGT 00-051-390 University of Virginia 8583
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
06/23/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
P W VOORHEES HQ/G LESANE 47-Materials Engr

NGT 00-070-339 University of Virginia 8591
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
06/30/1993-06/30/1996 FY95: \$12,814 TOTAL: \$56,814
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T PETERSON HQ/D K RUSSELL 21-Mathematics

NGT 00-051-396 University of Virginia 8584
GSRP
Period *Obligations*
06/23/1995-06/30/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T W CROWE JPL/C HICKS 45-Elec Engr

NGT 00-070-365 University of Virginia 8592
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
09/08/1993-05/31/1995 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D BALL HQ/D K RUSSELL 79-Soc Sci, NEC

NGT 00-070-173 University of Virginia 8585
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
07/05/1990-07/31/1994 FY95: TOTAL: \$70,256
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J L HUDSON HQ/F C OWENS 43-Chem Engr

NGT 00-070-404 University of Virginia 8593
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
11/07/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W A JESSER HQ/D K RUSSELL 47-Materials Engr

NGT 00-070-229 University of Virginia 8586
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
07/02/1991-06/30/1995 FY95: TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M ORTEGA HQ/F C OWENS 29-Math/Cmputer,NEC

NGT 00-090-214 University of Virginia 8594
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period *Obligations*
09/23/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R JENNINGS HQ/D K RUSSELL 99-Multi-Discip

NGT 00-070-230 University of Virginia 8587
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
06/05/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W D PILKEY HQ/F C OWENS 44-Civil Engr

NGT 00-090-232 University of Virginia 8595
UNIV VIRGINIA; UNDERGRADUATE STUDENT RESEARCHERS
PROGRAM
Period *Obligations*
11/22/1993-08/14/1995 FY95: \$12,000 TOTAL: \$24,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R JENNINGS HQ/D K RUSSELL 99-Multi-Discip

NGT 00-070-286 University of Virginia 8588
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
07/09/1992-12/31/1994 FY95: TOTAL: \$43,965
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J C FRENCH HQ/D K RUSSELL 22-Computer Science

NGT 1-52100 University of Virginia 8596
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
Period *Obligations*
06/13/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B L FARMER LARC/J A HINKLEY 12-Chemistry
J A YOUNG LARC/T S GATES

NGT 00-070-294 University of Virginia 8589
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
08/04/1992-07/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H HAJ-HARIRI LARC/J T LYNCH 46-Mech Engr

NGT 1-52101 University of Virginia 8597
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
Period *Obligations*
06/13/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E A WEST LARC/D RUDY 22-Computer Science
A S GRIMSHAW LARC/J REHDER

NGT 00-070-336 University of Virginia 8590
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
07/05/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E TOWE HQ/D K RUSSELL 45-Elec Engr

NGT 1-52110 University of Virginia 8598
GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
Period *Obligations*
06/26/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E A THORNTON LARC/M D RHODES 42-Astro Engr

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NGT 1-52116 University of Virginia 8599
GRADUATE STUDENT RESEARCHER PROGRAM
Period Obligations
06/27/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
E DERVIS LARC/R R ANTCLIFF 41-Aero Engr

NAS 9-16046 Virginia Commonwealth University 8692
INFLUENCE WEIGHTLESSNESS CARDIOVASCULAR
Period Obligations
01/17/1980-06/01/1995 FY95: TOTAL: \$3,920,419
Prin. Invest. NASA Tech. Officer CASE Category
D L ECKBERG JSC/W J YOUNG 59-Life Sci, NEC

NGT 1-52117 University of Virginia 8600
GRADUATE STUDENT RESEARCHER PROGRAM
Period Obligations
06/27/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
L P TROEGER LARC/T T BALES 47-Materials Engr

NAS 9-19219 Virginia Commonwealth University 8693
AUTOMATIC NEUROPLASTICITY IN WEIGHTLESSNESS
Period Obligations
10/21/1994-09/30/1995 FY95: \$79,628 TOTAL: \$79,628
Prin. Invest. NASA Tech. Officer CASE Category
D L ECKBERG JSC/S SAWYER 56-Medical Sciences

NGT 2-52203 University of Virginia 8601
EFFECTS OF CABIN UPSETS ON ABSORPTION COLUMNS FOR AIR
REVITALIZATION: MODELING AND EXPERIMENTS
Period Obligations
09/14/1995-08/31/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
M D LEVAN ARC/J E FINN 43-Chem Engr
W S APPE

NGT 00-090-174 Virginia Commonwealth University 8694
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
J BERLUND HQ/D RUSSELL 99-Multi-Discip

NAG 8-1208 Roanoke College 8486
JOVE
Period Obligations
09/25/1995-08/31/1998 FY95: \$16,075 TOTAL: \$16,075
Prin. Invest. NASA Tech. Officer CASE Category
A F BARGHOUTY MSFC/D SIX 99-Multi-Discip

NAG 1-168 Va Polytechnic Inst & St Univ 8602
STRUCTURAL OPTIMIZATION FOR IMPROVED DAMAGE
TOLERANCE
Period Obligations
04/03/1981-01/15/1995 FY95: TOTAL: \$1,149,679
Prin. Invest. NASA Tech. Officer CASE Category
R T HAFTKA LARC/J H STARNES JR. 41-Aero Engr

NAGW 4639 Roanoke College 8487
CROSS SECTION CALCULATIONS FOR COSMIC-RAY DATA ANALYSIS
OF NASA SPONSORED EXPERIMENTS
Period Obligations
07/31/1995-06/30/1998 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
C H TSAO HQ/M FORMAN 13-Physics
HQ/J D BOHLIN

NAG 1-224 Va Polytechnic Inst & St Univ 8603
AUTOMATED SIZING OF AEROSPACE STRUCTURES UNDER
MULTIPLE CONSTRAINTS
Period Obligations
10/16/1981-01/15/1995 FY95: TOTAL: \$1,066,942
Prin. Invest. NASA Tech. Officer CASE Category
R T HAFTKA LARC/H M ADELMAN 41-Aero Engr
W L HALLAUER

NAG 1-695 Virginia Commonwealth University 8689
DEVELOPMENT OF ACOUSTIC TEST APPARATUS FOR EVALUATION
OF THE STATE OF THE HUMAN AIRWAYS
Period Obligations
08/07/1986-12/31/1993 FY95: TOTAL: \$90,448
Prin. Invest. NASA Tech. Officer CASE Category
J L PATTERSON LARC/J SAMOS 56-Medical Sciences
LARC/J M SEINER

NAG 1-343 Va Polytechnic Inst & St Univ 8604
NASA MATERIALS SCIENCE AND ENGINEERING PROGRAM
Period Obligations
03/04/1983-12/31/1995 FY95: \$548,654 TOTAL: \$9,273,549
Prin. Invest. NASA Tech. Officer CASE Category
F W STEPHENSON LARC/D R TENNEY 47-Materials Engr
LARC/R T SWANN

NAG 1-1251 Virginia Commonwealth University 8690
NOVEL POLYMER SYNTHESIS
Period Obligations
06/11/1991-12/31/1996 FY95: TOTAL: \$278,473
Prin. Invest. NASA Tech. Officer CASE Category
R G BASS LARC/P M HERGENROTHER 12-Chemistry
LARC/B J JENSEN

NAG 1-390 Va Polytechnic Inst & St Univ 8605
AN ANALYTICAL INVESTIGATION SYNCROPHASING AS MEANS OF
AIRCRAFT INTERIOR NOISE CONTROL
Period Obligations
08/01/1983-05/15/1995 FY95: \$85,373 TOTAL: \$1,367,597
Prin. Invest. NASA Tech. Officer CASE Category
C R FULLER LARC/R J SILCOX 41-Aero Engr
LARC/H C LESTER

NAG 9-412 Virginia Commonwealth University 8691
MECHANISM CONTROLLING HUMAN VAGAL AND SYMPATHETIC
CARDIOVASCULAR OUTFLOW
Period Obligations
03/08/1990-09/01/1995 FY95: TOTAL: \$466,800
Prin. Invest. NASA Tech. Officer CASE Category
D L ECKBERG JSC/S M FURTNEY 51-Biological Sci
M L SMITH

NAG 1-537 Va Polytechnic Inst & St Univ 8606
POSTBUCKLING AND CRIPPLING OF GRAPHITE-EPOXY CHANNEL
AND ZEE SECTION COLUMNS
Period Obligations
10/31/1984-10/31/1995 FY95: \$44,884 TOTAL: \$452,515
Prin. Invest. NASA Tech. Officer CASE Category
E R JOHNSON LARC/J H STARNES JR. 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAG 1-643	Va Polytechnic Inst & St Univ	8607
DESIGN OF ANISOTROPIC PLATES FOR IMPROVED DAMAGE TOLERANCE		
<i>Period</i>	<i>Obligations</i>	
02/12/1986-12/31/1995	FY95: \$78,280	TOTAL: \$401,883
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
Z GURDAL	LARC/J H STARNES	41-Aero Engr
	LARC/M J SHUART	
NAG 1-776	Va Polytechnic Inst & St Univ	8608
COMPUTATIONAL FLUID DYNAMICS RESEARCH IN HYPER-SONIC FLOW		
<i>Period</i>	<i>Obligations</i>	
06/04/1987-11/30/1994	FY95:	TOTAL: \$801,381
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R W WALTERS	LARC/D H RUDY	41-Aero Engr
B GROSSMAN	LARC/J L THOMAS	
NAG 1-1101	Va Polytechnic Inst & St Univ	8609
CRYSTALLIZATION-STRUCTURE-PROPERTY INVESTIGATIONS OF SELECTED POLYIMIDES		
<i>Period</i>	<i>Obligations</i>	
03/06/1990-12/31/1993	FY95:	TOTAL: \$106,392
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G L WILKES	LARC/P M HERGENROTHER	12-Chemistry
	LARC/J A HINKLEY	
NAG 1-1160	Va Polytechnic Inst & St Univ	8610
VARIABLE COMPLEXITY DESIGN STRATEGY APPLIED TO SUPERSONIC WING DESIGN.		
<i>Period</i>	<i>Obligations</i>	
06/26/1990-12/15/1995	FY95: \$72,514	TOTAL: \$335,846
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B GROSSMAN	LARC/P G COEN	41-Aero Engr
W MASON		
R HAFTKA		
NAG 1-1186	Va Polytechnic Inst & St Univ	8611
SURFACE ANALYSIS OF NASA-LDEF MATERIALS		
<i>Period</i>	<i>Obligations</i>	
09/21/1990-09/30/1995	FY95: \$19,137	TOTAL: \$184,782
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J P WIGHTMAN	LARC/W S SLEMP	12-Chemistry
	LARC/P R YOUNG	
NAG 1-1282	Va Polytechnic Inst & St Univ	8612
RESIDUAL STRENGTH AND LIFE PREDICTION FOR COMPOSITE MOTOR CASES		
<i>Period</i>	<i>Obligations</i>	
05/08/1991-09/30/1995	FY95:	TOTAL: \$144,392
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K L REIFSNIDER	LARC/C C POE	46-Mech Engr
W W STINCHCOMB	LARC/W S JOHNSON	
NAG 1-1300	Va Polytechnic Inst & St Univ	8613
STATIC AND DYNAMIC POSTBUCKLING BEHAVIOR OF SANDWICH AND SHEAR DEFORMABLE COMPOSITE FLAT AND CURVED PANELS		
<i>Period</i>	<i>Obligations</i>	
07/02/1991-06/30/1995	FY95:	TOTAL: \$160,317
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
L LIBRESCU	LARC/J H STARNES	41-Aero Engr
	LARC/M P NEMETH	
NAG 1-1303	Va Polytechnic Inst & St Univ	8614
RESEARCH IN THE TURBULENCE STRUCTURE OF THE NEAR WALL REGION OF THREE-DIMENSIONAL TURBULENT BOUNDARY LAYERS		
<i>Period</i>	<i>Obligations</i>	
07/02/1991-06/30/1994	FY95:	TOTAL: \$188,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R L SIMPSON	LARC/S K ROBINSON	41-Aero Engr
NAG 1-1325	Va Polytechnic Inst & St Univ	8615
MODEL-ASSISTED OPERATIONAL PROCESSING OF ERBE SCANNER AND NON-SCANNER DATA		
<i>Period</i>	<i>Obligations</i>	
07/23/1991-05/15/1994	FY95:	TOTAL: \$136,102
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J R MAHAN	LARC/R B LEE	31-Atmos Sci
	LARC/R J KEYNTON	
NAG 1-1363	Va Polytechnic Inst & St Univ	8616
OPTICAL DISTRIBUTED SENSOR FOR FEEDBACK CONTROL		
<i>Period</i>	<i>Obligations</i>	
01/27/1992-01/14/1996	FY95: \$108,000	TOTAL: \$260,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G INDEBETOUW	LARC/S S WELCH	42-Astro Engr
D K LINDNER		
NAG 1-1392	Va Polytechnic Inst & St Univ	8617
STRESS GRADIENTS IN COMPOSITE STRUCTURES WITH GEOMETRIC DISCONTINUITIES		
<i>Period</i>	<i>Obligations</i>	
02/20/1992-02/12/1994	FY95:	TOTAL: \$45,120
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J MORTON	LARC/G L FARLEY	41-Aero Engr
NAG 1-1405	Va Polytechnic Inst & St Univ	8618
OPTIMAL-TACTICAL GUIDANCE STUDIES INCREMENTALLY FUNDED IN THE AMOUNT OF \$37,383		
<i>Period</i>	<i>Obligations</i>	
03/17/1992-08/15/1994	FY95:	TOTAL: \$115,142
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
E M CLIFF	LARC/K H GOODRICH	41-Aero Engr
	LARC/C GRACEY	
NAG 1-1411	Va Polytechnic Inst & St Univ	8619
SHAPE SENSITIVITY ANALYSIS AND DYNAMIC AEROELASTIC RESPONSES		
<i>Period</i>	<i>Obligations</i>	
03/09/1992-08/01/1995	FY95: \$11,053	TOTAL: \$172,145
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R K KAPANIA	LARC/J SOBIESKI	41-Aero Engr
	LARC/J BARTHELEMY	
NAG 1-1449	Va Polytechnic Inst & St Univ	8620
AIRPLANE CONTROL ALLOCATION STUDY - NLPN 92-435		
<i>Period</i>	<i>Obligations</i>	
08/07/1992-08/06/1996	FY95: \$64,078	TOTAL: \$227,673
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W C DURHAM	LARC/J V FOSTER	41-Aero Engr
NAG 1-1456	Va Polytechnic Inst & St Univ	8621
MODEL-BASED STUDIES OF CERES AND ERBE TYPE SCANNING THERMISTOR BOLOMETER RADIOMETERS		
<i>Period</i>	<i>Obligations</i>	
09/29/1992-08/15/1994	FY95:	TOTAL: \$89,976
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J R MAHAN	LARC/J W YOUNGBLOOD	31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAG 1-1458 **Va Polytechnic Inst & St Univ** **8622**
 RELIABILITY-BASED OPTIMIZATION: AN ANALYTICAL EXPERIMENTAL
 STUDY - NLPN 91-1255
Period *Obligations*
 11/16/1992-09/30/1995 FY95: \$18,583 TOTAL: \$117,437
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E NIKOLAIDIS LARC/W J STROUD 49-Engr, NEC
 H H CUDNEY

NAG 1-1562 **Va Polytechnic Inst & St Univ** **8629**
 VARIABLE-COMPLEXITY MULTIDISCIPLINARY OPTIMIZATION ON
 PARALLEL COMPUTERS
Period *Obligations*
 12/07/1993-12/06/1995 FY95: \$162,000 TOTAL: \$361,703
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B GROSSMAN LARC/P A NEWMAN 41-Aero Engr
 R T HAFTKA LARC/P G COEM
 W H MASON

NAG 1-1466 **Va Polytechnic Inst & St Univ** **8623**
 ADJOINT METHODS FOR AERODYNAMIC WING DESIGN
Period *Obligations*
 12/11/1992-10/15/1995 FY95: \$22,930 TOTAL: \$105,108
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B GROSSMAN LARC/M D SALAS 41-Aero Engr
 R P NARDUCCI LARC/T A ZANG

NAG 1-1573 **Va Polytechnic Inst & St Univ** **8630**
 FLIGHT CONTROL REQUIREMENTS FOR HIGH SPEED TRANSPORT
 AIRCRAFT
Period *Obligations*
 01/13/1994-01/10/1996 FY95: \$87,327 TOTAL: \$161,282
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M R ANDERSON LARC/M R WASZAK 41-Aero Engr
 W H MASON LARC/C S BUTTRILL

NAG 1-1500 **Va Polytechnic Inst & St Univ** **8624**
 EVALUATION OF HIGH TEMPERATURE SUPERCONDUCTIVE
 THERMAL BRIDGES FOR SPACE BORNE CRYOGENIC INFRARE
Period *Obligations*
 04/15/1993-11/14/1995 FY95: TOTAL: \$73,907
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E P SCOTT LARC/S A WISE 47-Materials Engr
 K M LEE

NAG 1-1598 **Va Polytechnic Inst & St Univ** **8631**
 TROPOSPHERIC CHEMISTRY - DEVELOPING AND UTILIZING
 COMPREHENSIVE THREE-DIMENSIONAL CHEMISTRY/TROPOSPH
Period *Obligations*
 02/28/1994-02/23/1996 FY95: TOTAL: \$9,671
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 L K PETERS LARC/H G REICHL JR. 31-Atmos Sci
 LARC/V S CONNORS

NAG 1-1507 **Va Polytechnic Inst & St Univ** **8625**
 DEVELOPMENT OF METHODOLOGIES FOR THE ESTIMATION OF
 THERMAL PROPERTIES ASSOCIATED WITH AEROSPACE VEHI
Period *Obligations*
 04/30/1993-09/30/1995 FY95: \$64,241 TOTAL: \$123,200
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E P SCOTT LARC/C J CAMARDA 46-Mech Engr
 LARC/J H STARNES

NAG 1-1608 **Va Polytechnic Inst & St Univ** **8632**
 DURABILITY AND DAMAGE TOLERANCE OF HIGH TEMPERATURE
 POLYMERIC COMPOSITES (HTPC)
Period *Obligations*
 02/09/1994-05/08/1995 FY95: \$1 TOTAL: \$30,001
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 K L REIFSNIDER LARC/W S JOHNSON 47-Materials Engr
 LARC/C E HARRIS

NAG 1-1508 **Va Polytechnic Inst & St Univ** **8626**
 OPTICAL FIBER SENSOR FOR DAMAGE ANALYSIS IN AEROSPACE
 MATERIALS NLPN 93-321
Period *Obligations*
 05/25/1993-12/31/1995 FY95: \$90,000 TOTAL: \$150,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R O CLAUS LARC/R S ROGOWSKI 45-Elec Engr

NAG 1-1621 **Va Polytechnic Inst & St Univ** **8633**
 DIFFERENTIAL EEG PATTERN ACTIVITY DURING SUSTAINED
 ATTENTION PERFORMANCE: IMPLICATIONS
Period *Obligations*
 05/16/1994-05/17/1995 FY95: TOTAL: \$40,628
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H J CRAWFORD LARC/A T POPE 69-Psych, NEC
 LARC/J R COMSTOCK

NAG 1-1538 **Va Polytechnic Inst & St Univ** **8627**
 HEAT FLUX INSTRUMENTATION FOR HYFLITE THERMAL
 PROTECTION SYSTEM
Period *Obligations*
 08/13/1993-01/12/1994 FY95: TOTAL: \$99,960
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T DILLER LARC/G B NORTHAM 41-Aero Engr

NAG 1-1622 **Va Polytechnic Inst & St Univ** **8634**
 DETERMINATION OF STRESS INTENSITY FACTOR DISTRIBUTIONS
 FOR INTERFACE CRACKS IN INCOMPRESSIB
Period *Obligations*
 05/20/1994-08/14/1996 FY95: \$23,257 TOTAL: \$77,497
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C W SMITH LARC/C E HARRIS 46-Mech Engr
 LARC/J C NEWMAN

NAG 1-1539 **Va Polytechnic Inst & St Univ** **8628**
 FLOW STRUCTURE GENERATED BY PERPENDICULAR BLADE VO
 RTEK INTERACTION AND IMPLICATIONS FOR HELICOPTER
Period *Obligations*
 10/21/1993-01/18/1996 FY95: \$66,307 TOTAL: \$134,477
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W J DEVENPORT LARC/T F BROOKS 41-Aero Engr
 S A GLEGG LARC/C L BURTLEY

NAG 1-1640 **Va Polytechnic Inst & St Univ** **8635**
 A SYSTEMS APPROACH TO EVALUATION OF INFLIGHT CALIBRATION
 AND DATA REDUCTION FOR CHANNELS
Period *Obligations*
 08/25/1994-08/31/1996 FY95: \$72,980 TOTAL: \$151,509
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J R MAHAN LARC/R B LEE III 31-Atmos Sci
 LARC/J E NEALY

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAG 1-1657 **Va Polytechnic Inst & St Univ** **8636**
12 INCH ACOUSTIC FAN RESEARCH
Period *Obligations*
12/07/1994-12/06/1995 FY95: \$89,871 TOTAL: \$89,871
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R H THOMAS LARC/C H GERHOLD 46-Mech Engr

NAG 3-1266 **Va Polytechnic Inst & St Univ** **8644**
ADVANCED COMPRESSION SYSTEMS MODELING AND ANALYSIS
Period *Obligations*
07/03/1991-02/11/1995 FY95: TOTAL: \$250,332
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W F O'BRIEN LERC/G A BOBULA 46-Mech Engr

NAG 1-1681 **Va Polytechnic Inst & St Univ** **8637**
STRUCTURAL ACOUSTIC CHARACTERISTICS OF AIRCRAFT AN D
ACTIVE CONTROL FOR INTERIOR NOISE REDUCTION
Period *Obligations*
01/23/1995-01/22/1996 FY95: \$170,000 TOTAL: \$170,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C R FULLER LARC/H C LESTER 41-Aero Engr
LARC/R J SILOX

NAG 3-1285 **Va Polytechnic Inst & St Univ** **8645**
HEAT TRANSFER MEASUREMENTS FOR STIRLING MACHINE CY
LINDERS
Period *Obligations*
05/30/1991-08/15/1994 FY95: TOTAL: \$102,866
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A A KORNHAUSER LERC/S M GENG 46-Mech Engr

NAG 1-1682 **Va Polytechnic Inst & St Univ** **8638**
THE EVOLUTION OF AN ACOUSTIC DISTURBANCE UP TO
TRANSITION IN THE BOUNDARY LAYER ON AN AIRFOIL
Period *Obligations*
01/13/1995-01/12/1996 FY95: \$30,203 TOTAL: \$30,203
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A SCHETZ LARC/R WLEZIEN 41-Aero Engr
LARC/A KUMAR

NAG 3-1349 **Va Polytechnic Inst & St Univ** **8646**
SPACE STATION POWER SYSTEM MODELING AND STABILITY AN
ALYSIS
Period *Obligations*
05/22/1992-07/31/1996 FY95: \$118,500 TOTAL: \$755,876
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F C LEE LERC/B A MANNERS 45-Elec Engr
B H CHO
D SABLE

NAG 1-1683 **Va Polytechnic Inst & St Univ** **8639**
DIAGNOSTICS AND ACTIVE CONTROL OF AIRCRAFT NOISE
Period *Obligations*
01/12/1995-01/14/1996 FY95: \$83,000 TOTAL: \$83,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C R FULLER LARC/K H LYLE 46-Mech Engr
LARC/R J SILOX

NAG 3-1521 **Va Polytechnic Inst & St Univ** **8647**
APPLICATION OF PARALLEL COMPUTER DYNAMIC MODEL IN A
COMPRESSOR TEST ENVIRONMENT
Period *Obligations*
09/24/1993-04/23/1995 FY95: TOTAL: \$34,590
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W F OBRIEN LERC/A K OWEN 41-Aero Engr

NAG 1-1689 **Va Polytechnic Inst & St Univ** **8640**
NON-LINEAR MODELING AND STABILITY ANALYSES OF
ANISOTROPIC SANDWICH PANELS EXPOSED TO COMPLEX
Period *Obligations*
02/06/1995-02/05/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L LIBRESCU LARC/C J CAMARDA 42-Astro Engr
LARC/M L BLOSSER

NAG 3-1539 **Va Polytechnic Inst & St Univ** **8648**
AEROACOUSTICS OF A TWO-DIMENSIONAL DIFURCATED
SUPERSONIC INLET
Period *Obligations*
09/28/1993-10/23/1995 FY95: \$105,302 TOTAL: \$198,852
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W NG LERC/R P WOODWARD 41-Aero Engr

NAG 1-1737 **Va Polytechnic Inst & St Univ** **8641**
DYNAMIC WIND TUNNEL TESTS MY 1/3
Period *Obligations*
07/13/1995-08/15/1996 FY95: \$220,419 TOTAL: \$220,419
Prin. Invest. *NASA Tech. Officer* *CASE Category*
F H LUTZE LARC/S B GRAFTON 41-Aero Engr

NAG 3-1562 **Va Polytechnic Inst & St Univ** **8649**
CHARACTERIZATION AND DEVELOPMENT OF THIN FILM HEAT F
LUX SENSORS
Period *Obligations*
01/14/1994-12/24/1995 FY95: \$60,000 TOTAL: \$120,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S B DESU LERC/G C FRALICK 47-Materials Engr

NAG 2-919 **Va Polytechnic Inst & St Univ** **8642**
LANDING GEAR INTEGRATION IN AIRCRAFT CONCEPTUAL DE
SIGN
Period *Obligations*
07/19/1994-01/31/1996 FY95: \$28,000 TOTAL: \$77,763
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W H MASON ARC/P A GELHAUSEN 41-Aero Engr
ARC/S HASAN

NAG 3-1643 **Va Polytechnic Inst & St Univ** **8650**
HEAT FLUX INSTRUMENTATION FOR HYFLITE THERMAL PROT
ECTION SYSTEM
Period *Obligations*
07/11/1994-12/31/1994 FY95: TOTAL: \$50,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
T E DILLER LERC/H A WILL 47-Materials Engr
LERC/G C FRALICK

NAG 3-830 **Va Polytechnic Inst & St Univ** **8643**
EXPER STDY SUPERSONIC THROUGH FLOW CASCADE
Period *Obligations*
11/02/1987-07/13/1995 FY95: TOTAL: \$453,376
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W F NG LERC/D L TWEEDT 41-Aero Engr
J A SCHETZ LERC/R D MOORE

NAG 3-1667 **Va Polytechnic Inst & St Univ** **8651**
ADVANCED DYNAMICS SIMULATIONS
Period *Obligations*
09/22/1994-03/20/1996 FY95: \$49,987 TOTAL: \$98,844
Prin. Invest. *NASA Tech. Officer* *CASE Category*
W F OBRIEN LERC/A R OWEN 41-Aero Engr

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NAG 5-659 Va Polytechnic Inst & St Univ 8652
MULTIHEAM RADAR ALTIMETER ALGORITHM DEVELOPMENT
Period Obligations
09/01/1989-12/31/1995 FY95: \$18,197 TOTAL: \$54,981
Prin. Invest. NASA Tech. Officer CASE Category
G S BROWN GSFC/C L PARSONS 45-Elec Engr
GSFC/G S HAYNE

NCC 2-5036 Va Polytechnic Inst & St Univ 8660
OPTIMIZATION OF AN ASCT WING-BODY CONFIGURATION USING EULER EQUATIONS
Period Obligations
02/16/1994-01/31/1996 FY95: \$38,687 TOTAL: \$74,670
Prin. Invest. NASA Tech. Officer CASE Category
R K KAPANIA ARC/G P GURUSWAMY 41-Aero Engr

NAGW 4241 Va Polytechnic Inst & St Univ 8653
ADVANCED DESIGN PROGRAM
Period Obligations
01/27/1995-10/31/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
A JAKUBOWSKI HQ/A S MCGEE 49-Engr, NEC

NCC 2-5040 Va Polytechnic Inst & St Univ 8661
SKIN FRICTION MEASUREMENTS IN THE 16 INCH SHOCK TUNNEL AND HYPULSE
Period Obligations
03/01/1994-07/31/1995 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
J A SCHETZ ARC/G S DEIWERT 41-Aero Engr

NAGW 4289 Va Polytechnic Inst & St Univ 8654
ADVANCED DESIGN PROGRAM
Period Obligations
02/06/1995-08/15/1995 FY95: \$26,340 TOTAL: \$26,340
Prin. Invest. NASA Tech. Officer CASE Category
W H MASON HQ/A S MCGEE 49-Engr, NEC
HQ/G SEIDEL

NCC 2-5097 Va Polytechnic Inst & St Univ 8662
AEROELASTIC ANALYSIS OF MODERN COMPLEX WINGS USING ENSAERO AND NASTRAN
Period Obligations
08/29/1994-09/15/1996 FY95: \$40,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
R K KAPANIA ARC/G P GURUSWAMY 41-Aero Engr

NAS 1-19610 Va Polytechnic Inst & St Univ 8655
RESEARCH IN AERODYNAMICS, CHEMISTRY, INSTRUMENTATION, AND OTHER FIELDS
Period Obligations
07/24/1992-07/23/1998 FY95: \$814,609 TOTAL: \$2,756,086
Prin. Invest. NASA Tech. Officer CASE Category
LARC/E J PRIOR 99-Multi-Discip

NGT 00-010-025 Va Polytechnic Inst & St Univ 8663
NGT 10025/B VA. POLYT. INST. (MDAFP) 10/1/93 START
Period Obligations
11/22/1993-10/31/1995 FY95: \$115,000 TOTAL: \$164,677
Prin. Invest. NASA Tech. Officer CASE Category
B GROSSMAN HQ/G S SEIDEL 41-Aero Engr
R T HAFTKA HQ/J R FACEY
W H MASON

NAS 3-26827 Va Polytechnic Inst & St Univ 8656
IN-SITU ACOUSTO-ULTRASONIC NDE TECHNIQUE TO ASSESS DAMAGE IN CERAMIC COMPOSITES
Period Obligations
11/05/1992-04/16/1996 FY95: \$37,727 TOTAL: \$168,391
Prin. Invest. NASA Tech. Officer CASE Category
E G HENNEKE LERC/A VARY 47-Materials Engr

NGT 00-050-978 Va Polytechnic Inst & St Univ 8664
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/24/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
D P TELIONIS LARC/E PRIOR 41-Aero Engr

NAS 5-31442 Va Polytechnic Inst & St Univ 8657
HIGH POWERED SPACE POWER SYSTEM HARDWARE TESTBED
Period Obligations
02/11/1991-06/30/1995 FY95: TOTAL: \$786,696
Prin. Invest. NASA Tech. Officer CASE Category
F C LEE GSFC/J M JAGIELSKI 45-Elec Engr
B H CHO GSFC/G E RODRIQUEZ

NGT 00-050-988 Va Polytechnic Inst & St Univ 8665
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/11/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
J LAPORTE HQ/P BACON 79-Soc Sci, NEC

NCA 2-838 Va Polytechnic Inst & St Univ 8658
AERELASTIC ANALYSIS OF ADVANCED WINGS USING ENSAERO AND A DETAILED FINITE ELEMENT STRUCTURAL MODEL
Period Obligations
08/25/1993-03/14/1995 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
R K KAPANIA ARC/G P GURUSWAMY 41-Aero Engr

NGT 00-051-108 Va Polytechnic Inst & St Univ 8666
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/05/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
J R MAHN LARC/E PRIOR 46-Mech Engr

NCC 1-158 Va Polytechnic Inst & St Univ 8659
AIRCRAFT CONTROL REQUIREMENT STUDIES
Period Obligations
07/17/1991-08/31/1994 FY95: TOTAL: \$296,997
Prin. Invest. NASA Tech. Officer CASE Category
F H LUTZE LARC/J V FOSTER 41-Aero Engr
W H MASON

NGT 00-051-116 Va Polytechnic Inst & St Univ 8667
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/28/1993-09/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
D A DILLARD LARC/E PRIOR 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NGT 00-051-117 Va Polytechnic Inst & St Univ 8668
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/25/1993-06/30/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
G L WILKES LARC/E PRIOR 43-Chem Engr

NGT 00-070-399 Va Polytechnic Inst & St Univ 8676
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
07/15/1994-07/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
C R FULLER LARC/R L YANG 46-Mech Engr

NGT 00-051-174 Va Polytechnic Inst & St Univ 8669
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/03/1993-08/31/1994 FY95: TOTAL: \$25,166
Prin. Invest. NASA Tech. Officer CASE Category
R T HAFTKA LARC/E PRIOR 41-Aero Engr

NGT 00-090-104 Va Polytechnic Inst & St Univ 8677
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
09/24/1992-08/14/1996 FY95: \$24,000 TOTAL: \$48,000
Prin. Invest. NASA Tech. Officer CASE Category
J NOTTINGHAM HQ/D K RUSSELL 99-Multi-Discip

NGT 00-051-249 Va Polytechnic Inst & St Univ 8670
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
E P SCOTT LARC/L EVANS 46-Mech Engr

NGT 00-090-105 Va Polytechnic Inst & St Univ 8678
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
09/24/1992-08/14/1994 FY95: TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
J NOTTINGHAM HQ/D K RUSSELL 99-Multi-Discip

NGT 00-051-278 Va Polytechnic Inst & St Univ 8671
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/14/1994-10/06/1994 FY95: TOTAL: \$0
Prin. Invest. NASA Tech. Officer CASE Category
J LAPORTE HQ/P BACON 79-Soc Sci, NEC
W DUGGER

NGT 00-090-106 Va Polytechnic Inst & St Univ 8679
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMF)
Period Obligations
09/24/1992-08/14/1995 FY95: \$12,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
J NOTTINGHAM HQ/D K RUSSELL 99-Multi-Discip

NGT 00-070-269 Va Polytechnic Inst & St Univ 8672
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
06/26/1992-08/14/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
U VANDSBORGER LARC/E J PRIOR 46-Mech Engr

NGT 00-090-203 Va Polytechnic Inst & St Univ 8680
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
J NOTTINGHAM HQ/D RUSSELL 99-Multi-Discip

NGT 00-070-298 Va Polytechnic Inst & St Univ 8673
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
09/16/1992-08/14/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
L A ROC LARC/E PRIOR 46-Mech Engr

NGT 00-090-204 Va Polytechnic Inst & St Univ 8681
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1994 FY95: TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
J NOTTINGHAM HQ/D RUSSELL 99-Multi-Discip

NGT 00-070-318 Va Polytechnic Inst & St Univ 8674
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
06/29/1993-06/30/1996 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
T POON HQ/D K RUSSELL 45-Elec Engr

NGT 00-090-205 Va Polytechnic Inst & St Univ 8682
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
J NOTTINGHAM HQ/D RUSSELL 99-Multi-Discip

NGT 00-070-395 Va Polytechnic Inst & St Univ 8675
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
09/02/1994-06/30/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
W NG HQ/D K RUSSELL 46-Mech Engr
J R ARMSTRONG

NGT 00-090-206 Va Polytechnic Inst & St Univ 8683
UNDERGRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/27/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
J NOTTINGHAM HQ/D RUSSELL 99-Multi-Discip

NGT 00-090-215 Va Polytechnic Inst & St Univ 8684
UNDERGRADUATE STUDENT RESEARCHERS (UMF) PROGRAM
Period Obligations
09/23/1993-08/14/1996 FY95: \$24,000 TOTAL: \$36,000
Prin. Invest. NASA Tech. Officer CASE Category
J NOTTINGHAM HQ/D K RUSSELL 99-Multi-Discip

**NASA'S UNIVERSITY PROGRAM
VIRGINIA (Continued)**

NGT 00-090-264 Va Polytechnic Inst & St Univ 8685
 UNDERGRADUATE STUDENT RESEARCHERS PROGRAM (UMDF)
Period Obligations
 12/19/1994-08/14/1996 FY95: \$12,000 TOTAL: \$12,000
Prin. Invest. NASA Tech. Officer CASE Category
 J L NOTTINGHAM HQ/D K RUSSELL 43-Chem Engr

NGT 1-52107 Va Polytechnic Inst & St Univ 8686
 GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
Period Obligations
 06/15/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J L BURT LARC/A T POPE 69-Psych, NEC
 A M PRESTRUDE LARC/J R COMSTOCK JR.

NGT 1-52112 Va Polytechnic Inst & St Univ 8687
 GRADUATE STUDENT RESEARCHER PROGRAM
Period Obligations
 06/19/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 M W HYER LARC/J H STARNES JR. 41-Aero Engr

NGT 3-52304 Va Polytechnic Inst & St Univ 8688
 GRADUATE STUDENT RESEARCH PROGRAM
Period Obligations
 07/20/1995-08/15/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 U VANDSBURGER LERC/L SHAW 46-Mech Engr

NAG 1-416 Virginia State University 8695
 SOLID STATE PHYSICS RESEARCH PROGRAM
Period Obligations
 09/15/1983-06/30/1996 FY95: \$71,240 TOTAL: \$1,229,583
Prin. Invest. NASA Tech. Officer CASE Category
 C E STRONACH LARC/J W WILSON 19-Phys Sci, NEC
 R I GRYSZPAN LARC/W E MEADOR
 J J STITH

NAG 1-765 Virginia State University 8696
 COMPUTER SIMULATION OF RADIATION DAMAGE IN SEMI-
 CONDUCTORS AND POLYMERS
Period Obligations
 05/27/1987-08/31/1996 FY95: \$71,240 TOTAL: \$490,767
Prin. Invest. NASA Tech. Officer CASE Category
 J J STITH LARC/J W WILSON 19-Phys Sci, NEC
 J C DAVENPORT

NAG 1-1527 Virginia State University 8697
 EFFECTS OF GALACTIC COSMIC RADIATION ON SPACE MATERIALS
 NLPN 92-1202R
Period Obligations
 07/12/1993-12/31/1995 FY95: \$73,450 TOTAL: \$77,400
Prin. Invest. NASA Tech. Officer CASE Category
 C E STRONACH LARC/J W WILSON 13-Physics
 LARC/E J CONWAY

WASHINGTON

NAG 5-2270 Central Washington University 8698
 APPLIC. OF HIGH RESOLUTION TOPOGRAPHY AND REMOTE S
 ENSING IMAGERY TO THE KINEMATICS OF FOLD-AND-
Period Obligations
 05/26/1993-12/14/1994 FY95: TOTAL: \$24,575
Prin. Invest. NASA Tech. Officer CASE Category
 M RUBIN GSFC/G BILLS 32-Geological Sci

NAG 5-2271 Central Washington University 8699
 KINEMATICS AND EVOLUTION OF TRANS-PENINSULAR SLIP IN
 NORTHERN BAJA, CALIFORNIA
Period Obligations
 05/26/1993-06/14/1995 FY95: TOTAL: \$25,279
Prin. Invest. NASA Tech. Officer CASE Category
 M MILLER GSFC/G BILLS 32-Geological Sci

NAG 5-2908 Central Washington University 8700
 KINEMATICS AND DYNAMICS OF CONTINENTAL LITHOSPHERE IN
 THE EASTERN CALIF. SHEAR ZONE: ETC...
Period Obligations
 03/14/1995-03/14/1996 FY95: \$140,975 TOTAL: \$140,975
Prin. Invest. NASA Tech. Officer CASE Category
 M MILLER GSFC/B G BILLS 32-Geological Sci

NAGW 3464 Central Washington University 8701
 ACTIVE DEFORMATION IN THE MOJAVE DESERT REGION AND THE
 WALKER LANE BELT
Period Obligations
 04/23/1993-12/31/1994 FY95: TOTAL: \$150,655
Prin. Invest. NASA Tech. Officer CASE Category
 M M MILLER HQ/M BALTUCK 32-Geological Sci
 M P GOLOMBEK
 R K DOKKA

NAGW 3691 Central Washington University 8702
 APPLICATION OF HIGH RESOLUTION TOPOGRAPHY AND REMO TE
 SENSING IMAGERY TO THE KINEMATICS OF FOLD
Period Obligations
 08/25/1993-08/31/1994 FY95: TOTAL: \$31,615
Prin. Invest. NASA Tech. Officer CASE Category
 C RUBIN HQ/M BALTUCK 32-Geological Sci

NAGW 3826 Central Washington University 8703
 SATELLITE-BASED INVESTIGATIONS OF THE TRANSITION FROM AN
 OCEANIC TO CONTINENTAL TRANSFORM MARGIN
Period Obligations
 12/09/1993-02/28/1996 FY95: \$62,271 TOTAL: \$166,648
Prin. Invest. NASA Tech. Officer CASE Category
 M MILLER HQ/M BALTUCK 32-Geological Sci

NAGW 4282 Central Washington University 8704
 APPLICATION OF HIGH RESOLUTION TOPOGRAPHY—AND REMO
 TE SENSING IMAGERY
Period Obligations
 01/31/1995-12/31/1995 FY95: \$65,110 TOTAL: \$65,110
Prin. Invest. NASA Tech. Officer CASE Category
 C RUBIN HQ/M BALTUCK 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NAG 8-1000 Northwest Indian College 8705
 JOVE
Period Obligations
 11/24/1993-05/31/1996 FY95: \$23,531 TOTAL: \$77,704
Prin. Invest. NASA Tech. Officer CASE Category
 D BURNS MSFC/F SIX 54-Env Biology
 C D WESTER

NAG 1-1732 University of Washington 8713
 FEASIBILITY OF MAPPING CLIMATE FORCING BY ANTHRO-POGENIC
 AEROSOLS BY COMBINING GROUND-BASED AEROSOL
Period Obligations
 06/08/1995-06/07/1996 FY95: \$50,000 TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
 R J CHARLSON LARC/D M WINKER 31-Atmos Sci
 T L ANDERSON

NAGW 3622 Northwest Indian College 8706
 SEAQUEST OUTDOOR LAB FOR NATIVE AMERICANS
Period Obligations
 05/28/1993-09/30/1995 FY95: \$85,000 TOTAL: \$160,000
Prin. Invest. NASA Tech. Officer CASE Category
 R LORENCE ARC/A HATCH 39-Env Sci, NEC
 HQ/B WHITE

NAG 2-698 University of Washington 8714
 MOP SEARCH STRATEGIES AND INTERPRETATIONS
Period Obligations
 03/22/1991-09/30/1994 FY95: TOTAL: \$229,718
Prin. Invest. NASA Tech. Officer CASE Category
 W T SULLIVAN ARC/D H BROCKER 11-Astronomy

NAG 1-1404 University of Washington 8707
 QUANTIFYING THE STRENGTH OF THE BREWER-DOBSON
 CIRCULATION AND OTHER STRAT-TROP EXCHANGE PROCESSES
Period Obligations
 03/13/1992-03/11/1996 FY95: TOTAL: \$210,108
Prin. Invest. NASA Tech. Officer CASE Category
 K K TUNG LARC/E E REMSBERG 31-Atmos Sci

NAG 2-723 University of Washington 8715
 STRUCTURAL MODELING OF LIFTING SURFACE CONFIGURATIONS
 FOR AIRPLANE MULTI-DISCIPLINARY
Period Obligations
 07/30/1991-09/30/1995 FY95: \$59,735 TOTAL: \$231,730
Prin. Invest. NASA Tech. Officer CASE Category
 E LIVNE ARC/H MIURA 99-Multi-Discip
 ARC/P A GELHAUSEN

NAG 1-1495 University of Washington 8708
 SAFETY OF PROCESS - CONTROL SOFTWARE NLPN 93-223
Period Obligations
 04/19/1993-08/15/1996 FY95: \$79,109 TOTAL: \$257,542
Prin. Invest. NASA Tech. Officer CASE Category
 N G LEVISON LARC/D E ECKHARDT 22-Computer Science

NAG 2-777 University of Washington 8716
 NASA COLLABORATIVE STUDIES ON THE RADIATIVE EFFECTS OF
 CLOUDS
Period Obligations
 04/14/1992-01/31/1995 FY95: TOTAL: \$492,430
Prin. Invest. NASA Tech. Officer CASE Category
 P V HOBBS ARC/P PILEWSKIE 31-Atmos Sci
 ARC/M V KLUG

NAG 1-1586 University of Washington 8709
 FATIGUE CRACK GROWTH IN UNSYMMETRICALLY LOADED THIN
 CYLINDERS NLPN 93-711
Period Obligations
 01/14/1994-01/13/1996 FY95: \$54,326 TOTAL: \$106,588
Prin. Invest. NASA Tech. Officer CASE Category
 I M FYFE LARC/J C NEWMAN JR. 46-Mech Engr
 LARC/C E HARRIS

NAG 2-831 University of Washington 8717
 SYSTEMATIC GENERATION, OPTIMIZATION, AND ADAPTATION OF
 GRIDS FOR COMPLEX THREE-DIMENSIONAL SHAPES
Period Obligations
 04/02/1993-04/30/1995 FY95: TOTAL: \$53,265
Prin. Invest. NASA Tech. Officer CASE Category
 G TURKIYAH ARC/T A LASINSKI 22-Computer Science

NAG 1-1628 University of Washington 8710
 CONTRIBUTIONS TO AIRPLANE CONFIGURATION AERO ELASTIC
 SHAPE OPTIMIZATION (MY 1/3)
Period Obligations
 05/31/1994-06/30/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 E LIVINE LARC/J F BARTHELEMY 41-Aero Engr

NAG 3-376 University of Washington 8718
 AN INVESTIGATION OF 3-D BOUNDARY LAYER FLOWS IN SUBSONIC
 DIFFUSERS
Period Obligations
 12/07/1982-10/03/1995 FY95: TOTAL: \$912,743
Prin. Invest. NASA Tech. Officer CASE Category
 F B GESSNER LERC/W R HINGST 41-Aero Engr
 LERC/A R PORRO

NAG 1-1709 University of Washington 8711
 NASA COLLABORATIVE STUDIES ON THE RADIATIVE EFFECTS OF
 CLOUDS AND AEROSOLS NLPN 95-211R
Period Obligations
 03/29/1995-03/28/1996 FY95: \$143,000 TOTAL: \$143,000
Prin. Invest. NASA Tech. Officer CASE Category
 P V HOBBS LARC/D S MCDUGAL 31-Atmos Sci

NAG 3-1595 University of Washington 8719
 PRESSURE WAVE MACHINE DEVELOPMENT
Period Obligations
 06/07/1994-12/18/1995 FY95: \$81,277 TOTAL: \$145,154
Prin. Invest. NASA Tech. Officer CASE Category
 J J KELLER LERC/G SKOCH 41-Aero Engr

NAG 1-1711 University of Washington 8712
 COORDINATED PARAMETERIZED DEVELOPMENT AND LARGE-EDDY
 SIMULATION FOR MARINE AND ARCTIC CLOUD . . .
Period Obligations
 03/31/1995-03/31/1996 FY95: \$76,000 TOTAL: \$76,000
Prin. Invest. NASA Tech. Officer CASE Category
 C S BRETHERTON LARC/D S MCDUGAL 31-Atmos Sci

NAG 3-1748 University of Washington 8720
 BLEED ROUGHNESS MECHANISM
Period Obligations
 05/23/1995-12/07/1995 FY95: \$29,984 TOTAL: \$29,984
Prin. Invest. NASA Tech. Officer CASE Category
 D A RUSSELL LERC/B P WILLIS 41-Aero Engr
 LERC/D O DAVIS

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NAG 5-677 University of Washington 8721
MICROBURST ELECTRON PRECIPITATION
Period Obligations
 03/29/1991-02/29/1996 FY95: \$102,983 TOTAL: \$642,206
Prin. Invest. NASA Tech. Officer CASE Category
 G K PARKS GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-685 University of Washington 8722
MIDDLE ATMOSPHERE ELECTRODYNAMICS DURING A THUNDERSTORM
Period Obligations
 05/29/1991-11/30/1995 FY95: TOTAL: \$238,038
Prin. Invest. NASA Tech. Officer CASE Category
 R H HOLZWORTH GSFC/H C NEEDLEMAN 13-Physics
 GSFC/I S SMITH

NAG 5-1444 University of Washington 8723
ULTRAVIOLET COLORS OF YOUNG LMC CLUSTERS
Period Obligations
 08/20/1990-01/31/1995 FY95: TOTAL: \$50,500
Prin. Invest. NASA Tech. Officer CASE Category
 P W HODGE GSFC/D WEST 11-Astronomy

NAG 5-1518 University of Washington 8724
THE DYNAMICAL EVOLUTION OF GLOBULAR CLUSTERS AND A SEARCH FOR CATAclySMIC VARIABLES IN GLOBULAR CLUST
Period Obligations
 04/02/1991-03/31/1996 FY95: TOTAL: \$65,168
Prin. Invest. NASA Tech. Officer CASE Category
 B H MARGON GSFC/R PETRE 11-Astronomy

NAG 5-1599 University of Washington 8725
STUDIES OF TROPICAL RAIN SYSTEMS FOR TRMM VALIDATION
Period Obligations
 05/13/1991-03/31/1996 FY95: \$210,000 TOTAL: \$762,030
Prin. Invest. NASA Tech. Officer CASE Category
 R A HOUZE GSFC/O THIELE 31-Atmos Sci

NAG 5-1623 University of Washington 8726
X-RAY ANALYSIS OF A LARGE COMPLETE QSO SAMPLE
Period Obligations
 06/07/1991-06/14/1994 FY95: TOTAL: \$41,377
Prin. Invest. NASA Tech. Officer CASE Category
 S F ANDERSON GSFC/R PETRE 11-Astronomy

NAG 5-1847 University of Washington 8727
SUDDEN CLIMATE CHANGE: THE LAND SURFACE RECORD
Period Obligations
 12/10/1991-12/31/1993 FY95: TOTAL: \$157,730
Prin. Invest. NASA Tech. Officer CASE Category
 A R GILLESPIE GSFC/L S WALTER 32-Geological Sci
 J B ADAMS

NAG 5-1927 University of Washington 8728
S193: LOOKING DOWN THE ACCRETION AXIS
Period Obligations
 03/04/1992-03/14/1996 FY95: TOTAL: \$84,525
Prin. Invest. NASA Tech. Officer CASE Category
 P SZKODY GSFC/R PETRE 11-Astronomy

NAG 5-1984 University of Washington 8729
OBSERVATIONS OF TWO RECENT SYMBIOTIC NOVAE
Period Obligations
 05/12/1992-05/31/1994 FY95: TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 G WALLERSTEIN GSFC/R PETRE 11-Astronomy

NAG 5-2114 University of Washington 8730
DISK PRECESSION IN THE MAGNETIC OLD NOVA V603 AQL
Period Obligations
 10/08/1993-11/31/1996 FY95: TOTAL: \$24,500
Prin. Invest. NASA Tech. Officer CASE Category
 P A SZKODY GSFC/D WEST 11-Astronomy

NAG 5-2213 University of Washington 8731
LARGE SCALE STRUCTURE AND GALAXY FORMATION
Period Obligations
 02/18/1993-11/30/1995 FY95: \$515,000 TOTAL: \$1,324,000
Prin. Invest. NASA Tech. Officer CASE Category
 G LAKE GSFC/J R FISCHER 11-Astronomy
 L ADAMS
 J BARDEEN

NAG 5-2294 University of Washington 8732
FROM MICROSCALE TO MESOSCALE: SNOWMELT, SOIL MOISTURE AND EVAPOTRANSPIRATION USING DISTRIBUTED...
Period Obligations
 06/22/1993-06/30/1996 FY95: \$71,000 TOTAL: \$146,000
Prin. Invest. NASA Tech. Officer CASE Category
 D P LETTENMAIER GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P SELLERS

NAG 5-2303 University of Washington 8733
EUVE SPECTROSCOPY OF EXPOSED WDS IN 3 CATAclySMIC VARIABLES: PROBING ACCRETION PHYSICS
Period Obligations
 06/30/1993-07/14/1995 FY95: TOTAL: \$20,000
Prin. Invest. NASA Tech. Officer CASE Category
 P A SZKODY GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2315 University of Washington 8734
COORDINATED VOYAGER OBSERVATIONS OF V603 AQL
Period Obligations
 07/12/1993-07/14/1996 FY95: TOTAL: \$5,000
Prin. Invest. NASA Tech. Officer CASE Category
 P SZKODY GSFC/R OLIVERSEN 11-Astronomy

NAG 5-2356 University of Washington 8735
TARGET OF OPPORTUNITY: TT CRT AND YY DRA AT OUTBURST
Period Obligations
 08/26/1993-09/14/1995 FY95: TOTAL: \$2,000
Prin. Invest. NASA Tech. Officer CASE Category
 P SZKODY GSFC/D WEST 11-Astronomy

NAG 5-2767 University of Washington 8736
THE ACCRETION AND SPECTRUM OF U GEM IN QUIESCENCE
Period Obligations
 10/26/1994-03/14/1996 FY95: \$9,000 TOTAL: \$9,000
Prin. Invest. NASA Tech. Officer CASE Category
 P SZKODY GSFC/N WHITE 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NAG 5-2793 University of Washington 8737
ASTROPHYSICS OF COSMIC EVOLUTION
Period Obligations
11/21/1994-08/31/1996 FY95: \$207,500 TOTAL: \$207,500
Prin. Invest. NASA Tech. Officer CASE Category
C J HOGAN GSFC/D WEST 11-Astronomy

NAG 8-207 University of Washington 8745
PULSE TIMING STUDIES OF X-RAY PULSARS
Period Obligations
08/28/1991-04/22/1995 FY95: TOTAL: \$148,049
Prin. Invest. NASA Tech. Officer CASE Category
J E DEETER MSFC/J VARGAS 11-Astronomy
P E BOYNTON

NAG 5-2802 University of Washington 8738
DIAGNOSTIC MODELING STUDIES OF OZONE AND WATER VAPOR USING UARS DATA
Period Obligations
11/18/1994-11/30/1995 FY95: \$76,881 TOTAL: \$76,881
Prin. Invest. NASA Tech. Officer CASE Category
K TUNG GSFC/C H JACKMAN 31-Atmos Sci

NAG 8-1149 University of Washington 8746
PROTEIN CRYSTALLIZATION
Period Obligations
09/01/1995-08/31/1996 FY95: \$209,696 TOTAL: \$209,696
Prin. Invest. NASA Tech. Officer CASE Category
V VOGEL MSFC/M L PUSEY 19-Phys Sci, NEC
P STAYTOM

NAG 5-2813 University of Washington 8739
WIND 3-D PLASMA DATA ANALYSIS
Period Obligations
12/12/1994-12/14/1995 FY95: \$130,600 TOTAL: \$130,600
Prin. Invest. NASA Tech. Officer CASE Category
G K PARKS GSFC/K W OGILVIE 13-Physics

NAG 8-1150 University of Washington 8747
RESEARCH 'ELECTRIFICATION IN TROPICAL SYSTEMS'
Period Obligations
09/13/1995-09/12/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
M BAKER MSFC/H J CHRISTIAN 31-Atmos Sci
MSFC/R J BLAKESLEE

NAG 5-2821 University of Washington 8740
INVESTIGATION OF FOREST STAND STRUCTURAL AND COMPOSITIONAL ATTRIBUTES IN LATE-SUCCESSIONAL, ETC
Period Obligations
12/14/1994-12/31/1995 FY95: \$95,000 TOTAL: \$95,000
Prin. Invest. NASA Tech. Officer CASE Category
J B ADAMS GSFC/C J TUCKER 39-Env Sci, NEC

NAG 9-84 University of Washington 8748
STUDY FORMATION OF CUMULATE ROCKS
Period Obligations
03/01/1984-05/01/1994 FY95: TOTAL: \$436,993
Prin. Invest. NASA Tech. Officer CASE Category
I S MCCALLUM JSC/I D BROWNE 32-Geological Sci

NAG 5-2878 University of Washington 8741
DISSEMINATION OF STMOSPHERIC SCIENCES AND SPACE SCIENCES DATA AND INFORMATION K-12 AND THE PUBLIC.
Period Obligations
01/19/1995-01/31/1996 FY95: \$298,000 TOTAL: \$298,000
Prin. Invest. NASA Tech. Officer CASE Category
N UNTERSTEINER GSFC/F HASLER 39-Env Sci, NEC

NAG 9-604 University of Washington 8749
MECHANOSENSORY TRANSDUCTION IN MAMMALIAN CILIATED CELLS
Period Obligations
05/15/1992-06/01/1995 FY95: TOTAL: \$179,991
Prin. Invest. NASA Tech. Officer CASE Category
P VERDUGO JSC/C F SAMS 51-Biological Sci

NAG 5-3034 University of Washington 8742
RESOLVED AND COMPOSITE PROPERTIES OF THE GIANT HII REGIONS IN M33
Period Obligations
07/25/1995-08/14/1996 FY95: \$24,000 TOTAL: \$24,000
Prin. Invest. NASA Tech. Officer CASE Category
P W HODGE GSFC/S HEAP 11-Astronomy

NAG 9-683 University of Washington 8750
LDEF MICROCRATER ANALYSIS
Period Obligations
04/26/1993-01/31/1996 FY95: TOTAL: \$30,000
Prin. Invest. NASA Tech. Officer CASE Category
D E BROWNLEE JSC/M ZOLENSKY 11-Astronomy

NAG 5-3078 University of Washington 8743
MEASURING SURFACE TOPOGRAPHY OF ICE SHEETS: A COMPREHENSIVE STUDY
Period Obligations
09/25/1995-09/30/1996 FY95: \$18,000 TOTAL: \$18,000
Prin. Invest. NASA Tech. Officer CASE Category
D P WINEBRENNER GSFC/R A BINDSCHADLER 99-Multi-Discip

NAG 9-703 University of Washington 8751
DEVELOPMENT AND IMPLEMENTATION OF PREFLIGHT ADAPTATION
Period Obligations
08/30/1993-08/01/1995 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
D E PARKER JSC/D L HARM 56-Medical Sciences

NAG 5-5011 University of Washington 8744
ELECTRIC FIELD AND OPTICAL STUDIES OF LIGHTNING GENERATED PULSES
Period Obligations
05/12/1993-12/31/1995 FY95: \$88,811 TOTAL: \$297,463
Prin. Invest. NASA Tech. Officer CASE Category
R H HOLZWORTH GSFC/L J EARLY 13-Physics
GSFC/R H PLESS

NAG 9-753 University of Washington 8752
AEROGEL IMPACT ANALYSIS
Period Obligations
07/07/1994-08/01/1995 FY95: TOTAL: \$25,000
Prin. Invest. NASA Tech. Officer CASE Category
D E BROWNLEE JSC/F HORZ 31-Atmos Sci

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NAG 9-784 University of Washington 8753
CREW TRAINING FORCE DISPLAY VIRTUAL ENVIRONMENTS
Period Obligations
06/20/1984-12/31/1995 FY95: \$43,851 TOTAL: \$43,851
Prin. Invest. NASA Tech. Officer CASE Category
B HANNAFORD JSC/D HOMAN 46-Mech Engr

NAGW 1770 University of Washington 8761
MESOSCALE STORMS/FRONT STUDY W/SATELLITE WINDS
Period Obligations
06/09/1989-09/30/1993 FY95: TOTAL: \$288,188
Prin. Invest. NASA Tech. Officer CASE Category
R A BROWN HQ/J C DODGE 31-Atmos Sci
HQ/J THEON

NAGW 662 University of Washington 8754
WANE DYNAMICS AND TRANSPORT IN THE STRATOSPHERE
Period Obligations
12/01/1984-12/31/1995 FY95: \$100,000 TOTAL: \$1,316,245
Prin. Invest. NASA Tech. Officer CASE Category
J R HOLTON HQ/R D MCPETERS 31-Atmos Sci
HQ/M J PRATHER

NAGW 2275 University of Washington 8762
NAGW-2275/UNIV WASHINGTON/SPECTRAL REFLECTANCE OF PLANETARY SURFACES
Period Obligations
02/14/1991-02/29/1996 FY95: \$46,000 TOTAL: \$236,000
Prin. Invest. NASA Tech. Officer CASE Category
J B ADAMS HQ/T A MAXWELL 32-Geological Sci

NAGW 844 University of Washington 8755
ISOTOPIC BIOGEOCHEMICAL STUDY OF WETLAND METHANE
Period Obligations
10/01/1985-06/30/1996 FY95: \$372,542 TOTAL: \$1,877,951
Prin. Invest. NASA Tech. Officer CASE Category
P D QUAY HQ/M J KURYLO 39-Env Sci, NEC
S L KING HQ/R T WATSON
G FARWELL

NAGW 2407 University of Washington 8763
POLAR EXCHANGE AT THE SEA SURFACE (POLES); THE INT ERACTION OF OCEANS, ICE, AND ATMOSPHERE
Period Obligations
04/11/1991-02/31/1995 FY95: \$960,000 TOTAL: \$4,218,565
Prin. Invest. NASA Tech. Officer CASE Category
D A ROTHROCK HQ/R H THOMAS 33-Oceanography
S MARTIN HQ/W S WILSON
R BROWN

NAGW 1256 University of Washington 8756
SEA ICE TYPE DISCRIMINATION USING POLARIMETRIC SYNTHETIC
Period Obligations
12/22/1987-02/29/1996 FY95: \$102,879 TOTAL: \$718,803
Prin. Invest. NASA Tech. Officer CASE Category
D P WINEBRENNER HQ/R H THOMAS 33-Oceanography
HQ/W S WILSON

NAGW 2512 University of Washington 8764
SEA ICE MOTION IN THE PACIFIC SECTOR OF THE ARCTIC BASIN
Period Obligations
07/10/1991-04/30/1994 FY95: TOTAL: \$267,718
Prin. Invest. NASA Tech. Officer CASE Category
R COLONY HQ/R H THOMAS 33-Oceanography
HQ/R A SCHIFFER

NAGW 1322 University of Washington 8757
RELATIONSHIPS BETWEEN WIND, WAVES, AND RADAR BACKSCATTER
Period Obligations
06/27/1988-11/30/1994 FY95: TOTAL: \$389,418
Prin. Invest. NASA Tech. Officer CASE Category
K B KATSAROS HQ/G S LAGERLOEF 33-Oceanography
HQ/W S WILSON

NAGW 2513 University of Washington 8765
SAR AND MICROWAVE REMOTE SENSING OF SEA ICE AND POLAR OCEANS
Period Obligations
08/16/1991-06/30/1994 FY95: TOTAL: \$521,591
Prin. Invest. NASA Tech. Officer CASE Category
D A ROTHROCK HQ/R H THOMAS 33-Oceanography

NAGW 1436 University of Washington 8758
SATELLITE STUDIES OF ICE EDGE AND POLYNYA PROCESSES
Period Obligations
08/12/1988-12/31/1996 FY95: \$112,117 TOTAL: \$713,101
Prin. Invest. NASA Tech. Officer CASE Category
S MARTIN HQ/R H THOMAS 33-Oceanography
HQ/W S WILSON

NAGW 2523 University of Washington 8766
COSMIC EVOLUTION
Period Obligations
05/23/1991-12/31/1994 FY95: TOTAL: \$427,569
Prin. Invest. NASA Tech. Officer CASE Category
C J HOGAN HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 1605 University of Washington 8759
ZONALLY-AVERAGED MODEL OF DYNAMIC CHEMISTRY
Period Obligations
12/30/1988-11/30/1995 FY95: TOTAL: \$509,978
Prin. Invest. NASA Tech. Officer CASE Category
K K TUNG HQ/R D MCPETERS 31-Atmos Sci
HQ/M J PRATHER

NAGW 2556 University of Washington 8767
DEVELOPMENT OF SPATIALLY DISTURBED SNOWMELT MODELS FOR ASSESSING CLIMATE CHANGE IMPACTS
Period Obligations
06/13/1991-02/28/1994 FY95: TOTAL: \$311,533
Prin. Invest. NASA Tech. Officer CASE Category
D P LETTERMAIER HQ/G ASRAR 39-Env Sci, NEC
D MARKS HQ/J S THEON

NAGW 1702 University of Washington 8760
THEORY AND APPLICATIONS OF DISCRETE SCATTERER MODELS
Period Obligations
03/17/1989-12/31/1994 FY95: TOTAL: \$318,300
Prin. Invest. NASA Tech. Officer CASE Category
L TSANG HQ/G ASRAR 13-Physics
HQ/T J PIEPER

NAGW 2569 University of Washington 8768
COSMIC BACKGROUND RADIATION AND COSMIC EVALUATION
Period Obligations
06/24/1991-06/30/1996 FY95: TOTAL: \$258,200
Prin. Invest. NASA Tech. Officer CASE Category
C J HOGAN HQ/L J CAROFF 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NAGW 2574 University of Washington 8769
 A COUPLED THERMODYNAMIC/STRONG FLUCTUATION THEORY
 MODEL OF MICROWAVE EMISSION FROM ICE IN POLAR OCNS
Period Obligations
 08/16/1991-06/30/1996 FY95: \$24,797 TOTAL: \$390,388
Prin. Invest. NASA Tech. Officer CASE Category
 T C GRENFELL HQ/R H THOMAS 33-Oceanography
 G A MAYKUT HQ/R A SCHIFFER

NAGW 3174 University of Washington 8777
 NAGW-3174/UNIV WASHINGTON/SEA ICE AND OCEAN
 CONVECTION
Period Obligations
 09/29/1992-11/30/1994 FY95: TOTAL: \$332,557
Prin. Invest. NASA Tech. Officer CASE Category
 K AAGAARD HQ/R H THOMAS 33-Oceanography
 HQ/R A SCHIFFER

NAGW 2633 University of Washington 8770
 CLIMATE PROCESSES OVER THE OCEAN
Period Obligations
 07/15/1991-12/31/1995 FY95: \$564,000 TOTAL: \$2,452,000
Prin. Invest. NASA Tech. Officer CASE Category
 D L HARTMANN HQ/J C DODGE 31-Atmos Sci
 HQ/W S WILSON

NAGW 3195 University of Washington 8778
 NAGW-3195/UNIV WASHINGTON/EVALUATION OF THE FEASIBILITY
 OF DETERMINING CANOPY CHEMISTRY
Period Obligations
 09/17/1992-06/30/1994 FY95: TOTAL: \$149,913
Prin. Invest. NASA Tech. Officer CASE Category
 J B ADAMS HQ/D F WICKLAND 39-Env Sci, NEC
 HQ/A C JANETOS

NAGW 2652 University of Washington 8771
 NAGW-2652/UNIV WASHINGTON/THE REGIONAL AMAZON MODE L:
 SYNOPTIC SCALE HYDROLOGICAL AND BIOGEOCHEMICAL C
Period Obligations
 07/25/1991-12/31/1995 FY95: \$699,999 TOTAL: \$3,389,999
Prin. Invest. NASA Tech. Officer CASE Category
 J E RICHEY HQ/R E MURPHY 39-Env Sci, NEC
 HQ/W S WILSON

NAGW 3251 University of Washington 8779
 NAGW-3251/UNIV WASHINGTON/MAKING THE INVISIBLE: TE
 CHNIQUES
Period Obligations
 10/30/1992-06/30/1995 FY95: TOTAL: \$4,994
Prin. Invest. NASA Tech. Officer CASE Category
 C J HOGAN HQ/L LAPIANA 11-Astronomy
 HQ/G P NEWTON

NAGW 2676 University of Washington 8772
 LOW MASS STARS AS DARK MATTER
Period Obligations
 08/06/1991-04/30/1996 FY95: \$43,600 TOTAL: \$198,000
Prin. Invest. NASA Tech. Officer CASE Category
 G LAKE HQ/G S KUTTER 11-Astronomy
 HQ/G R RIEGLER

NAGW 3287 University of Washington 8780
 NAGW-3287/UNIV WASHINGTON @ SEATTLE/INTERPLANETARY
 DUST
Period Obligations
 11/27/1992-12/14/1995 FY95: \$243,989 TOTAL: \$644,149
Prin. Invest. NASA Tech. Officer CASE Category
 D B BROWNEE HQ/H C BRINTON 32-Geological Sci

NAGW 2743 University of Washington 8773
 MAPPING ANTARCTIC OZONE IN THE 1970'S
Period Obligations
 09/19/1991-12/31/1995 FY95: \$62,433 TOTAL: \$286,210
Prin. Invest. NASA Tech. Officer CASE Category
 S G WARREN HQ/J A KAYE 31-Atmos Sci
 HQ/R E MURPHY

NAGW 3352 University of Washington 8781
 NAGW-3352/UNIV WASHINGTON/THE FORMATION OF CUMULATE
 ROCKS
Period Obligations
 01/26/1993-12/14/1995 FY95: \$30,000 TOTAL: \$88,500
Prin. Invest. NASA Tech. Officer CASE Category
 I S MCCALLUS HQ/H C BRINTON 32-Geological Sci

NAGW 2888 University of Washington 8774
 SMALL-SCALE VARIABILITY OF INFRARED SEA SURFACE TE
 MPERATURE
Period Obligations
 02/20/1992-12/31/1995 FY95: \$110,000 TOTAL: \$387,764
Prin. Invest. NASA Tech. Officer CASE Category
 A T JESSUP HQ/J S THEON 33-Oceanography

NAGW 3381 University of Washington 8782
 NUMERICAL MODEL STUDIES OF THE MARTIAN MESOSCALE C
 IRCULATIONS
Period Obligations
 02/16/1993-02/28/1996 FY95: \$31,865 TOTAL: \$46,816
Prin. Invest. NASA Tech. Officer CASE Category
 J E TILLMAN HQ/H C BRINTON 19-Phys Sci, NEC

NAGW 2982 University of Washington 8775
 MICRO WEATHER STATIONS FOR IN-SITU MEASUREMENTS IN THE
 MARTIAN PLANETARY BOUNDARY LAYER
Period Obligations
 03/16/1992-12/31/1994 FY95: TOTAL: \$115,413
Prin. Invest. NASA Tech. Officer CASE Category
 J E TILLMAN HQ/W L QUAIDE 19-Phys Sci, NEC

NAGW 3475 University of Washington 8783
 CLOUDS, LARGE SCALE INTERACTIONS AND CLIMATE
Period Obligations
 03/25/1993-12/31/1995 FY95: \$164,167 TOTAL: \$459,667
Prin. Invest. NASA Tech. Officer CASE Category
 D L HARTMAN HQ/J C DODGE 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 3158 University of Washington 8776
 SPACE SPECTROSCOPY OF THE WHITE DWARFS IN CATAclyS
 MIC VARIABLES
Period Obligations
 08/14/1992-07/31/1996 FY95: \$94,699 TOTAL: \$389,327
Prin. Invest. NASA Tech. Officer CASE Category
 P SZKODY HQ/G R RIEGLER 11-Astronomy

NAGW 3527 University of Washington 8784
 SCATTERMETER MODEL FUNCTION DEVELOPMENT
Period Obligations
 04/14/1993-02/28/1995 FY95: TOTAL: \$190,975
Prin. Invest. NASA Tech. Officer CASE Category
 W J PLANT HQ/J S THEON 32-Geological Sci

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NAGW 3528 University of Washington 8785
 NAGW-3528/UNIV WASHINGTON/AUTOMATED ANALYSIS OF UL TRA
 HIGH ENERGY COSMIC RAY EVENTS
Period Obligations
 04/21/1993-02/29/1996 FY95: \$71,000 TOTAL: \$212,100
Prin. Invest. NASA Tech. Officer CASE Category
 R WILKES HQ/W V JONES 13-Physics
 HQ/G L WITHBROE

NAGW 3794 University of Washington 8793
 PARTICIPATION IN NATO ADVANCED RESEARCH WORKSHOP O N
 STRATOSPHERE-TROPOSPHERE EXCHANGE
Period Obligations
 10/13/1993-08/31/1994 FY95: TOTAL: \$9,348
Prin. Invest. NASA Tech. Officer CASE Category
 J HOLLEN HQ/J A KAYE 39-Env Sci, NEC
 HQ/R E MURPHY

NAGW 3606 University of Washington 8786
 PATTERNS OF CZCS OBSERVED PLANT PIGMENT IN REGIONS OF
 PRESENT OR FUTURE JGOF S WORK
Period Obligations
 05/28/1993-06/30/1996 FY95: \$117,940 TOTAL: \$386,077
Prin. Invest. NASA Tech. Officer CASE Category
 K BANSE HQ/R E MURPHY 33-Oceanography

NAGW 3821 University of Washington 8794
 NAGW-3821/UNIV WASHINGTON/AEROSAL INFLUENCES ON RA
 DIATION BALANCE
Period Obligations
 11/24/1993-10/31/1996 FY95: \$27,848 TOTAL: \$54,535
Prin. Invest. NASA Tech. Officer CASE Category
 R CHARLSON HQ/A C JANETOS 31-Atmos Sci
 HQ/R T JANETOS

NAGW 3636 University of Washington 8787
 COMPARISON OF INTERPLANETARY AND INTERSTELLAR GRAI NS
Period Obligations
 06/17/1993-05/31/1996 FY95: \$39,086 TOTAL: \$58,172
Prin. Invest. NASA Tech. Officer CASE Category
 D BROWNLEE HQ/J A NUTH III 19-Phys Sci, NEC

NAGW 3960 University of Washington 8795
 IMPROVING ALTIMETRY USING IONOSPHERIC AND ATMOSPHE RIC
 TOMOGRAPHY
Period Obligations
 05/14/1994-07/31/1996 FY95: \$91,000 TOTAL: \$178,572
Prin. Invest. NASA Tech. Officer CASE Category
 B HOWE HQ/J S THEON 31-Atmos Sci

NAGW 3647 University of Washington 8788
 A WETNET STUDY OF WINDS, STORMS AND AIR-SEA FLUX M
 ODELING
Period Obligations
 06/29/1993-03/31/1996 FY95: \$248,696 TOTAL: \$368,826
Prin. Invest. NASA Tech. Officer CASE Category
 R A BROWN HQ/J C DODGE 31-Atmos Sci

NAGW 4147 University of Washington 8796
 ELBBO (EXTENDED LIFE BALLOON BORNE OBSERVATORIES)
Period Obligations
 09/28/1994-12/31/1995 FY95: TOTAL: \$65,000
Prin. Invest. NASA Tech. Officer CASE Category
 R H HOLZWORTH HQ/M M MELLOTT 13-Physics
 HQ/J D BOHLIN

NAGW 3650 University of Washington 8789
 EQUATOR-S PLASMA RESEARCH
Period Obligations
 07/09/1993-02/29/1996 FY95: \$137,000 TOTAL: \$480,000
Prin. Invest. NASA Tech. Officer CASE Category
 G K PARKS HQ/E C WHIPPLE 13-Physics
 HQ/J D BOHLIN

NAGW 4169 University of Washington 8797
 RADNET: A NEURAL NETWORK-BASED ESTIMATION OF THE S
 URFACE RADIATION BUDGET IN THE ARCTIC FROM TOVS
Period Obligations
 10/21/1994-09/30/1996 FY95: \$107,197 TOTAL: \$107,197
Prin. Invest. NASA Tech. Officer CASE Category
 A SCHWEIGER HQ/R H THOMAS 31-Atmos Sci
 HQ/J S THEON

NAGW 3750 University of Washington 8790
 AEROSOLS FROM BIOMASS BURNING IN THE TROPICAL SAVA
 NNAH
Period Obligations
 09/23/1993-05/31/1996 FY95: \$147,000 TOTAL: \$359,000
Prin. Invest. NASA Tech. Officer CASE Category
 P V HOBBS HQ/J T SUTTLES 31-Atmos Sci
 HQ/A C JANETOS

NAGW 4251 University of Washington 8798
 ESTIMATION OF SNOW PARAMETERS BASED ON PASSIVE REM
 OTE SENSING AND METEOROLOGICAL INFORMATION
Period Obligations
 02/06/1995-02/14/1996 FY95: \$80,000 TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 L TSANG HQ/M Y WEI 45-Elec Engr
 HQ/J S THEON

NAGW 3754 University of Washington 8791
 EVOLUTION OF AEROSOL SIZE DISTRIBUTION IN THE CLOU DY
 BOUNDARY LAYER
Period Obligations
 09/09/1993-08/31/1996 FY95: \$75,800 TOTAL: \$197,549
Prin. Invest. NASA Tech. Officer CASE Category
 M B BAKER HQ/J T SUTTLES 31-Atmos Sci
 D A HEGG HQ/A C JANETOS

NAGW 4253 University of Washington 8799
 NASA ADVANCED DESIGN PROGRAM
Period Obligations
 01/13/1995-10/09/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
 A P BRUCKNER HQ/A S MCGEE 49-Engr, NEC

NAGW 3755 University of Washington 8792
 PLASMADESMATA AND THE CONTROL OF GRAVITROPISM
Period Obligations
 09/28/1993-09/30/1995 FY95: \$65,000 TOTAL: \$125,000
Prin. Invest. NASA Tech. Officer CASE Category
 R E CLELAND HQ/T W HALSTEAD 51-Biological Sci

NAGW 4335 University of Washington 8800
 ISEE ARCHIVING DATA
Period Obligations
 03/15/1995-02/29/1996 FY95: \$30,611 TOTAL: \$30,611
Prin. Invest. NASA Tech. Officer CASE Category
 G K PARKS HQ/J WILLETT 19-Phys Sci, NEC

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NAGW 4382	University of Washington	8801
THE ACCUMULATION AND MELT OF SNOW IN THE ARCTIC BASIN		
<i>Period</i>	<i>Obligations</i>	
04/24/1995-01/31/1997	FY95: \$129,760	TOTAL: \$129,760
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R COLONY	HQ/R H THOMAS	39-Env Sci, NEC
NAGW 4393	University of Washington	8802
PERCEIVED SELF-MOTION ASSESSED BY COMPUTER-MADE ANIMATIONS		
<i>Period</i>	<i>Obligations</i>	
04/14/1995-02/14/1998	FY95: \$80,759	TOTAL: \$80,759
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D E PARKER	HQ/F SULZMAN	59-Life Sci, NEC
NAGW 4444	University of Washington	8803
AMAZON ECOLOGY A WORKSHOP		
<i>Period</i>	<i>Obligations</i>	
05/04/1995-03/31/1996	FY95: \$209,990	TOTAL: \$209,990
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J E RICHEY	HQ/D E WICKLAND HQ/A C JANETOS	39-Env Sci, NEC
NAGW 4450	University of Washington	8804
AN INVESTIGATION OF THE SOURCE OF MICROBURST ELECTRON PRECIPITATION BY COMPARISON OF DATA TO		
<i>Period</i>	<i>Obligations</i>	
05/02/1995-04/30/1997	FY95: \$60,191	TOTAL: \$60,191
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G K PARKS	HQ/J D BOHLIN	13-Physics
NAGW 4565	University of Washington	8805
DEVELOPMENT AND TESTING OF OPERATIONAL ATMOSPHERIC CORRECTION OF SATELLITE DATA FOR THE NSF-LTER SI		
<i>Period</i>	<i>Obligations</i>	
05/31/1995-04/30/1997	FY95: \$35,394	TOTAL: \$35,394
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J CASTLE E VERMOTE J C ROGER	HQ/D E WICKLAND HQ/A C JANETOS	39-Env Sci, NEC
NAGW 4642	University of Washington	8806
KINEMATICS AND MECHANICS OF SEA ICE		
<i>Period</i>	<i>Obligations</i>	
07/18/1995-05/14/1997	FY95: \$247,516	TOTAL: \$247,516
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R E MORITZ	HQ/R H THOMAS HQ/M BALTUCK	33-Oceanography
NAGW 4712	University of Washington	8807
ASSESSMENT OF REQUIRED ACCURACY OF DIGITAL ELEVATION DATA FOR HYDROLOGIC MODELING		
<i>Period</i>	<i>Obligations</i>	
08/22/1995-06/30/1998	FY95: \$94,000	TOTAL: \$94,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D P LETTENMAIER	HQ/M Y WEI HQ/A C JANETOS	39-Env Sci, NEC
NAGW 4776	University of Washington	8808
THE STABILITY OF THE SOLAR SYSTEM		
<i>Period</i>	<i>Obligations</i>	
09/21/1995-08/31/1998	FY95: \$70,000	TOTAL: \$70,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
T R QUINN	HQ/D A HOLLAND HQ/J H BREDEKAMP	13-Physics
NAG10-77	University of Washington	8809
ROLL OF EXTRACELLULAR CALCIUM IN PLANT GRAVITROPISM		
<i>Period</i>	<i>Obligations</i>	
08/20/1990-05/20/1994	FY95:	TOTAL: \$209,982
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R E CLELAND	KSC/W M KNOTT	51-Biological Sci
NAS 1-18157	University of Washington	8810
SCIENCE SUPPORT FOR ERBE \$100,000 OBLIGATED		
<i>Period</i>	<i>Obligations</i>	
10/11/1985-10/10/1993	FY95:	TOTAL: \$1,204,625
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D L HARTMANN	LARC/J E COOPER LARC/B BARKSTROM	31-Atmos Sci
NAS 1-18940	University of Washington	8811
SAGE III SCIENCE INVESTIGATION SUPPORT, P.I. PETER V. HOBBS		
<i>Period</i>	<i>Obligations</i>	
10/27/1989-01/31/2005	FY95: \$70,000	TOTAL: \$175,093
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P V HOBBS	LARC/G MADDREA	19-Phys Sci, NEC
NAS 5-26301	University of Washington	8812
WAVE DYNAMICS AND TRANSPORT IN THE MIDDLE ATMOSPHERE		
<i>Period</i>	<i>Obligations</i>	
09/29/1980-09/30/1995	FY95: \$335,567	TOTAL: \$2,212,894
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J R HOLTON	GSFC/C REBER	31-Atmos Sci
NAS 5-26850	University of Washington	8813
PROVIDE DEFINITION PHASE STUDY OF A FAST AND VERSATILE 3-D PLASMA EXPERIMENT FOR THE OPEN PROJECT		
<i>Period</i>	<i>Obligations</i>	
05/04/1982-11/01/1995	FY95: \$483,400	TOTAL: \$1,801,813
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G K PARKS	GSFC/J J O'BRIEN	13-Physics
NAS 5-30613	University of Washington	8814
INVESTIGATION DEFINITION PHASE FOR CLUSTER PLASMA SPECTROMETRY		
<i>Period</i>	<i>Obligations</i>	
02/21/1989-12/31/1995	FY95: \$975,803	TOTAL: \$2,981,859
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G K PARKS	GSFC/K STICH	13-Physics
NAS 5-31372	University of Washington	8815
INTERMEDIATE THERMAL INFRARED RADIOMETER (EOS INVESTIGATION)		
<i>Period</i>	<i>Obligations</i>	
02/19/1989-12/14/2001	FY95: \$370,000	TOTAL: \$1,180,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
A R GILLESPIE	GSFC/H BLODGET	31-Atmos Sci
NASW 4914	University of Washington	8816
MICRO-TELEROBOTICS EXPERIMENT: 'MICRO-TREX'		
<i>Period</i>	<i>Obligations</i>	
06/02/1994-03/01/1995	FY95:	TOTAL: \$59,358
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
B HANNAFORD	HQ/G C MISENER	46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NCA 2-658 University of Washington 8817
 REFERENCE IMAGES FOR LUMINESCENT BAROMETRY
Period Obligations
 10/01/1991-06/15/1995 FY95: TOTAL: \$80,000
Prin. Invest. NASA Tech. Officer CASE Category
 M GOUTERMAN ARC/B MCLACHLAN 12-Chemistry
 J B CALLIS

NGT 00-030-076 University of Washington 8825
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/30/1991-08/31/1994 FY95: TOTAL: \$53,531
Prin. Invest. NASA Tech. Officer CASE Category
 P W MOTE HQ/D M BUTLER 31-Atmos Sci
 J R HOLTON HQ/G S WILSON

NCA 2-2002 University of Washington 8818
 JOINT SPONSORED RESEARCH AGREEMENT NO. 6 VIDEO LUM
 INESCENT BAROMETRY
Period Obligations
 02/25/1993-12/31/1995 FY95: \$148,888 TOTAL: \$420,636
Prin. Invest. NASA Tech. Officer CASE Category
 M GOUTERMAN ARC/B MCLACHLAN 12-Chemistry
 ARC/S DAVIS

NGT 00-030-085 University of Washington 8826
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/19/1991-06/15/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 C J BEEGLE HQ/D M BUTLER 33-Oceanography
 R GAMMON HQ/G S WILSON

NCC 1-156 University of Washington 8819
 MULTIRATE DIGITAL CONTROL SYSTEM DESIGN FOR THE PAPA
 BENCHMARK WING
Period Obligations
 07/22/1991-07/14/1994 FY95: TOTAL: \$90,132
Prin. Invest. NASA Tech. Officer CASE Category
 M C BERG LARC/V MUKHOPADHYAY 41-Aero Engr
 LARC/M H DURHAM

NGT 00-030-087 University of Washington 8827
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/19/1991-08/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 N J MANTUA HQ/D M BUTLER 33-Oceanography
 E SARACHIK HQ/G S WILSON

NCC 2-5084 University of Washington 8820
 ANALYSIS OF NEAR IR TO MID IR IMAGING AND SPECTRO SCOPY
 DATA OF MARS THE MOON AND SELECTED ASTEROID
Period Obligations
 07/25/1994-07/31/1995 FY95: TOTAL: \$39,598
Prin. Invest. NASA Tech. Officer CASE Category
 J B ADAMS ARC/Y PENDLETON 11-Astronomy

NGT 00-030-092 University of Washington 8828
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/25/1991-12/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J R NORRIS HQ/D M BUTLER 31-Atmos Sci
 C B LEOVY HQ/G S WILSON

NCC 2-5099 University of Washington 8821
 DEVELOPMENT OF AN AUTOMATIC BLOCK GENERATION ALGOR
 ITHM
Period Obligations
 08/31/1994-09/14/1995 FY95: TOTAL: \$39,957
Prin. Invest. NASA Tech. Officer CASE Category
 S EBERHARDT ARC/W R VAN DALSEM 41-Aero Engr
 B KIM ARC/E TU

NGT 00-030-100 University of Washington 8829
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/27/1992-04/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 S E YUTER HQ/G ASRAR 99-Multi-Discip
 HQ/J S THEON

NCC 2-5152 University of Washington 8822
 DEVELOPMENT OF AN AUTOMATIC GRID GENERATOR FOR MUL
 TIELEMENT HIGH-LIFT WINGS
Period Obligations
 08/11/1995-06/30/1996 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
 S EBERHARDT ARC/W R VAN DALSEM 41-Aero Engr
 B KIM ARC/E TU

NGT 00-030-110 University of Washington 8830
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/02/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 D L WORTHEN HQ/G ASRAR 99-Multi-Discip
 HQ/D M BUTLER

NGT 00-030-047 University of Washington 8823
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/19/1991-03/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R M PINCUS HQ/D M BUTLER 31-Atmos Sci
 M BAKER HQ/G S WILSON

NGT 00-030-116 University of Washington 8831
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/02/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 L J CARLSON HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-058 University of Washington 8824
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/23/1991-08/31/1994 FY95: TOTAL: \$64,336
Prin. Invest. NASA Tech. Officer CASE Category
 J L YOUNG HQ/D M BUTLER 33-Oceanography
 J MURRAY HQ/G S WILSON

NGT 00-030-123 University of Washington 8832
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 11/02/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 W T WELCH HQ/G ASRAR 99-Multi-Discip
 HQ/D M BUTLER

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NGT 00-030-176 University of Washington 8833
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/01/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R E BREIDENTHAL HQ/G ASRAR 31-Atmos Sci
 HQ/D M BUTLER

NGT 00-030-343 University of Washington 8841
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/04/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 D P LETTENMAIER HQ/A C JANETOS 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-030-178 University of Washington 8834
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/02/1993-08/31/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 E RISKIN HQ/G ASRAR 39-Env Sci, NEC
 HQ/D M BUTLER

NGT 00-030-348 University of Washington 8842
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/05/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 R E MCDUFF HQ/G ASRAR 33-Oceanography
 HQ/M BALTUCK

NGT 00-030-246 University of Washington 8835
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/29/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 S C PORTER HQ/M BALTUCK 32-Geological Sci
 HQ/G ASRAR

NGT 00-040-011 University of Washington 8843
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period Obligations
 09/29/1989-01/31/1996 FY95: \$426,506 TOTAL: \$2,114,506
Prin. Invest. NASA Tech. Officer CASE Category
 G K PARKS HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-030-282 University of Washington 8836
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 09/29/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 N UNTERSTEINER HQ/J S THEON 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-050-700 University of Washington 8844
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/02/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 J LORD HQ/F C OWENS 13-Physics

NGT 00-050-723 University of Washington 8845
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 05/13/1991-06/30/1994 FY95: TOTAL: \$65,014
Prin. Invest. NASA Tech. Officer CASE Category
 M WENSMAN HQ/F C OWENS 31-Atmos Sci

NGT 00-030-313 University of Washington 8837
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 07/27/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 J W MURRAY HQ/M BALTUCK 33-Oceanography
 HQ/G ASRAR

NGT 00-050-788 University of Washington 8846
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/27/1991-09/15/1994 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 G K PARKS HQ/F C OWENS 13-Physics

NGT 00-030-324 University of Washington 8838
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/11/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 D L HARTMANN HQ/R A SCHIFFER 31-Atmos Sci
 HQ/G ASRAR

NGT 00-050-812 University of Washington 8847
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 09/17/1991-06/30/1994 FY95: TOTAL: \$65,910
Prin. Invest. NASA Tech. Officer CASE Category
 R WEST HQ/J K ALEXANDER 45-Elec Engr

NGT 00-030-335 University of Washington 8839
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 07/22/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 P V HOBBS HQ/R A SCHIFFER 39-Env Sci, NEC
 HQ/G ASRAR

NGT 00-050-822 University of Washington 8848
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/12/1991-09/15/1994 FY95: TOTAL: \$65,177
Prin. Invest. NASA Tech. Officer CASE Category
 S HANKS HQ/F C OWENS 22-Computer Science

NGT 00-030-338 University of Washington 8840
 NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
 08/31/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 T DUNNE HQ/A GHASSEM 32-Geological Sci

NGT 00-050-933 University of Washington 8849
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/29/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M GOUTERMAN ARC/B HASTINGS 12-Chemistry

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NGT 00-051-001 University of Washington 8850
 NGT-51001/UNIV WASHINGTON/GRADUATE STUDENT
 RESEARCHERS PROGRAM
Period Obligations
 08/18/1992-08/31/1995 FY95: TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 E J DAVIS HQ/J K ALEXANDER 43-Chem Engr

NGT 5-6 University of Washington 8858
 STARLIGHT CORRELATED WITH DAMPED LYMAN-ALPHA
 ABSORBERS
Period Obligations
 06/26/1995-06/30/1996 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 C J HOGAN GSFC/G A SOFFEN 11-Astronomy
 GSFC/B E WOODGATE

NGT 00-051-047 University of Washington 8851
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/23/1993-09/15/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 M BAKER MSFC/F SIX 31-Atmos Sci

NSG-5398 University of Washington 8859
 OBSERVATIONS OF CLASSICAL STELLAR CHROMOSPHERES
Period Obligations
 07/15/1979-01/31/1995 FY95: TOTAL: \$568,402
Prin. Invest. NASA Tech. Officer CASE Category
 E BOHM-VITENSE GSFC/D WEST 11-Astronomy
 D BOGGS

NGT 00-051-155 University of Washington 8852
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 08/06/1993-09/15/1996 FY95: \$44,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 R M WINGLEE HQ/D HOLLAND 13-Physics

NAG 3-1387 Washington State University 8860
 BUBBLE DYNAMICS, TWO-PHASE FLOW AND BOILING HEAT TRANSFER IN A MICROGRAVITY ENVIRONMENT
Period Obligations
 12/23/1992-12/14/1995 FY95: \$97,978 TOTAL: \$304,643
Prin. Invest. NASA Tech. Officer CASE Category
 J N CHUNG LERC/F P CHIARAMONTE 46-Mech Engr

NGT 00-051-225 University of Washington 8853
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/26/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 M J PERRY HQ/A NOVOTNY 33-Oceanography

NAG 3-1622 Washington State University 8861
 STABILIZATION AND LOW FREQUENCY OSCILLATIONS OF CAPILLARY BRIDGES WITH MODULATED ACOUSTIC RADIATION
Period Obligations
 06/23/1994-07/05/1996 FY95: \$50,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 P L MARSTON LERC/R J SKARDA 13-Physics

NGT 00-051-279 University of Washington 8854
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 S S CARLSON HQ/G LESANE 51-Biological Sci

NAG 3-1742 Washington State University 8862
 ZNSE WINDOW LAYERS FOR GAAS AND GAINP2 SOLAR CELL
Period Obligations
 05/08/1995-12/07/1995 FY95: \$19,992 TOTAL: \$19,992
Prin. Invest. NASA Tech. Officer CASE Category
 L OLSEN LERC/S G BAILEY 47-Materials Engr

NGT 00-051-309 University of Washington 8855
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
 07/06/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
 S HANKS ARC/M MOORE 22-Computer Science

NAG 9-545 Washington State University 8863
 DIFFERENTIAL EFFECTS OF IODINE AND IODIDE ON THYROID FUNCTION IN HUMANS
Period Obligations
 09/25/1991-09/01/1995 FY95: TOTAL: \$249,726
Prin. Invest. NASA Tech. Officer CASE Category
 R J BULL JSC/R SAUER 59-Life Sci, NEC

NGT 00-070-314 University of Washington 8856
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period Obligations
 06/29/1993-12/31/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
 G LAKE HQ/D K RUSSELL 11-Astronomy

NAGW 2823 Washington State University 8864
 DETAILED THREE-DIMENSIONAL RECONSTRUCTION OF ASTEROIDS FROM RADAR OBSERVATIONS
Period Obligations
 01/03/1992-01/31/1994 FY95: TOTAL: \$106,099
Prin. Invest. NASA Tech. Officer CASE Category
 S HUDSON HQ/J K ALEXANDER 11-Astronomy
 HQ/D A HOLLAND

NGT 00-070-325 University of Washington 8857
 NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED MINORITY FOCUS PROGRAM
Period Obligations
 07/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
 B MARGON HQ/D K RUSSELL 11-Astronomy

NAGW 3672 Washington State University 8865
 PLANT METABOLISM AND CELL WALL FORMATION IN SPACE (MICROGRAVITY) AND ON EARTH
Period Obligations
 07/05/1993-05/31/1994 FY95: TOTAL: \$140,000
Prin. Invest. NASA Tech. Officer CASE Category
 N G LEWIS HQ/T W HALSTEAD 51-Biological Sci

**NASA'S UNIVERSITY PROGRAM
WASHINGTON (Continued)**

NAGW 3807 Washington State University 8866
CALCIUM MESSENGER SYSTEM
Period Obligations
10/28/1993-06/30/1996 FY95: \$65,000 TOTAL: \$190,000
Prin. Invest. NASA Tech. Officer CASE Category
B W POOVAIAH HQ/T W HALSTEAD 51-Biological Sci

NAGW 4261 Washington State University 8867
THE DEVELOPMENT OF A HIGH RESOLUTION POSITION SENSITIVE DETECTOR
Period Obligations
01/13/1995-12/31/1997 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
P HINK HQ/L K KALUZIENSKI 11-Astronomy

NAGW 4636 Washington State University 8868
RECONSTRUCTION OF THREE-DIMENSIONAL SHAPE AND SPIN STATE OF ASTEROIDS FROM RADAR DATA
Period Obligations
07/31/1995-03/31/1998 FY95: \$40,000 TOTAL: \$40,000
Prin. Invest. NASA Tech. Officer CASE Category
R HUDSON HQ/H BRINTON 11-Astronomy

NAG10-164 Washington State University 8869
EFFECTS OF GRAVITY
Period Obligations
06/08/1995-06/18/1996 FY95: \$79,690 TOTAL: \$79,690
Prin. Invest. NASA Tech. Officer CASE Category
N G LEWIS KSC/W M KNOTT 51-Biological Sci

NCC 2-794 Washington State University 8870
INTEGRATE PATTERN COMPLETION AND SYNTACTIC LEARNING IN THE CONTEXT OF INTELLIGENT ASSISTANCE FOR FORM..
Period Obligations
03/01/1993-12/31/1994 FY95: \$15,918 TOTAL: \$145,171
Prin. Invest. NASA Tech. Officer CASE Category
J C SCHLIMMER ARC/P E FRIEDLAND 22-Computer Science
ARC/P LAIRD

NCC 2-5052 Washington State University 8871
LAMINAR FLOW AND SKIN FRICTION MEASUREMENTS ON WIN G MODELS
Period Obligations
05/06/1994-12/30/1994 FY95: TOTAL: \$35,687
Prin. Invest. NASA Tech. Officer CASE Category
R V WESTPHAL ARC/R A KENNELLY 41-Aero Engr

NGT 00-050-904 Washington State University 8872
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/21/1992-12/31/1995 FY95: \$10,000 TOTAL: \$76,000
Prin. Invest. NASA Tech. Officer CASE Category
J N CHONG HQ/J ALEXANDER 46-Mech Engr

NGT 00-051-027 Washington State University 8873
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/23/1993-06/30/1996 FY95: \$15,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
C PEZESHKI HQ/J T LYNCH 46-Mech Engr

NAG 8-213 Western Washington University 8874
JOVE
Period Obligations
01/28/1992-05/31/1996 FY95: TOTAL: \$111,917
Prin. Invest. NASA Tech. Officer CASE Category
D ENGELATON MSFC/F SIX 54-Env Biology
J HARDY
R RUIGLEY

WEST VIRGINIA

NAG 8-255 Fairmont State College 8875
JOVE
Period Obligations
02/03/1993-05/31/1995 FY95: \$11,124 TOTAL: \$40,248
Prin. Invest. NASA Tech. Officer CASE Category
M S CANLON MSFC/F SIX 99-Multi-Discip

NAG 8-1117 Fairmont State College 8876
SPACECRAFT AND LAUNCH VEHICLE DATABASE
Period Obligations
02/09/1995-05/12/1995 FY95: \$5,000 TOTAL: \$5,000
Prin. Invest. NASA Tech. Officer CASE Category
A MARGRO MSFC/L JOHNSON 22-Computer Science

NCCW 50 Fairmont State College 8877
LOW COST IN-SITU CORRELATIVE MEASUREMENT PROJECT T O VALIDATE REMOERLY SENSED DATA
Period Obligations
07/20/1994-03/31/1996 FY95: TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
C WHITE HQ/K NIEWOEHNER 31-Atmos Sci

NAG 2-967 Marshall University 8878
VITAMIN D ENDOCRINE SYSTEM AFTER SHORT-TERM SPACE FLIGHT
Period Obligations
02/28/1995-08/31/1995 FY95: \$18,570 TOTAL: \$18,570
Prin. Invest. NASA Tech. Officer CASE Category
W B RHOTEN ARC/W E HINDS 51-Biological Sci
ARC/C M WINGET

NAGW 3859 Marshall University 8879
INTERACTION OF LIGHT AND ETHYLENE
Period Obligations
01/21/1994-12/31/1996 FY95: TOTAL: \$43,785
Prin. Invest. NASA Tech. Officer CASE Category
M HARRISON HQ/T W HALSTEAD 51-Biological Sci

NAG 1-1381 West Virginia University 8880
NOTCH EFFECTS IN 2D BRAIDED TEXTILE NEW GRANT
Period Obligations
01/24/1992-12/31/1994 FY95: TOTAL: \$142,852
Prin. Invest. NASA Tech. Officer CASE Category
T L NORMAN LARC/C C POE 47-Materials Engr
LARC/W C JACKSON

**NASA'S UNIVERSITY PROGRAM
WEST VIRGINIA (Continued)**

NAG 1-1584 West Virginia University 8881
 NASP PROPULSION AIRFRAME INTEGRATION FOR SUBSONIC AFT BODY DRAG ALLEVIATION
Period *Obligations*
 12/21/1993-07/01/1996 FY95: \$39,995 TOTAL: \$230,995
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J L LOTH LARC/D E REUBUSH 41-Aero Engr
 G J MORRIS LARC/B L BERRIER
 R E WALTERS

NAG 1-1635 West Virginia University 8882
 THE ROLE OF TURBULENT MIXING IN THE CHEMISTRY AND DISPERSION OF THE WAKE OF SUBSONIC AIRCRAFT
Period *Obligations*
 07/26/1994-06/30/1996 FY95: \$87,200 TOTAL: \$117,732
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W S LEWELLEN LARC/W GROSE 31-Atmos Sci

NAG 2-590 West Virginia University 8883
 MUSCLE INJURY AND REPAIR IN ZERO GRAVITY - COSMOS 89
Period *Obligations*
 07/20/1989-12/31/1993 FY95: TOTAL: \$249,098
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W T STAUBER ARC/R E GRINDELAND 56-Medical Sciences

NAG 5-2129 West Virginia University 8884
 A COLLABORATIVE AND CONCURRENT ENVIRONMENT FOR IV AND V
Period *Obligations*
 11/09/1992-11/14/1996 FY95: \$600,000 TOTAL: \$1,652,734
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J T JUREWICZ GSFC/J GITELMAN 22-Computer Science
 J R CALLAHAN
 H H AMMAR

NAG 8-149 West Virginia University 8885
 NASA JOVE INITIATIVE
Period *Obligations*
 03/01/1990-06/14/1994 FY95: TOTAL: \$89,970
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R N ELI MSFC/C R CHAPPELL 31-Atmos Sci
 M J LYELL MSFC/N F SIX

NAGW 4286 West Virginia University 8886
 INCORPORATION OF SPACE STATION ROBOT SUBSYSTEM DESIGN INTO ELECTRICAL AND COMPUTER
Period *Obligations*
 02/03/1995-08/15/1996 FY95: \$26,340 TOTAL: \$26,340
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R L MCCONNELL HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NAGW 4321 West Virginia University 8887
 ADVANCE DESIGN PROGRAM
Period *Obligations*
 03/08/1995-08/14/1996 FY95: \$26,340 TOTAL: \$26,340
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T NORMAN HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NAGW 4464 West Virginia University 8888
 DEVELOPING NATIONALLY COMPETITIVE NASA RESEARCH CAPABILITY IN WEST VIRGINIA
Period *Obligations*
 05/15/1995-02/29/1996 FY95: \$150,000 TOTAL: \$150,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 F CALZONETTI HQ/A S MCGEE 39-Env Sci, NEC
 HQ/E T SCHWARTZ

NCC 2-759 West Virginia University 8889
 DETERMINATION OF STABILITY AND CONTROL DERIVATIVES FROM THE F/A-18 HARV FROM FLIGHT DATA USING THE....
Period *Obligations*
 05/20/1992-12/31/1995 FY95: TOTAL: \$167,977
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M R NAPOLITANO ARC/A H BOWERS 41-Aero Engr
 J M SPAGNUOLO

NCCW 51 West Virginia University 8890
 LOW COST IN SITU CORRELATIVE MEASUREMENT PROJECT
Period *Obligations*
 06/14/1994-05/31/1996 FY95: TOTAL: \$1,000,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R E WALTER HQ/K NIEWOEHNER 31-Atmos Sci

NGT 00-040-047 West Virginia University 8891
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
Period *Obligations*
 07/24/1991-02/28/1995 FY95: \$170,000 TOTAL: \$833,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J T JUVEWICZ HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-050-697 West Virginia University 8892
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 04/30/1991-06/30/1995 FY95: TOTAL: \$83,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S N DWIVEDI HQ/F C OWENS 46-Mech Engr

NGT 00-050-752 West Virginia University 8893
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 07/02/1991-06/30/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S N DWIVEDI HQ/F C OWENS 46-Mech Engr

NGT 00-051-098 West Virginia University 8894
 GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 06/01/1993-06/30/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D W LYONS HQ/E MASSEY 46-Mech Engr

NGT 00-051-200 West Virginia University 8895
 GRAD STUDENT RESEARCHERS PROGRAM
Period *Obligations*
 04/25/1994-06/30/1995 FY95: TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D LYONS MSFC/F SIX 46-Mech Engr

**NASA'S UNIVERSITY PROGRAM
WEST VIRGINIA (Continued)**

NGT 00-051-370 West Virginia University 8896
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/08/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
J G WELLS LARC/L EVANS 99-Multi-Discip

NGT 00-070-255 West Virginia University 8897
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
05/04/1992-06/30/1995 FY95: \$66,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
S N DWIVEDI MSFC/F SIX 46-Mech Engr

NGT 8-52808 West Virginia University 8898
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/23/1995-07/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
L E BANTA MSFC/F SIX 46-Mech Engr
MSFC/S COTHREN

NCC 5-71 West Virginia Weysleyan College 8899
SPECTROSCOPIC INVESTIGATIONS ON THE FORMATION, COM
POSITION, AND PROPERTIES OF PRE-SOLAR DUST GAINS
Period Obligations
06/01/1994-07/14/1996 FY95: \$12,938 TOTAL: \$21,238
Prin. Invest. NASA Tech. Officer CASE Category
P A WITHEY GSFC/J A NUTH 11-Astronomy
GSFC/J E ALLEN

NAGW 2486 Wheeling Jesuit College 8900
DESIGN AND CONSTRUCTION MANAGEMENT SERVICES FOR TH E
CLASSROOM OF THE FUTURE PROJECT
Period Obligations
04/25/1991-04/23/1995 FY95: \$1,000,000 TOTAL: \$1,000,000
Prin. Invest. NASA Tech. Officer CASE Category
T ACKER HQ/F DURSO 99-Multi-Discip

NAGW 3110 Wheeling Jesuit College 8901
CONSTRUCTION OF FACILITIES FOR THE NATL TECHNOLOGYH
TRANSFER CENTER
Period Obligations
06/21/1992-09/31/1995 FY95: \$2,976,000 TOTAL: \$13,500,000
Prin. Invest. NASA Tech. Officer CASE Category
T S ACKER HQ/F X DURSO 99-Multi-Discip

NCC 5-107 Wheeling Jesuit College 8902
EXPLORING THE ENVIRONMENT
Period Obligations
09/22/1994-09/21/1997 FY95: \$640,000 TOTAL: \$700,000
Prin. Invest. NASA Tech. Officer CASE Category
R MYERS GSFC/A F HASLER 99-Multi-Discip

NCCW 12 Wheeling Jesuit College 8903
CLASSROOM OF THE FUTURE
Period Obligations
02/13/1991-11/30/1995 FY95: \$2,149,999 TOTAL: \$7,361,840
Prin. Invest. NASA Tech. Officer CASE Category
C D MILLER HQ/M V PHELPS 99-Multi-Discip

NCCW 14 Wheeling Jesuit College 8904
THE DEVELOPMENT, DEMONSTRATION AND IMPLEMENTATION OF
NATIONAL TECHNOLOGY TRANSFER CENTER
Period Obligations
04/24/1991-04/23/1995 FY95: \$1,686,700 TOTAL: \$28,333,129
Prin. Invest. NASA Tech. Officer CASE Category
L W RIVERS HQ/J ROOT 99-Multi-Discip

NCCW 65 Wheeling Jesuit College 8905
NATIONAL TECHNOLOGY TRANSFER CENTER
Period Obligations
11/01/1994-03/31/1996 FY95: \$9,537,241 TOTAL: \$9,537,241
Prin. Invest. NASA Tech. Officer CASE Category
L W RIVER HQ/J ROOT 99-Multi-Discip

WISCONSIN

NAG 5-1620 Beloit College 8906
SUPPORT OF HST AND GTO OBSERVATORIES
Period Obligations
05/28/1991-01/31/1996 FY95: \$67,300 TOTAL: \$349,165
Prin. Invest. NASA Tech. Officer CASE Category
D J SCHROEDER GSFC/S SOBIESKI 11-Astronomy

NAG 2-212 Marquette University 8907
ALTERATIONS IN SKELETAL MUSCLE WITH DISUSE ATROPHY
Period Obligations
11/01/1982-07/31/1995 FY95: \$686,370 TOTAL: \$686,370
Prin. Invest. NASA Tech. Officer CASE Category
R H FITTS ARC/S B ARNAUD 51-Biological Sci
B R UNSWORTH
J B COURTRIGHT

NAG 2-636 Marquette University 8908
THE EFFECT OF WEIGHTLESSNESS ON SINGEL MUSCLE FIB ER
FUNCTION IN RHESUS MONKEYS
Period Obligations
05/17/1990-12/15/1995 FY95: \$50,000 TOTAL: \$590,059
Prin. Invest. NASA Tech. Officer CASE Category
R H FITTS ARC/C M WINGET 56-Medical Sciences

NAG 5-2199 Marquette University 8909
PARALLEL DECOMPOSITION OPTIMIZATION ALGORITHMS FOR
LARGE-SCALE NEURAL NETWORK IMPLEMENTATION . . .
Period Obligations
02/18/1993-11/30/1995 FY95: \$30,000 TOTAL: \$90,000
Prin. Invest. NASA Tech. Officer CASE Category
X FENG GSFC/J R FISCHER 22-Computer Science

NAG 8-256 Marquette University 8910
JOVE
Period Obligations
12/02/1992-11/30/1995 FY95: \$78,000 TOTAL: \$78,000
Prin. Invest. NASA Tech. Officer CASE Category
J RICHIE MSFC/F SIX 99-Multi-Discip
K AKBAY

**NASA'S UNIVERSITY PROGRAM
WISCONSIN (Continued)**

NAG 8-875 Marquette University 8911
STUDY - PARTIAL PRESSURES THERMAL DYNAMICS AND PHASED
DIAGRAM STUDIES FOR 11-V1 SYSTEMS
Period Obligations
05/10/1991-08/31/1994 FY95: TOTAL: \$70,000
Prin. Invest. NASA Tech. Officer CASE Category
R F BREBRICK MSFC/S L LEHOCZKY 19-Phys Sci, NEC
MSFC/D A WATRING

NAG 8-1111 Marquette University 8912
LINEARIZATION OF AN ANNULAR IMAGE BY A DIFFRACTIVE OPTIC
Period Obligations
11/28/1994-06/01/1996 FY95: \$3,400 TOTAL: \$3,400
Prin. Invest. NASA Tech. Officer CASE Category
MATTHYS MSFC/H J COLE 13-Physics
MSFC/J W BILBRO

NAGW 4376 Marquette University 8913
LIMB MUSCLE FUNCTION WITH UNLOADING AND COUNTERMEASURES
Period Obligations
03/22/1995-03/31/1998 FY95: \$132,562 TOTAL: \$132,562
Prin. Invest. NASA Tech. Officer CASE Category
R H FITTS HQ/R SULZMAN 59-Life Sci, NEC

NAS 9-18768 Marquette University 8914
EFFECTS OF WEIGHTLESSNESS ON HUMAN SINGLE MUSCLE FIBER
FUNCTION FOR SLS-3
Period Obligations
08/31/1992-08/01/1997 FY95: \$300,000 TOTAL: \$684,995
Prin. Invest. NASA Tech. Officer CASE Category
R H FITTS JSC/V ELLERBEE 59-Life Sci, NEC

NCC 2-5108 Marquette University 8915
MICROCONTROLLER BASED PCM BIOTRANSCEIVER FOR THE NASA
ABTS (ADVANCED BIOTELEMETRY SYSTEM)
Period Obligations
11/18/1994-11/14/1995 FY95: \$39,981 TOTAL: \$39,981
Prin. Invest. NASA Tech. Officer CASE Category
D C JEUTTER ARC/J HINES 45-Elec Engr

NAG 2-552 Medical College of Wisconsin 8916
ELECTRON MICROSCOPY, ELECTROMYOGRAPHY, HISTOCHEMISTRY,
AND BIOCHEMISTRY OF RAT HINDLIMB MUSCLES
Period Obligations
12/01/1988-09/30/1995 FY95: \$164,182 TOTAL: \$1,316,726
Prin. Invest. NASA Tech. Officer CASE Category
D A RILEY ARC/A D MANDEL 51-Biological Sci

NAG 2-633 Medical College of Wisconsin 8917
MORPHOLOGICAL, HISTOCHEMICAL, IMMUNOCYTOCHEMICAL, AND
ELECTROMYOGRAPHIC INVESTIGATIONS OF SPACE- ...
Period Obligations
04/27/1990-01/31/1996 FY95: \$90,200 TOTAL: \$442,824
Prin. Invest. NASA Tech. Officer CASE Category
D A RILEY ARC/C M WINGET 51-Biological Sci
S ELLIS ARC/D SESLINE
A L HAAS

NAG 2-956 Medical College of Wisconsin 8918
THE EFFECTS OF MICROGRAVITY ON NEUROMUSCULAR DEVELOPMENT
Period Obligations
01/20/1995-11/30/1995 FY95: \$135,000 TOTAL: \$135,000
Prin. Invest. NASA Tech. Officer CASE Category
D A RILEY ARC/W E HINDS 51-Biological Sci
ARC/D M WINGET

NAS 3-27554 St. Norbert College 8919
SYNTHESIS OF NON-MUTAGENIC DIAMINE MONOMERS FOR POLYIMIDES
(PART II)
Period Obligations
04/11/1995-09/30/1995 FY95: \$20,005 TOTAL: \$20,005
Prin. Invest. NASA Tech. Officer CASE Category
D KLOPOTEK LERC/P DELVIGS 12-Chemistry

NAG 1-553 University of Wisconsin - Madison 8920
A CONTINENTAL MIDDLE AND HIGH CLOUD PROJECT FOR FIRE
Period Obligations
01/02/1985-01/31/1996 FY95: \$35,000 TOTAL: \$750,524
Prin. Invest. NASA Tech. Officer CASE Category
V E SUOMI LARC/T OWENS 31-Atmos Sci
D P WYLIE LARC/T L OWENS

NAG 1-882 University of Wisconsin - Madison 8921
ANALYZE HIGH SPECTRAL RESOLUTION LIDAR DATA ACQUIRED
DURING THE FIRE CIRRHUS EXPERIMENT
Period Obligations
05/06/1988-12/31/1994 FY95: TOTAL: \$616,500
Prin. Invest. NASA Tech. Officer CASE Category
E W ELORANTA LARC/T OWENS 31-Atmos Sci
LARC/H S WAGNER

NAG 1-1177 University of Wisconsin - Madison 8922
PARTICIPATION IN THE FIRE PHASE II PROGRAM
Period Obligations
09/10/1990-04/30/1995 FY95: \$1 TOTAL: \$389,996
Prin. Invest. NASA Tech. Officer CASE Category
W L SMITH LARC/D S MCDOUGAL 31-Atmos Sci
S A ACKERMAN LARC/T L OWENS

NAG 1-1403 University of Wisconsin - Madison 8923
DYNAMICAL AND CHEMICAL STUDIES OF AIRCRAFT EMISSIONS
USING SATELLITE DATA AND A 2-D MODEL
Period Obligations
03/04/1992-02/28/1995 FY95: TOTAL: \$140,533
Prin. Invest. NASA Tech. Officer CASE Category
M H HITCHMAN LARC/D E SISKIND 31-Atmos Sci

NAG 1-1568 University of Wisconsin - Madison 8924
RESEARCH ON THE DESIGN AND CONSTRUCTION OF ULTRA HIGH
SPEED, PLANAR, MAGNETIC MICROMOTORS
Period Obligations
01/05/1994-01/04/1996 FY95: TOTAL: \$50,000
Prin. Invest. NASA Tech. Officer CASE Category
H GUCKEL LARC/N J GROOM 49-Engr, NEC

NAG 2-568 University of Wisconsin - Madison 8925
SOFT DENSE FIBROUS CONNECTIVE TISSUE RESPONSE TO HINDLIMB
SUSPENSION
Period Obligations
03/15/1989-04/30/1994 FY95: TOTAL: \$403,029
Prin. Invest. NASA Tech. Officer CASE Category
A C VAILAS ARC/R E GRINDELAND 56-Medical Sciences

NAG 2-671 University of Wisconsin - Madison 8926
EFFECTS OF HINDLIMB SUSPENSION ON SKELETAL MUSCLE
GROWTH
Period Obligations
08/30/1990-12/31/1993 FY95: TOTAL: \$202,845
Prin. Invest. NASA Tech. Officer CASE Category
E SCHULTZ ARC/E M HOLTON 51-Biological Sci

**NASA'S UNIVERSITY PROGRAM
WISCONSIN (Continued)**

NAG 2-769 University of Wisconsin - Madison 8927
 RHESUS MONKEY BIOMARKERS
Period Obligations
 03/26/1992-12/31/1995 FY95: \$82,000 TOTAL: \$221,515
Prin. Invest. NASA Tech. Officer CASE Category
 A C VAILAS ARC/R BALLARD 51-Biological Sci
 J HEINER

NAG 2-838 University of Wisconsin - Madison 8928
 GROWTH OF POTATOES FOR CELSS
Period Obligations
 05/24/1993-06/30/1994 FY95: \$479 TOTAL: \$100,594
Prin. Invest. NASA Tech. Officer CASE Category
 TIBBITTS ARC/R D MACELROY 55-Agriculture Sci
 ARC/M KLISS

NAG 2-859 University of Wisconsin - Madison 8929
 THE O/H, S/H, AND TE DISTRIBUTIONS IN THE GALACTIC P LANE
Period Obligations
 09/23/1993-09/30/1996 FY95: \$41,856 TOTAL: \$81,156
Prin. Invest. NASA Tech. Officer CASE Category
 E B CHURCHWELL ARC/C D LAUGHLIN 11-Astronomy
 J S MATHIS ARC/C M GILLESPIE JR.

NAG 2-1009 University of Wisconsin - Madison 8930
 FECUNDITY OF QUAIL IN SPACELAB MICROGRAVITY
Period Obligations
 09/14/1995-04/30/1996 FY95: \$57,460 TOTAL: \$57,460
Prin. Invest. NASA Tech. Officer CASE Category
 B C WENTWORTH ARC/C M WINGET 51-Biological Sci
 ARC/G C JAHNS

NAG 3-1087 University of Wisconsin - Madison 8931
 3-D MOD OF DIESEL SPRAY COMB AND EMISSIONS
Period Obligations
 10/27/1989-10/16/1995 FY95: \$235,000 TOTAL: \$1,188,010
Prin. Invest. NASA Tech. Officer CASE Category
 R D REITZ LERC/H L NQUYEN 22-Computer Science
 LERC/W T WINTUCKY

NAG 3-1393 University of Wisconsin - Madison 8932
 THERMOCAPILLARY CONVECTION IN FLOATING ZONES UNDER
 SIMULATED REDUCED-GRAVITY CONDITIONS
Period Obligations
 12/17/1992-11/30/1995 FY95: \$97,710 TOTAL: \$297,000
Prin. Invest. NASA Tech. Officer CASE Category
 S KOU LERC/J A SALZMAN 13-Physics
 LERC/R L THOMPSON

NAG 3-1447 University of Wisconsin - Madison 8933
 FEASIBILITY STUDY OF BATTERY STARTING OF A 3 PHASE 400
 HZ INDUCTION GEN VIA A 20 KHZ HF RES AC LINK
Period Obligations
 03/09/1993-10/31/1994 FY95: TOTAL: \$75,540
Prin. Invest. NASA Tech. Officer CASE Category
 T A LIPO LERC/L M TAYLOR 45-Elec Engr
 LERC/D D RENZ

NAG 5-81 University of Wisconsin - Madison 8934
 RESOLUTION STUDIES AND ENERGY DIAGNOSTICS OF GLOBAL
 DATA DN CLIMATE MODEL SIMULATION
Period Obligations
 06/15/1980-02/29/1996 FY95: \$120,000 TOTAL: \$1,819,380
Prin. Invest. NASA Tech. Officer CASE Category
 D R JOHNSON GSFC/R M ATLAS 31-Atmos Sci

NAG 5-594 University of Wisconsin - Madison 8935
 INVESTIGATION OF SINGLE PHOTON CALORIMETERS FOR X-RAY
 SPECTROSCOPY
Period Obligations
 08/01/1985-09/30/1994 FY95: TOTAL: \$869,000
Prin. Invest. NASA Tech. Officer CASE Category
 D MCCAMMON GSFC/R KELLEY 13-Physics
 H GUCKEL
 M JUDA

NAG 5-647 University of Wisconsin - Madison 8936
 DEVELOPMENT AND FLIGHT OF WIDE FIELD IMAGING SURVEY
 POLARMETER
Period Obligations
 03/01/1988-12/31/1995 FY95: \$385,000 TOTAL: \$2,144,090
Prin. Invest. NASA Tech. Officer CASE Category
 K H NORDSIECK GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-674 University of Wisconsin - Madison 8937
 SPARTIAL HETERODYNE SPECTROMETER FOR INVESTIGATION OF
 INTERSTELLAR FAR ULTRAVIOLET EMISSION LINES
Period Obligations
 11/30/1990-01/31/1996 FY95: \$310,000 TOTAL: \$1,054,999
Prin. Invest. NASA Tech. Officer CASE Category
 R J REYNOLDS GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-679 University of Wisconsin - Madison 8938
 COSMIC X-RAY PHYSICS
Period Obligations
 03/25/1991-04/30/1996 FY95: \$360,000 TOTAL: \$1,728,871
Prin. Invest. NASA Tech. Officer CASE Category
 D MCCAMMON GSFC/L J EARLY 13-Physics
 GSFC/R H PLESS

NAG 5-832 University of Wisconsin - Madison 8939
 A STUDY OF THE LANDOMENTAL CHARACTERISTICS OF
 INTERSTELLA MATTER
Period Obligations
 08/15/1986-01/31/1995 FY95: TOTAL: \$119,496
Prin. Invest. NASA Tech. Officer CASE Category
 J A CARDELLI GSFC/Y KONDO 11-Astronomy
 E W BRUGEL

NAG 5-1330 University of Wisconsin - Madison 8940
 SATELLITE AND ASSEMBILATED DATA ANALYSIS OF CLIMATE
Period Obligations
 02/05/1990-10/31/1995 FY95: \$105,000 TOTAL: \$618,140
Prin. Invest. NASA Tech. Officer CASE Category
 D R JOHNSON GSFC/A ARKING 39-Env Sci, NEC

NAG 5-1416 University of Wisconsin - Madison 8941
 MODELING ENERGY AND MASS FLUXES PRAIRIE CANOPIES
Period Obligations
 08/14/1990-08/31/1996 FY95: \$15,000 TOTAL: \$232,350
Prin. Invest. NASA Tech. Officer CASE Category
 J M NORMAN GSFC/F G HALL 31-Atmos Sci

NAG 5-1463 University of Wisconsin - Madison 8942
 DUST IN THE SMALL MAGELLANIC CLOUD
Period Obligations
 09/12/1990-01/14/1996 FY95: TOTAL: \$21,797
Prin. Invest. NASA Tech. Officer CASE Category
 K H NORDSIECK GSFC/D WEST 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
WISCONSIN (Continued)**

NAG 5-1586 University of Wisconsin - Madison 8943
 A FACILITY TEAM MEMBER FOR A TROPICAL RAINFALL AND ENERGY ANALYSIS EXPERIMENT
Period *Obligations*
 05/13/1991-05/31/1996 FY95: \$95,000 TOTAL: \$416,500
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 V E SUOMI GSFC/R ADLER 31-Atmos Sci

NAG 5-1613 University of Wisconsin - Madison 8944
 GTO - HIGH SPEED PHOTOMETER
Period *Obligations*
 05/23/1991-10/31/1995 FY95: \$973,000 TOTAL: \$5,215,670
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R C BLESS GSFC/S SOBIESKI 11-Astronomy

NAG 5-1683 University of Wisconsin - Madison 8945
 A SEARCH FOR X-RAY EMISSIONS FROM B SUPERGIANTS
Period *Obligations*
 07/15/1991-01/14/1994 FY95: TOTAL: \$57,477
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J P CASSINELLI GSFC/R PETRE 11-Astronomy

NAG 5-1806 University of Wisconsin - Madison 8946
 THE DENSITY AND KINEMATICAL STRUCTURE OF THE GALACTIC HALO
Period *Obligations*
 11/01/1991-10/31/1993 FY95: TOTAL: \$19,796
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B SAVAGE GSFC/D WEST 11-Astronomy

NAG 5-1841 University of Wisconsin - Madison 8947
 X-RAY EMISSION FROM O-STARS
Period *Obligations*
 12/02/1991-12/14/1996 FY95: \$10,078 TOTAL: \$56,912
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J P CASSINELLI GSFC/R PETRE 11-Astronomy

NAG 5-1852 University of Wisconsin - Madison 8948
 GODDARD HIGH RESOLUTION SPECTROGRAPH
Period *Obligations*
 12/17/1991-10/31/1995 FY95: \$167,000 TOTAL: \$721,190
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 B D SAVAGE GSFC/A SMITH 11-Astronomy

NAG 5-1893 University of Wisconsin - Madison 8949
 MONITORING THE RECOVERY OF PSR 0540-69 AFTER ITS GLITCH
Period *Obligations*
 02/10/1992-02/14/1997 FY95: \$24,200 TOTAL: \$78,310
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H B OGELMAN GSFC/R PETRE 11-Astronomy

NAG 5-1894 University of Wisconsin - Madison 8950
 SOFT X-RAY SHADOWS OF CLOUDS NEAR THE URSA MAJOR NEUTRAL HYDROGEN
Period *Obligations*
 02/10/1992-02/14/1996 FY95: TOTAL: \$69,921
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W T SANDERS GSFC/R PETRE 11-Astronomy

NAG 5-2034 University of Wisconsin - Madison 8951
 THEORIES OF NON-CATASTROPHIC GAMMA-RAY BURSTS AND TRANSIENTS
Period *Obligations*
 07/17/1992-07/31/1994 FY95: TOTAL: \$39,906
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W KLUZNIAK GSFC/J P NORRIS 11-Astronomy
 GSFC/N WHITE

NAG 5-2066 University of Wisconsin - Madison 8952
 EXPLORING THE HOT GALACTIC HALO USING SHADOWS OF HIGH LATITUDE CLOUDS
Period *Obligations*
 08/05/1992-08/14/1995 FY95: TOTAL: \$20,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M JUDA GSFC/R PETRE 11-Astronomy

NAG 5-2169 University of Wisconsin - Madison 8953
 A STUDY OF UV INTERSTELLAR EXTINCTION ALONG SIGHT LINES SAMPLES BY WUPPE
Period *Obligations*
 12/31/1992-12/31/1995 FY95: TOTAL: \$6,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C M ANDERSON GSFC/D WEST 11-Astronomy

NAG 5-2282 University of Wisconsin - Madison 8954
 EUV SPECTRAL LINE EMISSION FROM EARLY B STARS AND STUDY OF EUV LINE EMISSION FROM BE STARS
Period *Obligations*
 05/26/1993-06/14/1996 FY95: \$45,000 TOTAL: \$174,043
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J P CASSINELLI GSFC/D WEST 11-Astronomy

NAG 5-2534 University of Wisconsin - Madison 8955
 DYNAMICS OF CLUSTERS OF GALAXIES
Period *Obligations*
 02/21/1994-08/14/1995 FY95: TOTAL: \$4,929
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J G HOESSEL GSFC/R PETRE 11-Astronomy

NAG 5-2557 University of Wisconsin - Madison 8956
 HARD TAILS OF COOLING NEUTRON STARS
Period *Obligations*
 03/14/1994-04/30/1996 FY95: \$20,000 TOTAL: \$45,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 H B OGELMAN GSFC/N WHITE 11-Astronomy

NAG 5-2601 University of Wisconsin - Madison 8957
 MEASUREMENT AND SCALING OF CARBON BUDGETS FOR CONTAMINATING BOREAL FOREST SITES
Period *Obligations*
 07/19/1994-05/31/1996 FY95: \$181,962 TOTAL: \$497,423
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S T GOWER GSFC/F G HALL 39-Env Sci, NEC
 GSFC/P J SELLERS

NAG 5-2602 University of Wisconsin - Madison 8958
 AG DRACONIS, THE BRIGHTEST, VERY SOFT X-RAY SOURCE SYMBIOTIC STAR
Period *Obligations*
 05/26/1994-05/31/1996 FY95: TOTAL: \$26,766
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C M ANDERSON GSFC/R J OLIVERSEN 11-Astronomy

**NASA'S UNIVERSITY PROGRAM
WISCONSIN (Continued)**

NAG 5-2650 University of Wisconsin - Madison 8959
 THE ENCOUNTER OF P.SHOEMAKER - LEVY 9 WITH THE JOVIAN PLASMA TORUS AND EXTENDED SODIUM CLOUD
Period Obligations
 07/05/1994-07/14/1995 FY95: TOTAL: \$6,510
Prin. Invest. NASA Tech. Officer CASE Category
 F SCHERB GSFC/R J OLIVERSEN 11-Astronomy

NAG 5-2854 University of Wisconsin - Madison 8967
 MULTI-WAVELENGTH DIAGNOSTICS OF ROTATION AND NON-SPHERICAL WINDS IN THE WOLF-RAYET STAR
Period Obligations
 12/22/1994-01/14/1997 FY95: \$151,999 TOTAL: \$151,999
Prin. Invest. NASA Tech. Officer CASE Category
 J P CASSINELLI GSFC/D WEST 11-Astronomy

NAG 5-2691 University of Wisconsin - Madison 8960
 ORIGIN OF THE GALACTIC DISK 6.7 KEV LINE EMISSION
Period Obligations
 08/16/1994-02/29/1996 FY95: TOTAL: \$18,000
Prin. Invest. NASA Tech. Officer CASE Category
 E CHURCHWELL GSFC/N WHITE 11-Astronomy

NAG 5-2877 University of Wisconsin - Madison 8968
 SATELLITE DATA DRIVEN REAL - TIME AGRICULTURAL MANAGEMENT DECISION AIDS
Period Obligations
 01/19/1995-01/31/1996 FY95: \$299,000 TOTAL: \$299,000
Prin. Invest. NASA Tech. Officer CASE Category
 G DIAK GSFC/F HASLER 39-Env Sci, NEC

NAG 5-2694 University of Wisconsin - Madison 8961
 COMPRESSION AND PROGRESSIVE TRANSMISSION OF DIGITAL IMAGES
Period Obligations
 08/24/1994-11/30/1995 FY95: \$142,837 TOTAL: \$182,837
Prin. Invest. NASA Tech. Officer CASE Category
 J W PERCIVAL GSFC/N LAL 39-Env Sci, NEC

NAG 5-2906 University of Wisconsin - Madison 8969
 INTERCOMPARISON VISUALIZATION, AND ANALYSIS TESTBED SYSTEM FOR EOS GLOBAL ASSIMILATED DATA
Period Obligations
 03/10/1995-03/14/1996 FY95: \$105,000 TOTAL: \$105,000
Prin. Invest. NASA Tech. Officer CASE Category
 W HIBBARD GSFC/A F HALSER 31-Atmos Sci
 GSFC/A J NEGRI

NAG 5-2705 University of Wisconsin - Madison 8962
 ANOMALOUS X-RAY EMISSION FROM TAU SCO TYPE B STARS
Period Obligations
 08/24/1994-02/29/1996 FY95: \$10,472 TOTAL: \$28,472
Prin. Invest. NASA Tech. Officer CASE Category
 J CASSINELLI GSFC/N WHITE 11-Astronomy

NAG 5-2915 University of Wisconsin - Madison 8970
 PRE-MAIN SEQUENCE STARS FAR FROM STAR-FORMING REGIONS
Period Obligations
 03/17/1995-03/31/1996 FY95: \$16,083 TOTAL: \$16,083
Prin. Invest. NASA Tech. Officer CASE Category
 R MATHIEU GSFC/R PETRE 12-Chemistry

NAG 5-2720 University of Wisconsin - Madison 8963
 CONTINUING INVESTIGATION OF SINGLE-PHOTON CALORIMETERS FOR X-RAY SPECTROSCOPY
Period Obligations
 09/08/1994-09/30/1996 FY95: TOTAL: \$120,000
Prin. Invest. NASA Tech. Officer CASE Category
 D MCCAMMON GSFC/R L KELLEY 11-Astronomy

NAG 5-3021 University of Wisconsin - Madison 8971
 A SEARCH FOR NEW GEMINGAS IN THE ROSAT ARCHIVE
Period Obligations
 07/21/1995-07/31/1996 FY95: \$42,491 TOTAL: \$42,491
Prin. Invest. NASA Tech. Officer CASE Category
 H OGELMAN GSFC/D WEST 11-Astronomy

NAG 5-2722 University of Wisconsin - Madison 8964
 CLIMATOLOGICAL AND MODELING STUDIES FOR SASS
Period Obligations
 09/25/1994-10/31/1995 FY95: \$41,218 TOTAL: \$41,218
Prin. Invest. NASA Tech. Officer CASE Category
 M H HITCHMAN GSFC/R W STEWART 11-Astronomy

NAG 5-3051 University of Wisconsin - Madison 8972
 SOFT X-RAY DETECTOR STUDIES FOR THE BURST ARC SECOND IMAGING AND SPECTROSCOPY MISSION CONCEPT ..
Period Obligations
 08/14/1995-08/14/1996 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
 W SANDERS GSFC/N GEHRELS 11-Astronomy

NAG 5-2806 University of Wisconsin - Madison 8965
 CLIMATOLOGICAL AND DYNAMICAL STUDIES OF THE MIDDLE ATMOSPHERE
Period Obligations
 12/01/1994-12/14/1995 FY95: \$76,234 TOTAL: \$76,234
Prin. Invest. NASA Tech. Officer CASE Category
 M H HITCHMAN GSFC/C H JACKMAN 31-Atmos Sci

NAG 5-3080 University of Wisconsin - Madison 8973
 DIFFUSE X-RAY SPECTROMETER (DXS) INVESTIGATION
Period Obligations
 09/25/1995-09/30/1996 FY95: \$115,000 TOTAL: \$115,000
Prin. Invest. NASA Tech. Officer CASE Category
 W T SANDERS GSFC/D WEST 11-Astronomy

NAG 5-2846 University of Wisconsin - Madison 8966
 STATISTICAL ANALYSIS OF ATMOSPHERIC TEMPERATURE AND OZONE DATA TREND FEATURES AND COMPARISONS
Period Obligations
 12/15/1994-01/14/1996 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
 G C REINSEL GSFC/R D MCPETERS 31-Atmos Sci

NAG 8-828 University of Wisconsin - Madison 8974
 INTERACTIVE ACCESS AND MGMT FOR FOUR-DIMENSIONAL ENVIRONMENTAL DATA SETS USING MCIDAS
Period Obligations
 05/23/1990-09/30/1994 FY95: TOTAL: \$549,963
Prin. Invest. NASA Tech. Officer CASE Category
 W L HIBBARD MSFC/P J MEYER 31-Atmos Sci
 G J TRIPOLI

**NASA'S UNIVERSITY PROGRAM
WISCONSIN (Continued)**

NAG 8-927 University of Wisconsin - Madison 8975
ATMOSPHERIC SOUDING
Period *Obligations*
07/28/1992-07/31/1995 FY95: \$65,000 TOTAL: \$195,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G R DIAK MSFC/F R ROBERTSON 31-Atmos Sci

NAGW 2210 University of Wisconsin - Madison 8983
EFFECTS AND DIAGNOSTICS OF SHOCKS IN HOT STAR WIND S
Period *Obligations*
07/27/1990-12/31/1995 FY95: \$37,715 TOTAL: \$515,964
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J J MACFARLANE HQ/G R RIEGLER 11-Astronomy

NAG 8-1023 University of Wisconsin - Madison 8976
MECHANICAL PROPERTIES OF METAL NITRIDE FILMS AT AMBIENT,
ELEVATED AND CRYOGENIC TEMPERATURES
Period *Obligations*
03/23/1994-09/30/1995 FY95: TOTAL: \$68,979
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D S STONE MSFC/L E MOORE 47-Materials Engr
K B YODER MSFC/R L THOM

NAGW 2411 University of Wisconsin - Madison 8984
INVESTIGATION OF MOTIONS, MORPHOLOGY, STRUCTURE, A ND
EVOLUTION OF NEPTUNE'S CLOUDS
Period *Obligations*
08/02/1991-12/31/1993 FY95: TOTAL: \$342,618
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L A SROMOVSKY HQ/W L QUAIDE 19-Phys Sci, NEC

NAG 8-1068 University of Wisconsin - Madison 8977
CONTAINERLESS PROCESSING OF COMPOSITE MATERIALS
Period *Obligations*
07/14/1994-08/23/1996 FY95: \$49,990 TOTAL: \$99,608
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J PEREPEZKO MSFC/M B ROBINSON 19-Phys Sci, NEC
MSFC/B SCHRICK

NAGW 2420 University of Wisconsin - Madison 8985
DISK INSTABILITIES, BARS AND ACCRETION: FEEDING TH E
MONSTER
Period *Obligations*
04/19/1991-12/31/1995 FY95: \$11,160 TOTAL: \$236,359
Prin. Invest. *NASA Tech. Officer* *CASE Category*
L S SPARKE HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 422 University of Wisconsin - Madison 8978
STUDIES OF ULTRAVIOLET INTRINSIC POTARIZATION OF STARS
Period *Obligations*
03/01/1983-02/28/1995 FY95: TOTAL: \$362,891
Prin. Invest. *NASA Tech. Officer* *CASE Category*
V CASSINELLA HQ/G C CLAYTON 11-Astronomy
HQ/E J WEILER

NAGW 2520 University of Wisconsin - Madison 8986
THE PROPERTIES OF INT STELLAR DUST AND APPLICATION S TO
ASTROPHYSICAL PROBLEMS
Period *Obligations*
07/17/1991-05/31/1994 FY95: TOTAL: \$272,377
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J A CARDELLI HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 975 University of Wisconsin - Madison 8979
COMMERCIAL DEVELOPMENT OF SPACE
Period *Obligations*
09/01/1986-10/31/1995 FY95: \$1,020,000 TOTAL: \$10,774,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J G BOLLINGER HQ/V CEVENINI 51-Biological Sci
N DUFFIE HQ/A VILLAMIL

NAGW 2532 University of Wisconsin - Madison 8987
NAGW-2532/UNIV WISCONSIN/NUMERICAL SIMULATIONS OF
EXPLOSIVE EVENTS AND HOT GAS IN INTERSTELLAR MEDIA
Period *Obligations*
05/23/1991-03/31/1995 FY95: \$16,667 TOTAL: \$339,161
Prin. Invest. *NASA Tech. Officer* *CASE Category*
D P COX HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 1768 University of Wisconsin - Madison 8980
THEORETICAL STUDIES OF INTERSTELLAR DUST
Period *Obligations*
05/26/1989-05/31/1994 FY95: TOTAL: \$145,333
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J S MATHIS HQ/G C CLAYTON 11-Astronomy

NAGW 2536 University of Wisconsin - Madison 8988
THERMAL INFRARED REMOTE SENSING AND BIOSPHERIC PRO
CESSES
Period *Obligations*
07/10/1991-03/31/1994 FY95: TOTAL: \$188,823
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M NORMAN HQ/G ASRAR 39-Env Sci, NEC
HQ/D E WICKLAND

NAGW 1773 University of Wisconsin - Madison 8981
SEARCH FOR ICE SHEET ELEVATION CHANGES IN EAST
ANTARCTICA
Period *Obligations*
07/19/1989-07/31/1996 FY95: \$81,619 TOTAL: \$436,034
Prin. Invest. *NASA Tech. Officer* *CASE Category*
C R BENTLEY HQ/R H THOMAS 33-Oceanography
HQ/W S WILSON

NAGW 2643 University of Wisconsin - Madison 8989
EXPERIMENTAL INVESTIGATION OF COOLING AND REHEATIN G
OF NEUTRON STARS
Period *Obligations*
08/22/1991-04/30/1995 FY95: TOTAL: \$392,100
Prin. Invest. *NASA Tech. Officer* *CASE Category*
H B OGELMAN HQ/G S KUTTER 11-Astronomy
HQ/G R RIEGLER

NAGW 2099 University of Wisconsin - Madison 8982
STATISTICAL ANALYSIS OF STRATOSPHERIC TEMPERATURE AND
OZONE PROFILE DATA FOR TRENDS AND MODEL COMP.
Period *Obligations*
05/07/1990-11/15/1993 FY95: TOTAL: \$147,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G C REINSEL HQ/R D MCPETERS 31-Atmos Sci
HQ/M J PRATHER

**NASA'S UNIVERSITY PROGRAM
WISCONSIN (Continued)**

NAGW 2835 University of Wisconsin - Madison 8990
 NAGW-2835/UNIV WISCONSIN/GLASS FORMATION AND NUCLEATION IN MICROGRAVITY CONTAINERLESS-PROCESSED INVIS

<i>Period</i>	<i>Obligations</i>	
01/15/1992-01/31/1996	FY95: \$71,000	TOTAL: \$356,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
R F COOPER	HQ/B M CARPENTER	13-Physics
J H PEREPEZKO		

NAGW 3004 University of Wisconsin - Madison 8997
 GROWTH OF ORGANIC SINGLE CRYSTALS BY TWO MODIFIED FLOATING-ZONE PROCESSES

<i>Period</i>	<i>Obligations</i>	
03/11/1992-02/28/1997	FY95:	TOTAL: \$45,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
S KOU	HQ/B M CARPENTER	49-Engr, NEC

NAGW 2841 University of Wisconsin - Madison 8991
 CONTAINERLESS PROCESSING FOR CONTROLLED SOLIDIFICATION MICROSTRUCTURES

<i>Period</i>	<i>Obligations</i>	
01/31/1992-01/31/1996	FY95: \$79,000	TOTAL: \$394,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J H PEREPEZKO	HQ/B M CARPENTER	13-Physics

NAGW 3286 University of Wisconsin - Madison 8998
 NAGW-3286/UNIV WISCONSIN/PROTOTYPING THE BENCHMARK GOES PATHFINDER DATA SET PROCESSING

<i>Period</i>	<i>Obligations</i>	
11/27/1992-06/30/1996	FY95: \$320,000	TOTAL: \$1,861,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F P BRETHERTON	HQ/M E MAIDEN	31-Atmos Sci
	HQ/D M BUTLER	

NAGW 2908 University of Wisconsin - Madison 8992
 THE MEASUREMENT OF VACUUM ULTRAVIOLET ATOMIC TRANSMISSION PROBABILITIES OF ASTROPHYSICAL INTEREST

<i>Period</i>	<i>Obligations</i>	
02/20/1992-12/31/1997	FY95: \$88,500	TOTAL: \$352,500
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
J E LAWLER	HQ/R STACHNIK	11-Astronomy
	HQ/E J WEILER	

NAGW 3318 University of Wisconsin - Madison 8999
 ASSESSING THE GEOMORPHIC EVOLUTION AND HYDROGRAPHIC CHANGES INDUCED BY WINTER STORMS ALONG THE

<i>Period</i>	<i>Obligations</i>	
02/02/1993-05/31/1996	FY95: \$141,008	TOTAL: \$423,302
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W P MENZEL	HQ/M BALTUCK	32-Geological Sci
O K HUH		

NAGW 2921 University of Wisconsin - Madison 8993
 THEORETICAL MODELS AND ANALYSIS TOOLS FOR EUV, ULTRAVIOLET, AND OPTICAL OBSERVATIONS

<i>Period</i>	<i>Obligations</i>	
02/26/1992-12/31/1993	FY95:	TOTAL: \$115,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
K BJORKMAN	HQ/R STACHNIK	11-Astronomy
	HQ/E J WEILER	

NAGW 3319 University of Wisconsin - Madison 9000
 HIGH SPECTRAL RESOLUTION OBSERVATIONS OF IO AND COMETS

<i>Period</i>	<i>Obligations</i>	
01/04/1993-10/31/1996	FY95: \$59,000	TOTAL: \$174,640
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
F SCHERH	HQ/H C BRINTON	11-Astronomy

NAGW 2943 University of Wisconsin - Madison 8994
 DYNAMICAL AND CHEMICAL STUDIES OF THE MIDDLE ATMOSPHERE USING SATELLITE DATA

<i>Period</i>	<i>Obligations</i>	
02/28/1992-12/31/1994	FY95:	TOTAL: \$310,134
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
M H HITOHMAN	HQ/J A KAYE	31-Atmos Sci
	HQ/R E MURPHY	

NAGW 3641 University of Wisconsin - Madison 9001
 MECHANISMS OF MONSOON RAINFALL IN THE INDO-PACIFIC REGION

<i>Period</i>	<i>Obligations</i>	
06/04/1993-05/31/1995	FY95: \$76,101	TOTAL: \$185,623
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
D MARTIN	HQ/J C DODGE	31-Atmos Sci

NAGW 2961 University of Wisconsin - Madison 8995
 SOME NEW MATHEMATICAL METHODS OF VARIATIONAL OBJECTIVE ANALYSIS

<i>Period</i>	<i>Obligations</i>	
10/09/1992-12/31/1995	FY95: \$90,000	TOTAL: \$335,000
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
G WAHBA	HQ/K H BERGNAN	31-Atmos Sci
	HQ/R A SCHIFFER	

NAGW 3660 University of Wisconsin - Madison 9002
 A STUDY OF ANTIREFLECTIVE COATINGS TO ENHANCE THE UV RESPONSE OF CCDS

<i>Period</i>	<i>Obligations</i>	
06/11/1993-12/31/1993	FY95:	TOTAL: \$19,860
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
C L JOSEPH	HQ/R V STACHNIK	11-Astronomy
	HQ/E J WEILER	

NAGW 2973 University of Wisconsin - Madison 8996
 MULTI-SATELLITE ESTIMATES OF LAND-SURFACE PROPERTIES FOR DETERMINATION OF ENERGY AND WATER BUDGETS

<i>Period</i>	<i>Obligations</i>	
03/06/1992-12/31/1994	FY95:	TOTAL: \$345,684
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W P MENZEL	HQ/J C DODGE	39-Env Sci, NEC
	HQ/R A SCHIFFER	

NAGW 3732 University of Wisconsin - Madison 9003
 DEVELOPMENT OF TEACHING CURRICULA TO MODERNIZE INSTRUCTION IN THE SCIENCES

<i>Period</i>	<i>Obligations</i>	
09/03/1993-07/31/1995	FY95:	TOTAL: \$34,775
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
W L SMITH	HQ/D M BUTLER	39-Env Sci, NEC

NAGW 3804 University of Wisconsin - Madison 9004
 INVESTIGATION OF BIOMASS BURNING AND AEROSOL LOADING AND TRANSPORT

<i>Period</i>	<i>Obligations</i>	
10/29/1993-08/31/1996	FY95: \$86,808	TOTAL: \$239,925
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
P MENZEL	HQ/J C DODGE	39-Env Sci, NEC
	HQ/A C JANETOS	

**NASA'S UNIVERSITY PROGRAM
WISCONSIN (Continued)**

NAGW 3833 University of Wisconsin - Madison 9005
 NAGW-3833 B UNIV. WISCON. MADISON ; INTERPRET. OF UV
 OBSERV. INTERSTELLER MEDIUM
Period *Obligations*
 12/14/1993-12/31/1995 FY95: \$43,000 TOTAL: \$85,999
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 J S MATHIS HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 3935 University of Wisconsin - Madison 9012
 RADIATIVE ENERGY BUDGET STUDIES USING OBSERVATIONS
 FROM EARTH
Period *Obligations*
 04/08/1994-12/31/1996 FY95: \$100,000 TOTAL: \$249,321
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S A ACKERMAN HQ/J C DODGE 31-Atmos Sci
 HQ/R A SCHIFFER

NAGW 3877 University of Wisconsin - Madison 9006
 NAGW-3877/B UNIV. WISC MADISON 'ACCRET. DISKS AND PL ANET.
 SYSTE. IN NEWLY FORMED, MASSIVE STARS.'
Period *Obligations*
 02/28/1994-12/31/1995 FY95: \$79,553 TOTAL: \$153,471
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E CHURCHWELL HQ/J H RAHE 11-Astronomy

NAGW 3987 University of Wisconsin - Madison 9013
 EFFETCS OF HINDLIMB SUSPENSION ON SKELETAL MUSCLE
 GROWTH
Period *Obligations*
 05/04/1994-03/31/1997 FY95: \$79,753 TOTAL: \$155,753
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 E SCHULTZ HQ/T W HALSTEAD 51-Biological Sci

NAGW 3889 University of Wisconsin - Madison 9007
 ER-2 HIGH RESOLUTION INTERFEROMETER SOUNDER (HIS)
 MEASUREMENTS DURING ASHOM-1994'
Period *Obligations*
 03/11/1994-02/28/1996 FY95: \$39,284 TOTAL: \$157,352
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 W L SMITH HQ/M J KURYLO 31-Atmos Sci
 HQ/A C JANETOS

NAGW 4022 University of Wisconsin - Madison 9014
 SPACE EXPERIMENT OF TUBER DEVELOPMENT AND STARCH A
 CCUMULATION FOR CELESS'
Period *Obligations*
 06/23/1994-02/29/1996 FY95: \$67,496 TOTAL: \$143,483
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 T W TIBBITTS HQ/M M AVERNER 51-Biological Sci
 J G CROXDALE
 C S BROWN

NAGW 3895 University of Wisconsin - Madison 9008
 UNIV WISC.; PARADISE - A PARALLEL INFORMATION SYST EM FOR
 EOSDIS
Period *Obligations*
 03/31/1994-04/30/1996 FY95: \$151,000 TOTAL: \$224,797
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D J DEWITT HQ/G H MUCKLOW 22-Computer Science
 HQ/J H BREDEKAMP

NAGW 4053 University of Wisconsin - Madison 9015
 MOLECULAR GENETICS OF ROOT THIGMORESPONSIVENESS IN
 ARABIDOPSIS THALIANA
Period *Obligations*
 06/30/1994-03/30/1997 FY95: \$119,665 TOTAL: \$236,914
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 P MASSON HQ/T W HALSTEAD 51-Biological Sci

NAGW 3897 University of Wisconsin - Madison 9009
 NAGW-3897/B UNIV. OF WISCONSIN/MADISON 'ISENTROPIC
 ANALYSIS AND MODELING OF THE SOUTHERN..' 12-MO
Period *Obligations*
 03/18/1994-12/14/1995 FY95: \$60,000 TOTAL: \$155,430
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D R JOHNSON HQ/M J KURYLO 31-Atmos Sci
 HQ/J KAYE

NAGW 4100 University of Wisconsin - Madison 9016
 ADVANCED TECHNOLOGY REPLACEMENTS (AT-MCPS) FOR GLA SS
 MICROCHANNEL PLATES
Period *Obligations*
 09/21/1994-09/30/1995 FY95: \$90,000 TOTAL: \$104,003
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 C L JOSEPH HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAGW 3914 University of Wisconsin - Madison 9010
 INGESTING DATA USING WORKSTATION CLUSTERS
Period *Obligations*
 04/14/1994-04/30/1996 FY95: \$123,000 TOTAL: \$268,833
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 M LIVNY HQ/G H MUCKLOW 22-Computer Science
 HQ/J H BREDEKAMP

NAGW 4138 University of Wisconsin - Madison 9017
 EVAPOTRANSPIRATION AND SENSIBLE HEATING EVALUATED FROM
 SATELLITE AND IN-SITU DATA USING OPTIMAL
Period *Obligations*
 10/27/1994-06/30/1997 FY95: \$225,000 TOTAL: \$225,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 G R DIAK HQ/M Y WEI 39-Env Sci, NEC

NAGW 3921 University of Wisconsin - Madison 9011
 ANALYSIS AND VISUALIZATION OF SEQUENCE DATA
Period *Obligations*
 04/08/1994-12/31/1996 FY95: \$166,000 TOTAL: \$321,962
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 R RAMAKRISHNAN HQ/G H MUCKLOW 22-Computer Science
 HQ/J H BREDEKAMP

NAGW 4181 University of Wisconsin - Madison 9018
 PSYIOLOGICAL ECOLOGY FOR FOREST MANAGEMENT
Period *Obligations*
 10/21/1994-06/30/1995 FY95: \$35,278 TOTAL: \$35,278
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 S T GOWER HQ/D E WICKLAND 39-Env Sci, NEC
 J J LANDSBERG HQ/A C JANETOS

NAGW 4229 University of Wisconsin - Madison 9019
 PARADISE CLUSTERS: INEXPENSIVE SCALABLE SUPPORT FOR
 STANDARDIZED ACCESS TO EOSDID DATA SETS
Period *Obligations*
 01/13/1995-01/31/1996 FY95: \$504,086 TOTAL: \$504,086
Prin. Invest. *NASA Tech. Officer* *CASE Category*
 D DEWITT HQ/R S MGINNIS 22-Computer Science

**NASA'S UNIVERSITY PROGRAM
WISCONSIN (Continued)**

NAGW 4273 University of Wisconsin - Madison 9020
 THE TEST AND EVALUATION OF UV DETECTORS
Period Obligations
 02/20/1995-12/31/1997 FY95: \$42,000 TOTAL: \$42,000
Prin. Invest. NASA Tech. Officer CASE Category
 C L JOSEPH HQ/R V STACHNIK 11-Astronomy
 HQ/E J WEILER

NAS 5-30131 University of Wisconsin - Madison 9028
 SPACE TELESCOPE IMAGINE SPECTROGRAPH SUPPORT
Period Obligations
 09/22/1987-09/30/2001 FY95: \$160,000 TOTAL: \$432,954
Prin. Invest. NASA Tech. Officer CASE Category
 F ROESLER GSFC/H D VITAGLIANO 11-Astronomy

NAGW 4293 University of Wisconsin - Madison 9021
 ADVANCE DESIGN PROGRAM
Period Obligations
 02/08/1995-10/31/1995 FY95: \$26,340 TOTAL: \$26,340
Prin. Invest. NASA Tech. Officer CASE Category
 E G LOVELL HQ/A S MCGEE 49-Engr, NEC
 HQ/G JOHNSTON

NAS 5-30752 University of Wisconsin - Madison 9029
 INVESTIGATION OF THE LASER ATMOSPHERE WIND SOUNDER
Period Obligations
 01/29/1990-12/31/1994 FY95: TOTAL: \$225,000
Prin. Invest. NASA Tech. Officer CASE Category
 J ANDERSON GSFC/R ATLAS 31-Atmos Sci

NAGW 4527 University of Wisconsin - Madison 9022
 THE EFFECTS OF ROTATION ON STELLAR WINDS ASYMMETRIES
 AND BIPOLAR STRUCTURES
Period Obligations
 06/16/1995-04/30/1996 FY95: \$100,000 TOTAL: \$100,000
Prin. Invest. NASA Tech. Officer CASE Category
 J BJORKMAN HQ/G R RIEGLER 11-Astronomy

NAS 5-31367 University of Wisconsin - Madison 9030
 EOS STUDY
Period Obligations
 12/30/1991-12/14/2001 FY95: \$448,750 TOTAL: \$1,082,445
Prin. Invest. NASA Tech. Officer CASE Category
 P MENZEL GSFC/H OSEROFF 31-Atmos Sci

NAGW 4651 University of Wisconsin - Madison 9023
 DESIGN AND DEVELOPMENT OF INSTRUMENTATION FOR A MUTUAL
 OCCULTATION EXPERIMENT USING MARS ORBITERS
Period Obligations
 08/10/1995-07/31/1996 FY95: \$118,900 TOTAL: \$118,900
Prin. Invest. NASA Tech. Officer CASE Category
 J ANDERSON HQ/T KOSTIUK 11-Astronomy

NAS 5-31375 University of Wisconsin - Madison 9031
 EOS AIRS INVESTIGATION
Period Obligations
 01/13/1992-12/14/2001 FY95: \$214,000 TOTAL: \$623,915
Prin. Invest. NASA Tech. Officer CASE Category
 H REVERCOMB GSFC/E KREINS 31-Atmos Sci

NAG10-64 University of Wisconsin - Madison 9024
 MICROGRAVITY EFFECTS DURING FERTILIZATION CELL DIV
 DEVELOPMENT AND CALCIUM METABOLISM SEA URCHINS
Period Obligations
 08/01/1989-09/30/1995 FY95: \$74,895 TOTAL: \$702,327
Prin. Invest. NASA Tech. Officer CASE Category
 H SCHATTEN KSC/W KNOTT 54-Env Biology

NAS 5-31377 University of Wisconsin - Madison 9032
 EOS INVESTIGATION: ALGORITHM DEVELOPMENT WITH HIS/ AIRS
Period Obligations
 01/08/1992-12/14/2001 FY95: \$234,000 TOTAL: \$670,640
Prin. Invest. NASA Tech. Officer CASE Category
 W L SMITH GSFC/E KREINS 39-Env Sci, NEC

NAS 1-19958 University of Wisconsin - Madison 9025
 SAGE II SCIENTIFIC INVESTIGATIONS
Period Obligations
 05/14/1993-05/13/1996 FY95: \$44,000 TOTAL: \$104,000
Prin. Invest. NASA Tech. Officer CASE Category
 M H HITCHMAN LARC/G L MADDREA 31-Atmos Sci
 LARC/M P MC CORMICK

NAS 5-32366 University of Wisconsin - Madison 9033
 NASA ER-Z DMSP-UNDERFLY/WATER SUBSTANCE MEASUREMENT
 PROGRAM
Period Obligations
 12/09/1994-12/08/1995 FY95: \$49,022 TOTAL: \$49,022
Prin. Invest. NASA Tech. Officer CASE Category
 W L SMITH GSFC/O W THIELE 31-Atmos Sci
 H E REVERCOMB

NAS 5-26078 University of Wisconsin - Madison 9026
 DEF PHASE EFFORT OF SPACELAB DIFFUSE SOFT X-RAY BRAGG
 SPECTROMETER EXPERIMENT
Period Obligations
 03/10/1980-08/31/1995 FY95: TOTAL: \$10,801,412
Prin. Invest. NASA Tech. Officer CASE Category
 W T DUNKER GSFC/S C DUNKER 11-Astronomy

NAS 5-32646 University of Wisconsin - Madison 9034
 AN XRAY ANALYSIS DATABASE OF PHOTOIONIZATION CROSS
 SECTIONS INCLUDING VARIABLE IONIZATION
Period Obligations
 08/15/1994-09/15/1996 FY95: \$71,000 TOTAL: \$142,000
Prin. Invest. NASA Tech. Officer CASE Category
 P WANG GSFC/D WEST 11-Astronomy

NAS 5-26777 University of Wisconsin - Madison 9027
 DEVELOPMENT OF ULTRAVIOLET PHOTO-POLARIMETER
 EXPERIMENT
Period Obligations
 09/04/1981-05/31/1996 FY95: \$1,704,000 TOTAL: \$19,343,910
Prin. Invest. NASA Tech. Officer CASE Category
 A D COPE MSFC/J H OWENS 11-Astronomy
 K NORDSIECK

NAS 5-33015 University of Wisconsin - Madison 9035
 GLRS SCIENCE TEAM MEMBER STUDY
Period Obligations
 11/01/1989-12/31/1995 FY95: \$104,940 TOTAL: \$287,919
Prin. Invest. NASA Tech. Officer CASE Category
 C BENTLEY GSFC/G SOFFEN 39-Env Sci, NEC

**NASA'S UNIVERSITY PROGRAM
WISCONSIN (Continued)**

NAS 8-38499 University of Wisconsin - Madison 9036
STUDY OF GEOPLATFOM PROGRAM
Period Obligations
01/01/1990-09/30/1995 FY95: \$91,000 TOTAL: \$1,492,597
Prin. Invest. NASA Tech. Officer CASE Category
D L SMITH MSFC/H M GOODMAN 32-Geological Sci
L P BRETHERTON
W P MENZEL

NAS 8-38664 University of Wisconsin - Madison 9037
INVESTIGATION X-RAY BACKGROUND SURVEY SPECTROMETER
Period Obligations
08/13/1990-06/30/1994 FY95: TOTAL: \$99,787
Prin. Invest. NASA Tech. Officer CASE Category
W T SANDERS MSFC/R R JAYRO 11-Astronomy

NCC 2-542 University of Wisconsin - Madison 9038
PSYCHOPHYSICAL EVALUATION OF THREE-DIMENSIONAL
AUDITORY DISPLAYS
Period Obligations
05/01/1988-04/30/1996 FY95: \$149,992 TOTAL: \$1,033,854
Prin. Invest. NASA Tech. Officer CASE Category
F L WIGHTMAN ARC/E M WENZEL 69-Psych, NEC

NCC 2-619 University of Wisconsin - Madison 9039
PRELIMINARY PILOT DATA FOR SLS-1 EXPERIMENTAL PRO TOCOL
BIOCHEMICAL MORPHOLOGICAL AND BIOMECHANICAL
Period Obligations
07/19/1989-12/31/1994 FY95: TOTAL: \$229,425
Prin. Invest. NASA Tech. Officer CASE Category
A C VAILAS ARC/E M HOLTON 51-Biological Sci

NCC 2-780 University of Wisconsin - Madison 9040
CAD SYSTEM FOR LIQUID CRYSTAL DISPLAY
Period Obligations
02/16/1993-11/30/1994 FY95: TOTAL: \$183,500
Prin. Invest. NASA Tech. Officer CASE Category
B E SALEH ARC/J O LARIMER 45-Elec Engr

NCC 2-854 University of Wisconsin - Madison 9041
SCIENTIFIC AND TECHNICAL SUPPORT FOR THE GALILEO NET FLUX
RADIOMETER EXPERIMENT
Period Obligations
05/25/1994-11/30/1996 FY95: \$343,231 TOTAL: \$493,231
Prin. Invest. NASA Tech. Officer CASE Category
L R SROMOVSKY ARC/L E LASHER 31-Atmos Sci
ARC/R E YOUNG

NCC 8-52 University of Wisconsin - Madison 9042
QUANTITATIVE ANALYSIS OF CRYSTAL DEFECTS BY TRIPLE
CRYSTAL X-RAY DIFFRACTION
Period Obligations
07/01/1994-07/25/1996 FY95: \$50,489 TOTAL: \$99,647
Prin. Invest. NASA Tech. Officer CASE Category
R J MATYI MSFC/D C GILLIES 13-Physics
MSFC/S D COBB

NGT 00-030-113 University of Wisconsin - Madison 9043
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
11/02/1992-08/31/1995 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
R G WAGNER HQ/G ASRAR 39-Env Sci, NEC
HQ/D M BUTLER

NGT 00-030-271 University of Wisconsin - Madison 9044
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
10/10/1994-08/31/1997 FY95: \$44,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
S ACKERMAN HQ/R A SCHIFFER 99-Multi-Discip
HQ/G ASRAR

NGT 00-030-346 University of Wisconsin - Madison 9045
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/16/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
J E KUTZBACH HQ/M BALTUCK 33-Oceanography
HQ/G ASRAR

NGT 00-050-956 University of Wisconsin - Madison 9046
NASA GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/24/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
T TIBBITTS HQ/J ALEXANDER 55-Agriculture Sci

NGT 00-051-003 University of Wisconsin - Madison 9047
NGT-51003/UNIV WISCONSIN @ MADISON/GRADUATE STUDENT
RESEARCHERS PROGRAM
Period Obligations
08/11/1992-08/31/1996 FY95: TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
B D SAVAGE HQ/J K ALEXANDER 11-Astronomy

NGT 00-051-067 University of Wisconsin - Madison 9048
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
05/28/1993-06/30/1994 FY95: TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
R F COOPER HQ/D A HOLLAND 47-Materials Engr

NGT 00-051-132 University of Wisconsin - Madison 9049
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/28/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
E CHURCHWELL HQ/D HOLLAND 11-Astronomy

NGT 00-051-133 University of Wisconsin - Madison 9050
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/28/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
J PEREPEZKO HQ/D A HOLLAND 47-Materials Engr

NGT 00-051-177 University of Wisconsin - Madison 9051
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
08/18/1993-08/22/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
H YUTTEN JSC/S GOLDSTEIN 22-Computer Science

NGT 00-051-190 University of Wisconsin - Madison 9052
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/30/1993-08/31/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. NASA Tech. Officer CASE Category
J H PEREPEZKO HQ/D HOLLAND 47-Materials Engr

**NASA'S UNIVERSITY PROGRAM
WISCONSIN (Continued)**

NGT 00-051-208 University of Wisconsin - Madison 9053
GRAD STUDENT RESEARCHERS PROGRAM
Period Obligations
04/25/1994-06/30/1996 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
P K WANG GSFC/G SOFFEN 31-Atmos Sci

NAG 9-651 University of Wisconsin - Milwaukee 9061
NEUROENDOCRINE ORGANOID ASSEMBLY IN VITRO
Period Obligations
10/28/1992-05/01/1997 FY95: \$160,000 TOTAL: \$470,000
Prin. Invest. NASA Tech. Officer CASE Category
P I LELKES JSC/G SPAULDING 51-Biological Sci

NGT 00-051-263 University of Wisconsin - Madison 9054
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
06/14/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
J H BOOSKE HQ/G LESANE 47-Materials Engr

NAGW 3270 University of Wisconsin - Milwaukee 9062
NAGW-3270/UNIV WISCONSIN MILWAUKEE/EVOLUTIONARY R
RELATIONSHIPS OF S PUTREFACIENS METAL REDUCTASES
Period Obligations
12/04/1992-10/31/1996 FY95: \$202,873 TOTAL: \$572,540
Prin. Invest. NASA Tech. Officer CASE Category
K NEALSON HQ/J D RUMMEL 51-Biological Sci

NGT 00-051-364 University of Wisconsin - Madison 9055
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/08/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
D R SMITH HQ/G A LESANE 47-Materials Engr

NAGW 4344 University of Wisconsin - Milwaukee 9063
ADVANCED DESIGN PROGRAM
Period Obligations
03/21/1995-12/31/1995 FY95: \$17,350 TOTAL: \$17,350
Prin. Invest. NASA Tech. Officer CASE Category
G MOORE HQ/A S MCGEE 49-Engr, NEC
HQ/G JOHNSTON

NGT 00-051-368 University of Wisconsin - Madison 9056
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
09/13/1994-06/30/1995 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
B P MILLER HQ/P H SMITH 22-Computer Science

NCC 2-5153 University of Wisconsin - Milwaukee 9064
CAPILLARY MOVEMENT IN SUBSTRATES IN MICROGRAVITY
Period Obligations
08/21/1995-12/31/1995 FY95: \$15,000 TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
N A DUFFIE ARC/M KLISS 59-Life Sci, NEC
R J BULA

NGT 00-070-377 University of Wisconsin - Madison 9057
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period Obligations
08/22/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
J W SHAVIK HQ/D K RUSSELL 22-Computer Science

NGT 00-040-035 University of Wisconsin - Milwaukee 9065
NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
04/30/1991-02/28/1998 FY95: \$209,000 TOTAL: \$976,000
Prin. Invest. NASA Tech. Officer CASE Category
G T MOORE HQ/E T SCHWARTZ 99-Multi-Discip

NAG 3-1274 University of Wisconsin - Milwaukee 9058
CHEMICAL VAPOR DEPOSITION OF HIGH TC SUPERCONDUCT ING
FILMS IN A MICROGRAVITY ENVIRONMENT
Period Obligations
05/09/1991-06/14/1994 FY95: \$199,117 TOTAL: \$199,117
Prin. Invest. NASA Tech. Officer CASE Category
M LEVY LERC/T K GLASGOW 13-Physics
B K SARMA
W S MILLMAN

NGT 00-051-265 University of Wisconsin - Milwaukee 9066
GRADUATE STUDENT RESEARCHERS PROGRAM
Period Obligations
07/08/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. NASA Tech. Officer CASE Category
P I LELKES HQ/D HOLLAND 51-Biological Sci

NAG 3-1381 University of Wisconsin - Milwaukee 9059
REWETTING OF MONOGROOVE HEAT PIPE IN SPACE STATION
RADIATORS
Period Obligations
12/23/1992-12/14/1995 FY95: \$89,730 TOTAL: \$266,133
Prin. Invest. NASA Tech. Officer CASE Category
S H CHAN LERC/J A PLATT 46-Mech Engr

NAG 8-1210 University of Wisconsin @ Whitewater 9067
JOVE
Period Obligations
09/05/1995-08/31/1998 FY95: \$23,000 TOTAL: \$23,000
Prin. Invest. NASA Tech. Officer CASE Category
D PHANORD MSFC/D SIX 31-Atmos Sci

NAG 8-1205 University of Wisconsin - Milwaukee 9060
JOVE
Period Obligations
09/25/1995-08/31/1998 FY95: \$35,000 TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
T DEFELICE MSFC/D SIX 31-Atmos Sci
P ROEBBER

WYOMING

NAG 1-1294 University of Wyoming 9068
MECHANICAL PROPERTIES EVALUATIONS OF NEW THERMOPLA
STIC AND THERMOSET POLYMER MATRICES AND COMPOSITE
Period Obligations
07/11/1991-12/31/1995 FY95: \$50,981 TOTAL: \$162,929
Prin. Invest. NASA Tech. Officer CASE Category
D F ADAMS LARC/N J JOHNSTON 47-Materials Engr
LARC/P M HERGENROTHER

**NASA'S UNIVERSITY PROGRAM
WYOMING (Continued)**

NAG 1-1623 University of Wyoming 9069
AN INVESTIGATION OF AEROSOL MEASUREMENTS FROM THE HALOGEN OCCULTATION EXPERIMENT: VALIDATION, SIZE
Period Obligations
04/26/1994-02/28/1996 FY95: \$59,097 TOTAL: \$96,597
Prin. Invest. NASA Tech. Officer CASE Category
T DESHLER LARC/J G WELLS JR. 31-Atmos Sci
LARC/J M RUSSELL III

NAG 2-877 University of Wyoming 9070
COMPILING DOMAIN SPECIFIC PROGRAM SYNTHESIS SYSTEM S
Period Obligations
01/10/1994-04/30/1996 FY95: \$90,000 TOTAL: \$157,343
Prin. Invest. NASA Tech. Officer CASE Category
J V BALLEEN ARC/S LAU 22-Computer Science

NAG 2-982 University of Wyoming 9071
SERVICE ON THE SOFIA SCIENCE WORKING GROUP 1994/95
Period Obligations
05/19/1995-09/30/1995 FY95: \$32,752 TOTAL: \$32,752
Prin. Invest. NASA Tech. Officer CASE Category
H A THRONSON ARC/E F ERICKSON 11-Astronomy

NAG 5-2240 University of Wyoming 9072
AIRBORNE INVESTIGATION OF BIOSPHERE-ATMOSPHERE INTERACTIONS OVER THE BOREAL FOREST
Period Obligations
04/08/1993-06/14/1996 FY95: \$90,203 TOTAL: \$482,905
Prin. Invest. NASA Tech. Officer CASE Category
R D KELLY GSFC/F G HALL 39-Env Sci, NEC
GSFC/P SELLERS

NAG 5-2709 University of Wyoming 9073
X-RAY OBSERVATIONS OF THE EXPOSED STARBURST GALAXY NGC 2976
Period Obligations
08/26/1994-03/14/1996 FY95: TOTAL: \$15,000
Prin. Invest. NASA Tech. Officer CASE Category
H THRONSON GSFC/R PETRE 11-Astronomy

NAG 5-2801 University of Wyoming 9074
AN INVESTIGATION OF AEROSOL AND OZONE MEASUREMENTS FROM THE CRYOGENIC LIMB ARRAY ETALON
Period Obligations
11/18/1994-11/30/1995 FY95: \$47,643 TOTAL: \$47,643
Prin. Invest. NASA Tech. Officer CASE Category
T DESHLER GSFC/C H JACKMAN 31-Atmos Sci

NAG 8-249 University of Wyoming 9075
DATA AND SIGNAL PROCESSING FOR THE LASER ATMOSPHERIC WIND SOUNDER
Period Obligations
08/24/1992-07/31/1995 FY95: TOTAL: \$69,986
Prin. Invest. NASA Tech. Officer CASE Category
R INGUVA MSFC/M J KAVAYA 13-Physics
MSFC/J ROTHERMEL

NAG 9-722 University of Wyoming 9076
EVALUATION OF FAULT DETECTION, ISOLATION AND RECOVER CAPABILITIES IN ORBITING COMMUNICATION SUBSYS
Period Obligations
12/03/1993-10/01/1994 FY95: TOTAL: \$15,982
Prin. Invest. NASA Tech. Officer CASE Category
R E GANTENBEIN JSC/S H GOLDSTEIN 29-Math/Computer, NEC

NAG 9-797 University of Wyoming 9077
ANALYSIS OF VOTER AND INTERFACE PROTOCOLS
Period Obligations
06/27/1995-09/30/1995 FY95: \$10,000 TOTAL: \$10,000
Prin. Invest. NASA Tech. Officer CASE Category
R E GANTENBEIN JSC/R L JHULER 22-Computer Science

NAGW 1276 University of Wyoming 9078
INFRARED SPECKLE INTERFEROMETRY
Period Obligations
04/15/1988-11/30/1995 FY95: \$38,366 TOTAL: \$221,169
Prin. Invest. NASA Tech. Officer CASE Category
R R HOWELL HQ/H C BRINTON 11-Astronomy
HQ/J H RAHE

NAGW 2666 University of Wyoming 9079
NAGW-2666/UNIV WYOMING/GENERAL CIRCULATION MODEL SIMULATIONS FOR ANTARCTICA
Period Obligations
09/24/1991-05/31/1996 FY95: \$110,064 TOTAL: \$304,556
Prin. Invest. NASA Tech. Officer CASE Category
T R PARISH HQ/R H THOMAS 39-Env Sci, NEC
HQ/R A SCHIFFER

NAGW 2808 University of Wyoming 9080
DIRECT COUPLING OF ATMOSPHERIC WARMING TO PLANT ECOLOGY NOCTURNAL RADIATION EXCHANGE, FROST OCCURRE
Period Obligations
01/06/1992-01/31/1994 FY95: TOTAL: \$270,063
Prin. Invest. NASA Tech. Officer CASE Category
W K SMITH HQ/J K ALEXANDER 54-Env Biology
HQ/D A HOLLAND

NAGW 3749 University of Wyoming 9081
VERTICAL PROFILES OF CLOUD CONDENSATION NUCLEI
Period Obligations
10/13/1993-06/30/1996 FY95: \$109,433 TOTAL: \$334,935
Prin. Invest. NASA Tech. Officer CASE Category
T DESHER HQ/J T SUTTLES 31-Atmos Sci
J R SNIDER HQ/A C JANETOS
G VALI

NAGW 4384 University of Wyoming 9082
REMOTE SENSING OF PLANT STRESS IN XERIC ENVIRONMENTS USING NARROW-BAND SENSORS
Period Obligations
04/06/1995-01/31/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
W K SMITH HQ/A S MCGEE 39-Env Sci, NEC
HQ/E T SCHWARTZ

NAS 1-18945 University of Wyoming 9083
SAGE III SCIENCE INVESTIGATION SUPPORT P.I. - DR. GABOR VALI
Period Obligations
01/17/1990-01/31/2005 FY95: \$70,000 TOTAL: \$179,750
Prin. Invest. NASA Tech. Officer CASE Category
G VALI LARC/G L MADDREA 31-Atmos Sci
LARC/L R MCMASTER

NGT 00-030-350 University of Wyoming 9084
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period Obligations
08/16/1995-08/31/1998 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. NASA Tech. Officer CASE Category
J M ROSEN HQ/R A SCHIFFER 31-Atmos Sci
HQ/G ASRAR

**NASA'S UNIVERSITY PROGRAM
WYOMING (Continued)**

NGT 00-040-050 University of Wyoming 9085
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
Period Obligations
 07/24/1991-02/28/1996 FY95: \$170,000 TOTAL: \$688,000
Prin. Invest. NASA Tech. Officer CASE Category
 P E JOHNSON HQ/E T SCHWARTZ 99-Multi-Discip

NAG 8-193 University of Puerto Rico - Mayaguez 9092
 JOINT VENTURE
Period Obligations
 05/17/1991-01/31/1996 FY95: \$20,000 TOTAL: \$159,546
Prin. Invest. NASA Tech. Officer CASE Category
 J MACARI MSFC/F SIX 11-Astronomy
 A BARRIENTOS

PUERTO RICO

NGT 00-090-157 University of Turabo 9124
 PRE ENGINEERING PREPARATORY PROGRAM
Period Obligations
 04/02/1993-09/30/1995 FY95: \$202,298 TOTAL: \$422,298
Prin. Invest. NASA Tech. Officer CASE Category
 B MARREO HQ/M MATEU 41-Aero Engr

NAG 8-1085 University of Puerto Rico - Mayaguez 9093
 CRYSTAL STUDIES
Period Obligations
 09/15/1994-09/14/1995 FY95: \$30,711 TOTAL: \$56,206
Prin. Invest. NASA Tech. Officer CASE Category
 A BARRIENTAS MSFC/M V LASSE 13-Physics
 MSFC/W J LOVE

NAG 8-1003 University of Puerto Rico Humacao Univ 9116
College
 JOVE
Period Obligations
 01/25/1994-05/31/1996 FY95: \$24,107 TOTAL: \$77,714
Prin. Invest. NASA Tech. Officer CASE Category
 C HERNANDEZ MSFC/F SIX 13-Physics
 F ZYPMAN

NAGW 2912 University of Puerto Rico - Mayaguez 9094
 REMOTE SENSING OF CHLOROPHYLL AND SEDIMENTS IN COA
 STAL WATERS OF PUERTO RICO
Period Obligations
 02/20/1992-09/30/1995 FY95: TOTAL: \$225,000
Prin. Invest. NASA Tech. Officer CASE Category
 J M DIAZ HQ/J C DODGE 33-Oceanography
 HQ/A J TUYAHOV

NAGW 4619 University of Puerto Rico Humacao Univ 9117
College
 HUC-UPR MATHEMATICS, SCIENCE, AND TECHNOLOGY TEACH ER
 AND CURRICULUM ENHANCEMENT PROGRAM (MASTAP)
Period Obligations
 07/28/1995-06/30/1998 FY95: \$173,313 TOTAL: \$173,313
Prin. Invest. NASA Tech. Officer CASE Category
 A M GIERBOLINI HQ/B L WHITE 99-Multi-Discip

NAGW 3926 University of Puerto Rico - Mayaguez 9095
 EFFECTS OF MASSIVE RIVERINE INPUT
Period Obligations
 04/14/1994-03/31/1997 FY95: \$122,700 TOTAL: \$306,600
Prin. Invest. NASA Tech. Officer CASE Category
 J E CORREDOR HQ/A C JANETOS 33-Oceanography

NAG 1-1496 University of Puerto Rico - Mayaguez 9089
 TECHNIQUES FOR THE ANALYSIS OF SYSTEMS WITH DAMPING
 MATERIALS BY THE FRACTIONAL DERIVATIVE
Period Obligations
 04/19/1993-02/07/1996 FY95: \$74,260 TOTAL: \$149,258
Prin. Invest. NASA Tech. Officer CASE Category
 L SUAREZ LARC/L G HORTA 46-Mech Engr

NAGW 4614 University of Puerto Rico - Mayaguez 9096
 USING CBL TECHNOLOGY TO IMPROVE SCIENCE EDUCATION IN
 PUERTO RICO
Period Obligations
 07/20/1995-06/30/1998 FY95: \$152,325 TOTAL: \$152,325
Prin. Invest. NASA Tech. Officer CASE Category
 B RAMINEZ HQ/ 99-Multi-Discip

NAG 5-2188 University of Puerto Rico - Mayaguez 9090
 SOFT X-RAY OPTICS BY PULSED LASER DEPOSITION
Period Obligations
 02/04/1993-02/14/1996 FY95: \$55,400 TOTAL: \$168,221
Prin. Invest. NASA Tech. Officer CASE Category
 F E FERNANDEZ GSFC/R A KESKI-KUHA 13-Physics

NAG10-159 University of Puerto Rico - Mayaguez 9097
 FRIT QUANTIFICATION OF INDUSTRIAL FLUIDS IN
 PERCHOROTYLENE
Period Obligations
 06/08/1995-06/18/1996 FY95: \$45,000 TOTAL: \$45,000
Prin. Invest. NASA Tech. Officer CASE Category
 N K MEHTA KSC/G ALLEN 43-Chem Engr

NAG 5-2909 University of Puerto Rico - Mayaguez 9091
 ESTIMATION OF OCEAN PRIMARY PRODUCTIVITY USING IN- SITU
 FLUORESCENCE AND SEAWIFS
Period Obligations
 03/10/1995-03/14/1996 FY95: \$75,000 TOTAL: \$75,000
Prin. Invest. NASA Tech. Officer CASE Category
 J M LOPEZ GSFC/W E ESAIAS 39-Env Sci, NEC

NAG13-17 University of Puerto Rico - Mayaguez 9098
 USE OF A GIS AND REMOTE SENSING TECHNOLOGY
Period Obligations
 12/13/1991-06/30/1996 FY95: TOTAL: \$206,790
Prin. Invest. NASA Tech. Officer CASE Category
 L L RODRIGUEZ SSC/A T JOYCE 39-Env Sci, NEC

NCC 8-37 University of Puerto Rico - Mayaguez 9099
 FABRICATION OF ORGANIC AND POLYMER GUIDING ORGANIC
 FILMS FROM MELT
Period Obligations
 05/24/1994-05/24/1996 FY95: \$45,856 TOTAL: \$89,431
Prin. Invest. NASA Tech. Officer CASE Category
 A LEYDERMAN MSFC/B PENN 12-Chemistry

**NASA'S UNIVERSITY PROGRAM
PUERTO RICO (Continued)**

NCCW 88 University of Puerto Rico - Mayaguez 9100
TROPICAL CENTER FOR EARTH AND SPACE STUDIES
Period *Obligations*
07/24/1995-06/30/2000 FY95: \$1,490,482 TOTAL: \$1,490,482
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R F SEIN HQ/M MATEU 39-Env Sci, NEC

NGT 00-070-311 University of Puerto Rico - Mayaguez 9108
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
05/28/1993-05/31/1996 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R VASQUEZ HQ/D K RUSSELL 33-Oceanography

NGT 00-030-272 University of Puerto Rico - Mayaguez 9101
NASA GLOBAL CHANGE GRADUATE FELLOWSHIP PROGRAM
Period *Obligations*
09/22/1994-08/31/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J CORREDOR HQ/A C JANETOS 39-Env Sci, NEC
HQ/G ASRAR

NGT 00-070-319 University of Puerto Rico - Mayaguez 9109
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
06/29/1993-07/31/1996 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M LOPEZ HQ/D K RUSSELL 33-Oceanography

NGT 00-040-053 University of Puerto Rico - Mayaguez 9102
NGT-40053/UNIV PUERTO RICO/NATIONAL SPACE GRANT
FELLOWSHIP PROGRAM
Period *Obligations*
04/27/1992-02/28/1998 FY95: \$150,000 TOTAL: \$600,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J G GONZALES HQ/E T SCHWARTZ 99-Multi-Discip

NGT 00-070-320 University of Puerto Rico - Mayaguez 9110
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
06/29/1993-07/31/1996 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M LOPEZ HQ/D K RUSSELL 33-Oceanography

NGT 00-051-340 University of Puerto Rico - Mayaguez 9103
GRADUATE STUDENT RESEARCHERS PROGRAM
Period *Obligations*
07/29/1994-06/30/1997 FY95: \$22,000 TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E VASQUEZ SSC/A JOYCE 45-Elec Engr

NGT 00-070-322 University of Puerto Rico - Mayaguez 9111
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
06/29/1993-08/14/1996 FY95: \$22,000 TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A LEYDERMAN HQ/D K RUSSELL 13-Physics

NGT 00-070-208 University of Puerto Rico - Mayaguez 9104
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
04/19/1991-12/31/1993 FY95: TOTAL: \$58,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R E VASQUEZ HQ/D K RUSSELL 45-Elec Engr

NGT 00-070-323 University of Puerto Rico - Mayaguez 9112
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
07/05/1993-07/31/1996 FY95: TOTAL: \$44,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M LOPEZ HQ/D K RUSSELL 33-Oceanography

NGT 00-070-209 University of Puerto Rico - Mayaguez 9105
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
08/16/1991-07/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M LOPEZ HQ/F C OWENS 33-Oceanography

NGT 00-070-362 University of Puerto Rico - Mayaguez 9113
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
08/12/1993-12/31/1994 FY95: TOTAL: \$36,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R VASQUEZ HQ/D K RUSSELL 45-Elec Engr

NGT 00-070-238 University of Puerto Rico - Mayaguez 9106
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
08/16/1991-07/31/1994 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M LOPEZ HQ/J T LYNCH 33-Oceanography

NGT 00-070-392 University of Puerto Rico - Mayaguez 9114
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
08/19/1994-05/31/1996 FY95: \$44,000 TOTAL: \$88,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A LEYDERMAN HQ/D K RUSSELL 19-Phys Sci, NEC
J CORREDOR

NGT 00-070-259 University of Puerto Rico - Mayaguez 9107
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
05/04/1992-06/30/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J M LOPEZ SSC/A JOYCE 33-Oceanography

NGT13-72700 University of Puerto Rico - Mayaguez 9115
EFFECTS OF SEDIMENT INFLUX ON THE GROWTH RATE OF
SEVERAL CORAL SPECIES ON THE SW COAST OF PUERTO RIC
Period *Obligations*
06/28/1995-08/01/1997 FY95: \$22,000 TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J MORELOCK SSC/JOYCE 49-Engr, NEC

**NASA'S UNIVERSITY PROGRAM
PUERTO RICO (Continued)**

NAG13-19 Univ of Puerto Rico-Med Sciences 9086
RELATIONSHIP BETWEEN LAND USE AND HEALTH ASSOCIATE
WATER QUALITY PARAMETERS IN RIVERS IN LUQUILLO FO
Period *Obligations*
01/17/1992-12/31/1993 FY95: TOTAL: \$157,423
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J NORAT SSC/A T JOYCE 54-Env Biology
F D FOLCH

NAG13-29 Univ of Puerto Rico-Med Sciences 9087
LAND USE PATTERNS AND FECAL CONTAMINATION IN WESTERN
PUERTO RICO
Period *Obligations*
12/17/1993-12/16/1994 FY95: \$75,000 TOTAL: \$150,447
Prin. Invest. *NASA Tech. Officer* *CASE Category*
NORAT SSC/JOYCE 39-Env Sci, NEC

NGT 00-070-391 Univ of Puerto Rico-Med Sciences 9088
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
08/25/1994-06/30/1995 FY95: TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J NORAT HQ/D RUSSELL 39-Env Sci, NEC

NAG 8-260 University of Puerto Rico-Rio Piedras 9118
JOVE
Period *Obligations*
12/30/1992-05/31/1995 FY95: \$29,000 TOTAL: \$127,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R LUGO-ESCHENWALD MSFC/F SIX 51-Biological Sci
E SOBRINO

NAGW 4059 University of Puerto Rico-Rio Piedras 9119
LAND MANAGEMENT IN THE TROPICS AND ITS EFFECTS ON GLOBAL
ENVIRONMENT
Period *Obligations*
08/08/1994-08/14/1997 FY95: \$600,000 TOTAL: \$1,000,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B R WEINER HQ/B L WHITE 39-Env Sci, NEC

NAG13-18 University of Puerto Rico-Rio Piedras 9120
PRIMARY PRODUCTIVITY AND REMOTE SENSING OF TROPICAL
VEGETATION
Period *Obligations*
12/26/1991-11/30/1994 FY95: TOTAL: \$158,608
Prin. Invest. *NASA Tech. Officer* *CASE Category*
N FLETCHER SSC/A T JOYCE 39-Env Sci, NEC

NCCW 56 University of Puerto Rico-Rio Piedras 9121
NASA EPSCOR PROGRAM
Period *Obligations*
08/16/1994-04/30/1997 FY95: \$500,000 TOTAL: \$1,500,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
B WINNER HQ/L KEFFER 99-Multi-Discip
J G LAGOA HQ/E T SCHWARTZ

NGT 00-070-239 University of Puerto Rico-Rio Piedras 9122
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
12/11/1991-03/31/1995 FY95: TOTAL: \$66,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
A D CRUZ SSC/A T JOYCE 39-Env Sci, NEC

NGT 00-070-393 University of Puerto Rico-Rio Piedras 9123
NASA GRADUATE STUDENT RESEARCHERS UNDERREPRESENTED
MINORITY FOCUS PROGRAM
Period *Obligations*
08/31/1994-06/30/1995 FY95: TOTAL: \$22,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
G TORANZOS HQ/D K RUSSELL 51-Biological Sci

AUSTRALIA

NAGW 674 University of Queensland 9125
SHOCK TUNNEL STUDIES OF SCRAMJET PHENOMANENA
Period *Obligations*
01/01/1985-12/31/1995 FY95: \$50,185 TOTAL: \$2,226,138
Prin. Invest. *NASA Tech. Officer* *CASE Category*
R J STALKER LARC/G Y ANDERSON 41-Aero Engr
R G MORGAN HQ/J SUDDRETH
A PAUL

CANADA

NAGW 3792 University British Columbia 9126
NUMERICAL SIMULATIONS OF VOLCANO AND GEYSER ERUPTI ONS
ON EARTH, MARS, VENUS, IO AND TRITON
Period *Obligations*
10/13/1993-09/30/1995 FY95: TOTAL: \$57,000
Prin. Invest. *NASA Tech. Officer* *CASE Category*
S W KIEFFER HQ/J M BOYCE 32-Geological Sci

NAS 5-30294 York University 9127
HUBBLE SPACE TELESCOPE GUARANTEED TIME OBSERVATION
PROGRAM SUPPORT
Period *Obligations*
01/20/1988-12/31/1996 FY95: \$40,000 TOTAL: \$761,188
Prin. Invest. *NASA Tech. Officer* *CASE Category*
J J CALDWELL GSFC/J K KALINOWSKI 42-Astro Engr

CHILE

NAS 5-1925 University of Chile 9128
MANDO OF MINITRACK FACILITIES IN CLILE
Period *Obligations*
09/21/1962-09/30/1995 FY95: \$2,242,851 TOTAL: \$92,822,119
Prin. Invest. *NASA Tech. Officer* *CASE Category*
E DIAZ GSFC/W J BODIN 99-Multi-Discip
GSFC/D SPINTMAN

**NASA'S UNIVERSITY PROGRAM
GREAT BRITAIN**

GREAT BRITAIN

NAGW 3909 Imperial College of Science & Technology 9129
 NAGW-3909/B IMPERIAL COLLEGE 'DEV. OF METHODS FOR PREDICT. LARGE CRACK GROWTH.' 12-MO AWARD
Period Obligations
 04/22/1994-04/14/1995 FY95: TOTAL: \$40,200
Prin. Invest. NASA Tech. Officer CASE Category
 H FORD ARC/K K GUPTA 41-Aero Engr
 C E TURNER
 R T FENNER

NAGW 4132 Surrey University 9130
 FORMEX CONFIGURATION PROCESSING
Period Obligations
 09/08/1994-06/30/1995 FY95: TOTAL: \$35,000
Prin. Invest. NASA Tech. Officer CASE Category
 H NOOSHIN DFRC/K K GUPTA 41-Aero Engr

NAGW 3198 University of Leeds 9131
 NAGW-3198/UNIV LEEDS/GENERIC DESIGN OF A DOUBLE DELTA WING USING THE PDE METHOD
Period Obligations
 08/28/1992-12/31/1995 FY95: \$31,951 TOTAL: \$92,551
Prin. Invest. NASA Tech. Officer CASE Category
 M I BLOOR LARC/R E SMITH 41-Aero Engr
 M J WILSON LARC/J J LAMBIOTTE

NAGW 3871 University of Manchester 9132
 UNIV MANCHESTER; INSTABILITY AND TRANSITION OF FLOW AT, AND NEAR, AN ATTACHMENT LINE - INCLUDING CONTR
Period Obligations
 02/25/1994-02/28/1995 FY95: \$1 TOTAL: \$64,972
Prin. Invest. NASA Tech. Officer CASE Category
 D I POLL LARC/F S COLLIER JR. 41-Aero Engr

NAGW 2127 University of Wales 9133
 A MORE EFFICIENT FINITE ELEMENT ALGORITHM FOR HIGH SPEED COMPRESSIBLE FLOW
Period Obligations
 06/15/1990-04/30/1996 FY95: \$85,000 TOTAL: \$424,400
Prin. Invest. NASA Tech. Officer CASE Category
 O C ZIENKIEWICZ ARC/K K GUPTA 41-Aero Engr
 ARC/K L PETERSEN

NAGW 3290 University of Wales 9134
 NAGW-3290/UNIV OF WALES/FINITE ELMEENT METHODS FOR THE SIMULATION OF HYPERSONIC FLOWS
Period Obligations
 01/22/1993-12/31/1994 FY95: TOTAL: \$192,332
Prin. Invest. NASA Tech. Officer CASE Category
 K MORGAN LARC/K S BEY 41-Aero Engr
 J PERAIRE LARC/A R WIETING

NCCW 2 University of Wales 9135
 COMPUTER PROGRAM FOR BUCKLING OF STIFFENED COMPOSITE
Period Obligations
 10/01/1981-01/31/1996 FY95: \$30,000 TOTAL: \$235,250
Prin. Invest. NASA Tech. Officer CASE Category
 F W WILLIAMS LARC/J H STARNES 46-Mech Engr
 LARC/M S ANDERSON

INDIA

NAGW 4153 Bengal Engineering College 9136
Period Obligations
 09/28/1994-10/31/19 FY95: TOTAL: \$9,000
Prin. Invest. NASA Tech. Officer CASE Category
 S DASGUPTA ARC/K K GUPTA 41-Aero Engr
 D SENGUPTA

ISRAEL

NCCW 45 Israel Institute of Technology 9137
 ADVANCED INTERACTIVE DISPLAY FORMATS FOR TERMINAL AREA AIR TRAFFIC CONTROL
Period Obligations
 07/15/1994-09/30/1995 FY95: TOTAL: \$104,956
Prin. Invest. NASA Tech. Officer CASE Category
 A J GRUNWALD HQ/S R ELLIS 49-Engr, NEC
 ARC

NETHERLANDS

NAGW 2736 Delft Univ of Technology-Netherlands 9138
 ROLE OF GEOMETRIC IMPERFECTIONS IN THE STABILITY ANALYSIS OF THIN SHELLS
Period Obligations
 09/19/1991-08/31/1996 FY95: TOTAL: \$100,001
Prin. Invest. NASA Tech. Officer CASE Category
 J ARBOCZ LARC/J H STARNES 41-Aero Engr
 LARC/M P NEMETH

NEW ZEALAND

NAGW 4127 University of Waikato 9139
 MODELING VISUAL, VESTIBULAR, AND OCULOMOTOR INTERACTIONS IN SELF-MOTION - ESTIMATION
Period Obligations
 09/02/1994-06/30/1996 FY95: TOTAL: \$24,198
Prin. Invest. NASA Tech. Officer CASE Category
 J A PERRONE ARC/L S STONE 59-Life Sci, NEC

WEST GERMANY

NAGW 1736 Univ Stuttgart 9140
 HIGH POWER ARC JET
Period Obligations
 06/02/1989-07/30/1994 FY95: TOTAL: \$426,500
Prin. Invest. NASA Tech. Officer CASE Category
 H O SCHRABE LERC/F M CURRAN 42-Astro Engr
 M A KURTZ LERC/L M CARNEY

**NASA'S UNIVERSITY PROGRAM
WEST GERMANY (Continued)**

NASW 4685	University of Karlsruhe	9141
THERMOELECTRIC INFRARED DETECTORS		
<i>Period</i>	<i>Obligations</i>	
11/06/1992-11/14/1995	FY95: \$131,801	TOTAL: \$393,847
<i>Prin. Invest.</i>	<i>NASA Tech. Officer</i>	<i>CASE Category</i>
V KUNDE	HQ/H WRIGHT	41-Aero Engr

NASA's UNIVERSITY PROGRAM

APPENDIX

CROSS-INDEX BY FIELD OF SCIENCE AND ENGINEERING

The Fields used here are specified by Amendment J, "Standard Classification of Fields of Science and Engineering," to Office of Management and Budget (OMB) Circular A-46, "Standards for Statistical Surveys." Field codes are interpreted as follows:

<p><i>PHYSICAL SCIENCES</i></p> <p>11 ASTRONOMY 12 CHEMISTRY 13 PHYSICS 19 PHYSICAL SCIENCES, NEC*</p>	<p><i>ENVIRONMENTAL SCIENCES (Terrestrial and extraterrestrial)</i></p> <p>31 ATMOSPHERIC SCIENCES 32 GEOLOGICAL SCIENCES 33 OCEANOGRAPHY 39 ENVIRONMENTAL SCIENCES, NEC*</p>	<p><i>LIFE SCIENCES</i></p> <p>51 BIOLOGICAL SCIENCES 54 ENVIRONMENTAL BIOLOGY 55 AGRICULTURAL SCIENCES 56 MEDICAL SCIENCES 59 LIFE SCIENCES, NEC*</p>	<p><i>SOCIAL SCIENCES</i></p> <p>71 ANTHROPOLOGY 72 ECONOMICS 73 HISTORY 74 LINGUISTICS 75 POLITICAL SCIENCE 76 SOCIOLOGY 79 SOCIAL SCIENCE, NEC*</p>
<p><i>MATHEMATICAL/ COMP SCI</i></p> <p>21 MATHEMATICS 22 COMPUTER SCIENCES 29 MATHEMATICAL COMPUTER SCIENCES, NEC*</p>	<p><i>ENGINEERING</i></p> <p>41 AERONAUTICAL 42 ASTRONAUTICAL 43 CHEMICAL 44 CIVIL 45 ELECTRICAL 46 MECHANICAL 47 METALLURGY AND MATERIALS 49 ENGINEERING, NEC*</p>	<p><i>PSYCHOLOGY</i></p> <p>61 BIOLOGICAL 62 SOCIAL ASPECTS 69 PSYCHOLOGY, NEC*</p>	<p><i>OTHER SCIENCES**</i></p> <p>99 ALL DISCIPLINE(S)</p>

* Not elsewhere classified (For interdisciplinary projects and others not listed by discipline name)
** For interdisciplinary projects which cannot be classified within any of the preceding main fields

APPENDIX

Abbreviations used in the "Technical Officer Locations" column are discussed in the prefatory pages.

FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
11	UNIV ALA-BIRMINGHAM	R V STACHNIK	HQ	T J WDOWIAK	NAGW 3902	1083
11	UNIV ALA-HUNTSVILLE	J P NORRIS	GSFC	W PACIESAS	NAG 5-1756	1103
11	UNIV ALA-HUNTSVILLE	J P NORRIS	GSFC	G EMSLIEO	NAG 5-2019	1104
11	UNIV ALA-HUNTSVILLE	J P NORRIS	GSFC	A G EMSLIE	NAG 5-2373	1105
11	UNIV ALA-HUNTSVILLE	J P NORRIS	GSFC	W S PACIESAS	NAG 5-2416	1106
11	UNIV ALA-HUNTSVILLE	R PETRE	GSFC	E Z MUSIELAK	NAG 5-2443	1107
11	UNIV ALA-HUNTSVILLE	R RAMATY	GSFC	J A MILLER	NAG 5-2627	1108
11	UNIV ALA-HUNTSVILLE	J P NORRIS	GSFC	J L HOROWITZ	NAG 5-2725	1109
11	UNIV ALA-HUNTSVILLE	N WHITE	GSFC	J VAN PARADIJS	NAG 5-2735	1110
11	UNIV ALA-HUNTSVILLE	J NORRIS	GSFC	J V PARADIJS	NAG 5-2755	1111
11	UNIV ALA-HUNTSVILLE	J P NORRIS	GSFC	J A MILLER	NAG 5-2871	1112
11	UNIV ALA-HUNTSVILLE	D WEST	GSFC	J VAN PARADIKIS	NAG 5-3003	1114
11	UNIV ALA-HUNTSVILLE	J M DAVIS	MSFC	J M FONTENLA	NAG 8-874	1123
11	UNIV ALA-HUNTSVILLE	J VARGAS	MSFC	P C SCHMIDTKE	NAG 8-1032	1131
11	UNIV ALA-HUNTSVILLE	J M DAVIS	MSFC	Z E MUSIELAK	NAG 8-1036	1132
11	UNIV ALA-HUNTSVILLE	E J REICHMANN	MSFC	Z E MUSIELAK	NAG 8-1084	1134
11	UNIV ALA-HUNTSVILLE	M J HAGYARD	MSFC	R A CHIPMAN	NAG 8-1112	1137
11	UNIV ALA-HUNTSVILLE	R STACHNIK	HQ	M ZUKIC	NAGW 2898	1148
11	UNIV ALA-HUNTSVILLE	L J KALUZIENSKI	HQ	Z E MUSIELAK	NAGW 2933	1150
11	UNIV ALA-HUNTSVILLE	J E JOHNSON	MSFC	D G TORR	NAS 8-37106	1165
11	UNIV ALA-TUSCALOOSA	R PETRE	GSFC	R E WHITE	NAG 5-1718	1203
11	UNIV ALA-TUSCALOOSA	R PETRE	GSFC	R E WHITE	NAG 5-1973	1204
11	UNIV ALA-TUSCALOOSA	D WEST	GSFC	W C KEEL	NAG 5-2134	1205
11	UNIV ALA-TUSCALOOSA	D WEST	GSFC	M J HENRIKSEN	NAG 5-2402	1206
11	UNIV ALA-TUSCALOOSA	R PETRE	GSFC	M J HENRIKSEN	NAG 5-2529	1207
11	UNIV ALA-TUSCALOOSA	N WHITE	GSFC	R E WHITE III	NAG 5-2574	1208
11	UNIV ALA-TUSCALOOSA	R PETRE	GSFC	W KEEL	NAG 5-2703	1209
11	UNIV ALA-TUSCALOOSA	N WHITE	GSFC	M HENRIKSEN	NAG 5-2779	1210
11	UNIV ALA-TUSCALOOSA	D WEST	GSFC	P B ESKRIDGE	NAG 5-2990	1211
11	UNIV ALA-TUSCALOOSA	J VARGUS	MSFC	R E WHITE	NAG 8-228	1212
11	UNIV ALASKA-FAIRBNKS	L J EARLY	GSFC	T J HALLINAN	NAG 5-5013	1247
11	UNIV ALASKA-FAIRBNKS	G H TROFFORD	GSFC	J MILLER	NCA 5-112	1270

NASA'S UNIVERSITY PROGRAM
APPENDIX - CROSS INDEX BY FIELD OF SCIENCE AND ENGINEERING

FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
11	ARIZONA STATE UNIV	D K WEST	GSFC	S G STARRFIELD	NAG 5-481	1292
11	ARIZONA STATE UNIV	D K WEST	GSFC	A P COWLEY	NAG 5-996	1293
11	ARIZONA STATE UNIV	D WEST	GSFC	S G STARRFIELD	NAG 5-1802	1294
11	ARIZONA STATE UNIV	D WEST	GSFC	P C SCHMIDTKE	NAG 5-2101	1295
11	ARIZONA STATE UNIV	R PETRE	GSFC	R A WINDHORST	NAG 5-2322	1296
11	ARIZONA STATE UNIV	R PETRE	GSFC	A P CONWAY	NAG 5-2553	1297
11	ARIZONA STATE UNIV	R WHITE	GSFC	D BURSTEIN	NAG 5-2832	1298
11	ARIZONA STATE UNIV	D WEST	GSFC	A P COWLEY	NAG 5-3004	1299
11	ARIZONA STATE UNIV	D WEST	GSFC	P H HAUSCHILDT	NAG 5-3067	1300
11	ARIZONA STATE UNIV	D WEST	GSFC	S G STARRFIELD	NAG 5-3068	1301
11	ARIZONA STATE UNIV	J VARGAS	MSFC	P C SCHMIDTKE	NAG 8-1035	1302
11	ARIZONA STATE UNIV	H C BRINTON	HQ	S WYCKOFF	NAGW 547	1305
11	ARIZONA STATE UNIV	G S KUTTER	HQ	S G STARRFIELD	NAGW 2628	1318
11	ARIZONA STATE UNIV	L J CAROFF	HQ	L M ZIURYS	NAGW 2989	1320
11	ARIZONA STATE UNIV	P ROGERS	HQ	S WYCKOFF	NAGW 4105	1327
11	ARIZONA STATE UNIV	G R RIEGLER	HQ	P HAUSCHILDT	NAGW 4510	1330
11	ARIZONA STATE UNIV	M BERGSTRAHL	HQ	P CHRISTENSEN	NAGW 4592	1331
11	NORTHERN ARIZONA U	B W GUENTHER	GSFC	R L WILDEY	NAG 5-1761	1348
11	NORTHERN ARIZONA U	S GOLDSTEIN	JSC	H O HOOPER	NAG 9-518	1351
11	NORTHERN ARIZONA U	W L QUAIDE	HQ	B L LUTZ	NAGW 2811	1353
11	NORTHERN ARIZONA U	J H RAHE	HQ	C GRIFFITH	NAGW 3847	1354
11	NORTHERN ARIZONA U	J RAHE	HQ	B LUTZ	NAGW 4232	1356
11	NORTHERN ARIZONA U	H BRINTON	HQ	B LUCCHITTA	NAGW 4545	1357
11	NORTHERN ARIZONA U	P G ROGERS	HQ	S TEGLER	NAGW 4643	1358
11	NORTHERN ARIZONA U	E T SCHWARTZ	HQ	B L LUTZ	NGT 00-010-015	1359
11	UNIV OF ARIZONA	C D LAUGHLIN	ARC	H P LARSON	NAG 2-206	1368
11	UNIV OF ARIZONA	C D LAUGHLIN	ARC	D M HUNTEN	NAG 2-901	1371
11	UNIV OF ARIZONA	C D LAUGHLIN	ARC	A L SPRAGUE	NAG 2-957	1374
11	UNIV OF ARIZONA	E F ERICKSON	ARC	H P LARSON	NAG 2-998	1375
11	UNIV OF ARIZONA	Y KONDO	GSFC	J B HOLBERT	NAG 5-434	1384
11	UNIV OF ARIZONA	D WEST	GSFC	M V SYKES	NAG 5-1370	1386
11	UNIV OF ARIZONA	R PETRE	GSFC	J BECHTOLD	NAG 5-2080	1391
11	UNIV OF ARIZONA	R OLIVERSEN	GSFC	R W TWEEDY	NAG 5-2268	1394
11	UNIV OF ARIZONA	R OLIVERSEN	GSFC	J B HOLBERG	NAG 5-2269	1395
11	UNIV OF ARIZONA	R OLIVERSEN	GSFC	J B HOLBERG	NAG 5-2311	1397
11	UNIV OF ARIZONA	J I TROMBKA	GSFC	W V BOYNTON	NAG 5-2367	1398
11	UNIV OF ARIZONA	B D SEERY	GSFC	A MARATHAY	NAG 5-2427	1400
11	UNIV OF ARIZONA	D WEST	GSFC	J BECHTOLD	NAG 5-2428	1401
11	UNIV OF ARIZONA	J P NORRIS	GSFC	P A PINTO	NAG 5-2435	1402
11	UNIV OF ARIZONA	R PETRE	GSFC	R C KENNICUTT JR.	NAG 5-2480	1404
11	UNIV OF ARIZONA	D WEST	GSFC	R TWEEDY	NAG 5-2502	1405
11	UNIV OF ARIZONA	J P NORRIS	GSFC	J G LAROS	NAG 5-2503	1406
11	UNIV OF ARIZONA	P PETRE	GSFC	J M HILL	NAG 5-2535	1407
11	UNIV OF ARIZONA	R OLIVERSEN	GSFC	F L HERBERT	NAG 5-2630	1408
11	UNIV OF ARIZONA	D WEST	GSFC	E W OLSZEWSKI	NAG 5-2642	1409
11	UNIV OF ARIZONA	D WEST	GSFC	J B HOLBERG	NAG 5-2738	1410
11	UNIV OF ARIZONA	D WEST	GSFC	W D ARNETT	NAG 5-2798	1411
11	UNIV OF ARIZONA	D WEST	GSFC	A S BURROWS	NAG 5-2817	1412
11	UNIV OF ARIZONA	R OLIVERSEN	GSFC	J W LIEBERT	NAG 5-2901	1413
11	UNIV OF ARIZONA	N WHITE	GSFC	T FLEMING	NAG 5-2955	1414
11	UNIV OF ARIZONA	N WHITE	GSFC	J BECHTOLD	NAG 5-2962	1415
11	UNIV OF ARIZONA	E O RUITBERG	GSFC	D I THOMPSON	NAG 5-3042	1417
11	UNIV OF ARIZONA	D WEST	GSFC	F MELLA	NAG 5-3075	1418
11	UNIV OF ARIZONA	H C BRINTON	HQ	S M LARSON	NAGW 247	1424
11	UNIV OF ARIZONA	H C BRINTON	HQ	T GEHRELS	NAGW 887	1427
11	UNIV OF ARIZONA	H C BRINTON	HQ	R S MCMILLAN	NAGW 1283	1433
11	UNIV OF ARIZONA	F C GILLET	HQ	E YOUNG	NAGW 1285	1434
11	UNIV OF ARIZONA	J T BERGSTRALH	HQ	F HERBERT	NAGW 1498	1436
11	UNIV OF ARIZONA	J H RAHE	HQ	U FINK	NAGW 1549	1437
11	UNIV OF ARIZONA	J H RAHE	HQ	W B HUBBARD	NAGW 1555	1438

**NASA'S UNIVERSITY PROGRAM
APPENDIX - CROSS INDEX BY FIELD OF SCIENCE AND ENGINEERING**

FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
11	UNIV OF ARIZONA	J RAHE	HQ	C C PORCO	NAGW 1876	1440
11	UNIV OF ARIZONA	G S LEVY	HQ	F J LOW	NAGW 1927	1442
11	UNIV OF ARIZONA	J BERGSTALH	HQ	S M LARSON	NAGW 1974	1444
11	UNIV OF ARIZONA	J BERGSTALH	HQ	L A LEBOWSKY	NAGW 1975	1445
11	UNIV OF ARIZONA	J BERGSTALH	HQ	R YELLE	NAGW 2017	1446
11	UNIV OF ARIZONA	G S KUTTER	HQ	A S BURROWS	NAGW 2145	1448
11	UNIV OF ARIZONA	J BERGSTALH	HQ	A L BROADFOOT	NAGW 2359	1461
11	UNIV OF ARIZONA	G S KUTTER	HQ	D ARNETT	NAGW 2450	1465
11	UNIV OF ARIZONA	J T BERGSTALH	HQ	S W BOUGHER	NAGW 2493	1466
11	UNIV OF ARIZONA	J A NUTH	HQ	G H RIEKE	NAGW 2606	1469
11	UNIV OF ARIZONA	G R RIEGLER	HQ	F MELIA	NAGW 2709	1470
11	UNIV OF ARIZONA	F GIOVANE	HQ	HOLBERG	NAGW 2720	1471
11	UNIV OF ARIZONA	G R RIEGLER	HQ	F MELIA	NAGW 2822	1472
11	UNIV OF ARIZONA	W L QUAIDE	HQ	D M HUNTEN	NAGW 2831	1473
11	UNIV OF ARIZONA	L J CAROFF	HQ	R I THOMPSON	NAGW 2850	1474
11	UNIV OF ARIZONA	L J CAROFF	HQ	G RIEKE	NAGW 2864	1475
11	UNIV OF ARIZONA	J L RAHE	HQ	R MCMILLAN	NAGW 2878	1476
11	UNIV OF ARIZONA	G R RIEGLER	HQ	T FLEMING	NAGW 3160	1481
11	UNIV OF ARIZONA	J H RAHE	HQ	T GEHRELS	NAGW 3380	1487
11	UNIV OF ARIZONA	H C BRINTON	HQ	A L SPRAGUE	NAGW 3382	1488
11	UNIV OF ARIZONA	RAHE	HQ	T GEHRELS	NAGW 3796	1506
11	UNIV OF ARIZONA	H H BRINTON	HQ	D BRITT	NAGW 3820	1507
11	UNIV OF ARIZONA	R V STACHNIK	HQ	M P LESSER	NAGW 3846	1508
11	UNIV OF ARIZONA	J H RAHE	HQ	S LARSON	NAGW 4066	1510
11	UNIV OF ARIZONA	J RAHE	HQ	W HUBBARD	NAGW 4072	1511
11	UNIV OF ARIZONA	L J CAROFF	HQ	C K WALKER	NAGW 4074	1512
11	UNIV OF ARIZONA	P ROGERS	HQ	G RIEKE	NAGW 4083	1513
11	UNIV OF ARIZONA	J BERGSTALH	HQ	D HUNTEN	NAGW 4308	1517
11	UNIV OF ARIZONA	E BARKER	HQ	P SMITH	NAGW 4627	1521
11	UNIV OF ARIZONA	J BERGSTALH	HQ	M SYKES	NAGW 4647	1522
11	UNIV OF ARIZONA	L J CAROFF	HQ	P BERNATH	NAGW 4736	1523
11	UNIV OF ARIZONA	C D LAUGHLIN	ARC	M RIEKE	NAS 2-13464	1529
11	UNIV OF ARIZONA	D K WEST	GSFC	M V SYKES	NAS 5-32495	1534
11	UNIV OF ARIZONA	J H GOEBEL	ARC	R S MCMILLAN	NCC 2-667	1537
11	UNIV OF ARIZONA	S A SANDFORD	ARC	T D SWINDLE	NCC 2-5051	1538
11	UNIV OF ARIZONA	D V GALLAWAY	HQ	L A LEBOWSKY	NGT 00-010-001	1541
11	UNIV OF ARIZONA	G SOFFEN	GSFC	R GREEN	NGT 00-050-758	1558
11	UNIV OF ARIZONA	F C OWENS	HQ	M RIEKE	NGT 00-050-857	1560
11	UNIV OF ARIZONA	J ALEXANDER	HQ	B SANDEL	NGT 00-050-962	1562
11	UNIV OF ARIZONA	D HOLLAND	HQ	J I LUNINE	NGT 00-051-127	1567
11	UNIV OF ARIZONA	D HOLLAND	HQ	E H LEVY	NGT 00-051-139	1568
11	UNIV OF ARIZONA	D HOLLAND	HQ	C D IMPEY	NGT 00-051-152	1569
11	UNIV OF ARIZONA	D HOLLAND	HQ	W A BOYNTON	NGT 00-051-289	1572
11	UNIV OF ARIZONA	D HOLLAND	HQ	F MELIA	NGT 00-051-305	1574
11	UNIV OF ARIZONA	D HOLLAND	HQ	G RIEKE	NGT 00-051-306	1575
11	UNIV OF ARIZONA	D HOLLAND	HQ	U FINK	NGT 00-051-324	1576
11	UNIV OF ARIZONA	D HOLLAND	HQ	H J MELOSH	NGT 00-051-327	1577
11	UNIV OF ARIZONA	D HOLLAND	HQ	C WALKER	NGT 00-051-328	1578
11	HARDING UNIVERSITY	N F SIX	MSFC	J MACKEY	NAG 8-197	1585
11	CALIF INST OF TECH	C D LAUGHLIN	ARC	J ZMUIDZINAS	NAG 2-744	1603
11	CALIF INST OF TECH	C D LAUGHLIN	ARC	B T SOIFER	NAG 2-857	1605
11	CALIF INST OF TECH	J P NORRIS	GSFC	T A PRINCE	NAG 5-1458	1608
11	CALIF INST OF TECH	S SOBIESKI	GSFC	J A WESTPHAL	NAG 5-1611	1609
11	CALIF INST OF TECH	R PETRE	GSFC	W L SARGENT	NAG 5-1707	1610
11	CALIF INST OF TECH	R PETRE	GSFC	T M HECKMAN	NAG 5-1861	1611
11	CALIF INST OF TECH	R PETRE	GSFC	I N REID	NAG 5-1985	1612
11	CALIF INST OF TECH	J P NORRIS	GSFC	H ZIRIN	NAG 5-2090	1613
11	CALIF INST OF TECH	R STRICTMATTER	GSFC	R A MEWOLDT	NAG 5-2168	1614
11	CALIF INST OF TECH	D E SMITH	GSFC	D O MUHLEMAN	NAG 5-2184	1615
11	CALIF INST OF TECH	R PETRE	GSFC	M SCHMIDT	NAG 5-2193	1616

**NASA'S UNIVERSITY PROGRAM
APPENDIX - CROSS INDEX BY FIELD OF SCIENCE AND ENGINEERING**

FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
11	CALIF INST OF TECH	D WEST	GSFC	G NEUGEBAUER	NAG 5-2381	1617
11	CALIF INST OF TECH	R PETRE	GSFC	J LIM	NAG 5-2450	1618
11	CALIF INST OF TECH	R PETRE	GSFC	A LAOR	NAG 5-2496	1619
11	CALIF INST OF TECH	J P NORRIS	GSFC	R BLANDFORD	NAG 5-2504	1620
11	CALIF INST OF TECH	N WHITE	GSFC	B R KULKARNI	NAG 5-2519	1621
11	CALIF INST OF TECH	N WHITE	GSFC	T A PRINCE	NAG 5-2520	1622
11	CALIF INST OF TECH	D WEST	GSFC	S R KULKARNI	NAG 5-2655	1623
11	CALIF INST OF TECH	D WEST	GSFC	T G PHILLIPS	NAG 5-2656	1624
11	CALIF INST OF TECH	D WEST	GSFC	L ARMUS	NAG 5-2657	1625
11	CALIF INST OF TECH	J P NORRIS	GSFC	L BILDSTEN	NAG 5-2666	1626
11	CALIF INST OF TECH	R PETRE	GSFC	T HANUTTON	NAG 5-2674	1627
11	CALIF INST OF TECH	D WEST	GSFC	E S PHINNEY	NAG 5-2756	1628
11	CALIF INST OF TECH	D WEST	GSFC	R D BLANDFORD	NAG 5-2757	1629
11	CALIF INST OF TECH	J P NORRIS	GSFC	H ZURIN	NAG 5-2761	1630
11	CALIF INST OF TECH	N WHITE	GSFC	L BILDSTEN	NAG 5-2768	1631
11	CALIF INST OF TECH	R PETRE	GSFC	L BILDSTEN	NAG 5-2929	1634
11	CALIF INST OF TECH	R PETRE	GSFC	F HARRISON	NAG 5-2956	1635
11	CALIF INST OF TECH	F C GILLETT	HQ	T G PHILLIPS	NAGW 107	1639
11	CALIF INST OF TECH	J H RAHE	HQ	D O MUHLEMAN	NAGW 1448	1642
11	CALIF INST OF TECH	G S LEVY	HQ	A I SARGENT	NAGW 1478	1643
11	CALIF INST OF TECH	J H RAHE	HQ	D O MUHLEMAN	NAGW 1499	1644
11	CALIF INST OF TECH	J T BERGSTRALH	HQ	Y L YUNG	NAGW 1509	1645
11	CALIF INST OF TECH	W V JONES	HQ	E C STONE	NAGW 1919	1646
11	CALIF INST OF TECH	J T BERGSTRALH	HQ	A P INGERSOLL	NAGW 1956	1650
11	CALIF INST OF TECH	G S KUTTER	HQ	B T SOIFER	NAGW 2144	1652
11	CALIF INST OF TECH	J A NUTH	HQ	A I SARGENT	NAGW 2196	1653
11	CALIF INST OF TECH	G S KUTTER	HQ	R D BLANDFORD	NAGW 2372	1659
11	CALIF INST OF TECH	G S KUTTER	HQ	E S PHINNEY	NAGW 2394	1660
11	CALIF INST OF TECH	L J CAROFF	HQ	G A BLAKE	NAGW 2813	1666
11	CALIF INST OF TECH	L J CAROFF	HQ	R D BLANDFORD	NAGW 2816	1667
11	CALIF INST OF TECH	R V STACHNIK	HQ	K S THORNE	NAGW 2897	1668
11	CALIF INST OF TECH	L J KALUZIENSKI	HQ	R D BLANFORD	NAGW 2920	1669
11	CALIF INST OF TECH	H C BRINTON	HQ	A I SARGENT	NAGW 3140	1674
11	CALIF INST OF TECH	G R RIEGLER	HQ	S KULKARNI	NAGW 3253	1676
11	CALIF INST OF TECH	H C BRINTON	HQ	E SARABYN	NAGW 3303	1678
11	CALIF INST OF TECH	J H RAHE	HQ	G NEUGEBAUER	NAGW 4011	1689
11	CALIF INST OF TECH	P ROGERS	HQ	A SARGENT	NAGW 4030	1691
11	CALIF INST OF TECH	T KOSTIUK	HQ	D S BURNETT	NAGW 4182	1694
11	CALIF INST OF TECH	P ROGERS	HQ	J E CARLSTROM	NAGW 4193	1695
11	CALIF INST OF TECH	R V STACHNIK	HQ	K S THORNE	NAGW 4268	1696
11	CALIF INST OF TECH	G R RIEGLER	HQ	T PRINCE	NAGW 4517	1698
11	CALIF INST OF TECH	J RAHE	HQ	D MUHLEMAN	NAGW 4562	1699
11	CALIF INST OF TECH	L J CAROFF	HQ	A E LANGE	NAGW 4623	1701
11	CALIF INST OF TECH	D A HOLLAND	HQ	A E LANGE	NAGW 4754	1704
11	CALIF INST OF TECH	D WEST	GSFC	T A PRINCE	NAS 5-32642	1709
11	CALIF INST OF TECH	R ALEMAN	GSFC	C MARTIN	NAS 5-38097	1710
11	CALIF INST OF TECH	J H RAHE	HQ	E STONE	NCCW 62	1711
11	CALIF INST OF TECH	J ALEXANDER	HQ	K G LIBBRECHT	NGT 00-050-818	1718
11	CALIF INST OF TECH	H ASHENAS	JPL	B C MURRAY	NGT 00-050-891	1720
11	CALIF INST OF TECH	D HOLLAND	HQ	D STEVENSON	NGT 00-051-071	1722
11	CALIF INST OF TECH	C HICKS	JPL	B C MURRAY	NGT 00-051-397	1729
11	CAL STATE U-L ANGLES	B L WHITE	HQ	H BOUSSALIS	NAGW 4103	1768
11	CAL STATE U-NRTHRDGE	R OLIVERSEN	GSFC	K CHENG	NAG 5-2744	1774
11	CAL STATE U-NRTHRDGE	D WEST	GSFC	K CHENG	NAG 5-2994	1775
11	CAL STATE U-NRTHRDGE	W J WAGNER	HQ	G A CHAPMAN	NAGW 3017	1776
11	CLAREMONT MCKENNA C	J P NORRIS	GSFC	J C HIGDON	NAG 5-2010	1783
11	CYPRESS COLLEGE	F SIX	MSFC	J CATANZARITE	NAG 8-998	1785
11	HARVEY MUDD COLLEGE	C D LAUGHLIN	ARC	A RUDOLPH	NAG 2-960	1791
11	POMONA COLLEGE	J P NORRIS	GSFC	A C ZOOK	NAG 5-2887	1798
11	SAN FRAN STATE UNIV	J K ALEXANDER	HQ	G W MARCY	NAGW 3182	1811

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11	SAN FRAN STATE UNIV	D P CRUIKSHANK	ARC	T L ROUSH	NCC 2-815	1814
11	SAN JOSE STATE UNIV	J I TROMBKA	GSFC	P ENGLERT	NAG 5-2354	1824
11	SAN JOSE STATE UNIV	R E YOUNG	ARC	A BRIDGER	NCA 2-784	1830
11	SAN JOSE STATE UNIV	R E YOUNG	ARC	A BRIDGER	NCA 2-785	1831
11	SAN JOSE STATE UNIV	R M HABERLE	ARC	A F BRIDGER	NCA 2-814	1832
11	SAN JOSE STATE UNIV	A BARNES	ARC	P HAMILL	NCC 2-687	1844
11	SAN JOSE STATE UNIV	P CASSEN	ARC	P HAMILL	NCC 2-5060	1854
11	SAN JOSE STATE UNIV	J N CUZZI	ARC	P HAMILL	NCC 2-5113	1864
11	SAN JOSE STATE UNIV	K J ZAHNLE	ARC	P HAMILL	NCC 2-5114	1865
11	SONOMA STATE UNIV	D WEST	GSFC	G G SPEAR	NAG 5-1621	1883
11	SONOMA STATE UNIV	R PETRE	GSFC	L R COMINSKY	NAG 5-1684	1884
11	SONOMA STATE UNIV	J P NORRIS	GSFC	L R COMINSKY	NAG 5-2032	1885
11	SONOMA STATE UNIV	N WHITE	GSFC	L COMINSKY	NAG 5-2948	1886
11	SONOMA STATE UNIV	P ROGERS	HQ	R WAGONER	NAGW 4155	1887
11	STANFORD UNIVERSITY	J N CUZZI	ARC	G L TYLER	NAG 2-673	1895
11	STANFORD UNIVERSITY	J N CUZZI	ARC	G L TYLER	NAG 2-894	1902
11	STANFORD UNIVERSITY	R C HARTMAN	GSFC	P MICHELSON	NAG 5-1605	1912
11	STANFORD UNIVERSITY	J P NORRIA	GSFC	R W ROMANI	NAG 5-2037	1913
11	STANFORD UNIVERSITY	R PETRE	GSFC	R ROMANI	NAG 5-2706	1915
11	STANFORD UNIVERSITY	J P NORRIS	GSFC	V PETROSIAN	NAG 5-2733	1916
11	STANFORD UNIVERSITY	A I POLAND	GSFC	P H SCHERRER	NAG 5-3077	1917
11	STANFORD UNIVERSITY	D E NOEVER	MSFC	M KASEVICH	NAG 8-1088	1919
11	STANFORD UNIVERSITY	J T BERGSTRALH	HQ	V R ESHLEMAN	NAGW 1971	1924
11	STANFORD UNIVERSITY	L J KALUZIENSKI	HQ	R ROMANI	NAGW 2963	1933
11	STANFORD UNIVERSITY	L J KALUZIENSKI	HQ	P F MICHELSON	NAGW 3489	1936
11	STANFORD UNIVERSITY	J RAHE	HQ	R WAGNER	NAGW 4262	1940
11	STANFORD UNIVERSITY	G R RIEGLER	HQ	R ROMANI	NAGW 4526	1943
11	STANFORD UNIVERSITY	J BERGSTRALH	HQ	G L TYLER	NAGW 4570	1944
11	STANFORD UNIVERSITY	J N CUZZI	ARC	A L TYLER	NCC 2-908	1974
11	STANFORD UNIVERSITY	R C HARTMAN	GSFC	P MICHELSON	NCC 5-95	2004
11	UNIV CALIF-BERKELEY	L C HAUGHNEY	ARC	C H TOWNES	NAG 2-208	2044
11	UNIV CALIF-BERKELEY	C D LAUGHLIN	ARC	R J SAYKALLY	NAG 2-858	2048
11	UNIV CALIF-BERKELEY	D WEST	GSFC	C HEILES	NAG 5-1230	2055
11	UNIV CALIF-BERKELEY	J MATHER	GSFC	G F SMOOT	NAG 5-1318	2056
11	UNIV CALIF-BERKELEY	D WEST	GSFC	J SILK	NAG 5-1360	2057
11	UNIV CALIF-BERKELEY	J P NORRIS	GSFC	K C HURLEY	NAG 5-1559	2058
11	UNIV CALIF-BERKELEY	J P NORRIS	GSFC	K C HURLEV	NAG 5-1560	2059
11	UNIV CALIF-BERKELEY	S SOBIESKI	GSFC	I KING	NAG 5-1607	2060
11	UNIV CALIF-BERKELEY	R PETRE	GSFC	K C HURLEY	NAG 5-1727	2061
11	UNIV CALIF-BERKELEY	R PETRE	GSFC	H SPINRAD	NAG 5-1818	2062
11	UNIV CALIF-BERKELEY	R PETRE	GSFC	S KAHN	NAG 5-1892	2063
11	UNIV CALIF-BERKELEY	D WEST	GSFC	CARONE	NAG 5-1988	2064
11	UNIV CALIF-BERKELEY	J P NORRIS	GSFC	R D TRIPP	NAG 5-2009	2065
11	UNIV CALIF-BERKELEY	D WEST	GSFC	COHEN	NAG 5-2015	2066
11	UNIV CALIF-BERKELEY	R PETRE	GSFC	J R GRAHAM	NAG 5-2088	2067
11	UNIV CALIF-BERKELEY	D WEST	GSFC	C S BOWYER	NAG 5-2135	2068
11	UNIV CALIF-BERKELEY	G SONNEBORN	GSFC	O H SIEGMUND	NAG 5-2304	2069
11	UNIV CALIF-BERKELEY	J NORRIS	GSFC	R P LIN	NAG 5-2351	2070
11	UNIV CALIF-BERKELEY	R OLIVERSEN	GSFC	S M KAHN	NAG 5-2378	2071
11	UNIV CALIF-BERKELEY	D WEST	GSFC	S M KAHN	NAG 5-2395	2072
11	UNIV CALIF-BERKELEY	R OLIVERSEN	GSFC	C S BOWYER	NAG 5-2405	2073
11	UNIV CALIF-BERKELEY	J P NORRIS	GSFC	D C BACKER	NAG 5-2430	2074
11	UNIV CALIF-BERKELEY	D WEST	GSFC	J SILK	NAG 5-2438	2075
11	UNIV CALIF-BERKELEY	M MUMMA	GSFC	S BOWYER	NAG 5-2452	2076
11	UNIV CALIF-BERKELEY	D WEST	GSFC	O SIEGMUND	NAG 5-2516	2077
11	UNIV CALIF-BERKELEY	G SONNEBORN	GSFC	R F MALINA	NAG 5-2555	2078
11	UNIV CALIF-BERKELEY	R OLIVERSEN	GSFC	K C HURLEY	NAG 5-2575	2079
11	UNIV CALIF-BERKELEY	N WHITE	GSFC	S KHAN	NAG 5-2586	2080
11	UNIV CALIF-BERKELEY	D WEST	GSFC	H SPINRAD	NAG 5-2619	2081
11	UNIV CALIF-BERKELEY	R OLIVERSEN	GSFC	J DUPUIS	NAG 5-2620	2082

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11	UNIV CALIF-BERKELEY	R OLIVERSEN	GSFC	M HURWITZ	NAG 5-2623	2083
11	UNIV CALIF-BERKELEY	R OLIVERSEN	GSFC	M MATHIODAKIS	NAG 5-2624	2084
11	UNIV CALIF-BERKELEY	R OLIVERSEN	GSFC	R LIEU	NAG 5-2625	2085
11	UNIV CALIF-BERKELEY	B J TEEGARDEN	GSFC	R P LIN	NAG 5-2635	2086
11	UNIV CALIF-BERKELEY	R J OLIVERSEN	GSFC	O H SIEGMOND	NAG 5-2641	2088
11	UNIV CALIF-BERKELEY	R OLLVERSEN	GSFC	J J DRAKE	NAG 5-2683	2089
11	UNIV CALIF-BERKELEY	N WHITE	GSFC	K HURLEY	NAG 5-2704	2090
11	UNIV CALIF-BERKELEY	D FAIRFIELD	GSFC	F S MOZER	NAG 5-2718	2091
11	UNIV CALIF-BERKELEY	D K WEST	GSFC	S E DEUSTUA	NAG 5-2804	2092
11	UNIV CALIF-BERKELEY	D WEST	GSFC	L BILDSTEN	NAG 5-2819	2094
11	UNIV CALIF-BERKELEY	D WHITE	GSFC	D BILDSTEN	NAG 5-2900	2096
11	UNIV CALIF-BERKELEY	N WHITE	GSFC	J DRAKE	NAG 5-2952	2097
11	UNIV CALIF-BERKELEY	R OLIVERSEN	GSFC	A FRUSCIONE	NAG 5-2978	2098
11	UNIV CALIF-BERKELEY	D WEST	GSFC	J J DRAKE	NAG 5-2993	2099
11	UNIV CALIF-BERKELEY	B J TEEGARDEN	GSFC	K C HURLEY	NAG 5-2997	2100
11	UNIV CALIF-BERKELEY	D WEST	GSFC	J SILK	NAG 5-3002	2101
11	UNIV CALIF-BERKELEY	D WEST	GSFC	M HURWITZ	NAG 5-3019	2102
11	UNIV CALIF-BERKELEY	N GEHRELS	GSFC	K C HURLEY	NAG 5-3074	2103
11	UNIV CALIF-BERKELEY	G C CLAYTON	HQ	O H SIEGMUND	NAGW 1290	2107
11	UNIV CALIF-BERKELEY	F C GILLETT	HQ	P L RICHARDS	NAGW 1352	2108
11	UNIV CALIF-BERKELEY	F C GILLETT	HQ	A E LANGE	NAGW 1597	2110
11	UNIV CALIF-BERKELEY	G CLAYTON	HQ	O SIEGMUND	NAGW 2029	2113
11	UNIV CALIF-BERKELEY	L J KALUZIENSKI	HQ	B SADOBLET	NAGW 2115	2115
11	UNIV CALIF-BERKELEY	G S KUTTER	HQ	J ARONS	NAGW 2413	2117
11	UNIV CALIF-BERKELEY	G S KUTTER	HQ	D S FINLEY	NAGW 2478	2119
11	UNIV CALIF-BERKELEY	G S KUTTER	HQ	S M KAHN	NAGW 2592	2121
11	UNIV CALIF-BERKELEY	L J KALUZIENSKI	HQ	S M KAHN	NAGW 2688	2123
11	UNIV CALIF-BERKELEY	J D RUMMEL	HQ	C S BOWYER	NAGW 2722	2124
11	UNIV CALIF-BERKELEY	J A NUTH	HQ	W WELCH	NAGW 2804	2126
11	UNIV CALIF-BERKELEY	H C BRINTON	HQ	H SPINRAD	NAGW 2883	2127
11	UNIV CALIF-BERKELEY	W L QUAIDE	HQ	P S MARCUS	NAGW 2986	2128
11	UNIV CALIF-BERKELEY	L J CAROFF	HQ	R J SAYKALLY	NAGW 2991	2129
11	UNIV CALIF-BERKELEY	L J KALUZIENSKI	HQ	R I KLEIN	NAGW 3027	2131
11	UNIV CALIF-BERKELEY	L LAPIANA	HQ	M COHEN	NAGW 3154	2133
11	UNIV CALIF-BERKELEY	G R RIEGLER	HQ	M COHEN	NAGW 3267	2134
11	UNIV CALIF-BERKELEY	R V STACHNIK	HQ	O H SIEGMUND	NAGW 3639	2140
11	UNIV CALIF-BERKELEY	R V STACHNIK	HQ	C S BOWYER	NAGW 3664	2141
11	UNIV CALIF-BERKELEY	L J KALUZIENSKI	HQ	P B SADOULET	NAGW 3802	2143
11	UNIV CALIF-BERKELEY	L J KALUZIENSKI	HQ	R P LIN	NAGW 3816	2144
11	UNIV CALIF-BERKELEY	R V STACHNIK	HQ	O H SIEGMUND	NAGW 3819	2145
11	UNIV CALIF-BERKELEY	R V STACHNIK	HQ	M L LAMPTON	NAGW 3823	2146
11	UNIV CALIF-BERKELEY	R V STACHNIK	HQ	J I SILK	NAGW 3827	2147
11	UNIV CALIF-BERKELEY	R V STACHNIK	HQ	B Y WELSH	NAGW 3845	2148
11	UNIV CALIF-BERKELEY	R A MULKEY	HQ	C W CARLSON	NAGW 3885	2150
11	UNIV CALIF-BERKELEY	J H RAHE	HQ	I DE PATER	NAGW 3917	2151
11	UNIV CALIF-BERKELEY	L J CAROFF	HQ	A E LANGE	NAGW 4095	2154
11	UNIV CALIF-BERKELEY	L S LAPIANA	HQ	C F MCKEE	NAGW 4111	2155
11	UNIV CALIF-BERKELEY	C MORROW	HQ	R MALINA	NAGW 4174	2156
11	UNIV CALIF-BERKELEY	L J KALUZIENSKI	HQ	S M KAHN	NAGW 4185	2157
11	UNIV CALIF-BERKELEY	R V STACHNIK	HQ	J EDELSTEIN	NAGW 4265	2159
11	UNIV CALIF-BERKELEY	J BERGSTRALH	HQ	J LUHMANN	NAGW 4600	2165
11	UNIV CALIF-BERKELEY	J BERGSTRALH	HQ	P MARCUS	NAGW 4645	2166
11	UNIV CALIF-BERKELEY	L J CAROFF	HQ	R J SAYKALLY	NAGW 4722	2167
11	UNIV CALIF-BERKELEY	R V STACHNIK	HQ	O H SIEGMUND	NAGW 4731	2168
11	UNIV CALIF-BERKELEY	A J MILLER	GSFC	R MALINA	NAS 5-29298	2171
11	UNIV CALIF-BERKELEY	A SMITH	GSFC	D HUNTEN	NAS 5-30180	2172
11	UNIV CALIF-BERKELEY	D WEST	GSFC	C CHRISTIAN	NAS 5-32698	2179
11	UNIV CALIF-BERKELEY	D WEST	GSFC	H W SIEGMUAL	NAS 5-32795	2180
11	UNIV CALIF-BERKELEY	A G TIELENS	ARC	I DE PATER	NCA 2-678	2181
11	UNIV CALIF-BERKELEY	A TIELENS	ARC	C MCKEE	NCA 2-826	2183

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11	UNIV CALIF-BERKELEY	F C WITTENBORN	ARC	C E HEILES	NCC 2-142	2185
11	UNIV CALIF-BERKELEY	D J HOLLENBACH	ARC	F H SHU	NCC 2-548	2187
11	UNIV CALIF-BERKELEY	A G TIELENS	ARC	I DE PATER	NCC 2-5083	2195
11	UNIV CALIF-BERKELEY	A G TIELENS	LARC	C F MCKEE	NCC 2-5129	2197
11	UNIV CALIF-BERKELEY	L J EARLY	GSFC	C S BOWYER	NGR 5-3450	2201
11	UNIV CALIF-BERKELEY	J ALEXANDER	HQ	H SPINRAD	NGT 00-050-921	2223
11	UNIV CALIF-BERKELEY	D HOLLAND	HQ	J R GRAHAM	NGT 00-051-082	2228
11	UNIV CALIF-BERKELEY	D HOLLAND	HQ	F H SHU	NGT 00-051-191	2229
11	UNIV CALIF-DAVIS	R PETRE	GSFC	R H BECKER	NAG 5-1876	2259
11	UNIV CALIF-DAVIS	J P NORRIS	GSFC	R H BECKER	NAG 5-2421	2260
11	UNIV CALIF-DAVIS	D WEST	GSFC	R H BECKER	NAG 5-2433	2261
11	UNIV CALIF-L ANGELES	R O FIMMEL	ARC	R J STRANGEWAY	NAG 2-485	2365
11	UNIV CALIF-L ANGELES	L E LASHER	ARC	C RUSSELL	NAG 2-501	2366
11	UNIV CALIF-L ANGELES	C D LAUGHLIN	ARC	M R MORRIS	NAG 2-799	2368
11	UNIV CALIF-L ANGELES	A I POLAND	GSFC	R K ULRICH	NAG 5-1166	2381
11	UNIV CALIF-L ANGELES	J MATHER	GSFC	E L WRIGHT	NAG 5-1309	2383
11	UNIV CALIF-L ANGELES	R PETRE	GSFC	M A MALKAN	NAG 5-1719	2387
11	UNIV CALIF-L ANGELES	D WEST	GSFC	L H ALLER	NAG 5-1799	2388
11	UNIV CALIF-L ANGELES	D WEST	GSFC	M A MALKAN	NAG 5-2140	2391
11	UNIV CALIF-L ANGELES	A SMITH	GSFC	M A JURA	NAG 5-2178	2392
11	UNIV CALIF-L ANGELES	J P NORRIS	GSFC	M A MALKIN	NAG 5-2417	2395
11	UNIV CALIF-L ANGELES	D WEST	GSFC	M J PLAVEC	NAG 5-2653	2397
11	UNIV CALIF-L ANGELES	D WEST	GSFC	M A MALKAN	NAG 5-3012	2401
11	UNIV CALIF-L ANGELES	F C GILLET	HQ	M A JURA	NAGW 80	2404
11	UNIV CALIF-L ANGELES	J BERGSTRAHL	HQ	G SCHUBERT	NAGW 1874	2409
11	UNIV CALIF-L ANGELES	L J CAROFF	HQ	E E BECKLIN	NAGW 3115	2433
11	UNIV CALIF-L ANGELES	J CAROFF	HQ	D B CLINE	NAGW 3993	2457
11	UNIV CALIF-L ANGELES	J BERGSTRALH	HQ	R WALKER	NAGW 4615	2470
11	UNIV CALIF-L ANGELES	P G ROGERS	HQ	A CHEZ	NAGW 4770	2471
11	UNIV CALIF-L ANGELES	D CROSBY	GSFC	C T RUSSELL	NAS 5-30373	2475
11	UNIV CALIF-L ANGELES	J K ALEXANDER	HQ	I S MCLEAN	NGT 00-050-807	2489
11	UNIV CALIF-L ANGELES	D WEST	GSFC	M J PLAVEC	NSG-5272	2496
11	UNIV CALIF-RIVERSIDE	J P NORRIS	GSFC	T J O'NEILL	NAG 5-2027	2497
11	UNIV CALIF-RIVERSIDE	J P NORRIS	GSFC	A D ZYCH	NAG 5-2044	2498
11	UNIV CALIF-RIVERSIDE	J P NORRIS	GSFC	D BHATTACHARYA	NAG 5-2824	2499
11	UNIV CALIF-RIVERSIDE	J P NORRIS	GSFC	O T TUMER	NAG 5-2825	2500
11	UNIV CALIF-RIVERSIDE	D WEST	GSFC	D BHATTACHARYA	NAG 5-3008	2501
11	UNIV CALIF-RIVERSIDE	L J KALUZIENSKI	HQ	A ZYCH	NAGW 1996	2505
11	UNIV CALIF-SAN DIEGO	J NORRIS	GSFC	R E LINGENFELTER	NAG 5-1597	2528
11	UNIV CALIF-SAN DIEGO	S SOBIESKI	GSFC	R HARMS	NAG 5-1630	2529
11	UNIV CALIF-SAN DIEGO	A SMITH	GSFC	E BEAVER	NAG 5-1858	2530
11	UNIV CALIF-SAN DIEGO	R PETRE	GSFC	R E ROTHSCHILD	NAG 5-1977	2535
11	UNIV CALIF-SAN DIEGO	D WEST	GSFC	Y REPHAELI	NAG 5-1995	2536
11	UNIV CALIF-SAN DIEGO	R PETRE	GSFC	R D COHEN	NAG 5-2059	2537
11	UNIV CALIF-SAN DIEGO	D WEST	GSFC	R D COHEN	NAG 5-2127	2538
11	UNIV CALIF-SAN DIEGO	R PETRE	GSFC	Y REPHAELI	NAG 5-2197	2539
11	UNIV CALIF-SAN DIEGO	J P NORRIS	GSFC	Y REPHAELI	NAG 5-2236	2540
11	UNIV CALIF-SAN DIEGO	M J SUAREZ	GSFC	R SOMERVILLE	NAG 5-2238	2541
11	UNIV CALIF-SAN DIEGO	J I TROMBKA	GSFC	J R ARNOLD	NAG 5-2333	2543
11	UNIV CALIF-SAN DIEGO	N WHITE	GSFC	D GRUBER	NAG 5-2479	2544
11	UNIV CALIF-SAN DIEGO	N WHITE	GSFC	R D COHEN	NAG 5-2517	2545
11	UNIV CALIF-SAN DIEGO	N WHITE	GSFC	D BAND	NAG 5-2741	2546
11	UNIV CALIF-SAN DIEGO	D WEST	GSFC	R E LINGENFELTER	NAG 5-2811	2547
11	UNIV CALIF-SAN DIEGO	R PETRE	GSFC	W TUCKER	NAG 5-2965	2548
11	UNIV CALIF-SAN DIEGO	D WEST	GSFC	G M FULLER	NAG 5-3062	2551
11	UNIV CALIF-SAN DIEGO	L J KALUZIENSKI	HQ	J L MATTESON	NAGW 449	2558
11	UNIV CALIF-SAN DIEGO	J T BERGSTRALH	HQ	D A MENDIS	NAGW 1502	2562
11	UNIV CALIF-SAN DIEGO	L J KALUZIENSKI	HQ	R E LINGENFELTER	NAGW 1970	2565
11	UNIV CALIF-SAN DIEGO	G S KUTTER	HQ	A M WOLFE	NAGW 2119	2568
11	UNIV CALIF-SAN DIEGO	J H RAHE	HQ	B JONES	NAGW 4073	2595

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11	UNIV CALIF-SAN DIEGO	H BRINTON	HQ	C JOHNSON	NAGW 4311	2598
11	UNIV CALIF-SAN DIEGO	P G ROGERS	HQ	K MARTI	NAGW 4422	2600
11	UNIV CALIF-SAN DIEGO	G R RIEGLER	HQ	D TYTLER	NAGW 4497	2601
11	UNIV CALIF-SAN DIEGO	R A SCHIFFER	HQ	F J VALERO	NAGW 4684	2603
11	UNIV CALIF-SAN DIEGO	W D DAVIS	GSFC	R E ROTHSCHILD	NAS 5-30720	2606
11	UNIV CALIF-SAN DIEGO	G J FISHMAN	MSFC	J L MATTESON	NAS 8-36081	2609
11	UNIV CALIF-S BARBARA	F C GILLETT	HQ	P M LUBIN	NAGW 1062	2655
11	UNIV CALIF-S BARBARA	L J CAROFF	HQ	P M LUBIN	NAGW 4051	2670
11	UNIV CALIF-S CRUZ	C D LAUGHLIN	ARC	D M RANK	NAG 2-813	2688
11	UNIV CALIF-S CRUZ	D WEST	GSFC	G H SMITH	NAG 5-1916	2691
11	UNIV CALIF-S CRUZ	J P NORRIS	GSFC	M HERANT	NAG 5-2073	2692
11	UNIV CALIF-S CRUZ	K M JAHODA	GSFC	J R PRIMACK	NAG 5-2262	2693
11	UNIV CALIF-S CRUZ	J P NORRIS	GSFC	G BLUMENTHAL	NAG 5-2808	2694
11	UNIV CALIF-S CRUZ	D WEST	GSFC	S E WOOSLEY	NAG 5-2843	2695
11	UNIV CALIF-S CRUZ	D WEST	GSFC	D N LIN	NAG 5-3059	2698
11	UNIV CALIF-S CRUZ	D WEST	GSFC	W G MATTHEWS	NAG 5-3060	2699
11	UNIV CALIF-S CRUZ	D WEST	GSFC	J R PRIMACK	NAG 5-3061	2700
11	UNIV CALIF-S CRUZ	M E NEIN	MSFC	G D ILLINGWORTH	NAG 8-932	2701
11	UNIV CALIF-S CRUZ	G S KUTTER	HQ	L E HERNQUIST	NAGW 2422	2703
11	UNIV CALIF-S CRUZ	G S KUTTER	HQ	S E WOOSLEY	NAGW 2525	2704
11	UNIV CALIF-S CRUZ	L J KALUZIENSKI	HQ	G R BLUMENTHAL	NAGW 3105	2705
11	UNIV CALIF-S CRUZ	P ROGERS	HQ	D LIN	NAGW 3988	2708
11	UNIV CALIF-S CRUZ	CAROFF	HQ	D KOO	NAGW 4037	2709
11	UNIV CALIF-S CRUZ	P G ROGERS	HQ	P BODENHEIMER	NAGW 4456	2711
11	UNIV CALIF-S CRUZ	G R RIEGLER	HQ	P GUHATHAKURTA	NAGW 4499	2712
11	UNIV CALIF-S CRUZ	J N CUZZI	ARC	P BODENHEIMER	NCA 2-746	2713
11	UNIV CALIF-S CRUZ	D J HOLLENBACH	ARC	P H BODENHEIMER	NCC 2-649	2715
11	UNIV CALIF-S CRUZ	B SMITH	ARC	L HERNQUIST	NCC 2-5005	2718
11	UNIV CALIF-S CRUZ	J BREGMAN	ARC	D R RANK	NCC 2-5013	2719
11	UNIV CALIF-S CRUZ	J B POLLACK	ARC	P BODENHEIMER	NCC 2-5044	2720
11	UNIV CALIF-S CRUZ	F C OWENS	HQ	L HERNQUIST	NGT 00-050-855	2722
11	UNIV SAN FRANCISCO	G BADHWAR	JSC	E V BENTON	NAG 9-727	2728
11	UNIV OF SOUTHERN CAL	D WEST	GSFC	G J PETERS	NAG 5-1296	2739
11	UNIV OF SOUTHERN CAL	J FISCHER	GSFC	E RHODES	NAG 5-2219	2740
11	UNIV OF SOUTHERN CAL	R OLIVERSON	GSFC	G J PETERS	NAG 5-2292	2741
11	UNIV OF SOUTHERN CAL	R OLIVERSEN	GSFC	G J PETERS	NAG 5-2313	2742
11	UNIV OF SOUTHERN CAL	J BERGSTRAHL	HQ	D L JUDGE	NAGW 1924	2747
11	UNIV OF SOUTHERN CAL	W L QUAIDE	HQ	D E SHEMANSKY	NAGW 2834	2749
11	UNIV OF SOUTHERN CAL	E C WHIPPLE	HQ	M GRUNTMAN	NAGW 3520	2754
11	UNIV OF SOUTHERN CAL	D WEST	GSFC	G J PETERS	NSG-5422	2776
11	UNIV COLORADO-BOLDR	C D LAUGHLIN	ARC	A L BETZ	NAG 2-753	2854
11	UNIV COLORADO-BOLDR	L E LASHER	ARC	L W ESPOSITO	NAG 2-861	2858
11	UNIV COLORADO-BOLDR	A G TIELENS	ARC	T P SNOW	NAG 2-916	2860
11	UNIV COLORADO-BOLDR	E F ERICKSON	ARC	J M SHULL	NAG 2-989	2862
11	UNIV COLORADO-BOLDR	D WEST	GSFC	T R AYRES	NAG 5-199	2873
11	UNIV COLORADO-BOLDR	Y KONDO	GSFC	A BROWN	NAG 5-985	2875
11	UNIV COLORADO-BOLDR	R PETRE	GSFC	A R BROWN	NAG 5-1792	2877
11	UNIV COLORADO-BOLDR	A SMITH	GSFC	J C BRANDT	NAG 5-1853	2878
11	UNIV COLORADO-BOLDR	R PETRE	GSFC	J T STOCKE	NAG 5-1857	2879
11	UNIV COLORADO-BOLDR	R PETRE	GSFC	Q WANG	NAG 5-1879	2880
11	UNIV COLORADO-BOLDR	R PETRE	GSFC	J L LINSKY	NAG 5-1887	2881
11	UNIV COLORADO-BOLDR	D WEST	GSFC	Q WANG	NAG 5-2014	2883
11	UNIV COLORADO-BOLDR	J P NORRIS	GSFC	M C BEGELMAN	NAG 5-2026	2884
11	UNIV COLORADO-BOLDR	R PETRE	GSFC	J LINSKY	NAG 5-2075	2885
11	UNIV COLORADO-BOLDR	D WEST	GSFC	J M SHULL	NAG 5-2122	2886
11	UNIV COLORADO-BOLDR	D WEST	GSFC	G C CLAYTON	NAG 5-2143	2887
11	UNIV COLORADO-BOLDR	D WEST	GSFC	P S CONTI	NAG 5-2147	2888
11	UNIV COLORADO-BOLDR	R OLIVERSEN	GSFC	A BROWN	NAG 5-2259	2890
11	UNIV COLORADO-BOLDR	R OLIVERSEN	GSFC	T R AYRES	NAG 5-2274	2891
11	UNIV COLORADO-BOLDR	R OLIVERSON	GSFC	J C GREEN	NAG 5-2283	2892

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11	UNIV COLORADO-BOLDR	R OLIVERSEN	GSFC	T P SNOW	NAG 5-2319	2894
11	UNIV COLORADO-BOLDR	R PETRE	GSFC	M GUEDEL	NAG 5-2372	2897
11	UNIV COLORADO-BOLDR	D WEST	GSFC	J BALLY	NAG 5-2383	2898
11	UNIV COLORADO-BOLDR	D WEST	GSFC	P S CONTI	NAG 5-2387	2899
11	UNIV COLORADO-BOLDR	R PETRE	GSFC	T R AYRES	NAG 5-2451	2900
11	UNIV COLORADO-BOLDR	D WEST	GSFC	J C GREEN	NAG 5-2469	2901
11	UNIV COLORADO-BOLDR	D WEST	GSFC	G S BURKS	NAG 5-2470	2902
11	UNIV COLORADO-BOLDR	J P NORRIS	GSFC	J M SHULL	NAG 5-2514	2903
11	UNIV COLORADO-BOLDR	R PETRE	GSFC	R A MCCRAY	NAG 5-2525	2904
11	UNIV COLORADO-BOLDR	N WHITE	GSFC	A BROWN	NAG 5-2530	2905
11	UNIV COLORADO-BOLDR	B CAMPBELL	GSFC	S C SOLOMON	NAG 5-2576	2908
11	UNIV COLORADO-BOLDR	N WHITE	GSFC	M BEGELMAN	NAG 5-2592	2912
11	UNIV COLORADO-BOLDR	R OLIVERSEN	GSFC	C D GARMANY	NAG 5-2596	2913
11	UNIV COLORADO-BOLDR	D WEST	GSFC	I R LITTLE-MARENIN	NAG 5-2597	2914
11	UNIV COLORADO-BOLDR	D WEST	GSFC	C GARMANY	NAG 5-2610	2915
11	UNIV COLORADO-BOLDR	R PETRE	GSFC	E ELLINGSON	NAG 5-2616	2916
11	UNIV COLORADO-BOLDR	J A SLAVIN	GSFC	D N BAKER	NAG 5-2633	2917
11	UNIV COLORADO-BOLDR	J A SLAVIN	GSFC	D N BAKER	NAG 5-2634	2918
11	UNIV COLORADO-BOLDR	N WHITE	GSFC	J LINSKY	NAG 5-2750	2922
11	UNIV COLORADO-BOLDR	D WEST	GSFC	A J HAMILTON	NAG 5-2797	2925
11	UNIV COLORADO-BOLDR	D WEST	GSFC	C HANSEN	NAG 5-2828	2926
11	UNIV COLORADO-BOLDR	R OLIVERSEN	GSFC	J L LINSKY	NAG 5-2891	2927
11	UNIV COLORADO-BOLDR	H J ZWALLY	GSFC	J WAHR	NAG 5-2977	2928
11	UNIV COLORADO-BOLDR	D WEST	GSFC	J W SHULL	NAG 5-3006	2929
11	UNIV COLORADO-BOLDR	D WEST	GSFC	J L LINSKY	NAG 5-3007	2930
11	UNIV COLORADO-BOLDR	A I POLAND	GSFC	A KIPLINGER	NAG 5-3038	2931
11	UNIV COLORADO-BOLDR	F SIX	MSFC	T SNOW	NAG 8-1091	2948
11	UNIV COLORADO-BOLDR	G C CLAYTON	HQ	J M SCHULL	NAGW 766	2954
11	UNIV COLORADO-BOLDR	J H RAHE	HQ	J C BRANDT	NAGW 1387	2961
11	UNIV COLORADO-BOLDR	L J KALUZIENSKI	HQ	J M SHULL	NAGW 1479	2964
11	UNIV COLORADO-BOLDR	J T BERGSTRALH	HQ	S R LEONE	NAGW 2438	2973
11	UNIV COLORADO-BOLDR	W QUAIDE	HQ	N M SCHNEIDER	NAGW 2484	2974
11	UNIV COLORADO-BOLDR	J H RAHE	HQ	N M SCNEIDER	NAGW 2492	2976
11	UNIV COLORADO-BOLDR	G S KUTTER	HQ	J T STOCKE	NAGW 2675	2979
11	UNIV COLORADO-BOLDR	R STACHNIK	HQ	R MCCRAY	NAGW 2900	2985
11	UNIV COLORADO-BOLDR	R STACHNIK	HQ	A BROWN	NAGW 2904	2986
11	UNIV COLORADO-BOLDR	L J CAROFF	HQ	A L BETZ	NAGW 2954	2988
11	UNIV COLORADO-BOLDR	W L QUAIDE	HQ	R T CLANCY	NAGW 2995	2991
11	UNIV COLORADO-BOLDR	L J KALUZIENSKI	HQ	M C BEGELMAN	NAGW 3016	2992
11	UNIV COLORADO-BOLDR	G R RIEGLER	HQ	E BRUGEL	NAGW 3192	2995
11	UNIV COLORADO-BOLDR	J D RUMMEL	HQ	A L BETZ	NAGW 3196	2996
11	UNIV COLORADO-BOLDR	H R MILLER	HQ	M C BEGELMAN	NAGW 3554	3004
11	UNIV COLORADO-BOLDR	R STACHNIK	HQ	J C GREEN	NAGW 3593	3006
11	UNIV COLORADO-BOLDR	C MORROW	HQ	J BENNETT	NAGW 3667	3008
11	UNIV COLORADO-BOLDR	R V STACHNIK	HQ	M C BEGELMAN	NAGW 3838	3011
11	UNIV COLORADO-BOLDR	R A MULKEY	HQ	A HAMILTON	NAGW 3898	3014
11	UNIV COLORADO-BOLDR	P ROGERS	HQ	M HORANYI	NAGW 4082	3020
11	UNIV COLORADO-BOLDR	R V STACHNIK	HQ	T SNOW	NAGW 4267	3025
11	UNIV COLORADO-BOLDR	R V STACHNIK	HQ	J C GREEN	NAGW 4271	3026
11	UNIV COLORADO-BOLDR	G R RIEGLER	HQ	P MALONEY	NAGW 4454	3031
11	UNIV COLORADO-BOLDR	G R RIEGLER	HQ	M NOWAK	NAGW 4484	3033
11	UNIV COLORADO-BOLDR	G R RIEGLER	HQ	T AYRES	NAGW 4529	3035
11	UNIV COLORADO-BOLDR	E BARKER	HQ	J BRANDT	NAGW 4579	3036
11	UNIV COLORADO-BOLDR	G R RIEGLER	HQ	J LINSKY	NAGW 4673	3040
11	UNIV COLORADO-BOLDR	R A STACHNIK	HQ	T P SNOW	NAGW 4725	3042
11	UNIV COLORADO-BOLDR	R J OLIVERSON	GSFC	B DOMIK	NAS 5-31860	3050
11	UNIV COLORADO-BOLDR	J ALEXANDER	HQ	P S CONTI	NGT 00-050-809	3092
11	UNIV COLORADO-BOLDR	D HOLLAND	HQ	N M SCHNEIDER	NGT 00-051-091	3107
11	UNIV COLORADO-BOLDR	D HOLLAND	HQ	J GREEN	NGT 00-051-283	3117
11	UNIV COLORADO-BOLDR	D HOLLAND	HQ	J STOCKE	NGT 00-051-291	3118

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11	UNIV COLORADO-BOLDR	M MOORE	ARC	D H GRINSPOON	NGT 00-051-294	3119
11	UNIV COLORADO-BOLDR	D HOLLAND	HQ	T P SNOW	NGT 00-051-380	3122
11	UNIV COLORADO-BOLDR	D WEST	GSFC	T P SNOW JR	NSG-5300	3134
11	UNIV COLORADO-BOLDR	L J EARLY	GSFC	T P SNOW JR.	NSG-5303	3135
11	UNIV OF DENVER	D WEST	GSFC	R E STENCEL	NAG 5-2103	3142
11	UNIV OF DENVER	K G CARPENTER	GSFC	R E STENCEL	NAG 5-2368	3143
11	UNIV OF DENVER	L J CAROFF	HQ	R E STENCEL	NAGW 3680	3145
11	UNIV OF DENVER	R GOLDBERG	GSFC	F WHITE	NAS 5-29311	3146
11	UNIV OF DENVER	D HOLLAND	HQ	R E STENCEL	NGT 00-051-290	3150
11	YALE UNIVERSITY	R PETRE	GSFC	C D BAILYN	NAG 5-1619	3179
11	YALE UNIVERSITY	J P NORRIS	GSFC	B E SCHAEFER	NAG 5-2775	3181
11	YALE UNIVERSITY	D WEST	GSFC	P DEMARQUE	NAG 5-2795	3182
11	YALE UNIVERSITY	D WEST	GSFC	C D BALLYN	NAG 5-2867	3183
11	YALE UNIVERSITY	G S KUTTER	HQ	C BAILYN	NAGW 2469	3187
11	YALE UNIVERSITY	G S KUTTER	HQ	P DEMARQUE	NAGW 2531	3188
11	YALE UNIVERSITY	R STACHNIK	HQ	A OEMLER	NAGW 3563	3189
11	YALE UNIVERSITY	L J CAROFF	HQ	D E PROBER	NAGW 3879	3190
11	YALE UNIVERSITY	F C OWENS	HQ	S SOFIA	NGT 00-050-651	3197
11	DELAWARE STATE COL	C R CHAPPELL	MSFC	P DIMARIC	NAG 8-248	3204
11	UNIV OF DELAWARE	R OLIVERSEN	GSFC	H L SHIPMAN	NAG 5-2365	3208
11	UNIV OF DELAWARE	D WEST	GSFC	H L SHIPMAN	NAG 5-2512	3209
11	UNIV OF DELAWARE	R OLIVERSEN	GSFC	H L SHIPMAN	NAG 5-2598	3210
11	UNIV OF DELAWARE	G S KUTTER	HQ	S P CWOCKI	NAGW 2624	3216
11	GEORGE WASHINGTON U	J B STEPHENS	MSFC	J M LOGSDON	NAG 8-788	3242
11	GEORGE WASHINGTON U	H C BRINTON	HQ	J M LOGSDON	NAGW 3295	3245
11	CATHOLIC UNIVERSITY	D WEST	GSFC	F C BRUHWEILER	NAG 5-1353	3294
11	CATHOLIC UNIVERSITY	A SMITH	GSFC	F C BRUHWEILER	NAG 5-1413	3295
11	CATHOLIC UNIVERSITY	A M SMITH	GSFC	C H LYU	NAG 5-1414	3296
11	CATHOLIC UNIVERSITY	R PETRE	GSFC	F BRUHWEILER	NAG 5-1580	3298
11	CATHOLIC UNIVERSITY	D WEST	GSFC	F BRUHWEILER	NAG 5-1783	3299
11	CATHOLIC UNIVERSITY	R S POLIDAN	GSFC	F C BRUHWEILER	NAG 5-2057	3300
11	CATHOLIC UNIVERSITY	R O LIVERSON	GSFC	F C BRUHWEILER	NAG 5-2284	3302
11	CATHOLIC UNIVERSITY	R R FISHER	GSFC	M GUHATHAKURTA	NAG 5-2881	3305
11	CATHOLIC UNIVERSITY	D OLIVERSEN	GSFC	C WEMTZ	NCC 5-83	3308
11	CATHOLIC UNIVERSITY	L ORWIG	GSFC	C WERNTZ	NSG-5066	3311
11	ECKERD COLLEGE	M H MOORE	GSFC	R L HUDSON	NAG 5-1843	3319
11	FLA INTERNATIONAL U	F SIX	MSFC	N MUNROE	NAG 8-283	3332
11	FLORIDA INST OF TECH	F SIX	MSFC	J D PATTERSON	NAG 8-195	3370
11	UNIV OF FLORIDA	C D LAUGHLIN	ARC	C M TELESCO	NAG 2-972	3461
11	UNIV OF FLORIDA	D WEST	GSFC	S F DERMOTT	NAG 5-2654	3468
11	UNIV OF FLORIDA	D WEST	GSFC	J N FRY	NAG 5-2835	3469
11	UNIV OF FLORIDA	F SIX	MSFC	S T GOTTESMAN	NAG 8-1092	3473
11	UNIV OF FLORIDA	F HORZ	JSC	S F DERMOTT	NAG 9-630	3474
11	UNIV OF FLORIDA	J T BERGSTRALH	HQ	B GUSTAFSON	NAGW 2482	3478
11	UNIV OF FLORIDA	L J CAROFF	HQ	M T VALA	NAGW 2957	3481
11	UNIV OF FLORIDA	L S LAPIANA	HQ	S F DERMOTT	NAGW 3237	3482
11	UNIV OF FLORIDA	J RAHE	HQ	T CARR	NAGW 4015	3485
11	UNIV OF FLORIDA	L J CAROFF	HQ	C TELESCO	NAGW 4201	3486
11	UNIV OF FLORIDA	T KOSTIUK	HQ	B S GUSTAFSON	NAGW 4705	3492
11	UNIV OF FLORIDA	J ALEXANDER	HQ	J H HUNTER	NGT 00-050-805	3510
11	UNIV OF FLORIDA	F C OWENS	HQ	R E WILSON	NGT 00-050-815	3511
11	UNIV OF FLORIDA	J K ALEXANDER	HQ	H CAMPINS	NGT 00-050-959	3512
11	UNIV OF FLORIDA	D HOLLAND	HQ	B S GUSTAFON	NGT 00-051-385	3516
11	UNIV OF FLORIDA	D K RUSSELL	HQ	T D CARR	NGT 00-070-332	3520
11	UNIV OF MIAMI	D K RUSSELL	HQ	K Y FUNG	NGT 00-090-268	3548
11	CLARK ATLANTA UNIV	J BERGSTRALH	HQ	S TAYAL	NAGW 4447	3587
11	GEORGIA INST OF TECH	D H BROCKER	ARC	P G STEFFES	NAG 2-700	3611
11	GEORGIA INST OF TECH	A F WHITAKER	GSFC	R A BOHLANDER	NAG 8-1156	3642
11	GEORGIA INST OF TECH	F C OWENS	HQ	W L CHAMEIDES	NGT 00-050-765	3679
11	GEORGIA STATE UNIV	D WEST	GSFC	W BAGNUOLO	NAG 5-1994	3715

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11	GEORGIA STATE UNIV	D WEST	GSFC	GIES	NAG 5-2148	3716
11	GEORGIA STATE UNIV	D WEST	GSFC	W G BAGNUOLO	NAG 5-2488	3717
11	GEORGIA STATE UNIV	D WEST	GSFC	D R GIES	NAG 5-2979	3718
11	GEORGIA STATE UNIV	R V STACHNIK	HQ	S T MANSON	NAGW 4280	3719
11	GEORGIA STATE UNIV	R V STACHNIK	HQ	H R MILLER	NAGW 4397	3720
11	KENNESAW STATE COLL.	F SIX	MSFC	T LAROSA	NAG 8-1107	3721
11	UNIV OF GEORGIA	R PETRE	GSFC	J P CAILLAULT	NAG 5-1610	3745
11	UNIV OF GEORGIA	R PETRE	GSFC	J S SHAW	NAG 5-2095	3746
11	UNIV OF GEORGIA	D WEST	GSFC	L MAGNANI	NAG 5-2409	3747
11	UNIV OF GEORGIA	D WEST	GSFC	L MAGNANI	NAG 5-2665	3748
11	UNIV OF GEORGIA	C R CHAPPELL	MSFC	J S SHAW	NAG 8-148	3749
11	UNIV OF HAWAII-MANOA	J P NORRIS	GSFC	R C CANFIELD	NAG 5-1574	3759
11	UNIV OF HAWAII-MANOA	D WEST	GSFC	D B SANDERS	NAG 5-1741	3760
11	UNIV OF HAWAII-MANOA	R PETRE	GSFC	R B TULLY	NAG 5-1752	3761
11	UNIV OF HAWAII-MANOA	R PETRE	GSFC	J P HENRY	NAG 5-1789	3762
11	UNIV OF HAWAII-MANOA	R PETRE	GSFC	J P HENRY	NAG 5-1880	3764
11	UNIV OF HAWAII-MANOA	R PETRE	GSFC	L L COWIE	NAG 5-1928	3765
11	UNIV OF HAWAII-MANOA	D WEST	GSFC	J P HENRY	NAG 5-1996	3766
11	UNIV OF HAWAII-MANOA	R PETRE	GSFC	T SIMON	NAG 5-2022	3767
11	UNIV OF HAWAII-MANOA	R PETRE	GSFC	K C CHAMBERS	NAG 5-2132	3768
11	UNIV OF HAWAII-MANOA	D WEST	GSFC	T SIMON	NAG 5-2150	3769
11	UNIV OF HAWAII-MANOA	R OLIVERSEN	GSFC	T SIMON	NAG 5-2275	3770
11	UNIV OF HAWAII-MANOA	N WHITE	GSFC	J P HENRY	NAG 5-2523	3772
11	UNIV OF HAWAII-MANOA	R PETRE	GSFC	I GIOIA	NAG 5-2594	3773
11	UNIV OF HAWAII-MANOA	R OLIVERSEN	GSFC	D C JEWITT	NAG 5-2631	3775
11	UNIV OF HAWAII-MANOA	V KUNDE	GSFC	T OWEN	NAG 5-2663	3776
11	UNIV OF HAWAII-MANOA	D WEST	GSFC	C WYNN-WILLIAMS	NAG 5-2675	3777
11	UNIV OF HAWAII-MANOA	D WEST	GSFC	J E BARNES	NAG 5-2836	3779
11	UNIV OF HAWAII-MANOA	F SIX	MSFC	W D HEACOX	NAG 8-994	3780
11	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	W J BELL	NAGW 802	3785
11	UNIV OF HAWAII-MANOA	F C GILLET	HQ	L L COWIE	NAGW 959	3786
11	UNIV OF HAWAII-MANOA	J RAHE	HQ	K J MEECH	NAGW 1897	3792
11	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	D B HALL	NAGW 1916	3793
11	UNIV OF HAWAII-MANOA	J H RAHE	HQ	D J THOLEN	NAGW 1991	3794
11	UNIV OF HAWAII-MANOA	J RAHE	HQ	T OWEN	NAGW 2650	3801
11	UNIV OF HAWAII-MANOA	W L QUAIDE	HQ	D C JEWITT	NAGW 2917	3802
11	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	D J THOLEN	NAGW 3044	3805
11	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	D J THOLEN	NAGW 3093	3806
11	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	B SMITH	NAGW 3099	3807
11	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	P G LUCEY	NAGW 3409	3812
11	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	P LUCEY	NAGW 3427	3813
11	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	D HALL	NAGW 3643	3818
11	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	P LUCEY	NAGW 3712	3820
11	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	B SMITH	NAGW 3818	3824
11	UNIV OF HAWAII-MANOA	J H RAHE	HQ	K MEECH	NAGW 3844	3825
11	UNIV OF HAWAII-MANOA	J H RAHE	HQ	D HALL	NAGW 3875	3826
11	UNIV OF HAWAII-MANOA	J RAHE	HQ	D JEWITT	NAGW 3900	3827
11	UNIV OF HAWAII-MANOA	L J CAROFF	HQ	D B SANDERS	NAGW 3938	3829
11	UNIV OF HAWAII-MANOA	J H RAHE	HQ	D JEWITT	NAGW 3973	3830
11	UNIV OF HAWAII-MANOA	E BARKER	HQ	D JEWITT	NAGW 4601	3833
11	UNIV OF HAWAII-MANOA	P ROGERS	HQ	F RODDIER	NAGW 4650	3834
11	UNIV OF HAWAII-MANOA	J F MCGARRY	GSFC	L MACKNIK	NAS 5-30535	3837
11	UNIV OF HAWAII-MANOA	J RAHE	HQ	D B HALL	NASW 4481	3841
11	UNIV OF HAWAII-MANOA	J ALEXANDER	HQ	J P HENRY	NGT 00-050-811	3847
11	UNIV OF HAWAII-MANOA	D HOLLAND	HQ	B LABONTE	NGT 00-051-124	3849
11	UNIV OF HAWAII-MANOA	D HOLLAND	HQ	B J LABONTE	NGT 00-051-286	3850
11	UNIV OF HAWAII-MANOA	D HOLLAND	HQ	D JEWITT	NGT 00-051-325	3851
11	UNIV OF HAWAII SYSTM	R PETRE	GSFC	E HU	NAG 5-2912	3854
11	UNIV OF HAWAII SYSTM	D WHITE	GSFC	D GIOIA	NAG 5-2914	3855
11	UNIV OF HAWAII SYSTM	J Y BERGSTRALH	HQ	D THOLEN	NAGW 4715	3858

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11	UNIV OF HAWAII SYSTM	D HOLLAND	HQ	D B SANDERS	NGT 00-051-387	3859
11	IDAHO STATE UNIV.	F SIX	MSFC	S JOHNSON	NAG 8-269	3860
11	NORTHWESTERN UNIV	D WEST	GSFC	D M MAYER	NAG 5-1801	3895
11	NORTHWESTERN UNIV	D WEST	GSFC	F YUSEF-ZADEH	NAG 5-2105	3898
11	NORTHWESTERN UNIV	D WEST	GSFC	M ULMER	NAG 5-2432	3900
11	NORTHWESTERN UNIV	D WEST	GSFC	D WANG	NAG 5-2716	3901
11	NORTHWESTERN UNIV	R PETRE	GSFC	Q WANG	NAG 5-2717	3902
11	NORTHWESTERN UNIV	J P NORRIS	GSFC	W R PURCELL	NAG 5-2822	3903
11	NORTHWESTERN UNIV	J P NORRIS	GSFC	D A GRABELSKY	NAG 5-2826	3904
11	NORTHWESTERN UNIV	J P NORRIS	GSFC	W R PURCELL	NAG 5-2883	3905
11	NORTHWESTERN UNIV	G S KUTTER	HQ	R E TAAM	NAGW 2526	3909
11	NORTHWESTERN UNIV	J K ALEXANDER	HQ	J B KETTERSON	NAGW 2859	3911
11	NORTHWESTERN UNIV	L J KALUZIENSKI	HQ	G S MILLER	NAGW 2935	3912
11	NORTHWESTERN UNIV	R STACHNIK	HQ	L S FINN	NAGW 2936	3913
11	NORTHWESTERN UNIV	R V STACHNIK	HQ	L S FINN	NAGW 4274	3917
11	UNIV OF CHICAGO	C D LAUGHLIN	ARC	D A HARPER	NAG 2-6004	3939
11	UNIV OF CHICAGO	G BULLOCK	GSFC	J A SIMPSON	NAG 5-706	3940
11	UNIV OF CHICAGO	D WEST	GSFC	D E WELTY	NAG 5-1434	3941
11	UNIV OF CHICAGO	J P NORRIS	GSFC	D Q LAMB	NAG 5-1454	3942
11	UNIV OF CHICAGO	R PETRE	GSFC	R ROSNER	NAG 5-1856	3944
11	UNIV OF CHICAGO	J P NORRIS	GSFC	J W TRURAN	NAG 5-2081	3946
11	UNIV OF CHICAGO	J P NORRIS	GSFC	P COPPI	NAG 5-2099	3947
11	UNIV OF CHICAGO	J C MATHER	GSFC	S S MEYER	NAG 5-2474	3950
11	UNIV OF CHICAGO	R F SILVERBERG	GSFC	S MEYER	NAG 5-2626	3951
11	UNIV OF CHICAGO	J P NORRIS	GSFC	J M QUASHNOCK	NAG 5-2660	3952
11	UNIV OF CHICAGO	J P NORRIS	GSFC	D Q LAMB	NAG 5-2687	3953
11	UNIV OF CHICAGO	D WEST	GSFC	A KONIGL	NAG 5-2766	3954
11	UNIV OF CHICAGO	D WEST	GSFC	J W TRURAN	NAG 5-2770	3955
11	UNIV OF CHICAGO	D WEST	GSFC	D Q LAMB	NAG 5-2868	3958
11	UNIV OF CHICAGO	J P NORRIS	GSFC	J W TRURAN	NAG 5-2898	3959
11	UNIV OF CHICAGO	R OLIVERSON	GSFC	V KASHYAP	NAG 5-2931	3960
11	UNIV OF CHICAGO	R OLIVERSEN	GSFC	A KONIGL	NAG 5-2976	3961
11	UNIV OF CHICAGO	D WEST	GSFC	S G TRURAN	NAG 5-3076	3963
11	UNIV OF CHICAGO	L J KALUZIENSKI	HQ	D Q LAMB JR	NAGW 830	3968
11	UNIV OF CHICAGO	G C CLAYTON	HQ	D N SCHRAMM	NAGW 1321	3970
11	UNIV OF CHICAGO	L J KALUZIENSKI	HQ	A KONIGL	NAGW 1636	3974
11	UNIV OF CHICAGO	G S KUTTER	HQ	A KOENIGL	NAGW 2379	3982
11	UNIV OF CHICAGO	W V JONES	HQ	P C FRISCH	NAGW 2610	3985
11	UNIV OF CHICAGO	L J CAROFF	HQ	R H HILDEBRAND	NAGW 3057	3986
11	UNIV OF CHICAGO	L S LAPIANA	HQ	D A HARPER	NAGW 3252	3991
11	UNIV OF CHICAGO	G R RIEGLER	HQ	P FRISCH	NAGW 4360	4002
11	UNIV OF CHICAGO	G R RIEGLER	HQ	D WELTY	NAGW 4445	4003
11	UNIV OF CHICAGO	R A STACHNIK	HQ	L M HOBBS	NAGW 4682	4006
11	UNIV OF CHICAGO	B F SMITH	ARC	R H MILLER	NCC 2-265	4011
11	UNIV OF CHICAGO	C D LAUGHLIN	ARC	D A HARPER JR	NGR14-1227	4013
11	UNIV OF CHICAGO	F C OWENS	HQ	D Q LAMB	NGT 00-050-778	4015
11	UNIV OF CHICAGO	M MOORE	ARC	R H HILDEBRAND	NGT 00-050-894	4017
11	UNIV OF CHICAGO	D HOLLAND	HQ	D Q LAMB	NGT 00-051-059	4020
11	UNIV OF CHICAGO	D HOLLAND	HQ	S MEYER	NGT 00-051-157	4023
11	UNIV OF CHICAGO	M MOORE	ARC	R HILDEBRAND	NGT 00-051-311	4025
11	UNIV OF CHICAGO	T L ROELLIG	ARC	C D DOWELL	NGT 2-52210	4028
11	UNIV OF CHICAGO	L C HAUGHNEY	ARC	R H HILDEBRAND	NSG-2057	4029
11	UNIV ILLINOIS-CHICGO	N WHITE	GSFC	Y CHU	NAG 5-2988	4039
11	UNIV ILLINOIS-URBANA	R PETRE	GSFC	Y H CHU	NAG 5-1900	4073
11	UNIV ILLINOIS-URBANA	D WEST	GSFC	Y H CHU	NAG 5-2112	4075
11	UNIV ILLINOIS-URBANA	R PETRE	GSFC	M MACLOW	NAG 5-2245	4078
11	UNIV ILLINOIS-URBANA	J R FISCHER	GSFC	D BALSARA	NAG 5-2667	4080
11	UNIV ILLINOIS-URBANA	D WEST	GSFC	Y H CHU	NAG 5-2679	4081
11	UNIV ILLINOIS-URBANA	D WEST	GSFC	F K LAMB	NAG 5-2925	4083
11	UNIV ILLINOIS-URBANA	F C GILLET	HQ	W D WATSON	NAGW 1104	4086

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11	UNIV ILLINOIS-URBANA	H C BRINTON	HQ	L E SNYDER	NAGW 1131	4087
11	UNIV ILLINOIS-URBANA	L J KALUZIENSKI	HQ	F K LAMB	NAGW 1583	4088
11	UNIV ILLINOIS-URBANA	G S KUTTER	HQ	J W TRURAN	NAGW 2421	4091
11	UNIV ILLINOIS-URBANA	G R RIEGLER	HQ	Y CHU	NAGW 4519	4096
11	UNIV ILLINOIS-URBANA	R A STACHNIK	HQ	E C SUTTON	NAGW 4724	4097
11	BALL STATE UNIVERSTY	D WEST	GSFC	R H KAITCHUCK	NAG 5-2501	4127
11	INDIANA U-BLOOMINGTN	B G BILLS	GSFC	M W HAMBURGER	NAG 5-1941	4136
11	INDIANA U-BLOOMINGTN	D WEST	GSFC	H N COHN	NAG 5-2781	4137
11	INDIANA U-BLOOMINGTN	G S KUTTER	HQ	H N COHN	NAGW 2400	4140
11	INDIANA U-BLOOMINGTN	L J KALUZIENSKI	HQ	D FRIESEL	NAGW 3718	4143
11	INDIANA U-SOUTH BEND	D WEST	GSFC	S N SHORE	NAG 5-2612	4151
11	PURDUE UNIVERSITY	J P NORRIS	GSFC	G H SEMBROSKI	NAG 5-1514	4181
11	PURDUE UNIVERSITY	R OLIVERSEN	GSFC	J P FINLEY	NAG 5-2391	4182
11	PURDUE UNIVERSITY	R PETRE	GSFC	J P FINLEY	NAG 5-2492	4183
11	PURDUE UNIVERSITY	N WHITE	GSFC	J FINLEY	NAG 5-2742	4184
11	PURDUE UNIVERSITY	H C BRINTON	HQ	T S ZWIER	NAGW 3019	4191
11	PURDUE UNIVERSITY	H C BRINTON	HQ	M E LIPSCHUTZ	NAGW 3396	4193
11	PURDUE UNIVERSITY	G SOFFEN	GSFC	HARSHVARDHAN	NGT 00-050-963	4216
11	ROSE-HULMAN INST TEC	D GLENAR	GSFC	R WAITE	NAG 5-2176	4226
11	VALPARISO UNIV	D WEST	GSFC	B J HRIVNAK	NAG 5-1223	4247
11	VALPARISO UNIV	D WEST	GSFC	B J HRIVNAK	NAG 5-2645	4248
11	VALPARISO UNIV	F SIX	MSFC	B J HRIVNAK	NAG 8-232	4249
11	DRAKE UNIVERSITY	D WEST	GSFC	A O MARSTON	NAG 5-2999	4250
11	IOWA STATE UNIV	Y KONDO	GSFC	L A WILLSON	NAG 5-707	4266
11	IOWA STATE UNIV	J P NORRIS	GSFC	R C LAMB	NAG 5-2047	4268
11	IOWA STATE UNIV	J A PEDELTY	GSFC	P N APPLETON	NAG 5-2286	4269
11	IOWA STATE UNIV	R PETRE	GSFC	P N APPLETON	NAG 5-2385	4270
11	IOWA STATE UNIV	D WEST	GSFC	L A WILLIAM	NAG 5-2830	4273
11	IOWA STATE UNIV	S COHN	GSFC	T C CHEN	NAG 5-2930	4274
11	UNIV OF IOWA	L E LASHER	ARC	J A VAN ALLEN	NAG 2-571	4294
11	UNIV OF IOWA	G BULLOCK	GSFC	L A FRANK	NAG 5-295	4297
11	UNIV OF IOWA	J P NORRIS	GSFC	R EDELSON	NAG 5-2422	4304
11	UNIV OF IOWA	D WEST	GSFC	R EDELSON	NAG 5-2521	4305
11	UNIV OF IOWA	N WHITE	GSFC	R EDELSON	NAG 5-2547	4306
11	UNIV OF IOWA	R PETRE	GSFC	R EDELSON	NAG 5-2637	4307
11	UNIV OF IOWA	D WEST	GSFC	J D FIX	NAG 5-2668	4308
11	UNIV OF IOWA	G BULLOCK	GSFC	W KURTH	NAG 5-2669	4309
11	UNIV OF IOWA	R MUSHOTZKY	GSFC	R EDELSON	NAG 5-2805	4311
11	UNIV OF IOWA	D NOEVER	MSFC	J GOREE	NAG 8-292	4314
11	UNIV OF IOWA	J WILLETT	HQ	W S KURTH	NAGW 4597	4333
11	UNIV OF IOWA	F WAINSCOTT	GSFC	L A FRANK	NAS 5-26858	4335
11	UNIV OF KANSAS	J T BERGSTRALH	HQ	T E CRAVENS	NAGW 1588	4368
11	UNIV OF KANSAS	R V STACHNIK	HQ	A L MELOTT	NAGW 3832	4373
11	CENTRE COLLEGE	M J HAGYARD	MSFC	J I KINEKE	NAG 8-1042	4400
11	MOREHEAD STATE UNIV	F SIX	MSFC	B MALPHRUS	NAG 8-1119	4402
11	NORTHERN KENTUCKY U.	F SIX	MSFC	M FALBO-KENKEL	NAG 8-990	4403
11	UNIV OF KENTUCKY	D WEST	GSFC	M ELITZUR	NAG 5-3010	4407
11	UNIV OF KENTUCKY	G R RIEGLER	HQ	G FERLAND	NAGW 3315	4408
11	UNIV OF KENTUCKY	R V STACHNIK	HQ	I SHLOSMAN	NAGW 3839	4410
11	UNIV OF KENTUCKY	A TIELENS	ARC	G FERLAND	NCC 2-5028	4411
11	WESTRN KENTUCKY UNIV	P J SAKIMOTO	GSFC	C H MCGRUDER	NAG 5-2595	4417
11	LA ST U&A&M COL-BRGE	D WEST	GSFC	J S DRILLING	NAG 5-71	4423
11	LA ST U&A&M COL-BRGE	D WEST	GSFC	D KOESTER	NAG 5-2113	4424
11	LA ST U&A&M COL-BRGE	D WEST	GSFC	J FRANK	NAG 5-2777	4425
11	LA ST U&A&M COL-BRGE	D WEST	GSFC	G CHANMUGAM	NAG 5-3082	4426
11	LA ST U&A&M COL-BRGE	J BERGSTRALH	HQ	Y K HO	NAGW 2033	4430
11	LA ST U&A&M COL-BRGE	G S KUTTER	HQ	J FRANK	NAGW 2447	4432
11	LA ST U&A&M COL-BRGE	L J KALUZIENSKI	HQ	M L CHERRY	NAGW 3744	4435
11	UNIV SOUTHWESTERN LA	W CAMPBELL	GSFC	N PISSINOU	NAG 5-2842	4495
11	U OF SOUTHERN MAINE	F SIX	MSFC		NAG 8-1004	4506

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11	BOWIE STATE COLLEGE	W CAMPBELL	GSFC	M MAREBOYANA	NAG 5-2829	4508
11	CHARLES CO COMM COL	J A NUTH	GSFC	G F KRAUSE	NAG 5-1377	4519
11	CHARLES CO COMM COL	J NUTH	GSFC	G KRAUSE	NCC 5-69	4520
11	JOHNS HOPKINS UNIV	R PETRE	GSFC	W BLAIR	NAG 5-1537	4531
11	JOHNS HOPKINS UNIV	R PETRE	GSFC	R BURG	NAG 5-1538	4532
11	JOHNS HOPKINS UNIV	S SOBIESKI	GSFC	W G FASTIE	NAG 5-1617	4534
11	JOHNS HOPKINS UNIV	D WEST	GSFC	H W MOOS	NAG 5-1676	4537
11	JOHNS HOPKINS UNIV	D WEST	GSFC	H W MOOS	NAG 5-1775	4538
11	JOHNS HOPKINS UNIV	D WEST	GSFC	W P BLAIR	NAG 5-1793	4539
11	JOHNS HOPKINS UNIV	R PETRE	GSFC	G A KRISS	NAG 5-1952	4540
11	JOHNS HOPKINS UNIV	R PETRE	GSFC	W P BLAIR	NAG 5-1953	4541
11	JOHNS HOPKINS UNIV	R PETRE	GSFC	T M HECKMAN	NAG 5-1991	4542
11	JOHNS HOPKINS UNIV	D WEST	GSFC	D D FELDMAN	NAG 5-2141	4545
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	H W MOOS	NAG 5-2276	4549
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	W P BLAIR	NAG 5-2298	4550
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	J N MURTHY	NAG 5-2299	4551
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	R B HENRY	NAG 5-2341	4552
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	R H BUSS	NAG 5-2342	4553
11	JOHNS HOPKINS UNIV	D WEST	GSFC	D L HALL	NAG 5-2390	4554
11	JOHNS HOPKINS UNIV	D WEST	GSFC	J N MURTHY	NAG 5-2398	4555
11	JOHNS HOPKINS UNIV	D WEST	GSFC	A SZALAY	NAG 5-2399	4556
11	JOHNS HOPKINS UNIV	D WEST	GSFC	J MORTHY	NAG 5-2454	4557
11	JOHNS HOPKINS UNIV	D WEST	GSFC	R H BUSS	NAG 5-2465	4558
11	JOHNS HOPKINS UNIV	D WEST	GSFC	D T HALL	NAG 5-2466	4559
11	JOHNS HOPKINS UNIV	J P NORRIS	GSFC	J H KROLIK	NAG 5-2478	4560
11	JOHNS HOPKINS UNIV	N WHITE	GSFC	T M HECKMAN	NAG 5-2548	4561
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	D T HALL	NAG 5-2622	4562
11	JOHNS HOPKINS UNIV	N WHITE	GSFC	R GRIFFITHS	NAG 5-2728	4563
11	JOHNS HOPKINS UNIV	M E ROSENTHAL	MSFC	R GIACCONI	NAG 8-1133	4567
11	JOHNS HOPKINS UNIV	G S KUTTER	HQ	R BURG	NAGW 2508	4578
11	JOHNS HOPKINS UNIV	J K ALEXANDER	HQ	D M RUST	NAGW 2866	4584
11	JOHNS HOPKINS UNIV	L J KALUZIENSKI	HQ	J H KROLIK	NAGW 3129	4589
11	JOHNS HOPKINS UNIV	G R REGLER	HQ	D NEUFELD	NAGW 3147	4590
11	JOHNS HOPKINS UNIV	G R RIEGLER	HQ	J KROLIK	NAGW 3156	4591
11	JOHNS HOPKINS UNIV	L J CAROFF	HQ	D A NEUFELD	NAGW 3183	4592
11	JOHNS HOPKINS UNIV	L KALUZIENSKI	HQ	R E GRIFFITHS	NAGW 3288	4593
11	JOHNS HOPKINS UNIV	R V STACHNIK	HQ	A S SZALAY	NAGW 3831	4599
11	JOHNS HOPKINS UNIV	R V STACHNIK	HQ	S CASERTANO	NAGW 3861	4600
11	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	R L MCNUTT	NAGW 3991	4601
11	JOHNS HOPKINS UNIV	D E NEW	HQ	T HECKMAN	NAGW 4025	4603
11	JOHNS HOPKINS UNIV	L J CAROFF	HQ	J A BAGGER	NAGW 4630	4616
11	JOHNS HOPKINS UNIV	R A STACHNIK	HQ	D W DUNHAM	NAGW 4716	4618
11	JOHNS HOPKINS UNIV	J H OWENS	MSFC	A F DAVIDSEN	NAS 5-27000	4623
11	JOHNS HOPKINS UNIV	E F THOMAS	GSFC	W MOOS	NAS 5-31248	4625
11	JOHNS HOPKINS UNIV	D WEST	GSFC	L TAFF	NAS 5-32914	4628
11	UNIV MARYLAND-COL PK	L C HAUGHNEY	ARC	L G MUNDY	NAG 2-557	4664
11	UNIV MARYLAND-COL PK	L E LASHER	ARC	F B MCDONALD	NAG 2-627	4665
11	UNIV MARYLAND-COL PK	C D LAUGHLIN	ARC	J E HOWE	NAG 2-856	4669
11	UNIV MARYLAND-COL PK	G BULLOCK	GSFC	G GLOECKLER	NAG 5-705	4680
11	UNIV MARYLAND-COL PK	T KOSTIUK	GSFC	J D TRASCO	NAG 5-1134	4685
11	UNIV MARYLAND-COL PK	D WEST	GSFC	M A A'HEARN	NAG 5-1272	4686
11	UNIV MARYLAND-COL PK	N LAI	GSFC	F MCDONALD	NAG 5-1299	4687
11	UNIV MARYLAND-COL PK	J P NORRIS	GSFC	M R KUNDU	NAG 5-1450	4689
11	UNIV MARYLAND-COL PK	J R HEIRTZLER	GSFC	R A BELL	NAG 5-1694	4691
11	UNIV MARYLAND-COL PK	B PUTNEY	GSFC	R A BELL	NAG 5-1695	4692
11	UNIV MARYLAND-COL PK	C J CRANNELL	GSFC	M R KUNDU	NAG 5-2001	4699
11	UNIV MARYLAND-COL PK	R PETRE	GSFC	V L TRIMBLE	NAG 5-2011	4701
11	UNIV MARYLAND-COL PK	D WEST	GSFC	M F A'HEARN	NAG 5-2093	4702
11	UNIV MARYLAND-COL PK	J TUELLER	GSFC	M LEVENTHAL	NAG 5-2296	4707
11	UNIV MARYLAND-COL PK	J NORRIS	GSFC	M J ASCHWANDEN	NAG 5-2352	4711

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11	UNIV MARYLAND-COL PK	R OLIVERSEN	HQ	S M WHITE	NAG 5-2364	4714
11	UNIV MARYLAND-COL PK	R OLIVERSEN	GSFC	S D VRTILEK	NAG 5-2374	4716
11	UNIV MARYLAND-COL PK	J P NORRIS	GSFC	M LEVENTHAL	NAG 5-2380	4717
11	UNIV MARYLAND-COL PK	N GAHRELS	GSFC	M LEVENTHAL	NAG 5-2386	4718
11	UNIV MARYLAND-COL PK	S S HOLT	GSFC	J D TRASKO	NAG 5-2400	4720
11	UNIV MARYLAND-COL PK	R PETRE	GSFC	S D VRTILEK	NAG 5-2429	4722
11	UNIV MARYLAND-COL PK	D WEST	GSFC	S VITILEK	NAG 5-2500	4724
11	UNIV MARYLAND-COL PK	N WHITE	GSFC	S M WHITE	NAG 5-2531	4725
11	UNIV MARYLAND-COL PK	N WHITE	GSFC	S D VRTILEK	NAG 5-2532	4726
11	UNIV MARYLAND-COL PK	R STREITMATTER	GSFC	F MCDONALD	NAG 5-2604	4728
11	UNIV MARYLAND-COL PK	R PETRE	GSFC	A WILCOX	NAG 5-2640	4729
11	UNIV MARYLAND-COL PK	D WEST	GSFC	L BLITZ	NAG 5-2676	4732
11	UNIV MARYLAND-COL PK	A POLAND	GSFC	F IPAVICH	NAG 5-2754	4733
11	UNIV MARYLAND-COL PK	J NORRIS	GSFC	D M SMITH	NAG 5-2764	4734
11	UNIV MARYLAND-COL PK	N WHITE	GSFC	J HARRINGTON	NAG 5-2769	4735
11	UNIV MARYLAND-COL PK	J P NORRIS	GSFC	S M WHITE	NAG 5-2885	4742
11	UNIV MARYLAND-COL PK	D WEST	GSFC	J M STONE	NAG 5-2886	4743
11	UNIV MARYLAND-COL PK	J TUELLER	GSFC	M LEVERTHAL	NAG 5-3047	4748
11	UNIV MARYLAND-COL PK	M E ROSENTHAL	MSFC	A S WILSON	NAG 8-1027	4750
11	UNIV MARYLAND-COL PK	H C BRINTON	HQ	M F A'HEARN	NAGW 902	4751
11	UNIV MARYLAND-COL PK	J H RAHE	HQ	M F A'HEARN	NAGW 1886	4758
11	UNIV MARYLAND-COL PK	J A KAYE	HQ	R D HUDSON	NAGW 2696	4766
11	UNIV MARYLAND-COL PK	W L QUAIDE	HQ	M F A'HEARN	NAGW 2952	4771
11	UNIV MARYLAND-COL PK	G C BRINTON	HQ	A W GROSSMAN	NAGW 3309	4777
11	UNIV MARYLAND-COL PK	R V STACHNIK	HQ	J RICHARD	NAGW 3640	4784
11	UNIV MARYLAND-COL PK	L J KALUZIENSKI	HQ	R SAGDEEV	NAGW 3791	4789
11	UNIV MARYLAND-COL PK	J H RAHE	HQ	A GROSSMAN	NAGW 4010	4791
11	UNIV MARYLAND-COL PK	J H RAHE	HQ	L MCFADDEN	NAGW 4070	4793
11	UNIV MARYLAND-COL PK	H HASAN	HQ	D CURRIE	NAGW 4269	4798
11	UNIV MARYLAND-COL PK	R V STACHNIK	HQ	V TRIMBLE	NAGW 4670	4810
11	UNIV MARYLAND-COL PK	G R RIEGLER	HQ	P A WILSON	NAGW 4700	4811
11	UNIV MARYLAND-COL PK	F EINAUDI	GSFC	R D HUDSON	NCC 5-55	4833
11	UNIV MARYLAND-COL PK	S COHEN	GSFC	M SCHAEFER	NCC 5-59	4835
11	UNIV MARYLAND-COL PK	P MC CLAIN	GSFC	E C PAVLIS	NCC 5-60	4836
11	UNIV MARYLAND-COL PK	J A NUTH	GSFC	J R KHANNA	NCC 5-87	4840
11	UNIV MARYLAND-COL PK	T KOSTIUK	GSFC	J D TRASCO	NCC 5-94	4841
11	UNIV MARYLAND-COL PK	G FISHMAN	MSFC	R SAGDEEV	NCC 8-25	4842
11	UNIV MARYLAND-COL PK	G J FISHMAN	MSFC	I M MITROFANOV	NCC 8-70	4843
11	UNIV MARYLAND-COL PK	M BURRELL	GSFC	R MUSHOTZKY	NGT 00-051-096	4862
11	UNIV MARYLAND-COL PK	J T LYNCH	HQ	H R BOROSON	NGT 00-060-010	4866
11	UNIV MARYLAND-COL PK	G A SOFFEN	GSFC	J A GOODMAN	NGT 5-1	4868
11	UNIV MARYLAND-COL PK	G A SOFFEN	GSFC	R A BELL	NGT 5-2	4869
11	BOSTON UNIVERSITY	J NORRIS	GSFC	A P MARSCHER	NAG 5-1566	4909
11	BOSTON UNIVERSITY	R PETRE	GSFC	A P MARSCHER	NAG 5-1943	4910
11	BOSTON UNIVERSITY	D WEST	GSFC	D P CLEMENS	NAG 5-1997	4911
11	BOSTON UNIVERSITY	J P NORRIS	GSFC	J M JACKSON	NAG 5-2028	4912
11	BOSTON UNIVERSITY	D WEST	GSFC	S CHAKRABARTI	NAG 5-2260	4913
11	BOSTON UNIVERSITY	J P NORRIS	GSFC	A P MARSCHER	NAG 5-2508	4915
11	BOSTON UNIVERSITY	D WEST	GSFC	J M JACKSON	NAG 5-2643	4917
11	BOSTON UNIVERSITY	J H RAHE	HQ	M MENDILLO	NAGW 3876	4926
11	BOSTON UNIVERSITY	L J CAROFF	HQ	J M JACKSON	NAGW 4024	4929
11	BOSTON UNIVERSITY	J BERGSTRALH	HQ	G SISCOE	NAGW 4196	4931
11	BOSTON UNIVERSITY	D HOLLAND	HQ	S CHAKRABARTI	NGT 00-051-333	4940
11	HARVARD UNIVERSITY	R PETRE	GSFC	J E GRINDLAY	NAG 5-1624	4961
11	HARVARD UNIVERSITY	J P NORRIS	GSFC	J E GRINDLAY	NAG 5-1690	4962
11	HARVARD UNIVERSITY	J NORRIS	GSFC	R NARAYAN	NAG 5-1904	4963
11	HARVARD UNIVERSITY	J P NORRIS	GSFC	P THADDEUS	NAG 5-2076	4964
11	HARVARD UNIVERSITY	J P NORRIS	GSFC	R NARAYAN	NAG 5-2077	4965
11	HARVARD UNIVERSITY	J P NORRIS	GSFC	J E GRINDLAY	NAG 5-2243	4966
11	HARVARD UNIVERSITY	D WEST	GSFC	R P KIRSHNER	NAG 5-2305	4968

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FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
11	HARVARD UNIVERSITY	D WEST	GSFC	R KIRSHNER	NAG 5-2487	4969
11	HARVARD UNIVERSITY	J P NORRIS	GSFC	J E GRINDLAY	NAG 5-2763	4972
11	HARVARD UNIVERSITY	D WEST	GSFC	W H PARKINSON	NAG 5-3020	4975
11	HARVARD UNIVERSITY	D WEST	GSFC	R DISTEFANO	NAG 5-3022	4976
11	HARVARD UNIVERSITY	J VARGAS	MSFC	J E TRINDLEY	NAG 8-1034	4977
11	HARVARD UNIVERSITY	L J KALUZIENSKI	HQ	J GRINDLAY	NAGW 624	4979
11	HARVARD UNIVERSITY	J D RUMMEL	HQ	P HOROWITZ	NAGW 2872	4989
11	HARVARD UNIVERSITY	G R RIEGLER	HQ	J GRINDLAY	NAGW 3280	4992
11	HARVARD UNIVERSITY	L J KALUZIENSKI	HQ	M NAHUM	NAGW 4170	4995
11	HARVARD UNIVERSITY	D A HOLLAND	HQ	M NAHUM	NAGW 4781	4997
11	HARVARD UNIVERSITY	D WEST	GSFC	W H PARKINSON	NAG 5-32587	5000
11	HARVARD UNIVERSITY	F C OWENS	HQ	I I SHAPIRO	NGT 00-050-663	5017
11	HARVARD UNIVERSITY	J ALEXANDER	HQ	M J GELLER	NGT 00-050-814	5019
11	HARVARD UNIVERSITY	F C OWENS	HQ	J P HOUCRA	NGT 00-050-819	5020
11	HARVARD UNIVERSITY	F C OWENS	HQ	F K THIELEMANN	NGT 00-050-851	5021
11	HARVARD UNIVERSITY	J K ALEXANDER	HQ	R P KIRSHNER	NGT 00-050-994	5024
11	HARVARD UNIVERSITY	J LYNCH	HQ	R KIRSHNER	NGT 00-051-081	5026
11	HARVARD UNIVERSITY	M MOORE	ARC	R KIRSHNER	NGT 00-051-312	5028
11	HARVARD UNIVERSITY	D HOLLAND	HQ	M J GELLER	NGT 00-051-336	5029
11	MASS INST OF TECH	J N CUZZI	ARC	J L ELLIOT	NAG 2-855	5056
11	MASS INST OF TECH	G BULLOCK	GSFC	A J LAZARUS	NAG 5-584	5087
11	MASS INST OF TECH	J MATHER	GSFC	R WEISS	NAG 5-1314	5088
11	MASS INST OF TECH	R PETRE	GSFC	A M LEVINE	NAG 5-1625	5091
11	MASS INST OF TECH	R PETRE	GSFC	G W CLARK	NAG 5-1656	5092
11	MASS INST OF TECH	R PETRE	GSFC	G R RICKER	NAG 5-1682	5093
11	MASS INST OF TECH	R PETRE	GSFC	R A REMILLARD	NAG 5-1784	5094
11	MASS INST OF TECH	R PETRE	GSFC	W H LEWIN	NAG 5-1826	5095
11	MASS INST OF TECH	R PETRE	GSFC	C R CANIZARES	NAG 5-1865	5096
11	MASS INST OF TECH	R PETRE	GSFC	C R CANIZARES	NAG 5-1951	5101
11	MASS INST OF TECH	J P NORRIS	GSFC	W H LEWIN	NAG 5-2046	5102
11	MASS INST OF TECH	J P NORRIS	GSFC	G R RICKER	NAG 5-2165	5103
11	MASS INST OF TECH	D E SMITH	GSFC	G H PETTENGILL	NAG 5-2185	5104
11	MASS INST OF TECH	R PETRE	GSFC	T H MARKERT	NAG 5-2230	5105
11	MASS INST OF TECH	D WEST	GSFC	K SEMBACH	NAG 5-2536	5108
11	MASS INST OF TECH	N WHITE	GSFC	G W CLARK	NAG 5-2540	5109
11	MASS INST OF TECH	N WHITE	GSFC	M W BAUTE	NAG 5-2541	5110
11	MASS INST OF TECH	N WHITE	GSFC	T H MARKERT	NAG 5-2542	5111
11	MASS INST OF TECH	R PETRE	GSFC	P JOSS	NAG 5-2632	5114
11	MASS INST OF TECH	N WHITE	GSFC	S RAPPAPORT	NAG 5-2661	5115
11	MASS INST OF TECH	N WHITE	GSFC	G RICKER	NAG 5-2685	5116
11	MASS INST OF TECH	N WHITE	GSFC	W LEWIS	NAG 5-2734	5117
11	MASS INST OF TECH	N WHITE	GSFC	D HUENEMOERDER	NAG 5-2740	5118
11	MASS INST OF TECH	D WEST	GSFC	E BERTSCHINGER	NAG 5-2816	5120
11	MASS INST OF TECH	D WEST	GSFC	S A RAPPAPORT	NAG 5-2890	5122
11	MASS INST OF TECH	R E DONNELLY	MSFC	G R RICKER	NAG 5-2899	5123
11	MASS INST OF TECH	N WHITES	GSFC	D CANIZARES	NAG 5-2921	5125
11	MASS INST OF TECH	D WEST	GSFC	W H LEWIN	NAG 5-3009	5127
11	MASS INST OF TECH	J VARGAS	MSFC	S RAPPAPORT	NAG 8-285	5129
11	MASS INST OF TECH	J VARGAS	MSFC	W H LEWIN	NAG 8-286	5130
11	MASS INST OF TECH	C PILCHER	HQ	B I BURKE	NAGW 1386	5154
11	MASS INST OF TECH	J H RAHE	HQ	R BINZEL	NAGW 1450	5155
11	MASS INST OF TECH	J H RAHE	HQ	J L ELLIOT	NAGW 1494	5156
11	MASS INST OF TECH	L J KALUZIENSKI	HQ	P C JOSS	NAGW 1545	5158
11	MASS INST OF TECH	L J KALUZIENSKI	HQ	G CLARK	NAGW 2003	5165
11	MASS INST OF TECH	L J KALUZIENSKI	HQ	G RICKER	NAGW 2089	5169
11	MASS INST OF TECH	J T BERGSTRALH	HQ	J I STEINFELD	NAGW 2387	5176
11	MASS INST OF TECH	L J CAROFF	HQ	E BERTSCHINGER	NAGW 2807	5180
11	MASS INST OF TECH	W L QUAIDE	HQ	T E DOWLING	NAGW 2956	5182
11	MASS INST OF TECH	H C BRINTON	HQ	J L ELLIOT	NAGW 3296	5184
11	MASS INST OF TECH	H C BRINTON	HQ	H B HAMMEL	NAGW 3310	5185

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11	MASS INST OF TECH	R V STACHNIK	HQ	D P HUENEMOERDER	NAGW 3422	5186
11	MASS INST OF TECH	J A RAHE	HQ	R BINZEL	NAGW 3901	5192
11	MASS INST OF TECH	J BERGSTRALH	HQ	P FORD	NAGW 4621	5205
11	MASS INST OF TECH	W DAVIS	GSFC	H BRADT	NAS 5-30612	5216
11	MASS INST OF TECH	N B CUMINGS	MSFC	G RICKER	NAS 8-37716	5222
11	MASS INST OF TECH	C E WINKLER	MSFC	C R CANIZARES	NAS 8-38249	5223
11	TUFTS UNIVERSITY	R V STACHNIK	HQ	R A GONSALES	NAGW 3577	5275
11	UNIV OF MASS-AMHERST	D WEST	GSFC	R L SNELL	NAG 5-1288	5288
11	UNIV OF MASS-AMHERST	D WEST	GSFC	M WEINBERG	NAG 5-1999	5289
11	UNIV OF MASS-AMHERST	D WEST	GSFC	E F LADD	NAG 5-2713	5290
11	UNIV OF MASS-AMHERST	D WEST	GSFC	M D WEINBERG	NAG 5-2873	5291
11	UNIV OF MASS-AMHERST	D WEST	GSFC	S A RAPPAPORT	NAG 5-3011	5292
11	UNIV OF MASS-AMHERST	D WEST	GSFC	M H HEYER	NAG 5-3013	5293
11	UNIV OF MASS-AMHERST	J H RAHE	HQ	S E STROM	NAGW 1417	5297
11	UNIV OF MASS-AMHERST	J H RAHE	HQ	F P SCHLOERB	NAGW 1483	5298
11	UNIV OF MASS-AMHERST	G S LEVY	HQ	M SKRUTSKIE	NAGW 1935	5299
11	UNIV OF MASS-AMHERST	G R RIEGLER	HQ	J YOUNG	NAGW 3809	5305
11	UNIV OF MASS-AMHERST	L LAPIANA	HQ	M SKRUTSKIE	NCCW 67	5310
11	WELLESLEY COLLEGE	J N CUZZI	ARC	R G FRENCH	NAG 2-814	5317
11	MICHIGAN STATE UNIV	R PETRE	GSFC	T C BEERS	NAG 5-2434	5350
11	MICHIGAN STATE UNIV	R J OLIVERSEN	GSFC	S L HAWLEY	NAG 5-2621	5352
11	UNIV MICH-ANN ARBOR	F M CURREN	LERC	A D GALLIMORE	NAG 3-1504	5396
11	UNIV MICH-ANN ARBOR	D WEST	GSFC	T J CLARKE	NAG 5-1030	5402
11	UNIV MICH-ANN ARBOR	R PETRE	GSFC	J N BREGMAN	NAG 5-1658	5403
11	UNIV MICH-ANN ARBOR	R PETRE	GSFC	J N BREGMAN	NAG 5-1955	5406
11	UNIV MICH-ANN ARBOR	J P NORRIS	GSFC	M FATUZZO	NAG 5-2071	5407
11	UNIV MICH-ANN ARBOR	D WEST	GSFC	M R COMBI	NAG 5-2110	5408
11	UNIV MICH-ANN ARBOR	D WEST	GSFC	M R COMBI	NAG 5-2397	5410
11	UNIV MICH-ANN ARBOR	R PETRE	GSFC	A E EVRARD	NAG 5-2457	5411
11	UNIV MICH-ANN ARBOR	D WEST	GSFC	W HARRIS	NAG 5-2458	5412
11	UNIV MICH-ANN ARBOR	D WEST	GSFC	G E BALLESTER	NAG 5-2459	5413
11	UNIV MICH-ANN ARBOR	J P NORRIS	GSFC	C W AKERLOF	NAG 5-2506	5414
11	UNIV MICH-ANN ARBOR	R PETRE	GSFC	D O RICHSTONE	NAG 5-2522	5415
11	UNIV MICH-ANN ARBOR	R CAMPBELL	GSFC	J KOZYRA	NAG 5-2552	5416
11	UNIV MICH-ANN ARBOR	R J OLIVERSEN	GSFC	R J NICIEJENSKI	NAG 5-2649	5417
11	UNIV MICH-ANN ARBOR	N WHITE	GSFC	J BREGMAN	NAG 5-2732	5418
11	UNIV MICH-ANN ARBOR	D WEST	GSFC	D O RICHSTONE	NAG 5-2758	5420
11	UNIV MICH-ANN ARBOR	D WEST	GSFC	A E EVRARD	NAG 5-2790	5421
11	UNIV MICH-ANN ARBOR	D WEST	GSFC	F C ADAMS	NAG 5-2869	5422
11	UNIV MICH-ANN ARBOR	W WEST	GSFC	G E BALLESTER	NAG 5-3044	5425
11	UNIV MICH-ANN ARBOR	J T BERGSTRALH	HQ	T I GOMBOSI	NAGW 1366	5433
11	UNIV MICH-ANN ARBOR	J T BERGSTRALH	HQ	J T CLARKE	NAGW 1766	5436
11	UNIV MICH-ANN ARBOR	J T BERGSTRALH	HQ	S ATREYA	NAGW 1771	5437
11	UNIV MICH-ANN ARBOR	J BERGSTRALH	HQ	M R COMBI	NAGW 1907	5438
11	UNIV MICH-ANN ARBOR	G S KUTTER	HQ	J N BREGMAN	NAGW 2135	5441
11	UNIV MICH-ANN ARBOR	G S KUTTER	HQ	A E EVRARD	NAGW 2367	5443
11	UNIV MICH-ANN ARBOR	L J CAROFF	HQ	F C ADAMS	NAGW 2802	5448
11	UNIV MICH-ANN ARBOR	J H RAHE	HQ	G E BALLESTER	NAGW 4009	5457
11	UNIV MICH-ANN ARBOR	J BERGSTRALH	HQ	T DONAHUE	NAGW 4388	5464
11	UNIV MICH-ANN ARBOR	G R RIEGLER	HQ	J N BREGMAN	NAGW 4448	5466
11	UNIV MICH-ANN ARBOR	T KOSTIUK	HQ	W COOK	NAGW 4704	5470
11	UNIV MICH-ANN ARBOR	J ALEXANDER	HQ	J N BREGMAN	NGT 00-050-901	5498
11	UNIV MICH-ANN ARBOR	D HOLLAND	HQ	J N BERGMAN	NGT 00-051-408	5514
11	WAYNE STATE UNIV	F G HALL	GSFC	N S GOEL	NAG 5-2098	5527
11	AUGSBURG COLLEGE	F SIX	MSFC		NAG 8-1001	5534
11	MANKATO STATE UNIV	J P NORRIS	GSFC	J E HAKKILA	NAG 5-2363	5537
11	U MINN-MNPLS-ST PAUL	D WEST	GSFC	R M HUMPHREYS	NAG 5-2581	5553
11	U MINN-MNPLS-ST PAUL	M L KAISER	GSFC	P J KELLOGG	NAG 5-2838	5555
11	U MINN-MNPLS-ST PAUL	D WEST	GSFC	G S ALDERING	NAG 5-2980	5556
11	U MINN-MNPLS-ST PAUL	J H RAHE	HQ	R G GEHRZ	NAGW 2324	5562

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11	U MINN-MNPLS-ST PAUL	M M MELLOTT	HQ	R L LYSAK	NAGW 2653	5565
11	U MINN-MNPLS-ST PAUL	G R RIEGLER	HQ	E D SKILLMAN	NAGW 3189	5569
11	U MINN-MNPLS-ST PAUL	B KLEIN	GSFC	K GEOTZ	NAS 5-31219	5577
11	U MINN-MNPLS-ST PAUL	D HOLLAND	HQ	R D GEHRZ	NGT 00-051-296	5597
11	U MINN-MNPLS-ST PAUL	D HOLLAND	HQ	E D SKILLMAN	NGT 00-051-334	5598
11	U MINN-MNPLS-ST PAUL	G A SOFFEN	GSFC	L RUDNICK	NGT 5-8	5600
11	MISSISSIPPI STATE U	C A MEEGAN	MSFC	J P LESTRADE	NCC 8-82	5631
11	UNIV MO-ST LOUIS	J BERGSTALH	HQ	J J O'BRIEN	NAGW 2474	5688
11	WASHINGTON UNIVERSTY	J P NORRIS	GSFC	J I KATZ	NAG 5-2862	5696
11	WASHINGTON UNIVERSTY	W L QUAIDE	HQ	B T FEGLEY	NAGW 2861	5707
11	WASHINGTON UNIVERSTY	W L QUAIDE	HQ	B T FEGLEY	NAGW 2867	5708
11	WASHINGTON UNIVERSTY	R STACHNIK	HQ	C M WILL	NAGW 2909	5709
11	WASHINGTON UNIVERSTY	R V STACHNIK	HQ	C M WILL	NAGW 3874	5725
11	WASHINGTON UNIVERSTY	J BERGSTALH	HQ	B FEGLEY	NAGW 4485	5726
11	MONTANA STATE UNIV	J VARGAS	MSFC	S TSURUTA	NAG 8-289	5740
11	MONTANA STATE UNIV	G S KUTTER	HQ	S TSURUTA	NAGW 2208	5742
11	MONTANA STATE UNIV	R STACHNIK	HQ	L A LINDBLOM	NAGW 2951	5744
11	UNIV NEBRASKA-LINCLN	F HALL	GSFC	E WALTER-SHEA	NAG 5-2628	5771
11	UNIV NEBRASKA-LINCLN	J T BERGSTALH	HQ	J A SAMSON	NAGW 1751	5774
11	UNIV NEBRASKA-LINCLN	G S KUTTER	HQ	N R SIMON	NAGW 2395	5775
11	UNIV NEVADA-L VEGAS	R V STACHNIK	HQ	V H KWONG	NAGW 4279	5800
11	UNIV NEVADA-L VEGAS	D VITAGLIANO	GSFC	D WEISTROP	NAS 5-31231	5802
11	UNIV OF NEVADA-RENO	D WEST	GSFC	M RODRIGUE	NAG 5-2136	5804
11	DARTMOUTH COLLEGE	R PETRE	GSFC	R A FESEN	NAG 5-2138	5813
11	DARTMOUTH COLLEGE	R PETRE	GSFC	J R THORSTENSEN	NAG 5-2164	5814
11	DARTMOUTH COLLEGE	R V STACHNIK	HQ	M GLEISER	NAGW 4270	5829
11	DARTMOUTH COLLEGE	F C OWENS	HQ	G WEGNER	NGT 00-050-810	5836
11	UNIV NEW HAMP-DURHAM	J P NORRIS	GSFC	W T VESTRAND	NAG 5-1561	5847
11	UNIV NEW HAMP-DURHAM	J P NORRIS	GSFC	D J FORREST	NAG 5-1562	5848
11	UNIV NEW HAMP-DURHAM	J NORRIS	GSFC	J M RYAN	NAG 5-2350	5851
11	UNIV NEW HAMP-DURHAM	J P NORRIS	GSFC	M L MCCONNELL	NAG 5-2388	5852
11	UNIV NEW HAMP-DURHAM	J P NORRIS	GSFC	E CHUPP	NAG 5-2420	5853
11	UNIV NEW HAMP-DURHAM	J P NORRIS	GSFC	D C MEREDITH	NAG 5-2731	5854
11	UNIV NEW HAMP-DURHAM	J P NORRIS	GSFC	D J FORREST	NAG 5-2920	5856
11	UNIV NEW HAMP-DURHAM	W J WAGNER	HQ	W VESTRAND	NAGW 3538	5879
11	UNIV NEW HAMP-DURHAM	L J KALUZIENSKI	HQ	J RYAN	NAGW 3761	5883
11	UNIV NEW HAMP-DURHAM	J NORRIS	GSFC	J RYAN	NAS 5-26645	5894
11	UNIV NEW HAMP-DURHAM	R OLIVERSEN	GSFC	W T VESTRAND	NAS 5-32062	5897
11	NEW JERSEY INST TECH	W WAGNER	HQ	D H WANG	NAGW 4732	5910
11	PRINCETON UNIVERSITY	E F ERICKSON	ARC	G R KNAPP	NAG 2-988	5915
11	PRINCETON UNIVERSITY	J MATHER	GSFC	D T WILKINSON	NAG 5-1310	5926
11	PRINCETON UNIVERSITY	S SOBIESKI	GSFC	E J GROTH	NAG 5-1629	5929
11	PRINCETON UNIVERSITY	J P NORRIS	GSFC	R WIJERS	NAG 5-1816	5930
11	PRINCETON UNIVERSITY	J P NORRIS	GSFC	M TAVANI	NAG 5-1854	5931
11	PRINCETON UNIVERSITY	R PETRE	GSFC	R A DALY	NAG 5-1875	5932
11	PRINCETON UNIVERSITY	J NORRIS	GSFC	B PACZYNSKI	NAG 5-1901	5933
11	PRINCETON UNIVERSITY	J P NORRIS	GSFC	M TAVANI	NAG 5-2234	5935
11	PRINCETON UNIVERSITY	D WEST	GSFC	G R KNAPP	NAG 5-2376	5937
11	PRINCETON UNIVERSITY	J P NORRIS	GSFC	J H TAYLOR	NAG 5-2410	5938
11	PRINCETON UNIVERSITY	D WEST	GSFC	L A PAGE	NAG 5-2412	5939
11	PRINCETON UNIVERSITY	E CHENG	GSFC	L PAGE	NAG 5-2549	5940
11	PRINCETON UNIVERSITY	N WHITE	GSFC	M T AVANI	NAG 5-2593	5941
11	PRINCETON UNIVERSITY	D WEST	GSFC	D N SPERGEL	NAG 5-2693	5942
11	PRINCETON UNIVERSITY	D WEST	GSFC	D T WILKINSON	NAG 5-2697	5943
11	PRINCETON UNIVERSITY	D WEST	GSFC	J P OSTRICKER	NAG 5-2759	5944
11	PRINCETON UNIVERSITY	J P NORRIS	GSFC	S E THORSETT	NAG 5-2771	5945
11	PRINCETON UNIVERSITY	D WEST	GSFC	J GOODMAN	NAG 5-2796	5946
11	PRINCETON UNIVERSITY	C L BENNETT	GSFC	D T WILKSON	NAG 5-3048	5948
11	PRINCETON UNIVERSITY	G S LEVY	HQ	B T DRAINE	NAGW 1973	5955
11	PRINCETON UNIVERSITY	G S KUTTER	HQ	J E GUNN	NAGW 2118	5956

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11	PRINCETON UNIVERSITY	G S KUTTER	HQ	E L TURNER	NAGW 2173	5957
11	PRINCETON UNIVERSITY	G S KUTTER	HQ	J GOODMAN	NAGW 2419	5958
11	PRINCETON UNIVERSITY	G S KUTTER	HQ	J P OSTRICKER	NAGW 2448	5959
11	PRINCETON UNIVERSITY	J K ALEXANDER	HQ	D T WILKINSON	NAGW 2801	5961
11	PRINCETON UNIVERSITY	D VITAGLINO	GSFC	E JENKINS	NAS 5-30110	5969
11	PRINCETON UNIVERSITY	D HOLLAND	HQ	N A BAHCALL	NGT 00-051-295	5981
11	RUTGERS ST U-PISCTWY	D WEST	GSFC	D MERRITT	NAG 5-2803	5989
11	RUTGERS ST U-N BRNSK	I D BROWNE	JSC	G F HERZOG	NAG 9-26	6004
11	NEW MEX INST MINING	D WEST	GSFC	D J RAYMOND	NAG 5-767	6030
11	NEW MEX INST MINING	F C WITTEBORN	ARC	J A EILEK	NCC 2-364	6037
11	NEW MEX ST U-LAS CR	J P NORRIS	GSFC	B J MCNAMARA	NAG 5-1516	6040
11	NEW MEX ST U-LAS CR	R PETRE	GSFC	J O BURNS	NAG 5-1737	6041
11	NEW MEX ST U-LAS CR	R PETRE	GSFC	J O BURNS	NAG 5-1819	6042
11	NEW MEX ST U-LAS CR	R PETRE	GSFC	R A WALTERBOS	NAG 5-1924	6043
11	NEW MEX ST U-LAS CR	D WEST	GSFC	R A WALTERBOS	NAG 5-2426	6044
11	NEW MEX ST U-LAS CR	R PETRE	GSFC	B MCNAMARA	NAG 5-2702	6045
11	NEW MEX ST U-LAS CR	N WHITE	GSFC	E ELLINGSON	NAG 5-2747	6046
11	NEW MEX ST U-LAS CR	M M MELLOTT	HQ	R L GOLDEN	NAGW 110	6051
11	NEW MEX ST U-LAS CR	J RAHE	HQ	R REEBE	NAGW 1802	6052
11	NEW MEX ST U-LAS CR	G S KUTTER	HQ	N A DEVEREUX	NAGW 2630	6054
11	NEW MEX ST U-LAS CR	G R RIEGLER	HQ	J BURNS	NAGW 3152	6056
11	NEW MEX ST U-LAS CR	J B POLLACK	ARC	M S MARLEY	NCC 2-5048	6062
11	NEW MEX ST U-LAS CR	C P MCKAY	ARC	M S MARLEY	NCC 2-5118	6063
11	NEW MEX ST U-LAS CR	D HOLLAND	HQ	M S MARLEY	NGT 00-051-383	6066
11	UNIV OF NEW MEXICO	A BLUM	GSFC	F KUELLMER	NAS 5-30749	6086
11	BARNARD COLLEGE	N WHITE	GSFC	L KAY	NAG 5-2937	6095
11	CITY U OF NY CTY COL	P CASSEN	ARC	C YUAN	NCA 2-695	6108
11	COLUMBIA UNIVERSITY	R PETRE	GSFC	D J HELEAND	NAG 5-1912	6142
11	COLUMBIA UNIVERSITY	R PETRE	GSFC	J P HALPERN	NAG 5-1935	6143
11	COLUMBIA UNIVERSITY	R PETRE	GSFC	J O PATTERSON	NAG 5-1958	6146
11	COLUMBIA UNIVERSITY	J P NORRIS	GSFC	M A RUDERMAN	NAG 5-2016	6148
11	COLUMBIA UNIVERSITY	J P NORRIS	GSFC	J SHAHAM	NAG 5-2017	6149
11	COLUMBIA UNIVERSITY	J P NORRIS	GSFC	J P HALPERN	NAG 5-2051	6150
11	COLUMBIA UNIVERSITY	J NORRIS	GSFC	P KAARET	NAG 5-2235	6152
11	COLUMBIA UNIVERSITY	R OLIVERSEN	GSFC	D C MARTIN	NAG 5-2309	6153
11	COLUMBIA UNIVERSITY	D WEST	GSFC	J O PATTERSON	NAG 5-2414	6154
11	COLUMBIA UNIVERSITY	N WHITE	GSFC	J P HALPERN	NAG 5-2524	6155
11	COLUMBIA UNIVERSITY	N WHITE	GSFC	D J HELFAND	NAG 5-2556	6156
11	COLUMBIA UNIVERSITY	R OLIVERSEN	GSFC	J P HALPERN	NAG 5-2569	6157
11	COLUMBIA UNIVERSITY	J P NORRIS	GSFC	M TAVANI	NAG 5-2729	6158
11	COLUMBIA UNIVERSITY	N WHITE	GSFC	TAVANI	NAG 5-2730	6159
11	COLUMBIA UNIVERSITY	D WEST	GSFC	M RUDERMAN	NAG 5-2841	6160
11	COLUMBIA UNIVERSITY	D WEST	GSFC	J APPLGATE	NAG 5-2859	6161
11	COLUMBIA UNIVERSITY	J P NORRIS	GSFC	D J HELFAND	NAG 5-2861	6162
11	COLUMBIA UNIVERSITY	J P NORRIE	GSFC	E APRILE	NAG 5-2872	6163
11	COLUMBIA UNIVERSITY	R PETRE	GSFC	D HELFAND	NAG 5-2916	6164
11	COLUMBIA UNIVERSITY	R OLIVERSEN	GSFC	F B PAERELS	NAG 5-2991	6166
11	COLUMBIA UNIVERSITY	D WEST	GSFC	A P CROTTS	NAG 5-3014	6167
11	COLUMBIA UNIVERSITY	L J KALUZIENSKI	HQ	J SHAHAM	NAGW 1618	6174
11	COLUMBIA UNIVERSITY	L J KALUZIENSKI	HQ	E APRILE	NAGW 2013	6175
11	COLUMBIA UNIVERSITY	G S KUTTER	HQ	R M RICH	NAGW 2479	6177
11	COLUMBIA UNIVERSITY	G S KUTTER	HQ	D J HELFAND	NAGW 2507	6178
11	COLUMBIA UNIVERSITY	G S KUTTER	HQ	J O PATTERSON	NAGW 2565	6179
11	COLUMBIA UNIVERSITY	L J KALUZIENSKI	HQ	J APPLGATE	NAGW 3075	6184
11	COLUMBIA UNIVERSITY	R V STACHNIK	HQ	C MARTIN	NAGW 3945	6189
11	COLUMBIA UNIVERSITY	G R RIEGLER	HQ	J HALPERN	NAGW 4482	6193
11	COLUMBIA UNIVERSITY	L J KALUZIENSKI	HQ	C HAILEY	NAGW 4734	6196
11	COLUMBIA UNIVERSITY	R OLIVERSEN	GSFC	D HELFOND	NAS 5-32063	6197
11	COLUMBIA UNIVERSITY	S GREEN	GSFC	L DRUYAN	NCC 5-82	6204
11	COLUMBIA UNIVERSITY	F C OWENS	HQ	C MARTIN	NGT 00-050-777	6217

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11	CORNELL UNIVERSITY	C D LAUGHLIN	ARC	T HERTER	NAG 2-207	6227
11	CORNELL UNIVERSITY	C R MCCREIGHT	ARC	T L HERTER	NAG 2-660	6229
11	CORNELL UNIVERSITY	C D LAUGHLIN	ARC	G STACEY	NAG 2-800	6231
11	CORNELL UNIVERSITY	C D LAUGHLIN	ARC	T HERTER	NAG 2-926	6233
11	CORNELL UNIVERSITY	J P NORRIS	GSFC	T J LOREDO	NAG 5-1758	6247
11	CORNELL UNIVERSITY	D WEST	GSFC	B M LEWIS	NAG 5-2120	6248
11	CORNELL UNIVERSITY	D WEST	GSFC	P GOLDSMITH	NAG 5-2334	6249
11	CORNELL UNIVERSITY	J P NORRIS	GSFC	J M CORDES	NAG 5-2436	6250
11	CORNELL UNIVERSITY	J P NORRIS	GSFC	I M WASSERMAN	NAG 5-2762	6251
11	CORNELL UNIVERSITY	D WEST	GSFC	S L SHAPIRO	NAG 5-2809	6252
11	CORNELL UNIVERSITY	D WEST	GSFC	D F CHERNOFF	NAG 5-2851	6253
11	CORNELL UNIVERSITY	L J KALUZIENSKI	HQ	E E SALPETER	NAGW 666	6264
11	CORNELL UNIVERSITY	K FOX	HQ	W R THOMPSON	NAGW 1444	6267
11	CORNELL UNIVERSITY	J T BERGSTRALH	HQ	P GIERASCH	NAGW 1997	6270
11	CORNELL UNIVERSITY	G S KUTTER	HQ	D F CHERNOFF	NAGW 2224	6275
11	CORNELL UNIVERSITY	G S KUTTER	HQ	S L SHAPIRO	NAGW 2364	6277
11	CORNELL UNIVERSITY	M D BICAY	HQ	J R HOUCK	NAGW 2551	6279
11	CORNELL UNIVERSITY	L J CAROFF	HQ	A J SIEVERS	NAGW 2768	6281
11	CORNELL UNIVERSITY	L J CAROFF	HQ	J R HOUCK	NAGW 2870	6282
11	CORNELL UNIVERSITY	H C BRINTON	HQ	J VEYERKA	NAGW 3591	6291
11	CORNELL UNIVERSITY	J H RAHE	HQ	J VEYERKA	NAGW 3837	6293
11	CORNELL UNIVERSITY	L J CAROFF	HQ	G STACEY	NAGW 3925	6294
11	CORNELL UNIVERSITY	J H RAHE	HQ	P NICHOLSON	NAGW 4001	6296
11	CORNELL UNIVERSITY	E BAKER	HQ	S SQUYRES	NAGW 4655	6301
11	CORNELL UNIVERSITY	J N CUZZI	ARC	P D NICHOLSON	NCA 2-832	6305
11	CORNELL UNIVERSITY	F M FLASAR	GSFC	P J GIERASCH	NCC 5-84	6306
11	CORNELL UNIVERSITY	D HOLLAND	HQ	C E SAGAN	NGT 00-051-329	6319
11	MT SINAI SCH OF MED	P BHARTIA	GSFC	L SIROVICH	NAG 5-3052	6340
11	NEW YORK UNIVERSITY	F C GILLET	HQ	A E GLASSGOLD	NAGW 630	6349
11	RENSSELAER POLY-NY	D WEST	GSFC	M L KUTNER	NAG 5-2392	6377
11	RENSSELAER POLY-NY	L J CAROFF	HQ	C M LEUNG	NAGW 2817	6383
11	RENSSELAER POLY-NY	L J CAROFF	HQ	W G ROBERGE	NAGW 3001	6384
11	RENSSELAER POLY-NY	G R RIEGLER	HQ	D WHITTET	NAGW 3144	6385
11	RENSSELAER POLY-NY	L J CAROFF	HQ	D C WHITTET	NAGW 4039	6386
11	RENSSELAER POLY-NY	L S LAPIANA	HQ	W G ROBERGE	NAGW 4187	6387
11	RENSSELAER POLY-NY	A G TIELENS	ARC	W ROBERGE	NCC 2-5015	6391
11	ROCHESTER INST TECH	T KOSTIUK	HQ	Z NINKEY	NAGW 4135	6410
11	STATE UNIV NY-ALBANY	D C CARTER	MSFC	W M GIBSON	NAG 8-926	6419
11	STATE U NY-STONY BRK	R PETRE	GSFC	F M WALTER	NAG 5-1594	6455
11	STATE U NY-STONY BRK	A SMITH	GSFC	F M WALTER	NAG 5-1862	6457
11	STATE U NY-STONY BRK	R PETRE	GSFC	F M WALTER	NAG 5-1874	6458
11	STATE U NY-STONY BRK	R OLIVERSEN	GSFC	F M WALTER	NAG 5-2366	6459
11	STATE U NY-STONY BRK	D WEST	GSFC	A YAHIL	NAG 5-2403	6460
11	STATE U NY-STONY BRK	D WEST	GSFC	P M SOLOMON	NAG 5-2404	6461
11	STATE U NY-STONY BRK	D WEST	GSFC	F WALTER	NAG 5-2507	6462
11	STATE U NY-STONY BRK	D WEST	GSFC	J M LATTIMER	NAG 5-2863	6464
11	STATE U NY-STONY BRK	N WHITE	GSFC	F WALTER	NAG 5-2964	6466
11	STATE U NY-STONY BRK	D WEST	GSFC	F M WALTER	NAG 5-2983	6467
11	STATE U NY-STONY BRK	J T BERGSTRALH	HQ	P VARANASI	NAGW 1894	6472
11	STATE U NY-STONY BRK	W L QUAIDE	HQ	R KNACKE	NAGW 2796	6477
11	STATE U NY-STONY BRK	W L QUAIDE	HQ	J L FOX	NAGW 2958	6478
11	STATE U NY-STONY BRK	P ROGERS	HQ	J LISSAUER	NAGW 4040	6482
11	STATE U NY-STONY BRK	P ROGERS	HQ	M SIMON	NAGW 4113	6483
11	STATE U NY-STONY BRK	G 4 RIEGLER	HQ	K LANZETTA	NAGW 4433	6484
11	STATE U NY-STONY BRK	G R RIEGLER	HQ	P S SOLOMON	NAGW 4509	6485
11	STATE U NY-STONY BRK	E BARKER	HQ	J LISSAUER	NAGW 4659	6486
11	UNIV OF ROCHESTER	J H GOEBEL	ARC	W J FORREST	NAG 2-117	6515
11	UNIV OF ROCHESTER	C D LAUGHLIN	ARC	D M WATSON	NAG 2-958	6516
11	UNIV OF ROCHESTER	M BICAY	HQ	J L PIPHER	NAGW 2393	6521
11	UNIV OF ROCHESTER	G S KUTTER	HQ	J H THOMAS	NAGW 2444	6522

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11	UNIV OF ROCHESTER	J T LYNCH	HQ	J PIPHER	NGT 00-050-817	6527
11	NO CAROLINA STATE U	R PETRE	GSFC	S P REYNOLDS	NAG 5-2212	6611
11	NO CAROLINA STATE U	D WEST	GSFC	S P REYNOLDS	NAG 5-2844	6615
11	NO CAROLINA STATE U	N WHITE	GSFC	S REYNOLDS	NAG 5-2972	6616
11	NO CAROLINA STATE U	L J KALUZIENSKI	HQ	J M BLONDIN	NAGW 3658	6622
11	UNIV N CAR-ASHVILLE	J P NORRIS	GSFC	J K DAUGHERTY	NAG 5-2518	6656
11	UNIV N CAR-CHPL HILL	D WEST	GSFC	S C BALACHANDRAN	NAG 5-2116	6657
11	UNIV N CAR-CHPL HILL	R PETRE	GSFC	G N CECIL	NAG 5-2347	6658
11	UNIV N CAR-CHPL HILL	R PETRE	GSFC	J A ROSE	NAG 5-2543	6659
11	UNIV N CAR-CHPL HILL	D WEST	GSFC	T S STATLER	NAG 5-2860	6660
11	UNIV N CAR-CHPL HILL	J T BERGSTRALH	HQ	R E MILLER	NAGW 1576	6663
11	UNIV N CAR-CHPL HILL	L J KALUZIENSKI	HQ	J M BLONDIN	NAGW 2934	6664
11	UNIV OF NORTH DAKOTA	R W STEWART	GSFC	M POELLOT	NAG 5-2699	6685
11	CASE WESTERN RESERVE	D DEMING	GSFC	M MEHREGANY	NAG 5-2559	6721
11	DENSION UNIV	J T BERGSTRALH	HQ	M E MICKELSON	NAGW 1765	6866
11	OHIO STATE UNIV	D WEST	GSFC	F W HAMANN	NAG 5-1645	6917
11	OHIO STATE UNIV	D WEST	GSFC	B M PETERSON	NAG 5-1824	6918
11	OHIO STATE UNIV	R PETRE	GSFC	R M WAGNER	NAG 5-2192	6920
11	OHIO STATE UNIV	J P NORRIS	GSFC	R M WAGNER	NAG 5-2355	6921
11	OHIO STATE UNIV	D WEST	GSFC	B PETERSON	NAG 5-2477	6922
11	OHIO STATE UNIV	D WEST	GSFC	M PINSONNEAULT	NAG 5-2853	6923
11	OHIO STATE UNIV	D WEST	GSFC	R J SCHERRER	NAG 5-2864	6924
11	OHIO STATE UNIV	L J CAROFF	HQ	E HERBST	NAGW 2906	6936
11	OHIO STATE UNIV	J D RUMMEL	HQ	C A KLEIN	NAGW 3668	6938
11	OHIO STATE UNIV	P G ROGERS	HQ	J CARR	NAGW 4606	6948
11	OHIO STATE UNIV	D WEST	GSFC	A PRADHAN	NAS 5-32643	6952
11	UNIV OF CINCINNATI	L LAPIANA	HQ	M L SITKO	NAGW 3230	7039
11	UNIV OF TOLEDO	D WEST	GSFC	N MORRISON	NAG 5-2460	7097
11	UNIV OF TOLEDO	D WEST	GSFC	B W	NAG 5-2461	7098
11	UNIV OF TOLEDO	L J CAROFF	HQ	A N WITT	NAGW 2794	7099
11	UNIV OF TOLEDO	G R RIEGLER	HQ	A WITT	NAGW 3168	7100
11	UNIV OF TOLEDO	R V STACHNIK	HQ	S R FEDERMAN	NAGW 3840	7101
11	UNIV OKLAHOMA-NORMAN	D WEST	GSFC	R B HENRY	NAG 5-2389	7135
11	UNIV OKLAHOMA-NORMAN	L M BARBIER	GSFC	G R KALBFLEISCH	NAG 5-2558	7136
11	UNIV OKLAHOMA-NORMAN	R V STACHNIK	HQ	D R BRANCH	NAGW 2999	7138
11	OREGON STATE UNIV	W QUAIDE	HQ	J R BARNES	NAGW 2445	7161
11	OREGON STATE UNIV	M MEYER	HQ	B SIMONEIT	NAGW 4172	7180
11	SOUTHERN OREGON ST C	F SIX	MSFC	J D'ALLURA	NAG 8-222	7198
11	UNIV OREGON-EUGENE	D WEST	GSFC	J IMAMURA	NAG 5-2418	7203
11	UNIV OREGON-EUGENE	D WEST	GSFC	G D BOTHUN	NAG 5-2662	7204
11	DREXEL UNIVERSITY	D P HUENEMOERDER	HQ	S L MCMILLAN	NAGW 2559	7257
11	HAVERFORD COLLEGE	D WEST	GSFC	S P BOUGHN	NAG 5-3015	7262
11	LEHIGH UNIVERSITY	D WEST	GSFC	G E MCCLUSKEY	NAG 5-2100	7267
11	PENN STATE U-UNIV PK	L J EARLY	GSFC	G P GARMIE	NAG 5-100	7314
11	PENN STATE U-UNIV PK	R PETRE	GSFC	D FEIGELSON	NAG 5-1678	7317
11	PENN STATE U-UNIV PK	D WEST	GSFC	R A WADE	NAG 5-1698	7318
11	PENN STATE U-UNIV PK	R PETRE	GSFC	D P HUENEMOERDER	NAG 5-1751	7319
11	PENN STATE U-UNIV PK	R PETRE	GSFC	F A DOMINIC CORDOVA	NAG 5-1763	7320
11	PENN STATE U-UNIV PK	R PETRE	GSFC	D N BURROWS	NAG 5-1786	7321
11	PENN STATE U-UNIV PK	R PETRE	GSFC	L W RAMSEY	NAG 5-1898	7322
11	PENN STATE U-UNIV PK	D WEST	GSFC	J E NEFF	NAG 5-2118	7324
11	PENN STATE U-UNIV PK	D WEST	GSFC	WADE	NAG 5-2125	7325
11	PENN STATE U-UNIV PK	R PETRE	GSFC	R A WADE	NAG 5-2144	7326
11	PENN STATE U-UNIV PK	R PETRE	GSFC	R H CORBET	NAG 5-2214	7327
11	PENN STATE U-UNIV PK	J P NORRIS	GSFC	P I MESZAROS	NAG 5-2362	7328
11	PENN STATE U-UNIV PK	D WEST	GSFC	D BURROWS	NAG 5-2437	7329
11	PENN STATE U-UNIV PK	N E WHITE	GSFC	J NOUSEK	NAG 5-2483	7330
11	PENN STATE U-UNIV PK	N WHITE	GSFC	E D FEIGELSON	NAG 5-2527	7331
11	PENN STATE U-UNIV PK	N WHITE	GSFC	J A NOUSEK	NAG 5-2528	7332
11	PENN STATE U-UNIV PK	N WHITE	GSFC	D N BURROWS	NAG 5-2537	7333

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11	PENN STATE U-UNIV PK	N WHITE	GSFC	K WEAVER	NAG 5-2776	7335
11	PENN STATE U-UNIV PK	D WEST	GSFC	G PAVLOV	NAG 5-2807	7336
11	PENN STATE U-UNIV PK	D WEST	GSFC	P MESZAROS	NAG 5-2857	7337
11	PENN STATE U-UNIV PK	D WHITE	GSFC	D STRINGFELLOW	NAG 5-2922	7338
11	PENN STATE U-UNIV PK	D WEST	GSFC	G S STRINGFELLOW	NAG 5-2981	7341
11	PENN STATE U-UNIV PK	D WEST	GSFC	J E NEFF	NAG 5-3040	7342
11	PENN STATE U-UNIV PK	D WEST	GSFC	J A NOUSEK	NAG 5-3043	7343
11	PENN STATE U-UNIV PK	L J KALUZIENSKI	HQ	P I MESZAROS	NAGW 1522	7358
11	PENN STATE U-UNIV PK	G S KUTTER	HQ	E D FEIGELSON	NAGW 2120	7360
11	PENN STATE U-UNIV PK	G S KUTTER	HQ	J E NEFF	NAGW 2603	7363
11	PENN STATE U-UNIV PK	G R RIEGLER	HQ	R CIARDULLO	NAGW 3159	7368
11	PENN STATE U-UNIV PK	G R RIEGLER	HQ	R WADE	NAGW 3171	7369
11	PENN STATE U-UNIV PK	F GIOVANE	HQ	F A CORDOVA	NAGW 3211	7370
11	PENN STATE U-UNIV PK	H C BRINTON	HQ	R F KNACKE	NAGW 3415	7375
11	PENN STATE U-UNIV PK	R V STACHNIK	HQ	J C CHARLTON	NAGW 3571	7376
11	PENN STATE U-UNIV PK	J H RAHE	HQ	R KNACKE	NAGW 4124	7379
11	PENN STATE U-UNIV PK	R OLIVERSEN	GSFC	J A NOUSEK	NAS 5-32074	7389
11	PENN STATE U-UNIV PK	D WEST	GSFC	M AKRITAS	NAS 5-32669	7391
11	PENN STATE U-UNIV PK	N B CUMINGS	MSFC	G P GARMERE	NAS 8-38252	7392
11	PENN STATE U-UNIV PK	F C OWENS	HQ	G P GARMIRE	NGT 00-050-803	7413
11	PENN STATE U-UNIV PK	D HOLLAND	HQ	A WOLSZCZAN	NGT 00-051-316	7426
11	PENN STATE U-UNIV PK	F C OWENS	HQ	E D FEIGELSON	NGT 00-070-204	7429
11	SUSQUEHANNA UNIV	N F SIX	MSFC	R KOZLOWSKI	NAG 8-199	7436
11	UNIV OF PENNSYLVANIA	D K WEST	GSFC	R H KOCH	NAG 5-1168	7437
11	UNIV OF PENNSYLVANIA	M J MUMMA	GSFC	R KOCH	NAG 5-1473	7438
11	UNIV OF PITTSBURGH	D WEST	GSFC	D A TURNSHEK	NAG 5-1778	7459
11	UNIV OF PITTSBURGH	D WEST	GSFC	R E LADBECK	NAG 5-2411	7460
11	UNIV OF PITTSBURGH	D WEST	GSFC	R S LADBECK	NAG 5-2495	7461
11	UNIV OF PITTSBURGH	R OLIVERSEN	GSFC	B R ESPEY	NAG 5-2599	7462
11	UNIV OF PITTSBURGH	J OWENS	MSFC	R E SCHULTE-LADBECK	NAG 8-1073	7465
11	UNIV OF PITTSBURGH	J H RAHE	HQ	J P WEFEL	NAGW 1270	7466
11	UNIV OF PITTSBURGH	J T BERGSTRALH	HQ	R JOHNSEN	NAGW 1764	7467
11	UNIV OF PITTSBURGH	R STACHNIK	HQ	R E LADBECK	NAGW 2977	7469
11	UNIV OF PITTSBURGH	L LAPIANA	HQ	P C HAZARD	NAGW 3231	7470
11	UNIV OF PITTSBURGH	R V STACHNIK	HQ	D J HILLIER	NAGW 3828	7471
11	VILLANOVA UNIVERSITY	D WEST	GSFC	E F GUINAN	NAG 5-382	7480
11	VILLANOVA UNIVERSITY	D WEST	GSFC	C AMBRUSTER	NAG 5-980	7481
11	VILLANOVA UNIVERSITY	D WEST	GSFC	E M SION	NAG 5-1836	7482
11	VILLANOVA UNIVERSITY	D WEST	GSFC	E F GUINAN	NAG 5-2160	7483
11	VILLANOVA UNIVERSITY	R OLIVERSEN	GSFC	E SION	NAG 5-2278	7484
11	VILLANOVA UNIVERSITY	R OLIVERSEN	GSFC	C W AMBRUSTER	NAG 5-2279	7485
11	VILLANOVA UNIVERSITY	PETRE	GSFC	C AMBRUSTER	NAG 5-2413	7486
11	VILLANOVA UNIVERSITY	D WEST	GSFC	J SIAH	NAG 5-2462	7487
11	VILLANOVA UNIVERSITY	D WEST	GSFC	M HUANG	NAG 5-2463	7488
11	VILLANOVA UNIVERSITY	R PETRE	GSFC	E F GUINAN	NAG 5-2494	7489
11	VILLANOVA UNIVERSITY	N E WHITE	GSFC	E GUINAN	NAG 5-2707	7490
11	VILLANOVA UNIVERSITY	G R RIEGLER	HQ	E SION	NAGW 3726	7491
11	VILLANOVA UNIVERSITY	G R RIEGLER	HQ	J CARDELLI	NAGW 4607	7492
11	BROWN UNIVERSITY	E CHENG	GSFC	P TIMBIE	NAG 5-2629	7500
11	BROWN UNIVERSITY	J K ALEXANDER	HQ	P T TIMBIE	NAGW 2797	7511
11	BROWN UNIVERSITY	H C BRINTON	HQ	C PIETERS	NAGW 3756	7522
11	BROWN UNIVERSITY	J RAHE	HQ	J HEAD,III	NAGW 4418	7525
11	BROWN UNIVERSITY	L J KALUZIENSKI	HQ	G M SEIDEL	NAGW 4792	7526
11	CITADEL MLTRY CO S C	D S LECKRONE	GSFC	S J ADELMAN	NAG 5-1551	7565
11	CITADEL MLTRY CO S C	D WEST	GSFC	S ADELMAN	NAG 5-2472	7566
11	CLEMSON UNIV-CLEMSON	J P NORRIS	GSFC	D H HARTMANN	NAG 5-1578	7573
11	CLEMSON UNIV-CLEMSON	D WEST	GSFC	M LEISING	NAG 5-2419	7574
11	COLLEGE OF CHARLESTN	G R RIEGLER	HQ	D BUZASI	NAGW 4787	7600
11	U. OF S.C.- COLUMBIA	R STACHNIK	HQ	A K DRUKER	NAGW 2510	7608
11	TENNESSEE STATE UNIV	D WEST	GSFC	J A EATON	NAG 5-1474	7652

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11	TENNESSEE STATE UNIV	D WEST	GSFC	F C FEKEL	NAG 5-2464	7654
11	TENNESSEE STATE UNIV	D WEST	GSFC	J A EATON	NAG 5-2682	7655
11	TENNESSEE STATE UNIV	J L RANDALL	MSFC	M R BUSBY	NAG 8-111	7656
11	TENNESSEE STATE UNIV	J M DAVIS	MSFC	G HENRY	NAG 8-1014	7657
11	TENNESSEE STATE UNIV	B L WHITE	HQ	M R BUSBY	NCCW 85	7661
11	TENNESSEE TECH U	W T POWERS	MSFC	D C VENTRICE	NAG 8-206	7664
11	UNIV TENNESSEE-KNOXV	J BERGSTRALH	HQ	K FOX	NAGW 2015	7688
11	UNIV TENNESSEE-KNOXV	J BOYCE	HQ	H MCSWEEN	NAGW 3621	7693
11	UNIV TENNESSEE-KNOXV	P G ROGERS	HQ	H MCSWEEN	NAGW 4326	7694
11	UNIV TENNESSEE-KNOXV	D A HOLLAND	HQ	N THONNARD	NAGW 4774	7696
11	UNIV TENNESSEE-KNOXV	G CHIN	GSFC	W E BLASS	NCC 5-88	7698
11	VANDERBILT UNIVERSTY	C R CHAPPELL	MSFC	A M STRAUSS	NAG 8-151	7710
11	RICE UNIVERSITY	L E LASHER	ARC	P A CLOUTIER	NAG 2-566	7784
11	RICE UNIVERSITY	D WEST	GSFC	R J DUFOUR	NAG 5-262	7785
11	RICE UNIVERSITY	J P NORRIS	GSFC	E P LIANG	NAG 5-1515	7788
11	RICE UNIVERSITY	J P NORRIS	GSFC	E P LIANG	NAG 5-1547	7789
11	RICE UNIVERSITY	S SOBIESKI	GSFC	C R O'DELL	NAG 5-1626	7790
11	RICE UNIVERSITY	J P NORRIS	GSFC	E P LIANG	NAG 5-2045	7791
11	RICE UNIVERSITY	J P NORRIS	GSFC	R C HAYMES	NAG 5-2515	7793
11	RICE UNIVERSITY	D WEST	GSFC	R J DUFOUR	NAG 5-2677	7794
11	RICE UNIVERSITY	N LAL	GSFC	P REIF	NAG 5-2689	7795
11	RICE UNIVERSITY	N WHITE	GSFC	E LANG	NAG 5-2690	7796
11	RICE UNIVERSITY	J NORRIS	GSFC	F C MICHEAL	NAG 5-2772	7798
11	RICE UNIVERSITY	D WEST	GSFC	F C MICHEL	NAG 5-3070	7800
11	RICE UNIVERSITY	J BOYCE	HQ	D HEYMANN	NAGW 4173	7821
11	RICE UNIVERSITY	A G TIELENS	ARC	R J DUFOUR	NCC 2-5008	7825
11	TEXAS A&M UNIVERSITY	F SIX	MSFC	H G BLOUNT II	NAG 8-1100	7882
11	TEXAS A&M UNIVERSITY	M BURRELL	GSFC	K P BOWMAN	NGT 00-051-185	7928
11	TEXAS SOUTHMOST COLL	M MATEU	HQ	L V LOF	NAGW 4356	7960
11	UNIV HOUSTON-CL LAKE	S H GOLDSTEIN	JSC	G BLANFORD	NAG 9-718	8041
11	UNIV OF NORTH TEXAS	F HASLER	GSFC	D NEAL	NAG 5-2905	8051
11	UNIV TEXAS-ARLINGTON	D WEST	GSFC	F C BRUHWELLER	NAG 5-2726	8054
11	UNIV TEXAS-AUSTIN	C D LANGHLIN	ARC	P M HARVEY	NAG 2-67	8067
11	UNIV TEXAS-AUSTIN	L C HAUGHNEY	ARC	N J EVANS	NAG 2-420	8068
11	UNIV TEXAS-AUSTIN	C D LAUGHLIN	ARC	D F LESTER	NAG 2-748	8069
11	UNIV TEXAS-AUSTIN	C D LAUGHLIN	ARC	D F LESTER	NAG 2-6002	8071
11	UNIV TEXAS-AUSTIN	S SOBIESKI	GSFC	W H JEFFERYS	NAG 5-1603	8075
11	UNIV TEXAS-AUSTIN	S SOBIESKI	GSFC	D L LAMBERT	NAG 5-1616	8076
11	UNIV TEXAS-AUSTIN	A SMITH	GSFC	L M TRAFTON	NAG 5-1855	8077
11	UNIV TEXAS-AUSTIN	D WEST	GSFC	J C WHEELER	NAG 5-2139	8081
11	UNIV TEXAS-AUSTIN	D WEST	GSFC	D L LAMBERT	NAG 5-2484	8084
11	UNIV TEXAS-AUSTIN	D WEST	GSFC	E T VISHNIAC	NAG 5-2773	8087
11	UNIV TEXAS-AUSTIN	D WEST	GSFC	P R SHAPIRO	NAG 5-2785	8088
11	UNIV TEXAS-AUSTIN	D WEST	GSFC	D E WINGET	NAG 5-2818	8089
11	UNIV TEXAS-AUSTIN	D WEST	GSFC	J C WHEELER	NAG 5-2888	8090
11	UNIV TEXAS-AUSTIN	J P NORRIS	GSFC	J C WHEELER	NAG 5-3079	8092
11	UNIV TEXAS-AUSTIN	J H RAHE	HQ	H J SMITH	NAGW 1477	8115
11	UNIV TEXAS-AUSTIN	J RAHE	HQ	A L COCHRAN	NAGW 2288	8119
11	UNIV TEXAS-AUSTIN	J H RAHE	HQ	L M TRAFTON	NAGW 2314	8121
11	UNIV TEXAS-AUSTIN	G S KUTTER	HQ	P R SHAPIRO	NAGW 2399	8123
11	UNIV TEXAS-AUSTIN	G S KUTTER	HQ	E T VISHNIAC	NAGW 2418	8124
11	UNIV TEXAS-AUSTIN	J RAHE	HQ	W D COCHRAN	NAGW 2465	8125
11	UNIV TEXAS-AUSTIN	L J CAROFF	HQ	J C WHEELER	NAGW 2905	8129
11	UNIV TEXAS-AUSTIN	L J KALUZIENSKI	HQ	J WHEELER	NAGW 2975	8132
11	UNIV TEXAS-AUSTIN	R V STACHNIK	HQ	P D HEMENWAY	NAGW 3111	8133
11	UNIV TEXAS-AUSTIN	H C BRINTON	HQ	E S BARKER	NAGW 3306	8136
11	UNIV TEXAS-AUSTIN	J H RAHE	HQ	A COCHRAN	NAGW 3971	8140
11	UNIV TEXAS-AUSTIN	J H RAHE	HQ	W COCHRAN	NAGW 3990	8141
11	UNIV TEXAS-AUSTIN	J H RAHE	HQ	A WHIPPLE	NAGW 4012	8142
11	UNIV TEXAS-AUSTIN	L J CAROFF	HQ	D JAFFE	NAGW 4027	8143

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11	UNIV TEXAS-AUSTIN	R V STACHNIK	HQ	P J SHELUS	NAGW 4277	8148
11	UNIV TEXAS-AUSTIN	J RAHE	HQ	F N BASH	NAGW 4283	8149
11	UNIV TEXAS-AUSTIN	R V STACHNIK	HQ	P D HEMENWAY	NAGW 4727	8153
11	UNIV TEXAS-AUSTIN	F C OWENS	HQ	G A SHIELDS	NGT 00-050-659	8170
11	UNIV TEXAS-AUSTIN	F C OWENS	HQ	P R SHAPIRO	NGT 00-050-849	8172
11	UNIV TEXAS-AUSTIN	J K ALEXANDER	HQ	D T JAFFE	NGT 00-050-998	8175
11	UNIV TEXAS-AUSTIN	D HOLLAND	HQ	C SEDAN	NGT 00-051-138	8178
11	UNIV TEXAS-DALLAS	J T BERGSTRALH	HQ	R R HODGES	NAGW 2490	8191
11	UNIV OF UTAH	J P NORRIS	GSFC	D B KIEDA	NAG 5-2349	8261
11	MIDDLEBURY COLLEGE	R PETRE	GSFC	P F WINKLER	NAG 5-1668	8307
11	GEORGE MASON UNIV	J P NORRIS	GSFC	M KAFATOS	NAG 5-2025	8358
11	GEORGE MASON UNIV	R OLIVERSEN	GSFC	M KAFATOS	NAG 5-2360	8362
11	GEORGE MASON UNIV	J C MATHER	GSFC	L OZERNOY	NAG 5-2442	8363
11	GEORGE MASON UNIV	J P NORRIS	GSFC	R J NEMIROFF	NAG 5-2710	8366
11	GEORGE MASON UNIV	J P NORRIS	GSFC	M KAFATOS	NAG 5-2737	8367
11	GEORGE MASON UNIV	J P NORRIS	GSFC	M KAFATOS	NAG 5-2894	8368
11	HAMPDEN-SYDNEY COL	C E FICHEL	GSFC	D A KNIFFEN	NAG 5-1742	8374
11	HAMPDEN-SYDNEY COL	J P NORRIS	GSFC	J MILLER	NAG 5-2933	8375
11	HAMPDEN-SYDNEY COL	C E FICHEL	GSFC	D A KNIFFEN	NCC 5-93	8376
11	OLD DOMINION UNIV	M G MACARAEG	LARC	P BALAKUMAR	NAG 1-1677	8439
11	RADFORD UNIVERSITY	F SIX	MSFC	J D ECKERT	NAG 8-1009	8485
11	UNIV OF VIRGINIA	T P STECHER	GSFC	R W O CONNELL	NAG 5-700	8510
11	UNIV OF VIRGINIA	R PETRE	GSFC	C L SARAZIN	NAG 5-1891	8513
11	UNIV OF VIRGINIA	R PETRE	GSFC	T X THUAN	NAG 5-2060	8516
11	UNIV OF VIRGINIA	N WHITE	GSFC	C L SARAZIN	NAG 5-2526	8519
11	UNIV OF VIRGINIA	D WEST	GSFC	J M RICHARDS	NAG 5-3056	8521
11	UNIV OF VIRGINIA	D WEST	GSFC	C L SARAZIN	NAG 5-3057	8522
11	UNIV OF VIRGINIA	D WEST	GSFC	J F HAWLEY	NAG 5-3058	8523
11	UNIV OF VIRGINIA	L J KALUZIENSKI	HQ	J F HAWLEY	NAGW 1510	8526
11	UNIV OF VIRGINIA	G S KUTTER	HQ	R A CHEVALIER	NAGW 2376	8531
11	UNIV OF VIRGINIA	G S KUTTER	HQ	R W O'CONNELL	NAGW 2596	8533
11	UNIV OF VIRGINIA	L J CAROFF	HQ	T W CROWE	NAGW 4007	8537
11	UNIV OF VIRGINIA	P ROGERS	HQ	R JOHNSON	NAGW 4028	8538
11	UNIV OF VIRGINIA	P ROGERS	HQ	R JOHNSON	NAGW 4029	8539
11	UNIV OF VIRGINIA	G R RIEGLER	HQ	P R O'CONNELL	NAGW 4106	8541
11	UNIV OF VIRGINIA	P G ROGERS	HQ	S BALBUS	NAGW 4431	8544
11	UNIV OF VIRGINIA	J A NUTH	GSFC	L U LILLELEHT	NCC 5-79	8557
11	UNIV OF WASHINGTON	D H BROCKER	ARC	W T SULLIVAN	NAG 2-698	8714
11	UNIV OF WASHINGTON	D WEST	GSFC	P W HODGE	NAG 5-1444	8723
11	UNIV OF WASHINGTON	R PETRE	GSFC	B H MARGON	NAG 5-1518	8724
11	UNIV OF WASHINGTON	R PETRE	GSFC	S F ANDERSON	NAG 5-1623	8726
11	UNIV OF WASHINGTON	R PETRE	GSFC	P SZKODY	NAG 5-1927	8728
11	UNIV OF WASHINGTON	R PETRE	GSFC	G WALLERSTEIN	NAG 5-1984	8729
11	UNIV OF WASHINGTON	D WEST	GSFC	P A SZKODY	NAG 5-2114	8730
11	UNIV OF WASHINGTON	J R FISCHER	GSFC	G LAKE	NAG 5-2213	8731
11	UNIV OF WASHINGTON	R OLIVERSEN	GSFC	P A SZKODY	NAG 5-2303	8733
11	UNIV OF WASHINGTON	R OLIVERSEN	GSFC	P SZKODY	NAG 5-2315	8734
11	UNIV OF WASHINGTON	D WEST	GSFC	P SZKODY	NAG 5-2356	8735
11	UNIV OF WASHINGTON	N WHITE	GSFC	P SZKODY	NAG 5-2767	8736
11	UNIV OF WASHINGTON	D WEST	GSFC	C J HOGAN	NAG 5-2793	8737
11	UNIV OF WASHINGTON	S HEAP	GSFC	P W HODGE	NAG 5-3034	8742
11	UNIV OF WASHINGTON	J VARGAS	MSFC	J E DEETER	NAG 8-207	8745
11	UNIV OF WASHINGTON	M ZOLENSKY	JSC	D E BROWNLEE	NAG 9-683	8750
11	UNIV OF WASHINGTON	G S KUTTER	HQ	C J HOGAN	NAGW 2523	8766
11	UNIV OF WASHINGTON	L J CAROFF	HQ	C J HOGAN	NAGW 2569	8768
11	UNIV OF WASHINGTON	G S KUTTER	HQ	G LAKE	NAGW 2676	8772
11	UNIV OF WASHINGTON	G R RIEGLER	HQ	P SZKODY	NAGW 3158	8776
11	UNIV OF WASHINGTON	L LAPIANA	HQ	C J HOGAN	NAGW 3251	8779
11	UNIV OF WASHINGTON	Y PENDLETON	ARC	J B ADAMS	NCC 2-5084	8820
11	UNIV OF WASHINGTON	D K RUSSELL	HQ	G LAKE	NGT 00-070-314	8856

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11	UNIV OF WASHINGTON	D K RUSSELL	HQ	B MARGON	NGT 00-070-325	8857
11	UNIV OF WASHINGTON	G A SOFFEN	GSFC	C J HOGAN	NGT 5-6	8858
11	UNIV OF WASHINGTON	D WEST	GSFC	E BOHM-VITENSE	NSG-5398	8859
11	WASHINGTON ST UNIV	J K ALEXANDER	HQ	S HUDSON	NAGW 2823	8864
11	WASHINGTON ST UNIV	L K KALUZIENSKI	HQ	P HINK	NAGW 4261	8867
11	WASHINGTON ST UNIV	H BRINTON	HQ	R HUDSON	NAGW 4636	8868
11	W VA WEYSLEYAN COL	J A NUTH	GSFC	P A WITHEY	NCC 5-71	8899
11	BELOIT COLLEGE	S SOBIESKI	GSFC	D J SCHROEDER	NAG 5-1620	8906
11	UNIV WISC-MADISON	C D LAUGHLIN	ARC	E B CHURCHWELL	NAG 2-859	8929
11	UNIV WISC-MADISON	Y KONDO	GSFC	J A CARDELLI	NAG 5-832	8939
11	UNIV WISC-MADISON	D WEST	GSFC	K H NORDSIECK	NAG 5-1463	8942
11	UNIV WISC-MADISON	S SOBIESKI	GSFC	R C BLESS	NAG 5-1613	8944
11	UNIV WISC-MADISON	R PETRE	GSFC	J P CASSINELLI	NAG 5-1683	8945
11	UNIV WISC-MADISON	D WEST	GSFC	B SAVAGE	NAG 5-1806	8946
11	UNIV WISC-MADISON	R PETRE	GSFC	J P CASSINELLI	NAG 5-1841	8947
11	UNIV WISC-MADISON	A SMITH	GSFC	B D SAVAGE	NAG 5-1852	8948
11	UNIV WISC-MADISON	R PETRE	GSFC	H B OGELMAN	NAG 5-1893	8949
11	UNIV WISC-MADISON	R PETRE	GSFC	W T SANDERS	NAG 5-1894	8950
11	UNIV WISC-MADISON	J P NORRIS	GSFC	W KLUZNIAK	NAG 5-2034	8951
11	UNIV WISC-MADISON	R PETRE	GSFC	M JUDA	NAG 5-2066	8952
11	UNIV WISC-MADISON	D WEST	GSFC	C M ANDERSON	NAG 5-2169	8953
11	UNIV WISC-MADISON	D WEST	GSFC	J P CASSINELLI	NAG 5-2282	8954
11	UNIV WISC-MADISON	R PETRE	GSFC	J G HOESSEL	NAG 5-2534	8955
11	UNIV WISC-MADISON	N WHITE	GSFC	H B OGELMAN	NAG 5-2557	8956
11	UNIV WISC-MADISON	R J OLIVERSEN	GSFC	C M ANDERSON	NAG 5-2602	8958
11	UNIV WISC-MADISON	R J OLIVERSEN	GSFC	F SCHERB	NAG 5-2650	8959
11	UNIV WISC-MADISON	N WHITE	GSFC	E CHURCHWELL	NAG 5-2691	8960
11	UNIV WISC-MADISON	N WHITE	GSFC	J CASSINELLI	NAG 5-2705	8962
11	UNIV WISC-MADISON	R L KELLEY	GSFC	D MCCAMMON	NAG 5-2720	8963
11	UNIV WISC-MADISON	R W STEWART	GSFC	M H HITCHMAN	NAG 5-2722	8964
11	UNIV WISC-MADISON	D WEST	GSFC	J P CASSINELLI	NAG 5-2854	8967
11	UNIV WISC-MADISON	D WEST	GSFC	H OGELMAN	NAG 5-3021	8971
11	UNIV WISC-MADISON	N GEHRELS	GSFC	W SANDERS	NAG 5-3051	8972
11	UNIV WISC-MADISON	D WEST	GSFC	W T SANDERS	NAG 5-3080	8973
11	UNIV WISC-MADISON	G C CLAYTON	HQ	V CASSINELLA	NAGW 422	8978
11	UNIV WISC-MADISON	G C CLAYTON	HQ	J S MATHIS	NAGW 1768	8980
11	UNIV WISC-MADISON	G R RIEGLER	HQ	J J MACFARLANE	NAGW 2210	8983
11	UNIV WISC-MADISON	G S KUTTER	HQ	L S SPARKE	NAGW 2420	8985
11	UNIV WISC-MADISON	G S KUTTER	HQ	J A CARDELLI	NAGW 2520	8986
11	UNIV WISC-MADISON	G S KUTTER	HQ	D P COX	NAGW 2532	8987
11	UNIV WISC-MADISON	G S KUTTER	HQ	H B OGELMAN	NAGW 2643	8989
11	UNIV WISC-MADISON	R STACHNIK	HQ	J E LAWLER	NAGW 2908	8992
11	UNIV WISC-MADISON	R STACHNIK	HQ	K BJORKMAN	NAGW 2921	8993
11	UNIV WISC-MADISON	H C BRINTON	HQ	F SCHERH	NAGW 3319	9000
11	UNIV WISC-MADISON	R V STACHNIK	HQ	C L JOSEPH	NAGW 3660	9002
11	UNIV WISC-MADISON	R V STACHNIK	HQ	J S MATHIS	NAGW 3833	9005
11	UNIV WISC-MADISON	J H RAHE	HQ	E CHURCHWELL	NAGW 3877	9006
11	UNIV WISC-MADISON	R V STACHNIK	HQ	C L JOSEPH	NAGW 4100	9016
11	UNIV WISC-MADISON	R V STACHNIK	HQ	C L JOSEPH	NAGW 4273	9020
11	UNIV WISC-MADISON	G R RIEGLER	HQ	J BJORKMAN	NAGW 4527	9022
11	UNIV WISC-MADISON	T KOSTIUK	HQ	J ANDERSON	NAGW 4651	9023
11	UNIV WISC-MADISON	S C DUNKER	GSFC	W T DUNKER	NAS 5-26078	9026
11	UNIV WISC-MADISON	J H OWENS	MSFC	A D COPE	NAS 5-26777	9027
11	UNIV WISC-MADISON	H D VITAGLIANO	GSFC	F ROESLER	NAS 5-30131	9028
11	UNIV WISC-MADISON	D WEST	GSFC	P WANG	NAS 5-32646	9034
11	UNIV WISC-MADISON	R R JAYRO	MSFC	W T SANDERS	NAS 8-38664	9037
11	UNIV WISC-MADISON	J K ALEXANDER	HQ	B D SAVAGE	NGT 00-051-003	9047
11	UNIV WISC-MADISON	D HOLLAND	HQ	E CHURCHWELL	NGT 00-051-132	9049
11	UNIV OF WYOMING	E F ERICKSON	ARC	H A THRONSON	NAG 2-982	9071
11	UNIV OF WYOMING	R PETRE	GSFC	H THRONSON	NAG 5-2709	9073

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11	UNIV OF WYOMING	H C BRINTON	HQ	R R HOWELL	NAGW 1276	9078
11	U PUERTO RICO-MAYAGZ	F SIX	MSFC	J MACARI	NAG 8-193	9092
12	TUSKEGEE UNIVERSITY	K THOMPSON	KSC	N VAHDAT	NAG10-125	1069
12	TUSKEGEE UNIVERSITY	B DELIWALA	KSC	K HAILE	NAG10-176	1073
12	UNIV ALA-BIRMINGHAM	M MEYER	HQ	J C LACEY	NAGW 1512	1081
12	UNIV ALA-BIRMINGHAM	P ROGERS	HQ	T J WDOVIK	NAGW 4158	1086
12	UNIV ALA-HUNTSVILLE	F C OWENS	HQ	J M HARRIS	NGT 00-050-753	1184
12	UNIV ALA-HUNTSVILLE	D K RUSSELL	HQ	P C RICHARDS	NGT 00-070-390	1194
12	UNIV OF ARIZONA	M P VOLZ	MSFC	K A JACKSON	NAG 8-944	1420
12	UNIV OF ARIZONA	P ROGERS	HQ	J H BLACK	NAGW 4126	1514
12	UNIV ARKANSAS-LTL RK	C J BRYAN	KSC	T VISWANATHAN	NAG10-156	1587
12	CALIF INST OF TECH	R PETRE	GSFC	S KULKARNI	NAG 5-2911	1633
12	CALIF INST OF TECH	N WHITE	GSFC	A LANGE	NAG 5-2966	1636
12	CALIF INST OF TECH	J D RUMMEL	HQ	G A BLAKE	NAGW 1955	1649
12	CALIF INST OF TECH	D A HOLLAND	HQ	R A MEWALDT	NAGW 4666	1702
12	CALIF INST OF TECH	H ASHKENAS	JPL	M OKUMURA	NGT 00-050-727	1715
12	CALIF INST OF TECH	F C OWENS	HQ	E M STOLPER	NGT 00-050-800	1717
12	CALIF INST OF TECH	H ASHKENAS	JPL	M OKUMURA	NGT 00-050-890	1719
12	CALIF INST OF TECH	D HOLLAND	HQ	D BURNETT	NGT 00-051-084	1723
12	CALIF INST OF TECH	C HIX	JPL	G A BLAKE	NGT 00-051-276	1728
12	SAN JOSE STATE UNIV	J VALENTIN	ARC	J F BECKER	NCC 2-5142	1869
12	UNIV CALIF-BERKELEY	R OLIVERSEN	GSFC	S YENNEZ	NAG 5-2636	2087
12	UNIV CALIF-BERKELEY	J D RUMMEL	HQ	R J SAYKALLY	NAGW 2763	2125
12	UNIV CALIF-BERKELEY	J K ALEXANDER	HQ	R J SAYKALLY	NGT 00-050-939	2224
12	UNIV CALIF-BERKELEY	D HOLLAND	HQ	R J SAYKALLY	NGT 00-051-378	2239
12	UNIV CALIF-DAVIS	J D RUMMEL	HQ	D W DEAMER	NAGW 1119	2268
12	UNIV CALIF-DAVIS	J H RAHE	HQ	W JACKSON	NAGW 4016	2269
12	UNIV CALIF-RIVERSIDE	B J HERREN	MSFC	A MCPHERSON	NAG 8-956	2502
12	UNIV CALIF-RIVERSIDE	B J HERRON	MSFC	A MCPHERSON	NAG 8-957	2503
12	UNIV CALIF-SAN DIEGO	I D BROWNE	JSC	J R ARNOLD	NAG 9-33	2554
12	UNIV CALIF-SAN FRAN	S CHANG	ARC	A POHORILLE	NCA 2-792	2640
12	UNIV CALIF-SAN FRAN	S CHANG	ARC	A POHORILLE	NCC 2-772	2644
12	UNIV CALIF-SAN FRAN	S CHANG	ARC	A POHORILLE	NCC 2-5073	2646
12	UNIV CALIF-S CRUZ	S CHANG	ARC	A KANAVARIOTI	NCC 2-534	2714
12	UNIV COLORADO-BOLDR	J ALEXANDER	HQ	M TOLBERT	NGT 00-050-923	3099
12	UNIV COLORADO-BOLDR	G LESANE	HQ	M A TOLBERT	NGT 00-051-135	3109
12	UNIV COLORADO-BOLDR	A NOVOTNY	HQ	M TOLBERT	NGT 00-051-415	3124
12	CATHOLIC UNIVERSITY	D WEST	GSFC	F C BRUHWELLER	NAG 5-2126	3301
12	CATHOLIC UNIVERSITY	L J STIEF	GSFC	F L NESBITT	NCC 5-68	3307
12	CATHOLIC UNIVERSITY	D F NAVA	GSFC	D GUIMAN	NSG-5173	3312
12	FLORIDA STATE UNIV	M C LEE	HQ	E MANOUSAKIS	NAGW 3326	3409
12	UNIV OF CENTRAL FLA	P WELCH	KSC	C A CLAUSEN	NAG10-94	3425
12	UNIV OF FLORIDA	C M WONG	ARC	R A YOST	NAG 2-837	3460
12	UNIV OF FLORIDA	H L NGUYEN	LERC	G J MICKLOW	NAG 3-1113	3463
12	UNIV OF FLORIDA	M A MEADOR	LERC	R S DURAN	NCC 3-255	3505
12	UNIV OF FLORIDA	G LESANE	HQ	R DURAN	NGT 00-051-418	3518
12	UNIV OF WEST FLORIDA	K W STREET	LERC	S P TANNER	NCC 3-346	3574
12	GEORGIA SOUTHERN COL	B DONN	GSFC	R H NELSON	NAG 5-496	3712
12	SPELMAN COLLEGE	B G PENN	MSFC	B H CARDELINO	NCC 8-71	3731
12	UNIV OF HAWAII-MANOA	J D RUMMEL	HQ	T C OWEN	NAGW 2631	3800
12	NORTHWESTERN UNIV	L E MOORE	MSFC	W D SPROUL	NAG 8-1020	3906
12	NORTHWESTERN UNIV	S R LANGHOFF	ARC	G C SCHATZ	NCC 2-774	3919
12	NORTHWESTERN UNIV	D K RUSSELL	HQ	T MARKS	NGT 00-070-355	3928
12	SO ILL UNIV-CARBONDL	J R VALENTIN	ARC	J B PHILLIPS	NCA 2-718	3931
12	SO ILL UNIV-CARBONDL	F C OWENS	HQ	J B PHILLIPS	NGT 00-070-233	3935
12	UNIV ILLINOIS-URBANA	N WHITE	GSFC	Y CHU	NAG 5-2973	4084
12	MANCHESTER COLLEGE	C HUNG	LERC	E G MILLER	NCC 3-317	4153
12	PURDUE UNIVERSITY	A F HEPP	LERC	C P KUBIAK	NAG 3-1336	4177
12	PURDUE UNIVERSITY	A F HEPP	LERC	P E FANWICK	NCC 3-380	4206
12	UNIV OF NOTRE DAME	T Y MILLER	MSFC	D T LEIGHTON	NAG 8-1080	4237

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12	JOHNS HOPKINS UNIV	N WHITE	GSFC	G KRISS	NAG 5-2935	4565
12	UNIV MARYLAND-COL PK	J W KELLER	GSFC	J WEINER	NAG 5-1966	4696
12	UNIV MARYLAND-COL PK	J C PEARL	GSFC	R K KHANNA	NAG 5-2647	4730
12	U OF MD-BALT. COUNTY	D K RUSSELL	HQ	J VINCENT	NGT 00-070-331	4892
12	HARVARD UNIVERSITY	D NAVA	HQ	M FRANKLIN	NAGW 4609	4996
12	HARVARD UNIVERSITY	F MONTEGANI	LERC	A R BARRON	NGT 00-050-942	5023
12	MASS INST OF TECH	R C DARTY	MSFC	J SZEKELY	NAG 8-970	5137
12	MASS INST OF TECH	R C DARTY	MSFC	J SZEKELY	NAG 8-1078	5140
12	WOODSHOLE OCEAN INST	D A HOLLAND	HQ	G E RAVIZZA	NAGW 4720	5327
12	UNIV MICH-ANN ARBOR	J D RUMMEL	HQ	J C WALKER	NAGW 176	5431
12	U MINN-MNPLS-ST PAUL	S R LANGHOFF	ARC	D G TRUHLAR	NAG 2-880	5545
12	TOUGALOO COLLEGE	G A LASANE	HQ	G V BRUNO	NAGW 4152	5637
12	UNIV MO-COLUMBIA	S R LANGHOFF	ARC	G D SMITH	NCC 2-903	5676
12	UNIV MO-ROLLA	E C ETHRIDGE	MSFC	C S RAY	NAG 8-898	5682
12	UNIV MO-ST LOUIS	J A HINKLEY	LARC	W J WELSH	NAG 1-1656	5686
12	WASHINGTON UNIVERSTY	M MEYER	HQ	E L SHOCK	NAGW 2818	5706
12	WASHINGTON UNIVERSTY	W V JONES	HQ	J KLARMAN	NAGW 3424	5720
12	WASHINGTON UNIVERSTY	P G ROGERS	HQ	B FEGLEY JR.	NAGW 4521	5727
12	RUTGERS ST U-PISCTWY	M L PUSEY	MSFC	D ARNOLD	NAG 8-975	5990
12	NM HIGHLANDS UNIV	B G PENN	MSFC	R D CLARK	NAG 8-1057	6024
12	NEW MEX ST U-LAS CR	D K RUSSELL	HQ	P HYNES	NGT 00-090-255	6072
12	CORNELL UNIVERSITY	J RUMMEL	HQ	D A USHER	NAGW 493	6262
12	CORNELL UNIVERSITY	M MEYER	HQ	C SAGAN	NAGW 1896	6269
12	CORNELL UNIVERSITY	P ROGERS	HQ	R POHL	NAGW 4062	6297
12	POLYTECHNIC U	R L KROES	MSFC	A S MYERSON	NAG 8-960	6359
12	POLYTECHNIC U	K THOMPSON	KSC	K LEVON	NAG10-173	6361
12	POLYTECHNIC U	K THOMPSON	KSC	E D WEIL	NAG10-174	6362
12	RENSSELAER POLY-NY	J W CONNELL	LARC	J V CRIVELLO	NAG 1-980	6364
12	RENSSELAER POLY-NY	D L PALUMBO	LARC	J HADDOCK	NAG 1-1469	6366
12	RENSSELAER POLY-NY	D J LARKIN	LERC	L V INTERRANTE	NAG 3-1565	6374
12	RENSSELAER POLY-NY	D LARKIN	LERC	L V INTERRANTE	NAG 3-1776	6376
12	RENSSELAER POLY-NY	J D RUMMEL	HQ	J P FERRIS	NAGW 2781	6382
12	RENSSELAER POLY-NY	J ALEXANDER	HQ	J P FERRIS	NGT 00-050-918	6395
12	STATE U NY-STONY BRK	N WHITE	GSFC	F WALTER	NAG 5-2936	6465
12	DUKE UNIVERSITY	M C LEE	HQ	H MEYER	NAGW 3328	6543
12	UNIV N CAR-CHPL HILL	D HOLLAND	HQ	R E MILLER	NGT 00-051-288	6669
12	WAKE FOREST UNIV	D H PHILLIPS	LARC	C F JACKELS	NCC 1-55	6673
12	BALDWIN-WALLACE COL	K W STREET	LERC	J GORSE	NCC 3-268	6689
12	BALDWIN-WALLACE COL	E G WINTUCKY	LERC	J W MCCARGAR	NCC 3-300	6690
12	CASE WESTERN RESERVE	M A MEADOR	LERC	C N JUKENIK	NCC 3-112	6731
12	CASE WESTERN RESERVE	M A MEADOR	LERC	C N SUKENIK	NCC 3-377	6765
12	CASE WESTERN RESERVE	C HIX	JPL	G KLOPMAN	NGT 00-051-041	6776
12	CASE WESTERN RESERVE	F J MONTEGANI	LERC	D SCHERSON	NGT 00-070-281	6786
12	CLEVELAND STATE UNIV	R L DAVIES	LERC	R G MEGARGLE	NCC 3-122	6821
12	CLEVELAND STATE UNIV	A F HEPP	LERC	S A DURAJ	NCC 3-162	6824
12	CLEVELAND STATE UNIV	F I HURWITZ	LERC	J MASNOVI	NCC 3-376	6849
12	UNIV OF AKRON	P M HERGENROTHER	LARC	F W HARRIS	NAG 1-448	6977
12	UNIV OF AKRON	M A MEADOR	LERC	W J YOUNGS	NCC 3-225	7006
12	UNIV OF TOLEDO	M J RABINOWITZ	LERC	K J DEWITT	NAG 3-1307	7084
12	UNIV OF TULSA	F SIX	MSFC	L DUNCAN	NAG 8-1005	7146
12	OREGON STATE UNIV	J D RUMMEL	HQ	B R SIMONEIT	NAGW 2833	7166
12	LEHIGH UNIVERSITY	D M KORNFELD	MSFC	J W VANDERHOFF	NAG 8-972	7268
12	PENN STATE U-UNIV PK	M J RABINOWITZ	LERC	M Y FRENKLACH	NAG 3-991	7295
12	PENN STATE U-UNIV PK	N WHITE	GSFC	R CORBET	NAG 5-2975	7340
12	PENN STATE U-UNIV PK	F MONTEGANI	LERC	H R ALLOCK	NGT 00-051-131	7421
12	BROWN UNIVERSITY	F C OWENS	HQ	C M PIETERS	NGT 00-050-558	7530
12	VANDERBILT UNIVERSTY	R C DARTY	MSFC	R J BAYUZICK	NAG 8-978	7712
12	LAMAR UNIVERSITY	D S MCKAY	JSC	J L JORDAN	NAS 9-19161	7767
12	SW TEXAS STATE UNIV	A K ST CLAIR	LARC	P E CASSIDY	NAG 1-631	7844
12	SW TEXAS STATE UNIV	E J PRIOR	LARC	P E CASSIDY	NGT 00-070-271	7845

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12	TEXAS A&M UNIVERSITY	M MOORE	ARC	M B HALL	NGT 00-051-337	7932
12	TEXAS SOUTHERN UNIV	D S MCKAY	JSC	B L WILSON	NAG 9-299	7950
12	UNIV HOUSTON	D HOLLAND	HQ	G E FOX	NGT 00-051-085	7999
12	UNIV TEXAS-AUSTIN	J K ALEXANDER	HQ	T KODADEK	NGT 00-050-869	8174
12	COLLEGE OF WM & MARY	E R LONG	LARC	D E KRANBUEHL	NAG 1-237	8325
12	COLLEGE OF WM & MARY	E R LONG	LARC	D E KRANBUEHL	NAG 1-1019	8327
12	COLLEGE OF WM & MARY	P R YOUNG	LARC	R A OKWALL	NAG 1-1548	8330
12	COLLEGE OF WM & MARY	W JACKSON	LARC	M K HINDERS	NAG 1-1647	8335
12	COLLEGE OF WM & MARY	L EVANS	LARC	R A ORWOLL	NGT 00-051-258	8348
12	COLLEGE OF WM & MARY	F C OWENS	HQ	R A ORWOLL	NGT 00-070-211	8349
12	HAMPTON UNIVERSITY	P M HERGENROTHER	LARC	G NWOKOGU	NAG 1-905	8377
12	NORFOLK STATE UNIV	P R YOUNG	LARC	L MATTIX	NAG 1-1453	8397
12	OLD DOMINION UNIV	L EVANS	LARC	J B COOPER	NGT 00-051-253	8473
12	UNIV OF VIRGINIA	J A HINKLEY	LARC	B L FARMER	NGT 1-52100	8596
12	VIRGINIA POLY INST	P M HERGENROTHER	LARC	G L WILKES	NAG 1-1101	8609
12	VIRGINIA POLY INST	W S SLEMP	LARC	J P WIGHTMAN	NAG 1-1186	8611
12	VIRGINIA COMNWLTH U	P M HERGENROTHER	LARC	R G BASS	NAG 1-1251	8690
12	UNIV OF WASHINGTON	B MCLACHLAN	ARC	M GOUTERMAN	NCA 2-658	8817
12	UNIV OF WASHINGTON	B MCLACHLAN	ARC	M GOUTERMAN	NCA 2-2002	8818
12	UNIV OF WASHINGTON	B HASTINGS	ARC	M GOUTERMAN	NGT 00-050-933	8849
12	ST NORBERT COLLEGE	P DELVIGS	LERC	D KLOPOTEK	NAS 3-27554	8919
12	UNIV WISC-MADISON	R PETRE	GSFC	R MATHIEU	NAG 5-2915	8970
12	U PUERTO RICO-MAYAGZ	B PENN	MSFC	A LEYDERMAN	NCC 8-37	9099
13	ALABAMA A&M UNIV	G ADAMOUSKY	LERC	P VENKETESWARLU	NAG 3-1408	1000
13	ALABAMA A&M UNIV	J L RANDALL	MSFC	M C GEORGE	NAG 8-107	1003
13	ALABAMA A&M UNIV	J L RANDALL	MSFC	M D AGGARWAL	NAG 8-125	1004
13	ALABAMA A&M UNIV	G FICHTL	MSFC	K J CHANG	NAG 8-173	1005
13	ALABAMA A&M UNIV	G H FICHTL	MSFC	R B LAL	NAG 8-203	1009
13	ALABAMA A&M UNIV	G A FICHTL	MSFC	R B LAL	NAG 8-251	1010
13	ALABAMA A&M UNIV	W J LOVE	MSFC	B R REDDY	NAG 8-1125	1013
13	ALABAMA A&M UNIV	B PENN	MSFC	R B LAL	NAG 8-1129	1014
13	ALABAMA A&M UNIV	G H FICHTL	MSFC	P VENKATESWARLU	NCC 8-27	1020
13	ALABAMA A&M UNIV	D FRAZIER	MSFC	P B LAI	NGT 8-52811	1022
13	AUBURN UNIV-AUBURN	E C WHIPPLE	HQ	S F KNOWLTON	NAGW 4005	1035
13	AUBURN UNIV-AUBURN	M J CINTALA	JSC	M F ROSE	NCC 9-27	1040
13	AUBURN UNIV-AUBURN	F SIX	MSFC	J D PEREZ	NGT 00-051-046	1044
13	TUSKEGEE UNIVERSITY	V K RAWLIN	LERC	P K RAY	NAG 3-1388	1061
13	TUSKEGEE UNIVERSITY	D JEX	MSFC	K DAS	NAG 8-1083	1064
13	UNIV ALA-BIRMINGHAM	F C GILLETT	HQ	T J WDOWIAK	NAGW 749	1079
13	UNIV ALA-BIRMINGHAM	M MEYER	HQ	T J WDOWIAK	NAGW 4079	1085
13	UNIV ALA-BIRMINGHAM	F SIX	MSFC	D G AGRESTI	NGT 00-050-879	1094
13	UNIV ALA-BIRMINGHAM	F SIX	MSFC	D L SHEALY	NGT 00-050-880	1095
13	UNIV ALA-HUNTSVILLE	M L GOLDSTEIN	GSFC	J A MILLER	NAG 5-2932	1113
13	UNIV ALA-HUNTSVILLE	T E MOORE	MSFC	R H COMFORT	NAG 8-239	1117
13	UNIV ALA-HUNTSVILLE	S L LEHOCZKY	MSFC	E E ANDERSON	NAG 8-767	1119
13	UNIV ALA-HUNTSVILLE	J M DAVIS	MSFC	Z MUSIELAK	NAG 8-839	1121
13	UNIV ALA-HUNTSVILLE	J W KAUFMAN	MSFC	R J HUNG	NAG 8-938	1125
13	UNIV ALA-HUNTSVILLE	T MILLER	MSFC	F ROSENBERGER	NAG 8-950	1126
13	UNIV ALA-HUNTSVILLE	H S AHLUWALIA	HQ	A G EMSLIE	NAGW 294	1140
13	UNIV ALA-HUNTSVILLE	M M MELLOTT	HQ	P G RICHARDS	NAGW 996	1142
13	UNIV ALA-HUNTSVILLE	M M MELLOTT	HQ	J L HORWITZ	NAGW 1554	1143
13	UNIV ALA-HUNTSVILLE	M M MELLOTT	HQ	R H COMFORT	NAGW 1630	1144
13	UNIV ALA-HUNTSVILLE	M M MELLOTT	HQ	Y TAKAHASHI	NAGW 1651	1145
13	UNIV ALA-HUNTSVILLE	W V JONES	HQ	J C GREGORY	NAGW 2023	1146
13	UNIV ALA-HUNTSVILLE	M M MELLOTT	HQ	N SINGH	NAGW 2128	1147
13	UNIV ALA-HUNTSVILLE	J D BOHLIN	HQ	N SINGH	NAGW 2903	1149
13	UNIV ALA-HUNTSVILLE	E C WHIPPLE	HQ	G R WILSON	NAGW 3470	1151
13	UNIV ALA-HUNTSVILLE	W V JONES	HQ	Y TAKAHASHI	NAGW 3540	1152
13	UNIV ALA-HUNTSVILLE	W J WAGNER	HQ	A G EMSLIE	NAGW 3617	1153
13	UNIV ALA-HUNTSVILLE	M M MELLOTT	HQ	D G TORR	NAGW 3692	1155

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13	UNIV ALA-HUNTSVILLE	M M MELLOTT	HQ	M P HICKEY	NAGW 3979	1156
13	UNIV ALA-HUNTSVILLE	E C WHIPPLE	HQ	N SINGH	NAGW 4086	1157
13	UNIV ALA-HUNTSVILLE	W V JONES	HQ	J A MILLER	NAGW 4378	1159
13	UNIV ALA-HUNTSVILLE	J D BOHLIN	HQ	N SINGH	NAGW 4470	1160
13	UNIV ALA-HUNTSVILLE	J D BOHLIN	HQ	J L HORWITZ	NAGW 4500	1161
13	UNIV ALA-HUNTSVILLE	W J WAGNER	HQ	S T WU	NAGW 4665	1162
13	UNIV ALA-HUNTSVILLE	G H FICTAL	MSFC	M R TORR	NAS 8-38145	1167
13	UNIV ALA-HUNTSVILLE	U URBAN	MSFC	S T WU	NCC 8-65	1180
13	UNIV ALA-HUNTSVILLE	M BURRELL	GSFC	R T MCNIDER	NGT 00-051-031	1185
13	UNIV ALA-HUNTSVILLE	D HOLLAND	HQ	J L HORWITZ	NGT 00-051-299	1186
13	UNIV ALA-HUNTSVILLE	J LYNCH	HQ	J I ALEXANDER	NGT 00-051-355	1187
13	UNIV ALA-HUNTSVILLE	F SIX	MSFC	J L HORWITZ	NGT 00-051-400	1189
13	UNIV ALA-HUNTSVILLE	D G RICKORES	JSC	C W HAWK	NGT 9-5	1201
13	UNIV ALA-TUSCALOOSA	W T POWERS	MSFC	K W WHITAKER	NAG 8-279	1214
13	UNIV ALA-TUSCALOOSA	J BOHLIN	HQ	P G RICHARDS	NAGW 4455	1225
13	UNIV ALASKA-FAIRBNKS	L J EARLY	GSFC	C S DEEHR	NAG 5-693	1240
13	UNIV ALASKA-FAIRBNKS	S A CURTIS	GSFC	M H REES	NAG 5-1097	1243
13	UNIV ALASKA-FAIRBNKS	T J BIRMINGHAM	GSFC	L C LEE	NAG 5-1504	1244
13	UNIV ALASKA-FAIRBNKS	L J EARLY	GSFC	E WESCOTT	NAG 5-5000	1246
13	UNIV ALASKA-FAIRBNKS	L J EARLY	GSFC	D D SENTMAN	NAG 5-5019	1248
13	UNIV ALASKA-FAIRBNKS	D L REASONER	HQ	T J HALINAN	NAGW 2857	1256
13	UNIV ALASKA-FAIRBNKS	D L REASONER	HQ	D LUMMERZHEIM	NAGW 3037	1258
13	UNIV ALASKA-FAIRBNKS	M M MELLOTT	HQ	J D CRAVEN	NAGW 3436	1259
13	UNIV ALASKA-FAIRBNKS	E C WHIPPLE	HQ	J D CRAVEN	NAGW 3441	1260
13	UNIV ALASKA-FAIRBNKS	R HOWARD	HQ	H C STENBAEK-NIELSEN	NAGW 4048	1263
13	ARIZONA STATE UNIV	J RAHE	HQ	S LARSEN	NAGW 4506	1329
13	UNIV OF ARIZONA	L J EARLY	GSFC	A L BROADFOOT	NAG 5-637	1385
13	UNIV OF ARIZONA	T J BIRMINGHAM	GSFC	J R JOKIPII	NAG 5-2251	1393
13	UNIV OF ARIZONA	J C LING	HQ	J R JOKIPPI	NAGW 1931	1443
13	UNIV OF ARIZONA	M D BICAY	HQ	W F HOFFMAN	NAGW 2357	1460
13	UNIV OF ARIZONA	W V JONES	HQ	J KOTA	NAGW 2549	1468
13	UNIV OF ARIZONA	E C WHIPPLE	HQ	F HERBERT	NAGW 3440	1493
13	UNIV OF ARIZONA	E C WHIPPLE	HQ	C CURTIS	NAGW 3635	1501
13	UNIV OF ARIZONA	W V JONES	HQ	A BROADFOOT	NAGW 3657	1503
13	UNIV OF ARIZONA	W V JONES	HQ	J KOTA	NAGW 4542	1519
13	UNIV OF ARIZONA	D HOLLAND	HQ	F MELIA	NGT 00-051-304	1573
13	UNIV ARKANSAS-LTL RK	W W ST. CYR	SSC	K HUDSON	NAG13-26	1588
13	CALIF INST OF TECH	R C DARTY	MSFC	W L JOHNSON	NAG 8-954	1637
13	CALIF INST OF TECH	J D BOHLIN	HQ	H ZIRIN	NAGW 1972	1651
13	CALIF INST OF TECH	J K ALEXANDER	HQ	R A MEWALDT	NAGW 2806	1665
13	CALIF INST OF TECH	W V JONES	HQ	E C STONE	NAGW 3012	1671
13	CALIF INST OF TECH	W J WAGNER	HQ	P GOLDREICH	NAGW 3018	1672
13	CALIF INST OF TECH	W J WAGNER	HQ	G J HURFORD	NAGW 3994	1688
13	CALIF INST OF TECH	W J WAGNER	HQ	K G LIBBRECHT	NAGW 4058	1692
13	CALIF INST OF TECH	D E NEW	HQ	T HAMILTON	NAGW 4110	1693
13	CALIF INST OF TECH	W J WAGNER	HQ	D E GARY	NAGW 4563	1700
13	CALIF INST OF TECH	J LAUDADIO	GSFC	E STONE	NAS 5-31459	1707
13	CALIF INST OF TECH	A ASHKENAS	JPL	G NEUGEBAVER	NGT 00-050-893	1721
13	CALIF INST OF TECH	D HOLLAND	HQ	R MEWALDT	NGT 00-051-156	1724
13	CALIF INST OF TECH	F SIX	MSFC	T A PRINCE	NGT 00-051-184	1725
13	CALIF INST OF TECH	F SIX	MSFC	J CARLSTROM	NGT 00-051-201	1726
13	CALIF INST OF TECH	G SOFFEN	GSFC	T G PHILLIPS	NGT 00-051-212	1727
13	CALIF INST OF TECH	J K ALEXANDER	HQ	R A HREWALDS	NGT 00-070-287	1732
13	CAL STATE U-LG BEACH	N R HALL	LERC	J LIU	NAG 3-1634	1766
13	SAN JOSE STATE UNIV	J VALENTIN	ARC	J F BECKER	NCC 2-5132	1867
13	SAN JOSE STATE UNIV	F C OWENS	HQ	J F BECKER	NGT 00-070-227	1872
13	STANFORD UNIVERSITY	S R LANGHOFF	ARC	C H KRUGER	NAG 2-910	1903
13	STANFORD UNIVERSITY	L J EARLY	GSFC	J G TIMOTHY	NAG 5-664	1910
13	STANFORD UNIVERSITY	M M MELLOTT	HQ	U S INAN	NAGW 1582	1922
13	STANFORD UNIVERSITY	M M MELLOTT	HQ	R A HELLIWELL	NAGW 1680	1923

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13	STANFORD UNIVERSITY	J D BOHLIN	HQ	V PETROSIAN	NAGW 1976	1925
13	STANFORD UNIVERSITY	W WAGNER	HQ	P A STURROCK	NAGW 2265	1927
13	STANFORD UNIVERSITY	L J KALUZIENSKI	HQ	P A STURROCK	NAGW 2290	1928
13	STANFORD UNIVERSITY	D L RESONER	HQ	U INAN	NAGW 2871	1932
13	STANFORD UNIVERSITY	M M MELLOTT	HQ	U S INAN	NAGW 4738	1945
13	STANFORD UNIVERSITY	M KAPLAN	HQ	P E MICHELSON	NAGW 4746	1946
13	STANFORD UNIVERSITY	J GERVIN	GSFC	R H SCHERRER	NAS 5-30386	1949
13	STANFORD UNIVERSITY	R ISE	MSFC	C W EVERITT	NAS 8-36125	1952
13	STANFORD UNIVERSITY	R S GEVEDENS	MSFC	C W EVERITT	NAS 8-39225	1953
13	STANFORD UNIVERSITY	F C OWENS	HQ	A B WALKER	NGT 00-050-774	2012
13	STANFORD UNIVERSITY	J K ALEXANDER	HQ	J A LIPA	NGT 00-050-856	2013
13	STANFORD UNIVERSITY	J ALEXANDER	HQ	V PETROSIAN	NGT 00-050-938	2014
13	STANFORD UNIVERSITY	D A HOLLAND	HQ	J LIPA	NGT 00-051-153	2018
13	STANFORD UNIVERSITY	F C OWENS	HQ	A WALKER	NGT 00-070-182	2024
13	STANFORD UNIVERSITY	G SOFFEN	GSFC	A B WALKER	NGT 00-070-284	2027
13	STANFORD UNIVERSITY	D K RUSSELL	HQ	A WALKER	NGT 00-070-364	2033
13	STANFORD UNIVERSITY	L J EARLY	GSFC	A B WALKER	NSG-5131	2043
13	UNIV CALIF-BERKELEY	C R MCCREIGHT	ARC	P L RICHARDS	NAG 2-711	2047
13	UNIV CALIF-BERKELEY	L J EARLY	GSFC	C S BOWYER	NAG 5-696	2053
13	UNIV CALIF-BERKELEY	M H ACUNA	GSFC	R P LIN	NAG 5-959	2054
13	UNIV CALIF-BERKELEY	J D RUMMEL	HQ	A L BETZ	NAGW 681	2106
13	UNIV CALIF-BERKELEY	W V JONES	HQ	H J CRAWFORD	NAGW 1503	2109
13	UNIV CALIF-BERKELEY	M M MELLOTT	HQ	K A ANDERSON	NAGW 1795	2111
13	UNIV CALIF-BERKELEY	W V JONES	HQ	P B PRICE	NAGW 2000	2112
13	UNIV CALIF-BERKELEY	W V JONES	HQ	P B PRICE	NAGW 2104	2114
13	UNIV CALIF-BERKELEY	W J WAGNER	HQ	K A ANDERSON	NAGW 2452	2118
13	UNIV CALIF-BERKELEY	W WAGNER	HQ	B B STARK	NAGW 2516	2120
13	UNIV CALIF-BERKELEY	L KALUZIENSKI	HQ	O H SIEGMOND	NAGW 2640	2122
13	UNIV CALIF-BERKELEY	W J WAGNER	HQ	G H FISHER	NAGW 3429	2135
13	UNIV CALIF-BERKELEY	M M MELLOTT	HQ	C A CATTELL	NAGW 3473	2136
13	UNIV CALIF-BERKELEY	M M MELLOTT	HQ	C A CATTELL	NAGW 3977	2152
13	UNIV CALIF-BERKELEY	M M MELLOTT	HQ	R P LIN	NAGW 3978	2153
13	UNIV CALIF-BERKELEY	W J WAGNER	HQ	R P LIN	NAGW 4477	2163
13	UNIV CALIF-BERKELEY	W J WAGNER	HQ	G H FISHER	NAGW 4478	2164
13	UNIV CALIF-BERKELEY	M KAPLAN	HQ	M V HURWITZ	NAGW 4773	2169
13	UNIV CALIF-BERKELEY	D GALOPPO	GSFC	F S MOZER	NAS 5-30241	2173
13	UNIV CALIF-BERKELEY	F WAINSCOTT	GSFC	R LIN	NAS 5-30366	2174
13	UNIV CALIF-BERKELEY	W C ANSELM	GSFC	F S MOZER	NAS 5-30367	2175
13	UNIV CALIF-BERKELEY	F C OWENS	HQ	P L RICHARDS	NGT 00-050-603	2216
13	UNIV CALIF-BERKELEY	F C OWENS	HQ	R P LIN	NGT 00-050-607	2217
13	UNIV CALIF-BERKELEY	F C OWENS	HQ	S M KAHN	NGT 00-050-613	2218
13	UNIV CALIF-BERKELEY	F C OWENS	HQ	G F SMOOT	NGT 00-050-783	2219
13	UNIV CALIF-BERKELEY	F C OWENS	HQ	S CHAKRABARTI	NGT 00-050-787	2220
13	UNIV CALIF-BERKELEY	J ALEXANDER	HQ	P B PRICE	NGT 00-050-913	2222
13	UNIV CALIF-BERKELEY	D HOLLAND	HQ	O H SIEGMUND	NGT 00-051-062	2226
13	UNIV CALIF-BERKELEY	D HOLLAND	HQ	A E LANGE	NGT 00-051-076	2227
13	UNIV CALIF-BERKELEY	G LESANE	HQ	R PACKARD	NGT 00-051-269	2232
13	UNIV CALIF-BERKELEY	D HOLLAND	HQ	R P LIN	NGT 00-051-287	2234
13	UNIV CALIF-BERKELEY	D HOLLAND	HQ	F S MOZER	NGT 00-051-302	2235
13	UNIV CALIF-BERKELEY	D HOLLAND	HQ	F S MOZER	NGT 00-051-375	2237
13	UNIV CALIF-BERKELEY	D HOLLAND	HQ	G H FISHER	NGT 00-051-377	2238
13	UNIV CALIF-IRVINE	T J BIRMINGHAM	GSFC	G V HOVEN	NAG 5-2257	2329
13	UNIV CALIF-IRVINE	W V JONES	HQ	S W BARWICK	NAGW 2487	2339
13	UNIV CALIF-IRVINE	M M MELLOTT	HQ	N ROSTOKER	NAGW 2655	2340
13	UNIV CALIF-IRVINE	M MOORE	ARC	S P RUDEN	NGT 00-050-932	2354
13	UNIV CALIF-L ANGELES	S A CURTIS	GSFC	R J STRONGWAY	NAG 5-863	2379
13	UNIV CALIF-L ANGELES	S A CURTIS	GSFC	M A ABDALLA	NAG 5-1100	2380
13	UNIV CALIF-L ANGELES	M ACUNA	GSFC	M G KIVELSON	NAG 5-1167	2382
13	UNIV CALIF-L ANGELES	T J BIRMINGHAM	GSFC	M ASHOUR-ABDALLA	NAG 5-1480	2384
13	UNIV CALIF-L ANGELES	J D BOHLIN	HQ	R ULRICH	NAGW 472	2406

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13	UNIV CALIF-L ANGELES	M M MELLOTT	HQ	R L STENZEL	NAGW 1570	2408
13	UNIV CALIF-L ANGELES	M M MELLOTT	HQ	K K KHURANA	NAGW 2047	2410
13	UNIV CALIF-L ANGELES	M M MELLOTT	HQ	R MCPHERRON	NAGW 2054	2411
13	UNIV CALIF-L ANGELES	M M MELLOTT	HQ	R PELLAT	NAGW 2620	2424
13	UNIV CALIF-L ANGELES	B M CARPENTER	HQ	S J PUTTERMAN	NAGW 2842	2426
13	UNIV CALIF-L ANGELES	M M MELLOTT	HQ	C C WU	NAGW 2848	2427
13	UNIV CALIF-L ANGELES	D L REASONER	HQ	R P TURCO	NAGW 2853	2428
13	UNIV CALIF-L ANGELES	E C WHIPPLE	HQ	D D BARBOSA	NAGW 3190	2435
13	UNIV CALIF-L ANGELES	H C BRINTON	HQ	J F KERRIDGE	NAGW 3349	2437
13	UNIV CALIF-L ANGELES	E C WHIPPLE	HQ	R M THORNE	NAGW 3476	2440
13	UNIV CALIF-L ANGELES	F C WHIPPLE	HQ	C T RUSSELL	NAGW 3477	2441
13	UNIV CALIF-L ANGELES	E C WHIPPLE	HQ	C T RUSSELL	NAGW 3948	2454
13	UNIV CALIF-L ANGELES	E C WHIPPLE	HQ	R RICHARD	NAGW 3955	2455
13	UNIV CALIF-L ANGELES	E C WHIPPLE	HQ	C T RUSSELL	NAGW 3974	2456
13	UNIV CALIF-L ANGELES	E C WHIPPLE	HQ	F V CORONITI	NAGW 4130	2461
13	UNIV CALIF-L ANGELES	R A HOFFMAN	HQ	P L PRITCHETT	NAGW 4532	2466
13	UNIV CALIF-L ANGELES	R A HOFFMAN	HQ	J BERCHEM	NAGW 4541	2467
13	UNIV CALIF-L ANGELES	R A HOFFMAN	HQ	J RAEDER	NAGW 4543	2468
13	UNIV CALIF-L ANGELES	R HOFFMAN	HQ	M ASHOUR-ABDALLA	NAGW 4553	2469
13	UNIV CALIF-L ANGELES	C R STOKER	ARC	G SCHUBERT	NCA 2-689	2479
13	UNIV CALIF-L ANGELES	J K ALEXANDER	HQ	D A PAIGE	NGT 00-051-000	2490
13	UNIV CALIF-L ANGELES	D HOLLAND	HQ	W GEKELMAN	NGT 00-051-148	2491
13	UNIV CALIF-SAN DIEGO	T J BIRMINGHAM	GSFC	N OMIDI	NAG 5-1492	2527
13	UNIV CALIF-SAN DIEGO	M M MELLOTT	HQ	E C WHIPPLE	NAGW 1150	2561
13	UNIV CALIF-SAN DIEGO	M M MELLOTT	HQ	N OMIDI	NAGW 1806	2563
13	UNIV CALIF-SAN DIEGO	W V JONES	HQ	B V JACKSON	NAGW 2002	2566
13	UNIV CALIF-SAN DIEGO	W V JONES	HQ	R E LINGENFELTER	NAGW 2609	2573
13	UNIV CALIF-SAN DIEGO	M M MELLOTT	HQ	D KRAUSS-VARBAN	NAGW 2618	2574
13	UNIV CALIF-SAN DIEGO	E C WHIPPLE	HQ	M E MCKEAN	NAGW 3975	2593
13	UNIV CALIF-SAN DIEGO	E C WHIPPLE	HQ	K B QUEST	NAGW 4018	2594
13	UNIV CALIF-SAN DIEGO	J K ALEXANDER	HQ	K QUEST	NGT 00-050-935	2625
13	UNIV CALIF-SAN DIEGO	D HOLLAND	HQ	D A MENDIS	NGT 00-051-060	2626
13	UNIV CALIF-S BARBARA	T A MAXWELL	HQ	S J PEALE	NAGW 2061	2658
13	UNIV CALIF-S BARBARA	L KALNZIENSKI	HQ	P LUBIN	NAGW 2188	2659
13	UNIV CALIF-S BARBARA	B M CARPENTER	HQ	L G LEAL	NAGW 2840	2663
13	UNIV CALIF-S BARBARA	M C LEE	HQ	G AHLERS	NAGW 3325	2666
13	UNIV CALIF-S BARBARA	R E MURPHY	HQ	P M LUBIN	NAGW 3350	2667
13	UNIV CALIF-S BARBARA	G LESANE	HQ	G AHLERS	NGT 00-051-264	2685
13	UNIV CALIF-S BARBARA	D A HOLLAND	HQ	P LUBIN	NGT 00-051-381	2687
13	UNIV CALIF-S CRUZ	M A JONES	HQ	D KLIGER	NGT 00-090-178	2725
13	UNIV SAN FRANCISCO	T A PARNELL	MSFC	E V BENTON	NAG 8-282	2726
13	UNIV SAN FRANCISCO	D S NACHTWEY	JSC	E V BENTON	NAG 9-235	2727
13	UNIV OF SOUTHERN CAL	L E LASHER	ARC	D JUDGE	NAG 2-146	2731
13	UNIV OF SOUTHERN CAL	L J EARLY	GSFC	D J JUDGE	NAG 5-5018	2744
13	UNIV OF SOUTHERN CAL	J D BOHLIN	HQ	E J RHODES	NAGW 13	2745
13	UNIV OF SOUTHERN CAL	W V JONES	HQ	M GRUNTMAN	NAGW 4380	2761
13	UNIV OF SOUTHERN CAL	L J EARLY	GSFC	D L JUDGE	NSG-5108	2775
13	COLORADO SCH OF MINE	S R LANGHOFF	ARC	M EBERHART	NAG 2-849	2777
13	COLORADO STATE UNIV	V K RAWLIN	LERC	P J WILBUR	NAG 3-1206	2793
13	UNIV COLORADO-BOLDR	J S LING	LERC	N A CLARK	NAG 3-1600	2870
13	UNIV COLORADO-BOLDR	L J EARLY	GSFC	C A BARTH	NAG 5-698	2874
13	UNIV COLORADO-BOLDR	T J BIRMINGHAM	GSFC	J T MOORE	NAG 5-2256	2889
13	UNIV COLORADO-BOLDR	M ACUNA	GSFC	D N BAKER	NAG 5-2664	2919
13	UNIV COLORADO-BOLDR	L J EARLY	GSFC	D C FRITTS	NAG 5-5014	2934
13	UNIV COLORADO-BOLDR	L J EARLY	GSFC	W C CASH	NAG 5-5020	2935
13	UNIV COLORADO-BOLDR	L J EARLY	GSFC	S C SOLOMON	NAG 5-5021	2936
13	UNIV COLORADO-BOLDR	L J EARLY	GSFC	S C SOLOMON	NAG 5-5027	2937
13	UNIV COLORADO-BOLDR	L J EARLY	GSFC	J FORBES	NAG 5-5028	2938
13	UNIV COLORADO-BOLDR	L J EARLY	GSFC	D FRITTS	NAG 5-5029	2939
13	UNIV COLORADO-BOLDR	J KAUFMAN	MSFC	J HART	NAG 8-190	2940

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13	UNIV COLORADO-BOLDR	M J KAVAVA	MSFC	R G FREHLICH	NAG 8-253	2942
13	UNIV COLORADO-BOLDR	M M MELLOTT	HQ	T W SPEISER	NAGW 1176	2959
13	UNIV COLORADO-BOLDR	J D BOHLIN	HQ	A L KIPLINGER	NAGW 1462	2963
13	UNIV COLORADO-BOLDR	J D BOHLIN	HQ	G A DULK	NAGW 1994	2968
13	UNIV COLORADO-BOLDR	M M MELLOTT	HQ	S C SOLOMON	NAGW 2116	2969
13	UNIV COLORADO-BOLDR	W J WAGNER	HQ	F BAGENAL	NAGW 2754	2982
13	UNIV COLORADO-BOLDR	D L REASONER	HQ	C BARTH	NAGW 2825	2983
13	UNIV COLORADO-BOLDR	D L REASONER	HQ	T J ROWELL	NAGW 2851	2984
13	UNIV COLORADO-BOLDR	M M MELLOTT	HQ	I DOXAS	NAGW 2968	2989
13	UNIV COLORADO-BOLDR	E C WHIPPLE	HQ	M HORANYI	NAGW 3355	2998
13	UNIV COLORADO-BOLDR	M M MELLOTT	HQ	M CODRESCU	NAGW 3530	3003
13	UNIV COLORADO-BOLDR	W J WAGNER	HQ	D J GALLAGHER	NAGW 4064	3019
13	UNIV COLORADO-BOLDR	E C WHIPPLE	HQ	N SCHNEIDER	NAGW 4145	3021
13	UNIV COLORADO-BOLDR	J D BOHLIN	HQ	J M FORBES	NAGW 4451	3029
13	UNIV COLORADO-BOLDR	J D BOHLIN	HQ	M V GOLDMAN	NAGW 4453	3030
13	UNIV COLORADO-BOLDR	J D BOHLIN	HQ	C A BARTH	NAGW 4475	3032
13	UNIV COLORADO-BOLDR	J D BOHLIN	HQ	S C SOLOMON	NAGW 4495	3034
13	UNIV COLORADO-BOLDR	M KAPLAN	HQ	P L BENDER	NAGW 4772	3046
13	UNIV COLORADO-BOLDR	F C OWENS	HQ	T P SNOW	NGT 00-050-660	3088
13	UNIV COLORADO-BOLDR	G SOFFEN	GSFC	R A MCCRAY	NGT 00-050-899	3095
13	UNIV COLORADO-BOLDR	J ALEXANDER	HQ	F BAGENAL	NGT 00-050-916	3098
13	UNIV COLORADO-BOLDR	J K ALEXANDER	HQ	W C CASH	NGT 00-050-955	3102
13	UNIV COLORADO-BOLDR	J K ALEXANDER	HQ	E ZWEIBEL	NGT 00-050-958	3103
13	YALE UNIVERSITY	J S LING	LERC	D E ROSNER	NAG 3-1654	3174
13	YALE UNIVERSITY	T J BIRMINGHAM	GSFC	P DEMARQUE	NAG 5-1486	3178
13	YALE UNIVERSITY	S H MOSELEY	GSFC	D E PROBER	NAG 5-2892	3184
13	YALE UNIVERSITY	F C OWENS	HQ	D E PROBER	NGT 00-050-586	3196
13	YALE UNIVERSITY	F C OWENS	HQ	L J GUIDO	NGT 00-050-832	3198
13	YALE UNIVERSITY	C HIX	JPL	D PROBER	NGT 00-051-037	3199
13	YALE UNIVERSITY	G SOFFEN	GSFC	D E PROBER	NGT 00-051-209	3200
13	YALE UNIVERSITY	D K RUSSELL	HQ	R WEBER	NGT 00-090-265	3203
13	UNIV OF DELAWARE	R A WILKINSON	LERC	E W KALER	NAG 3-1424	3207
13	UNIV OF DELAWARE	W V JONES	HQ	P EVENSON	NAGW 1040	3213
13	UNIV OF DELAWARE	M M MELLOTT	HQ	T K GAISSER	NAGW 1644	3214
13	GALLAUDET UNIVERSITY	D K RUSSELL	HQ	G MCGAUGHRAN	NGT 00-090-275	3236
13	HOWARD UNIVERSITY	N D PILTCH	LERC	P MISRA	NAG 3-1677	3270
13	HOWARD UNIVERSITY	J I TROMBKA	GSFC	T TSANG	NAG 5-156	3272
13	HOWARD UNIVERSITY	W B SULLIVAN	GSFC	A N THORPE	NAG 5-1057	3276
13	HOWARD UNIVERSITY	N E MASSENBERS	HQ	A N THORNE	NAGW 2950	3281
13	AMERICAN UNIVERSITY	J WOLFGANG	GSFC	R B .	NCC 5-78	3290
13	AMERICAN UNIVERSITY	G SOFFEN	GSFC	R B KAY	NGT 00-051-032	3291
13	CATHOLIC UNIVERSITY	R P LEPPING	GSFC	Y C WHANG	NAG 5-2445	3303
13	CATHOLIC UNIVERSITY	R P LEPPING	GSFC	Y C WHANG	NAG 5-2814	3304
13	CATHOLIC UNIVERSITY	F C OWENS	HQ	F BRUHWEILER	NGT 00-070-043	3309
13	FLA INTERNATIONAL U	J J HILLMAN	GSFC	J W SHELDON	NAG 5-2583	3329
13	FLA INTERNATIONAL U	F SIX	MSFC	W V VAN HAMME	NAG 8-272	3331
13	FLORIDA INST OF TECH	S L LEHOCZKY	MSFC	J D PATTERSON	NAG 8-941	3371
13	FLORIDA INST OF TECH	S D COBB	MSFC	J D PATTERSON	NAG 8-1094	3372
13	UNIV OF FLORIDA	A L FRIPP	LARC	T J ANDERSON	NAG 1-609	3453
13	UNIV OF FLORIDA	H S BLOOMFIELD	LERC	N J DIAZ	NAS 3-26314	3498
13	UNIV OF MIAMI	W I SCALLION	LARC	Y C THIO	NAG 1-1199	3521
13	UNIV OF SO FLORIDA	E PRIOR	LARC	D K KILLINGER	NGT 00-050-979	3568
13	CLARK ATLANTA UNIV	A F HEPP	LERC	C R HANDY	NCC 3-286	3589
13	GEORGIA INST OF TECH	K K MONTGOMERY	MSFC	W G ROBINSON	NAG 8-1138	3640
13	UNIV OF HAWAII-MANOA	R V STACHNIK	HQ	D N HALL	NAGW 755	3784
13	UNIV OF HAWAII-MANOA	J D BOHLIN	HQ	R C CANFIELD	NAGW 1542	3790
13	UNIV OF HAWAII-MANOA	W N WAGNER	HQ	D L MICKEY	NAGW 1699	3791
13	UNIV OF HAWAII-MANOA	W J WAGNER	HQ	B LABONTE	NAGW 4116	3831
13	NORTHWESTERN UNIV	R A WILKINSON	LERC	A Z PATASHINSKI	NAG 3-1617	3892
13	NORTHWESTERN UNIV	J ALEXANDER	HQ	J B KETTERSON	NGT 00-050-907	3922

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13	NORTHWESTERN UNIV	D HOLLAND	HQ	J B KETTERSON	NGT 00-051-301	3925
13	SO ILL UNIV-CARBONDL	W E MEADOR	LARC	F B MALIK	NAG 1-1563	3930
13	UNIV OF CHICAGO	L E LASHER	ARC	J A SIMPSON	NAG 2-380	3936
13	UNIV OF CHICAGO	T J BIRMINGHAM	GSFC	R ROSNER	NAG 5-1485	3943
13	UNIV OF CHICAGO	J R FISCHER	GSFC	R ROSNER	NAG 5-2218	3948
13	UNIV OF CHICAGO	I D BROWNE	JSC	J V SMITH	NAG 9-47	3966
13	UNIV OF CHICAGO	G C CLAYTON	HQ	D Q LAMB	NAGW 1284	3969
13	UNIV OF CHICAGO	G C CLAYTON	HQ	L M HOBBS	NAGW 1475	3971
13	UNIV OF CHICAGO	J D BOHLIN	HQ	R ROSNER	NAGW 1685	3975
13	UNIV OF CHICAGO	W V JONES	HQ	P MEYER	NAGW 1982	3978
13	UNIV OF CHICAGO	W V JONES	HQ	D MULLER	NAGW 1995	3979
13	UNIV OF CHICAGO	J D BOHLIN	HQ	E N PARKER	NAGW 2122	3980
13	UNIV OF CHICAGO	H C BRINTON	HQ	R N CLAYTON	NAGW 3345	3994
13	UNIV OF CHICAGO	W V JONES	HQ	J A SIMPSON	NAGW 3797	3999
13	UNIV OF CHICAGO	W V JONES	HQ	S SWORDY	NAGW 3894	4000
13	UNIV OF CHICAGO	W J WAGNER	HQ	F CATTANEO	NAGW 4504	4004
13	UNIV OF CHICAGO	W J WAGNER	HQ	R ROSNER	NAGW 4678	4005
13	UNIV OF CHICAGO	L J CAROFF	HQ	T OKA	NAGW 4769	4008
13	UNIV OF CHICAGO	J M DAVIS	MSFC	R ROSNER	NCC 8-7	4012
13	UNIV OF CHICAGO	F C OWENS	HQ	S SWORDY	NGT 00-050-797	4016
13	UNIV OF CHICAGO	J K ALEXANDER	HQ	D N SCHRAMM	NGT 00-050-993	4018
13	UNIV OF CHICAGO	J ALEXANDER	HQ	M TURNER	NGT 00-050-997	4019
13	UNIV OF CHICAGO	D HOLLAND	HQ	D MULLER	NGT 00-051-066	4021
13	UNIV OF CHICAGO	D HOLLAND	HQ	J A SIMPSON	NGT 00-051-300	4024
13	UNIV OF CHICAGO	D HOLLAND	HQ	D N SCHRAMM	NGT 00-051-318	4026
13	UNIV OF CHICAGO	P SMITH	HQ	D Q LAMB	NGT 00-051-322	4027
13	UNIV ILLINOIS-URBANA	D HOLLAND	HQ	W D WASTON	NGT 00-051-386	4116
13	INDIANA U-BLOOMINGTN	N GEHRELS	GSFC	D FRIESEL	NAG 5-1394	4135
13	INDIANA U-BLOOMINGTN	M M MELLOTT	HQ	R M HEINZ	NAGW 1035	4138
13	INDIANA U-BLOOMINGTN	D HOLLAND	HQ	V E VIOLA	NGT 00-051-403	4150
13	PURDUE UNIVERSITY	G SOFFEN	GSFC	T J MOFFETT	NGT 00-050-937	4214
13	UNIV OF IOWA	M H ACUNA	GSFC	J D SCUDDER	NAG 5-2231	4301
13	UNIV OF IOWA	M ACONA	GSFC	R R ANDERSON	NAG 5-2346	4302
13	UNIV OF IOWA	M H ACUNA	GSFC	L A FRANK	NAG 5-2371	4303
13	UNIV OF IOWA	K W OGILVIE	GSFC	J D SCUDDER	NAG 5-2939	4312
13	UNIV OF IOWA	L J EARLY	GSFC	W CALVERT	NAG 5-5023	4313
13	UNIV OF IOWA	L JOHNSON	MSFC	W CALVERT	NAG 8-1030	4315
13	UNIV OF IOWA	P D CRAVEN	MSFC	J D MENIETTI	NAG 8-1153	4316
13	UNIV OF IOWA	G K PARKS	HQ	W S KURTH	NAGW 1539	4319
13	UNIV OF IOWA	M M MELLOTT	HQ	S R SPANGLER	NAGW 1594	4320
13	UNIV OF IOWA	G K PARKS	HQ	L A FRANK	NAGW 1631	4321
13	UNIV OF IOWA	M M MELLOTT	HQ	J G LYON	NAGW 1653	4322
13	UNIV OF IOWA	M M MELLOTT	HQ	I H CAIRNS	NAGW 2040	4323
13	UNIV OF IOWA	E C WHIPPLE	HQ	C HUANG	NAGW 2847	4325
13	UNIV OF IOWA	W V JONES	HQ	I CAIRNS	NAGW 3461	4328
13	UNIV OF IOWA	E C WHIPPLE	HQ	A M PERSOON	NAGW 3576	4329
13	UNIV OF IOWA	E C WHIPPLE	HQ	L A FRANK	NAGW 4136	4330
13	UNIV OF IOWA	M A FORMAN	HQ	S R SPANGLER	NAGW 4389	4332
13	UNIV OF IOWA	J GALLOWAY	GSFC	L FRANK	NAS 5-30316	4336
13	UNIV OF IOWA	D CROSBY	GSFC	D A GURNETT	NAS 5-30371	4337
13	UNIV OF IOWA	G A LESANE	HQ	J A GOREE	NGT 00-051-351	4345
13	UNIV OF IOWA	D K RUSSELL	HQ	J SCUDDER	NGT 00-070-411	4347
13	UNIV OF KANSAS	M M MELLOTT	HQ	T E CRAVENS	NAGW 1559	4367
13	UNIV OF KANSAS	F C OWENS	HQ	T E CRAVENS	NGT 00-050-784	4386
13	LA ST U&A&M COL-BRGE	M M MELLOTT	HQ	J P WEFEL	NAGW 1027	4428
13	LA ST U&A&M COL-BRGE	M M MELLOTT	HQ	T G GUZIK	NAGW 1526	4429
13	LA ST U&A&M COL-BRGE	J D BOHLIN	HQ	M L CHERRY	NAGW 3289	4433
13	LA ST U&A&M COL-BRGE	J D BOHLIN	HQ	M L CHERRY	NAGW 3560	4434
13	LA ST U&A&M COL-BRGE	J WILLEH	HQ	T G GUZIK	NAGW 4404	4438
13	LA ST U&A&M COL-BRGE	W V JONES	HQ	J P WEFEL	NAGW 4577	4439

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FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
13	SO UNIV & A&M COL-BR	D K RUSSELL	HQ	D BAGYOYOKO	NGT 00-090-266	4477
13	UNIV OF NEW ORLEANS	B T UPCHURCH	LARC	J W IUOP	NAG 1-1625	4488
13	UNIV OF NEW ORLEANS	H K NAHRA	LERC	J HEGSETH	NAG 3-1658	4489
13	JOHNS HOPKINS UNIV	L J EARLY	GSFC	P D FELDMAN	NAG 5-619	4528
13	JOHNS HOPKINS UNIV	S A CURTIS	GSFC	R A GREENWALD	NAG 5-1099	4529
13	JOHNS HOPKINS UNIV	G D BULLOCK	GSFC	A T LUI	NAG 5-1673	4535
13	JOHNS HOPKINS UNIV	G BULLOCK	GSFC	D SIBECK	NAG 5-1674	4536
13	JOHNS HOPKINS UNIV	S GREEN	GSFC	L MONCHICK	NAG 5-2910	4564
13	JOHNS HOPKINS UNIV	L J EARLY	GSFC	J H YEE	NAG 5-5016	4566
13	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	T A PSTEMRA	NAGW 1650	4570
13	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	K B BAKER	NAGW 2059	4573
13	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	D G MITCHELL	NAGW 2583	4579
13	JOHNS HOPKINS UNIV	W V JONES	HQ	R B DECKER	NAGW 2619	4580
13	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	B H MAUK	NAGW 2691	4581
13	JOHNS HOPKINS UNIV	D L REASONER	HQ	P J NEWELL	NAGW 2854	4583
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	B J ANDERSON	NAGW 3052	4586
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	K TAKAHASHI	NAGW 3058	4587
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	A Y LUI	NAGW 3449	4596
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	D G SIBECK	NAGW 3523	4597
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	V ANGELOPOULOS	NAGW 4020	4602
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	M KANE	NAGW 4043	4605
13	JOHNS HOPKINS UNIV	M MELLOTT	HQ	R E ERLANDSON	NAGW 4055	4606
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	B J ANDERSON	NAGW 4133	4607
13	JOHNS HOPKINS UNIV	E C WHIPPLE	HQ	E C ROELOF	NAGW 4140	4608
13	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	P T NEWELL	NAGW 4424	4610
13	JOHNS HOPKINS UNIV	J D BOHLIN	HQ	G CROWLEY	NAGW 4439	4611
13	JOHNS HOPKINS UNIV	G R RIEGLER	HQ	G A KRISS	NAGW 4443	4612
13	JOHNS HOPKINS UNIV	J D BOHLIN	HQ	D E ANDERSON	NAGW 4457	4613
13	JOHNS HOPKINS UNIV	T KOSTIUK	HQ	R MCNUTT JR.	NAGW 4547	4614
13	JOHNS HOPKINS UNIV	W V JONES	HQ	R L MCNUTT	NAGW 4603	4615
13	JOHNS HOPKINS UNIV	J D BOHLIN	HQ	L GOEMBEL	NAGW 4660	4617
13	JOHNS HOPKINS UNIV	M M MELLOTT	HQ	K B BAKER	NAGW 4718	4619
13	JOHNS HOPKINS UNIV	R A HOFFMAN	HQ	F C ROELOF	NAGW 4729	4620
13	MORGAN STATE UNIV	W SULLIVAN	GSFC	F W OLIVER	NAG 5-2375	4637
13	MORGAN STATE UNIV	B W GUENTHER	GSFC	A D GRAINGER	NAG 5-2686	4639
13	UNIV MARYLAND-COL PK	R A WILKINSON	LERC	R A FERRELL	NAG 3-1180	4673
13	UNIV MARYLAND-COL PK	R A WILKINSON	LERC	R A FERRELL	NAG 3-1395	4675
13	UNIV MARYLAND-COL PK	S CURTIS	GSFC	S GLOECKNER	NAG 5-716	4681
13	UNIV MARYLAND-COL PK	S A CURTIS	GSFC	K PAPADOPOULOS	NAG 5-1101	4683
13	UNIV MARYLAND-COL PK	K W OGILVIE	GSFC	M A COPLAN	NAG 5-1129	4684
13	UNIV MARYLAND-COL PK	D S SPICER	GSFC	J M FINN	NAG 5-1356	4688
13	UNIV MARYLAND-COL PK	J C BRASUNAS	GSFC	T VENKATESAN	NAG 5-1979	4698
13	UNIV MARYLAND-COL PK	N GEHRELS	GSFC	J WEBER	NAG 5-2571	4727
13	UNIV MARYLAND-COL PK	J GREEN	GSFC	D C HAMILTON	NAG 5-2800	4737
13	UNIV MARYLAND-COL PK	J D BOHLIN	HQ	J M FINN	NAGW 1346	4753
13	UNIV MARYLAND-COL PK	J D BOHLIN	HQ	M R KUNDU	NAGW 1541	4754
13	UNIV MARYLAND-COL PK	M M MELLOTT	HQ	T E EASTMAN	NAGW 1848	4757
13	UNIV MARYLAND-COL PK	W V JONES	HQ	G M MASON	NAGW 1990	4760
13	UNIV MARYLAND-COL PK	W V JONES	HQ	J A EARL	NAGW 2062	4761
13	UNIV MARYLAND-COL PK	R M HOFFMAN	HQ	T F EASTMAN	NAGW 2079	4762
13	UNIV MARYLAND-COL PK	W V JONES	HQ	F B MCDONALD	NAGW 2504	4765
13	UNIV MARYLAND-COL PK	E C WHIPPLE	HQ	R LOPEZ	NAGW 3222	4775
13	UNIV MARYLAND-COL PK	W V JONES	HQ	E SEO	NAGW 3526	4779
13	UNIV MARYLAND-COL PK	E C WHIPPLE	HQ	A SHARMA	NAGW 3596	4781
13	UNIV MARYLAND-COL PK	W V JONES	HQ	F B MCDONALD	NAGW 4538	4802
13	UNIV MARYLAND-COL PK	W J WAGNER	HQ	M R KUNDU	NAGW 4569	4804
13	UNIV MARYLAND-COL PK	W V JONES	HQ	C C GOODRICH	NAGW 4580	4805
13	UNIV MARYLAND-COL PK	W J WAGNER	HQ	M J ASCHWANDEN	NAGW 4581	4806
13	UNIV MARYLAND-COL PK	W J WAGNER	HQ	N N GOPALSWAMY	NAGW 4664	4809
13	UNIV MARYLAND-COL PK	W R NAGEL	GSFC	G M MASON	NAS 5-30704	4817

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13	UNIV MARYLAND-COL PK	A K HARDING	GSFC	J TRASCO	NCC 5-54	4832
13	UNIV MARYLAND-COL PK	R GUALDONI	HQ	K R KOLOS	NCCW 39	4845
13	UNIV MARYLAND-COL PK	F C OWENS	HQ	R RAMATY	NGT 00-050-721	4857
13	UNIV MARYLAND-COL PK	J K ALEXANDER	HQ	A GALVIN	NGT 00-050-957	4860
13	BOSTON COLLEGE	P BROCKMAN	LARC	B DIBARTOLO	NAG 1-955	4898
13	BOSTON COLLEGE	W J WAGNER	HQ	D F WEBB	NAGW 4578	4899
13	BOSTON COLLEGE	J K ALEXANDER	HQ	R L CORNVILLANN	NGT 00-050-996	4900
13	BOSTON UNIVERSITY	L J EARLY	GSFC	M MENDILLO	NAG 5-640	4905
13	BOSTON UNIVERSITY	R H PLESS	GSFC	S CHAKRABARTI	NAG 5-690	4906
13	BOSTON UNIVERSITY	L J EARLY	GSFC	S CHAKRABARTI	NAG 5-694	4907
13	BOSTON UNIVERSITY	L J EARLY	GSFC	S CHAKRABARTI	NAG 5-695	4908
13	BOSTON UNIVERSITY	M L GOLDSTEIN	GSFC	T A FRITZ	NAG 5-2266	4914
13	BOSTON UNIVERSITY	M H ACUNA	GSFC	T A FRITZ	NAG 5-2578	4916
13	BOSTON UNIVERSITY	M M MELLOTT	HQ	W J HUGHES	NAGW 1627	4919
13	BOSTON UNIVERSITY	M M MELLOTT	HQ	M MENDILLO	NAGW 1629	4920
13	BOSTON UNIVERSITY	W V JONES	HQ	S P AHLEN	NAGW 2138	4921
13	BOSTON UNIVERSITY	M M MELLOTT	HQ	G M ERICKSON	NAGW 2627	4922
13	BOSTON UNIVERSITY	M M MELLOTT	HQ	M MENDILLO	NAGW 2679	4923
13	BOSTON UNIVERSITY	E C WHIPPLE	HQ	G M ERICKSON	NAGW 2856	4924
13	BOSTON UNIVERSITY	E C WHIPPLE	HQ	H E SPENCE	NAGW 3953	4927
13	BOSTON UNIVERSITY	M M MELLOTT	HQ	M MENDILLO	NAGW 3998	4928
13	BOSTON UNIVERSITY	E C WHIPPLE	HQ	T A FRITZ	NAGW 4085	4930
13	BOSTON UNIVERSITY	R A HOFFMAN	HQ	G L SISCOE	NAGW 4188	4932
13	BOSTON UNIVERSITY	R A HOFFMAN	HQ	H E SPENCE	NAGW 4537	4933
13	BOSTON UNIVERSITY	W V JONES	HQ	N U CROOKER	NAGW 4571	4934
13	BOSTON UNIVERSITY	R A HOFFMAN	HQ	M MENDILLO	NAGW 4622	4935
13	HARVARD UNIVERSITY	J D BOHLIN	HQ	W H PARKINSON	NAGW 1687	4984
13	HARVARD UNIVERSITY	B M CARPENTER	HQ	F A SPAEPEN	NAGW 2838	4987
13	HARVARD UNIVERSITY	F C OWENS	HQ	I I SHAPIRO	NGT 00-050-699	5018
13	HARVARD UNIVERSITY	J K ALEXANDER	HQ	J E GRINDLAY	NGT 00-050-999	5025
13	HARVARD UNIVERSITY	D HOLLAND	HQ	R P KIRSHNER	NGT 00-051-093	5027
13	HARVARD UNIVERSITY	D HOLLAND	HQ	M NAHUM	NGT 00-051-405	5030
13	MASS INST OF TECH	C R MCCREIGHT	ARC	Q HU	NAG 2-693	5052
13	MASS INST OF TECH	T J BIRMINGHAM	GSFC	T CHANG	NAG 5-2255	5106
13	MASS INST OF TECH	B FACEMIRE	MSFC	T A HATTON	NAG 8-951	5134
13	MASS INST OF TECH	R C DARTY	MSFC	M FLEMINGS	NAG 8-971	5138
13	MASS INST OF TECH	M M MELLOTT	HQ	T S CHANG	NAGW 1532	5157
13	MASS INST OF TECH	M M MELLOTT	HQ	A J LAZARUS	NAGW 1550	5159
13	MASS INST OF TECH	G ASRAR	HQ	J A KONG	NAGW 1617	5160
13	MASS INST OF TECH	M M MELLOTT	HQ	A BERS	NAGW 2048	5167
13	MASS INST OF TECH	W J WAGNER	HQ	P KUMAR	NAGW 3511	5187
13	MASS INST OF TECH	W J WAGONER	HQ	P KUMAR	NAGW 3936	5194
13	MASS INST OF TECH	W V JONES	HQ	A J LAZARUS	NAGW 3941	5195
13	MASS INST OF TECH	D GILMAN	HQ	G RICKER	NASW 4690	5227
13	MASS INST OF TECH	F SIX	MSFC	W H LEWIN	NGT 00-051-369	5256
13	TUFTS UNIVERSITY	W J WAGNER	HQ	K LANG	NAGW 2383	5274
13	TUFTS UNIVERSITY	W J WAGNER	HQ	K R LANG	NAGW 4677	5276
13	UNIV OF MASS-LOWELL	J B POLLACK	ARC	R R GAMACHE	NCC 2-5029	5284
13	UNIV OF MASS-AMHERST	M BICAY	HQ	N ERICKSON	NAGW 2430	5302
13	WOODSHOLE OCEAN INST	M BALTUCK	HQ	J C GOLDMAN	NAGW 4709	5326
13	HOPE COLLEGE	F SIX	MSFC	P L GONTHIER	NAG 8-263	5341
13	MICHIGAN STATE UNIV	J D BOHLIN	HQ	R F STEIN	NAGW 1695	5353
13	MICHIGAN TECH UNIV	H L NGUYEN	LERC	S L YANG	NAG 3-1109	5360
13	MICHIGAN TECH UNIV	A W MUELLER	LARC	J C ROGERS	NCC 1-145	5368
13	UNIV MICH-ANN ARBOR	G L MADDREA	LARC	V J ABREU	NAG 1-1331	5379
13	UNIV MICH-ANN ARBOR	L J EARLY	GSFC	J T CLARKE	NAG 5-653	5401
13	UNIV MICH-ANN ARBOR	L J EARLY	GSFC	W E SHARP	NAG 5-5003	5426
13	UNIV MICH-ANN ARBOR	L J EARLY	GSFC	J U KOZYRA	NAG 5-5030	5427
13	UNIV MICH-ANN ARBOR	M M MELLOTT	HQ	A F NAGY	NAGW 1619	5434
13	UNIV MICH-ANN ARBOR	M M MELLOTT	HQ	G TARLE	NAGW 1642	5435

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FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
13	UNIV MICH-ANN ARBOR	M M MELLOTT	HQ	T L KILLEEN	NAGW 3457	5452
13	UNIV MICH-ANN ARBOR	E C WHIPPLE	HQ	J U KOZYRA	NAGW 4021	5458
13	UNIV MICH-ANN ARBOR	M M MELLOTT	HQ	B GILCHRIST	NAGW 4175	5459
13	UNIV MICH-ANN ARBOR	J BOHLIN	HQ	J U KOZYRA	NAGW 4611	5469
13	UNIV MICH-ANN ARBOR	L J EARLY	GSFC	W E SHARP	NGR23-5360	5490
13	UNIV MICH-ANN ARBOR	B SWINFORD	MSFC	J U KOZYRA	NGT 00-051-180	5508
13	UNIV MICH-ANN ARBOR	D HOLLAND	HQ	T I GOMBOSI	NGT 00-051-323	5512
13	UNIV MICH-ANN ARBOR	F SIX	MSFC	C AKERLOT	NGT 8-52805	5518
13	U MINN-MNPLS-ST PAUL	W V JONES	HQ	C J WADDINGTON	NAGW 2004	5561
13	U MINN-MNPLS-ST PAUL	W V JONES	HQ	T W JONES	NAGW 2548	5564
13	U MINN-MNPLS-ST PAUL	M M MELLOTT	HQ	R L LYSAK	NAGW 2690	5566
13	U MINN-MNPLS-ST PAUL	W V JONES	HQ	C J WADDINGTON	NAGW 3014	5567
13	U MINN-MNPLS-ST PAUL	C RAY	HQ	J W HALEY	NAGW 3324	5570
13	U MINN-MNPLS-ST PAUL	H C BRINTON	HQ	R O PEPIN	NAGW 3336	5571
13	U MINN-MNPLS-ST PAUL	M M MELLOTT	HQ	J R WYGANT	NAGW 4216	5574
13	U MINN-MNPLS-ST PAUL	S BENNER	GSFC	K MAUERSBERGER	NAS 5-32454	5578
13	U MINN-MNPLS-ST PAUL	B CARPENTER	HQ	J W HALLEY	NGT 00-051-090	5595
13	U MINN-MNPLS-ST PAUL	G A LESANE	HQ	J W HALLEY	NGT 00-051-359	5599
13	UNIV MISS-UNIVERSITY	W L WILLSHIRE	LARC	H E BASS	NAG 1-1460	5642
13	UNIV MO-ROLLA	B M CARPENTER	HQ	D E DAY	NAGW 2846	5683
13	WASHINGTON UNIVERSTY	E C ETHRIDGE	MSFC	K F KELTON	NAG 8-873	5698
13	WASHINGTON UNIVERSTY	M ZOLENSKY	JSC	E ZINNER	NAG 9-684	5701
13	WASHINGTON UNIVERSTY	R STACHNIK	HQ	J I KATZ	NAGW 2918	5710
13	WASHINGTON UNIVERSTY	W V JONES	HQ	J KLARMANN	NAGW 3013	5712
13	WASHINGTON UNIVERSTY	D A HOLLAND	HQ	K F KELTON	NGT 00-051-061	5734
13	WASHINGTON UNIVERSTY	D HOLLAND	HQ	R M WALKER	NGT 00-051-298	5735
13	WASHINGTON UNIVERSTY	D HOLLAND	HQ	J KLARMANN	NGT 00-051-319	5736
13	WASHINGTON UNIVERSTY	P H JOHNSTON	LARC	J G MILLER	NSG-1601	5738
13	MONTANA ST U-BILLNGS	F SIX	MSFC	A F BENTLEY	NAG 8-262	5750
13	UNIV NEBRASKA-LINCLN	F A CUCINOTTA	LARC	R KATZ	NAG 1-1447	5764
13	UNIV NEBRASKA-LINCLN	J D WARNER	LERC	J A WOOLAM	NAG 3-866	5767
13	DARTMOUTH COLLEGE	L J EARLY	GSFC	J W LABELLE	NAG 5-663	5810
13	DARTMOUTH COLLEGE	S A CURTIS	GSFC	M K HUDSON	NAG 5-1098	5811
13	DARTMOUTH COLLEGE	T J BIRMINGHAM	GSFC	W LOTKO	NAG 5-2252	5815
13	DARTMOUTH COLLEGE	R H PLESS	GSFC	J W LABELLE	NAG 5-5039	5817
13	DARTMOUTH COLLEGE	M M MELLOTT	HQ	D C MONTGOMERY	NAGW 710	5818
13	DARTMOUTH COLLEGE	M M MELLOTT	HQ	M K HUDSON	NAGW 1652	5819
13	DARTMOUTH COLLEGE	D L REASONER	HQ	C FESEN	NAGW 3045	5822
13	DARTMOUTH COLLEGE	E C WHIPPLE	HQ	J G LYON	NAGW 3972	5825
13	DARTMOUTH COLLEGE	M M MELLOTT	HQ	W LOTKO	NAGW 3989	5826
13	DARTMOUTH COLLEGE	E C WHIPPLE	HQ	B SONNERUP	NAGW 4023	5828
13	DARTMOUTH COLLEGE	R A HOFFMAN	HQ	J G LYON	NAGW 4540	5830
13	DARTMOUTH COLLEGE	W V JONES	HQ	J G LYON	NAGW 4583	5831
13	DARTMOUTH COLLEGE	R A HOFFMAN	HQ	M K HUDSON	NAGW 4728	5832
13	DARTMOUTH COLLEGE	J K ALEXANDER	HQ	J LABELLE	NGT 00-050-936	5837
13	UNIV NEW HAMP-DURHAM	J T GALOFARO	LERC	R B TORBERT	NAG 3-1181	5841
13	UNIV NEW HAMP-DURHAM	J M HICKMAN	LERC	R B TORBERT	NAG 3-1599	5842
13	UNIV NEW HAMP-DURHAM	L J EARLY	GSFC	R B TORBERT	NAG 5-656	5843
13	UNIV NEW HAMP-DURHAM	L J EARLY	WFF	R ARNOLDY	NAG 5-692	5844
13	UNIV NEW HAMP-DURHAM	T J BIRMINGHAM	GSFC	J V HOLLWEG	NAG 5-1479	5845
13	UNIV NEW HAMP-DURHAM	K W OGILVIE	GSFC	R B TORBERT	NAG 5-2834	5855
13	UNIV NEW HAMP-DURHAM	L J EARLY	GSFC	R ARNOLDY	NAG 5-5007	5857
13	UNIV NEW HAMP-DURHAM	L J EARLY	GSFC	C KLETZING	NAG 5-5010	5858
13	UNIV NEW HAMP-DURHAM	R H PLESS	GSFC	R B TORBERT	NAG 5-5033	5859
13	UNIV NEW HAMP-DURHAM	R H PLESS	GSFC	K A LYNCH	NAG 5-5040	5860
13	UNIV NEW HAMP-DURHAM	M M MELLOTT	HQ	T G ONSAGER	NAGW 2505	5867
13	UNIV NEW HAMP-DURHAM	W V JONES	HQ	P A ISENBERG	NAGW 2579	5868
13	UNIV NEW HAMP-DURHAM	E C WHIPPLE	HQ	C KLETZING	NAGW 2697	5870
13	UNIV NEW HAMP-DURHAM	W V JONES	HQ	J A LOCKWOOD	NAGW 3454	5876
13	UNIV NEW HAMP-DURHAM	W J WAGNER	HQ	T G FORBES	NAGW 3463	5877

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FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
13	UNIV NEW HAMP-DURHAM	W J WAGNER	HQ	E L CHUPP	NAGW 3512	5878
13	UNIV NEW HAMP-DURHAM	E C WHIPPLE	HQ	R B TORBERT	NAGW 3676	5880
13	UNIV NEW HAMP-DURHAM	E C WHIPPLE	HQ	E MOBIUS	NAGW 3723	5882
13	UNIV NEW HAMP-DURHAM	M M MELLOTT	HQ	K LYNCH	NAGW 3980	5885
13	UNIV NEW HAMP-DURHAM	D BOHLIN	HQ	C KLETZING	NAGW 4518	5888
13	UNIV NEW HAMP-DURHAM	R A HOFFMAN	HQ	R L KAUFMANN	NAGW 4539	5889
13	UNIV NEW HAMP-DURHAM	L CHRISTENSEN	GSFC	R TORBERT	NAS 5-30744	5895
13	UNIV NEW HAMP-DURHAM	J ALEXANDER	HQ	R B TORBETT	NGT 00-050-910	5904
13	UNIV NEW HAMP-DURHAM	G SOFFEN	GSFC	J M RYAN	NGT 00-051-170	5906
13	UNIV NEW HAMP-DURHAM	D HOLLAND	HQ	C KLETZING	NGT 00-051-404	5907
13	PRINCETON UNIVERSITY	R R ANTCLIFF	LARC	R B MILES	NAG 1-1231	5911
13	PRINCETON UNIVERSITY	L J EARLY	GSFC	E B JENKINS	NAG 5-616	5925
13	PRINCETON UNIVERSITY	P RHODES	MSFC	D A SAVILLE	NAG 8-1157	5952
13	PRINCETON UNIVERSITY	G LEVY	HQ	D T WILKENSON	NAGW 1482	5953
13	PRINCETON UNIVERSITY	M M MELLOTT	HQ	H OKUDA	NAGW 2538	5960
13	PRINCETON UNIVERSITY	F C OWENS	HQ	R B MILES	NGT 00-050-826	5978
13	RUTGERS ST U-N BRNSK	H C BRINTON	HQ	R H HEWINS	NAGW 3391	6006
13	NEW MEX INST MINING	L J EARLY	GSFC	P PERSSON	NAG 5-5004	6032
13	NEW MEX ST U-LAS CR	R PETRE	GSFC	E ELLINGSON	NAG 5-2896	6047
13	NEW MEX ST U-LAS CR	W JONES	HQ	W R WEBBER	NAGW 2016	6053
13	NEW MEX ST U-LAS CR	W V JONES	HQ	W R WEBBER	NAGW 3022	6055
13	UNIV OF NEW MEXICO	D K RUSSELL	HQ	J K MCIVER	NGT 00-070-329	6091
13	CITY U OF NY CTY COL	R W VERNON	LERC	J KOPLIK	NAG 3-1167	6098
13	CITY U OF NY CTY COL	B L WHITE	HQ	R ALFANO	NAGW 4098	6105
13	CLARKSON UNIVERSITY	F R SZOFRAN	MSFC	W R WILCOX	NAG 8-753	6123
13	CLARKSON UNIVERSITY	G L MARTIN	HQ	L L REGAL	NAGW 3471	6126
13	COLUMBIA UNIVERSITY	L J EARLY	GSFC	R NOVICK	NAG 5-618	6140
13	COLUMBIA UNIVERSITY	L J EARLY	GSFC	C MARTIN	NAG 5-642	6141
13	COLUMBIA UNIVERSITY	M MELLOTT	HQ	G A NAVRATIL	NAGW 3010	6183
13	COLUMBIA UNIVERSITY	E C WHIPPLE	HQ	M E MAUEL	NAGW 3539	6188
13	COLUMBIA UNIVERSITY	F C OWENS	HQ	C MARTIN	NGT 00-050-792	6218
13	COLUMBIA UNIVERSITY	C HIX	JPL	P KAARET	NGT 00-051-038	6219
13	COLUMBIA UNIVERSITY	B A HARMON	MSFC	P KAARET	NGT 8-52806	6220
13	CORNELL UNIVERSITY	P F PENKO	LERC	I D BOYD	NAG 3-1451	6237
13	CORNELL UNIVERSITY	L J EARLY	GSFC	P M KINTNER	NAG 5-601	6240
13	CORNELL UNIVERSITY	L J EARLY	GSFC	W E SWARTZ	NAG 5-666	6241
13	CORNELL UNIVERSITY	L J EARLY	GSFC	P KINTNER	NAG 5-687	6242
13	CORNELL UNIVERSITY	L J EARLY	GSFC	P KINTNER	NAG 5-691	6243
13	CORNELL UNIVERSITY	L J EARLY	GSFC	P KINTNER	NAG 5-5008	6255
13	CORNELL UNIVERSITY	L J EARLY	GSFC	M C KELLEY	NAG 5-5009	6256
13	CORNELL UNIVERSITY	R H PLESS	GSFC	M C KELLEY	NAG 5-5036	6257
13	CORNELL UNIVERSITY	R H PLESS	GSFC	M C KELLEY	NAG 5-5038	6258
13	CORNELL UNIVERSITY	M M MELLOTT	HQ	N F OTANI	NAGW 2011	6271
13	CORNELL UNIVERSITY	D L REASONER	HQ	C E SEYLER	NAGW 2960	6284
13	CORNELL UNIVERSITY	J D BOHLIN	HQ	N F OTANI	NAGW 4449	6298
13	CORNELL UNIVERSITY	P G ROGERS	HQ	R POHL	NAGW 4469	6299
13	CORNELL UNIVERSITY	D J BOHLIN	HQ	C E SEYLER	NAGW 4594	6300
13	CORNELL UNIVERSITY	J ALEXANDER	HQ	B ISACKS	NGT 00-050-960	6314
13	NEW YORK UNIVERSITY	R A WILKINSON	LERC	J K PERCUS	NAG 3-1414	6348
13	POLYTECHNIC U	R G SEASHOLTZ	LERC	M V OTUGEN	NAG 3-1690	6358
13	RENSSELAER POLY-NY	D O FRAZIER	MSFC	M E GLICKMAN	NCC 8-54	6392
13	ST JOHN FISHER COLL	F SIX	MSFC	W LEWIS	NAG 8-1002	6413
13	STATE UNIV NY-ALBANY	T Y MILLER	MSFC	W E GIBSON	NAS 8-39926	6423
13	STATE UNIV NY-ALBANY	A F HEPP	LERC	A E KOLOYEROS	NCC 3-284	6426
13	STATE UNIV NY-ALBANY	F MONTEGANI	LERC	A E KALOYEROS	NGT 00-051-239	6428
13	STATE U NY-BINGHAMTN	J C HARDIN	LARC	J F GEER	NAG 1-1099	6429
13	STATE U NY-STONY BRK	D C GILLIES	MSFC	M DUDLEY	NCC 8-48	6491
13	STATE U NY-STONY BRK	D C GILLIES	MSFC	M DUDLEY	NCC 8-53	6492
13	SYRACUSE UNIVERSITY	L CAROFF	HQ	G VIDALI	NAGW 2932	6508
13	UNIV OF ROCHESTER	J D BOHLIN	HQ	J H THOMAS	NAGW 2123	6518

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13	UNIV OF ROCHESTER	H ASHKENAS	JPL	D M WATSON	NGT 00-050-888	6528
13	DUKE UNIVERSITY	E E MONTGOMERY	MSFC	J M MADEY	NAG 8-982	6540
13	FAYETTEVILLE STATE U	F SIX	MSFC	J WU	NAG 8-996	6570
13	NO CAROLINA STATE U	T J BIRMINGHAM	GSFC	D C ELLISON	NAG 5-2254	6612
13	NO CAROLINA STATE U	N WHITE	GSFC	J BLENDIN	NAG 5-2580	6613
13	NO CAROLINA STATE U	F MONTEGANI	LERC	G LUCOUSKY	NGT 00-070-236	6644
13	BALDWIN-WALLACE COL	J M FLOWERS	LERC	D G PROCTOR	NCC 3-315	6691
13	CASE WESTERN RESERVE	D C FERGUSON	LERC	I GREBER	NAG 3-795	6697
13	CASE WESTERN RESERVE	A CHAIT	LERC	P L TAYLOR	NAG 3-1201	6706
13	CASE WESTERN RESERVE	I L KRAINSKY	LERC	B SEGALL	NAG 3-1525	6715
13	CASE WESTERN RESERVE	J A POWELL	LERC	P PIROUZ	NAG 3-1702	6719
13	CASE WESTERN RESERVE	B BANKS	LERC	B SEGEL	NAG 3-26054	6726
13	CASE WESTERN RESERVE	D C FERGUSON	LERC	T G ECK	NCC 3-141	6735
13	CASE WESTERN RESERVE	F MONTEGANI	LERC	K D SINGER	NGT 00-050-947	6774
13	CASE WESTERN RESERVE	E PRIOR	LARC	T G ECK	NGT 00-070-237	6785
13	CLEVELAND STATE UNIV	D L CHUBB	LERC	P D HAMBOURGER	NAG 3-1714	6812
13	CLEVELAND STATE UNIV		LERC	S N TEWARI	NCC 3-191	6827
13	CLEVELAND STATE UNIV	R C ANDERSON	LERC	J A LOCK	NCC 3-204	6828
13	CLEVELAND STATE UNIV	S RUTLEDGE	LERC	P HAMBOURGER	NCC 3-339	6846
13	CLEVELAND STATE UNIV	S KUTLEDGE	LERC	P D HAMBOURGER	NCC 3-383	6850
13	COLLEGE OF WOOSTER	R A WILKINSON	LERC	D T JACOBS	NAG 3-1404	6858
13	JOHN CARROLL UNIV	G ADAMOVSKY	LERC	E J CAROME	NAG 3-984	6869
13	KENT STATE UNIV-KENT	I WEINBERG	LERC	C V ABURTO	NAG 3-946	6870
13	KENT STATE UNIV-KENT	D L CHUBB	LERC	C VARGAS-ABURTO	NAG 3-1693	6871
13	KENT STATE UNIV-KENT	G RYBICKI	LERC	C VARGAS-ABURTO	NAG 3-1726	6873
13	KENT STATE UNIV-KENT	J LARIMER	ARC	J KELLY	NCC 2-803	6875
13	KENT STATE UNIV-KENT	R F LEONARD	LERC	D L JOHNSON	NCC 3-222	6877
13	OHIO STATE UNIV	M A MANTENIEKS	LERC	T M YORK	NAG 3-843	6895
13	OHIO STATE UNIV	M P WERNET	LERC	M SAMIMY	NAG 3-1502	6907
13	OHIO STATE UNIV	R S SKARDA	LERC	C D ANDERECK	NAG 3-1612	6910
13	OHIO STATE UNIV	M MANTENIEKS	LERC	P J TURCHI	NAG 3-1764	6915
13	OHIO STATE UNIV	M J KURYLO	HQ	F C DE LUCIA	NAGW 2639	6933
13	UNIV OF AKRON	G D ROBERTS	LERC	E D VON MEERWALL	NCC 3-164	7002
13	UNIV OF AKRON	J M PEREIRA	LERC	E D VON MEERWALL	NCC 3-335	7009
13	UNIV OF CINCINNATI	G BEHEIM	LERC	J T BOYD	NAG 3-852	7018
13	UNIV OF CINCINNATI	M NALL	HQ	J M ALBAYYARI	NCCW 35	7051
13	WITTENBERG UNIV	G E SCHWARZE	LERC	A J FRASCA	NAG 3-793	7117
13	OKLAHOMA STATE UNIV	D F CHAO	LERC	P TONET	NAG 3-1613	7122
13	OKLAHOMA STATE UNIV	G A ZIMMERLI	LERC	B J ACKERSON	NAG 3-1624	7123
13	OR.GRAD INST SCI&TEC	R W ROOD	MSFC	U S RAO GUDIMETLA	NGT 8-52803	7151
13	UNIV OREGON-EUGENE	M C LEE	HQ	R J DONNELLY	NAGW 3354	7206
13	PENN STATE U-UNIV PK	L J EARLY	GSFC	C L CROSKEY	NAG 5-683	7316
13	PENN STATE U-UNIV PK	L J EARLY	GSFC	J D RUSSELL	NAG 5-5015	7344
13	PENN STATE U-UNIV PK	R H PLESS	GSFC	T J KANE	NAG 5-5035	7345
13	PENN STATE U-UNIV PK	M P VOLZ	MSFC	G S DUBKAVICH	NCC 8-56	7403
13	PENN STATE U-UNIV PK	D HOLLAND	HQ	D BURROWS	NGT 00-051-125	7420
13	PENN STATE U-UNIV PK	D HOLLAND	HQ	J E NEFF	NGT 00-051-406	7428
13	UNIV OF PITTSBURGH	J A POWELL	LERC	W J CHOYKE	NAG 3-603	7449
13	UNIV OF PITTSBURGH	J A POWELL	LERC	W J CHOYKE	NAG 3-1695	7456
13	UNIV OF PITTSBURGH	L J EARLY	GSFC	E C ZIPF	NAG 5-609	7457
13	UNIV OF PITTSBURGH	L J EARLY	GSFC	E C ZIPF	NAG 5-661	7458
13	UNIV OF PITTSBURGH	G A LESANE	HQ	W L WE	NGT 00-051-348	7478
13	WESTMINSTER COLLEGE	R A WILKINSON	LERC	W L JOHNSON	NCC 3-276	7494
13	BROWN UNIVERSITY	M C LEE	HQ	H J MARIS	NAGW 3359	7513
13	BROWN UNIVERSITY	W J WAGNER	HQ	P H SCHULTY	NAGW 3431	7516
13	BROWN UNIVERSITY	G SOFFEN	GSFC	R H BRANDENBERGER	NGT 00-051-011	7534
13	BROWN UNIVERSITY	M BURRELL	GSFC	P T TIMBIE	NGT 00-051-187	7537
13	BROWN UNIVERSITY	G LESANE	HQ	G SEIDEL	NGT 00-051-262	7538
13	UNIV OF RHODE ISLAND	D LONGEDDY	HQ	I D ALEXANDER	NAGW 4099	7559
13	CLEMSON UNIV-CLEMSON	L J EARLY	GSFC	M F LARSEN	NAG 5-632	7572

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13	CLEMSON UNIV-CLEMSON	L J EARLY	GSFC	M F LARSON	NAG 5-5002	7576
13	CLEMSON UNIV-CLEMSON	R H PLESS	GSFC	M F LARSEN	NAG 5-5034	7577
13	CLEMSON UNIV-CLEMSON	R H PLESS	GSFC	J W MERIWETHER	NAG 5-5043	7578
13	CLEMSON UNIV-CLEMSON	J BOHLIN	HQ	D L HYSELL	NAGW 4546	7582
13	SO DAKOTA SCHL MINES	I L KRAINSKY	LERC	A PETUKHOV	NAG 3-1680	7617
13	FISK UNIVERSITY	S R BULLOCK	LERC	W E COLLINS	NAG 3-1430	7640
13	FISK UNIVERSITY	S E MASSENBERG	HQ	E SILBERMAN	NAGW 2925	7642
13	UNIV TENNESSEE-KNOXV	G SOFFEN	GSFC	W E BLASS	NGT 00-050-969	7701
13	VANDERBILT UNIVERSTY	M VLASSE	MSFC	H HOFMEISTER	NAG 8-832	7711
13	VANDERBILT UNIVERSTY	M VLASSE	MSFC	H HOFMEISTER	NAG 8-1104	7714
13	VANDERBILT UNIVERSTY	J A VAUGHN	GSFC	R G ALBRIDGE	NAG 8-1128	7715
13	VANDERBILT UNIVERSTY	B M CARPENTER	HQ	T G WANG	NAGW 2473	7719
13	VANDERBILT UNIVERSTY	B M CARPENTER	HQ	R N GRUGEL	NAGW 2844	7720
13	VANDERBILT UNIVERSTY	F M SULZMAN	HQ	F A GAFFNEY	NAGW 3764	7722
13	PRAIRIE VIEW A&M U	J P THORNBORROW	JSC	R D BOYD	NAG 9-631	7772
13	PRAIRIE VIEW A&M U	M DIOGU	JSC	T SEN HUANG	NCC 9-31	7780
13	RICE UNIVERSITY	M H ACUNA	GSFC	P A CLOUTIER	NAG 5-1195	7786
13	RICE UNIVERSITY	T J BIRMINGHAM	GSFC	T W HILL	NAG 5-1489	7787
13	RICE UNIVERSITY	M L GOLDSTEIN	GSFC	P H REIFF	NAG 5-2215	7792
13	RICE UNIVERSITY	J GRAF	JSC	F K TITTEL	NAG 9-838	7809
13	RICE UNIVERSITY	M M MELLOTT	HQ	P H REIFF	NAGW 1655	7811
13	RICE UNIVERSITY	E C WHIPPLE	HQ	R A WOLFE	NAGW 2824	7812
13	RICE UNIVERSITY	E C WHIPPLE	HQ	R A WOLF	NAGW 2826	7813
13	RICE UNIVERSITY	B M CARPENTER	HQ	R H HAUGE	NAGW 2845	7814
13	RICE UNIVERSITY	M M MELLOTT	HQ	K SMITH	NAGW 4004	7819
13	RICE UNIVERSITY	E C WHIPPLE	HQ	R A WOLF	NAGW 4035	7820
13	RICE UNIVERSITY	G SOFFEN	GSFC	E P LIANG	NGT 00-050-924	7829
13	RICE UNIVERSITY	G SOFFEN	GSFC	G H VOIGT	NGT 00-051-019	7830
13	RICE UNIVERSITY	D HOLLAND	HQ	R C HAYMES	NGT 00-051-079	7832
13	RICE UNIVERSITY	M BURRELL	GSFC	P A CLOUTIER	NGT 00-051-186	7833
13	RICE UNIVERSITY	D HOLLAND	HQ	P H REITT	NGT 00-051-382	7836
13	TEXAS A&M UNIVERSITY	I S SMITH	GSFC	J T TIELKING	NAG 5-5026	7877
13	TEXAS A&M UNIVERSITY	P O'NEILL	JSC	G CHOI	NAG 9-831	7902
13	UNIV HOUSTON	G D ARNDT	JSC	R WEINSTEIN	NAG 9-592	7976
13	UNIV HOUSTON	K KRISHEN	JSC	P C CHU	NAG 9-741	7985
13	UNIV HOUSTON	G D ARNDT	JSC	R WEINSTEIN	NAG 9-743	7987
13	UNIV HOUSTON	G BADHWAR	JSC	L PINSKY	NAG 9-803	7990
13	UNIV HOUSTON	D MCKAY	JSC	A IGNATIEV	NAG 9-806	7991
13	UNIV HOUSTON	D ARNDT	JSC	R WEINSTEIN	NAG 9-822	7992
13	UNIV HOUSTON	D K RUSSELL	HQ	T GOLDING	NGT 00-070-250	8001
13	UNIV OF NORTH TEXAS	J J SINGH	LARC	J M PEREZ	NAG 1-1468	8050
13	UNIV TEXAS-AUSTIN	F L LUMPKIN	JSC	D B GOLDSTEIN	NAG 9-840	8113
13	UNIV TEXAS-AUSTIN	M M MELLOTT	HQ	W HORTON	NAGW 2590	8126
13	UNIV TEXAS-AUSTIN	R E MURPHY	HQ	C K SHUM	NAGW 2941	8130
13	UNIV TEXAS-AUSTIN	F C OWENS	HQ	J C WHEELER	NGT 00-050-853	8173
13	UNIV TEXAS-AUSTIN	B CARPENTER	HQ	H L SWINNEY	NGT 00-051-151	8179
13	UNIV TEXAS-DALLAS	M M MELLOTT	HQ	M R HAIRSTON	NAGW 3466	8195
13	UNIV TEXAS-DALLAS	M M MELLOTT	HQ	W B HANSON	NAGW 4002	8196
13	UNIV TEXAS-DALLAS	J D BOHLIN	HQ	M R HAIRSTON	NAGW 4411	8197
13	UNIV TEXAS-DALLAS	J D BOHLIN	HQ	W R COLEY	NAGW 4442	8198
13	UNIV TEXAS-DALLAS	J D BOHLIN	HQ	R A HEELIS	NAGW 4492	8199
13	UNIV TEXAS-EL PASO	A POTTER	JSC	J A LOPEZ	NAG 9-755	8212
13	BRIGHAM YOUNG UNIV	E SCHWARTZ	HQ	J W MOODY	NGT 00-051-411	8247
13	UNIV OF UTAH	W V JONES	HQ	M H SALAMON	NAGW 1999	8263
13	UTAH STATE UNIV	L J EARLY	GSFC	B G FEJER	NAG 5-672	8274
13	UTAH STATE UNIV	L J EARLY	GSFC	J C ULWICK	NAG 5-686	8275
13	UTAH STATE UNIV	T J BIRMINGHAM	GSFC	R W SCHUNK	NAG 5-1484	8276
13	UTAH STATE UNIV	L J EARLY	GSFC	P J ESPY	NAG 5-5022	8279
13	UTAH STATE UNIV	R H PLESS	GSFC	D M SWENSON	NAG 5-5044	8280
13	UTAH STATE UNIV	P H PLESS	GSFC	J C ULWICK	NAG 5-5046	8281

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13	UTAH STATE UNIV	M M MELLOTT	HQ	B G FEJER	NAGW 2103	8283
13	UTAH STATE UNIV	D L REASONER	HQ	C SWENSON	NAGW 2852	8284
13	UTAH STATE UNIV	E C WHIPPLE	HQ	H G DEMARS	NAGW 3567	8286
13	UTAH STATE UNIV	M M MELLOTT	HQ	D J CRAIN	NAGW 3999	8288
13	UTAH STATE UNIV	J D BOHLIN	HQ	B G FEJER	NAGW 4425	8292
13	UTAH STATE UNIV	L SHAW	LERC	J R DENNISON	NGT 3-52302	8304
13	MIDDLEBURY COLLEGE	J D BOHLIN	HQ	R WOLFSON	NAGW 2141	8308
13	NORWICH UNIVERSITY	F SIX	MSFC	W TIMOSZYK	NAG 8-238	8309
13	UNIV. OF VERMONT	F SIX	MSFC	Y YU	NAG 8-1006	8311
13	CHRISTPHR NEWPORT U	P BROCKMAN	LARC	A M BUONCRISTIANI	NAG 1-796	8315
13	CHRISTPHR NEWPORT U	J L SHINN	LARC	C K CHANG	NCC 1-178	8321
13	CHRISTPHR NEWPORT U	M NAMKUNG	LARC	C M HILS	NGT 1-52108	8324
13	COLLEGE OF WM & MARY	P H JOHNSTON	LARC	B T SMITH	NAG 1-1063	8328
13	COLLEGE OF WM & MARY	R S ROGOWSKI	LARC	D M MANOS	NAG 1-1575	8332
13	COLLEGE OF WM & MARY	P H JOHNSTON	LARC	D M MANOS	NAG 1-1585	8333
13	COLLEGE OF WM & MARY	K E CRAMER	LARC	D M MANOS	NAG 1-1597	8334
13	COLLEGE OF WM & MARY	R ROGOWSKI	LARC	D M MANOS	NAG 1-1665	8336
13	COLLEGE OF WM & MARY	R S ROGOWSKI	LARC	D M MANOS	NAG 1-1668	8337
13	COLLEGE OF WM & MARY	M A SMITH	LARC	D C BENNER	NCC 1-80	8343
13	GEORGE MASON UNIV	J R FISCHER	GSFC	R LOHNER	NAG 5-2652	8365
13	GEORGE MASON UNIV	J P NORRIS	GSFC	M KAFATOS	NCC 5-52	8372
13	HAMPTON UNIVERSITY	J J SINGH	LARC	K S HAN	NAG 1-1168	8380
13	HAMPTON UNIVERSITY	J J SINGH	LARC	A C SMITH	NAG 1-1742	8384
13	HAMPTON UNIVERSITY	G ADAMOVSKY	LERC	R LYONS	NAG 3-1720	8385
13	HAMPTON UNIVERSITY	S E MASSENBERG	HQ	D D VENABLE	NAGW 2929	8387
13	NORFOLK STATE UNIV	J H LEE	LARC	G E MILLER	NAG 1-1513	8398
13	OLD DOMINION UNIV	G C GREENE	LARC	O A KANDIL	NAG 1-994	8411
13	OLD DOMINION UNIV	S H CHOI	LARC	J H HEINBOCKEL	NAG 1-1424	8421
13	OLD DOMINION UNIV	G C GREENE	LARC	R L ASH	NAG 1-1437	8424
13	OLD DOMINION UNIV	E V BROWELL	LARC	H ELSAYED-ALI	NAG 1-1578	8434
13	OLD DOMINION UNIV	R A KIMBLE	GSFC	J BECHER	NAG 5-1527	8448
13	OLD DOMINION UNIV	L W TOWNSEND	LARC	G S KHANDELWAL	NCC 1-42	8454
13	OLD DOMINION UNIV	E J PRIOR	LARC	G S KHANDELWAL	NGT 00-051-104	8469
13	OLD DOMINION UNIV	E J PRIOR	LARC	W L HARNES	NGT 00-070-263	8475
13	ROANOKE COLLEGE	M FORMAN	HQ	C H TSAO	NAGW 4639	8487
13	UNIV OF VIRGINIA	M BICAY	HQ	A W LICHTENBERGER	NAGW 2377	8532
13	UNIV OF VIRGINIA	E C WHIPPLE	HQ	R R BARAGIOLA	NAGW 3954	8535
13	UNIV OF VIRGINIA	F C OWENS	HQ	J J DORNING	NGT 00-050-821	8567
13	UNIV OF VIRGINIA	G LESANE	HQ	J J DORNING	NGT 00-051-063	8575
13	VIRGINIA STATE UNIV	J W WILSON	LARC	C E STRONACH	NAG 1-1527	8697
13	UNIV OF WASHINGTON	L J EARLY	GSFC	G K PARKS	NAG 5-677	8721
13	UNIV OF WASHINGTON	H C NEEDLEMAN	GSFC	R H HOLZWORTH	NAG 5-685	8722
13	UNIV OF WASHINGTON	K W OGILVIE	GSFC	G K PARKS	NAG 5-2813	8739
13	UNIV OF WASHINGTON	L J EARLY	GSFC	R H HOLZWORTH	NAG 5-5011	8744
13	UNIV OF WASHINGTON	G ASRAR	HQ	L TSANG	NAGW 1702	8760
13	UNIV OF WASHINGTON	W V JONES	HQ	R WILKES	NAGW 3528	8785
13	UNIV OF WASHINGTON	E C WHIPPLE	HQ	G K PARKS	NAGW 3650	8789
13	UNIV OF WASHINGTON	M M MELLOTT	HQ	R H HOLZWORTH	NAGW 4147	8796
13	UNIV OF WASHINGTON	J D BOHLIN	HQ	G K PARKS	NAGW 4450	8804
13	UNIV OF WASHINGTON	D A HOLLAND	HQ	T R QUINN	NAGW 4776	8808
13	UNIV OF WASHINGTON	J J O'BRIEN	GSFC	G K PARKS	NAS 5-26850	8813
13	UNIV OF WASHINGTON	K STICH	GSFC	G K PARKS	NAS 5-30613	8814
13	UNIV OF WASHINGTON	F C OWENS	HQ	J LORD	NGT 00-050-700	8844
13	UNIV OF WASHINGTON	F C OWENS	HQ	G K PARKS	NGT 00-050-788	8846
13	UNIV OF WASHINGTON	D HOLLAND	HQ	R M WINGLEE	NGT 00-051-155	8852
13	WASHINGTON ST UNIV	R J SKARDA	LERC	P L MARSTON	NAG 3-1622	8861
13	MARQUETTE UNIVERSITY	H J COLE	MSFC	MATTHYS	NAG 8-1111	8912
13	UNIV WISC-MADISON	J A SALZMAN	LERC	S KOU	NAG 3-1393	8932
13	UNIV WISC-MADISON	R KELLEY	GSFC	D MCCAMMON	NAG 5-594	8935
13	UNIV WISC-MADISON	L J EARLY	GSFC	K H NORDSIECK	NAG 5-647	8936

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13	UNIV WISC-MADISON	L J EARLY	GSFC	R J REYNOLDS	NAG 5-674	8937
13	UNIV WISC-MADISON	L J EARLY	GSFC	D MCCAMMON	NAG 5-679	8938
13	UNIV WISC-MADISON	B M CARPENTER	HQ	R F COOPER	NAGW 2835	8990
13	UNIV WISC-MADISON	B M CARPENTER	HQ	J H PEREPEZKO	NAGW 2841	8991
13	UNIV WISC-MADISON	D C GILLIES	MSFC	R J MATYI	NCC 8-52	9042
13	UNIV WISC-MILWAUKEE	T K GLASGOW	LERC	M LEVY	NAG 3-1274	9058
13	UNIV OF WYOMING	M J KAVAYA	MSFC	R INGUVA	NAG 8-249	9075
13	U PUERTO RICO-MAYAGZ	R A KESKI-KUHA	GSFC	F E FERNANDEZ	NAG 5-2188	9090
13	U PUERTO RICO-MAYAGZ	M V LASSE	MSFC	A BARRIENTAS	NAG 8-1085	9093
13	U PUERTO RICO-MAYAGZ	D K RUSSELL	HQ	A LEYDERMAN	NGT 00-070-322	9111
13	U P'RTO RICO-HUMACAO	F SIX	MSFC	C HERNANDEZ	NAG 8-1003	9116
19	AUBURN UNIV-AUBURN	C CRANNELL	GSFC	L GREENE	NAS 5-30759	1036
19	UNIV ALA-BIRMINGHAM	T Y MILLER	MSFC	L J DELVCAS	NAG 8-1162	1077
19	UNIV ALA-BIRMINGHAM	J X HO	MSFC	C D SMITH	NAG 8-1193	1078
19	UNIV ALA-BIRMINGHAM	H C BRINTON	HQ	D C AGRESTI	NAGW 3081	1082
19	UNIV ALA-BIRMINGHAM	F R SZOFRAN	MSFC	R N ANDREWS	NAS 8-38672	1088
19	UNIV ALA-BIRMINGHAM	I YATES	MSFC	J B ANDREWS	NAS 8-39717	1089
19	UNIV ALA-BIRMINGHAM	K HIGGINBETHAM	MSFC	L J DELUCAS	NAS 8-39762	1090
19	UNIV ALA-BIRMINGHAM	H K HIGGINBOTHAM	MSFC	L J DELUCAS	NAS 8-40189	1091
19	UNIV ALA-BIRMINGHAM	F R SZOFRAN	MSFC	R N ANDREWS	NAS 8-40429	1092
19	UNIV ALA-HUNTSVILLE	A L FRIPP	LARC	A NADARAJAH	NAG 1-1534	1099
19	UNIV ALA-HUNTSVILLE	J A SALZMAN	LERC	J I ALEXANDER	NAG 3-1384	1101
19	UNIV ALA-HUNTSVILLE	J C DUH	LERC	J D ALEXANDER	NAG 3-1740	1102
19	UNIV ALA-HUNTSVILLE	F R SZOFRAN	MSFC	F E ROSENBERGER	NAG 8-842	1122
19	UNIV ALA-HUNTSVILLE	M L PUSEY	MSFC	F ROSENBERGER	NAG 8-931	1124
19	UNIV ALA-HUNTSVILLE	M L PUSEY	MSFC	A NADARAJAH	NAG 8-984	1127
19	UNIV ALA-HUNTSVILLE	T Y MILLER	MSFC	F E ROSENBERGER	NAG 8-1161	1139
19	UNIV ALA-HUNTSVILLE	L B JETER	MSFC	F ROSENBERGER	NAS 8-39716	1173
19	UNIV ALA-HUNTSVILLE	P A CURRERI	MSFC	W F KAUKLER	NAS 8-40185	1174
19	UNIV ALA-HUNTSVILLE	F SIX	MSFC	W P SCHONBERG	NGT 00-070-253	1191
19	UNIV ALA-TUSCALOOSA	L JETER	MSFC	D M STEFANESCU	NAS 8-39715	1226
19	UNIV ALA-TUSCALOOSA	P A CURRERI	MSFC	D M STEFANESCU	NCC 8-34	1228
19	UNIV OF SO ALABAMA	F SIX	MSFC	R E SPALL	NAG 8-278	1237
19	UNIV ALASKA-FAIRBNKS	D K HALL	GSFC	C S BENSON	NAG 5-887	1242
19	UNIV ALASKA-FAIRBNKS	R J GUNDERMAN	LERC	C E MAYER	NAS 3-26401	1266
19	ARIZONA STATE UNIV	J A NUTH	HQ	S WYCOFF	NAGW 2241	1313
19	ARIZONA STATE UNIV	J A NUTH	HQ	J W LARIMER	NAGW 2273	1314
19	ARIZONA STATE UNIV	J A NUTH	HQ	J R HOLLOWAY	NAGW 2274	1315
19	ARIZONA STATE UNIV	J A NUTH	HQ	R L HERVIG	NAGW 2276	1316
19	ARIZONA STATE UNIV	J A NUTH	HQ	I M ZIURYS	NAGW 3065	1321
19	NORTHERN ARIZONA U	J A NUTH	HQ	C S SHOEMAKER	NAGW 2303	1352
19	UNIV OF ARIZONA	L E LASHER	ARC	D M HUNTEN	NAG 2-143	1367
19	UNIV OF ARIZONA	J A SALZMAN	LERC	C F CHEN	NAG 3-1386	1377
19	UNIV OF ARIZONA	H V FREY	GSFC	C G CHASE	NAG 5-3018	1416
19	UNIV OF ARIZONA	M M MELLOTT	HQ	L L HOOD	NAGW 1658	1439
19	UNIV OF ARIZONA	W L QUAIDE	HQ	H P LARSON	NAGW 2206	1450
19	UNIV OF ARIZONA	J A NUTH	HQ	C Y FAN	NAGW 2249	1451
19	UNIV OF ARIZONA	J A NUTH	HQ	J I LUNINE	NAGW 2250	1452
19	UNIV OF ARIZONA	J A NUTH	HQ	D R HUFFMAN	NAGW 2253	1453
19	UNIV OF ARIZONA	J A NUTH	HQ	D MCCARTHY	NAGW 2254	1454
19	UNIV OF ARIZONA	J A NUTH	HQ	J H BLACK	NAGW 2255	1455
19	UNIV OF ARIZONA	J A NUTH	HQ	E LEVY	NAGW 2291	1456
19	UNIV OF ARIZONA	J A NUTH	HQ	L L HOOD	NAGW 2315	1457
19	UNIV OF ARIZONA	J A NUTH	HQ	R S MCMILLAN	NAGW 2321	1458
19	UNIV OF ARIZONA	W L QUAIDE	HQ	C C PORCO	NAGW 2342	1459
19	UNIV OF ARIZONA	W L QUAIDE	HQ	R V YELLE	NAGW 2360	1462
19	UNIV OF ARIZONA	W L QUAIDE	HQ	B R SANDELL	NAGW 2441	1464
19	UNIV OF ARIZONA	W L QUAIDE	HQ	R V YELLE	NAGW 2537	1467
19	UNIV OF ARIZONA	J A NUTH III	HQ	M J DRAKE	NAGW 2884	1477
19	UNIV OF ARIZONA	H C BRINTON	HQ	W V BOYNTON	NAGW 3076	1479

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19	UNIV OF ARIZONA	H C BRINTON	HQ	J LEWIS	NAGW 3400	1489
19	UNIV OF ARIZONA	J A NUTH	HQ	W BENZ	NAGW 3406	1490
19	UNIV OF ARIZONA	J T BERGSTRALH	HQ	R V YELLE	NAGW 3631	1500
19	UNIV OF ARIZONA	H C BRINTON	HQ	W V BOYNTON	NAGW 3717	1505
19	ARKANSAS STATE UNIV	F SIX	MSFC	B BENNETT	NAG 8-277	1583
19	UNIV ARKANSAS-LTL RK	F SIX	MSFC	T VISWANATHAN	NAG 8-276	1586
19	CALIF INST OF TECH	J A NUTH	HQ	T A TOMBRELLO	NAGW 2279	1655
19	CALIF INST OF TECH	J A NUTH	HQ	G A BLAKE	NAGW 2297	1656
19	CALIF INST OF TECH	W L QUAIDE	HQ	Y L YUNG	NAGW 2362	1657
19	CALIF INST OF TECH	W L QUAIDE	HQ	A P INGERSOLL	NAGW 2363	1658
19	CALIF INST OF TECH	W L QUAIDE	HQ	T J AHRENS	NAGW 2439	1661
19	CALIF INST OF TECH	W QUAIDE	HQ	B MURRAY	NAGW 2491	1662
19	CALIF INST OF TECH	W L QUAIDE	HQ	D J STEVENSON	NAGW 2496	1663
19	CALIF INST OF TECH	W QUAIDE	HQ	D O MUHLEMAN	NAGW 2576	1664
19	CALIF INST OF TECH	J A NUTH	HQ	G J WASSERBURG	NAGW 3040	1673
19	CALIF INST OF TECH	J A NUTH	HQ	S R KULKARNI	NAGW 3207	1675
19	CALIF INST OF TECH	J LAUDADIO	GSFC	E STONE	NAS 5-32626	1708
19	CAL STATE U-FULLERTN	J A NUTH	HQ	D S WOLLUM	NAGW 2515	1764
19	SAN FRAN STATE UNIV	D LEISER	ARC	G FISHER	NCC 2-5053	1818
19	SAN FRAN STATE UNIV	D LEISER	ARC	G FISHER	NCC 2-5106	1819
19	SAN JOSE STATE UNIV	L E LASHER	ARC	B RAGENT	NCC 2-466	1841
19	STANFORD UNIVERSITY	B S SINGH	LERC	G M HOMSY	NAG 3-1475	1908
19	STANFORD UNIVERSITY	G D BULLOCK	GSFC	U S INAN	NAG 5-1549	1911
19	STANFORD UNIVERSITY	D A REISS	MSFC	R S FEIGELSON	NAG 8-1151	1920
19	STANFORD UNIVERSITY	W L QUAIDE	HQ	L TYLER	NAGW 2437	1929
19	STANFORD UNIVERSITY	W L QUAIDE	HQ	V R ESHLEMAN	NAGW 2442	1930
19	STANFORD UNIVERSITY	H C BRINTON	HQ	G L TYLER	NAGW 3375	1934
19	UNIV CALIF-BERKELEY	K W OGLIVIE	GSFC	R P LIN	NAG 5-2815	2093
19	UNIV CALIF-BERKELEY	L J EARLY	GSFC	C W CARLSON	NAG 6-10	2104
19	UNIV CALIF-BERKELEY	J A NUTH	HQ	S W STAHLER	NAGW 3107	2132
19	UNIV CALIF-BERKELEY	J A NUTH III	HQ	F H SHU	NAGW 3595	2138
19	UNIV CALIF-IRVINE	J A NUTH	HQ	S P RUDEN	NAGW 2260	2338
19	UNIV CALIF-IRVINE	L E MAULDRIN	LARC	R CICERONE	NAS 1-19155	2346
19	UNIV CALIF-L ANGELES	J M HICKMAN	LERC	C T RUSSELL	NAG 3-1584	2375
19	UNIV CALIF-L ANGELES	J M HICKMAN	LERC	C T RUSSELL	NAG 3-1646	2376
19	UNIV CALIF-L ANGELES	G D BULLOCK	GSFC	M G KIVELSON	NAG 5-1529	2385
19	UNIV CALIF-L ANGELES	G D BULLOCK	GSFC	R J WALKER	NAG 5-1530	2386
19	UNIV CALIF-L ANGELES	G BULLOCK	GSFC	C RUSSELL	NAG 5-1967	2390
19	UNIV CALIF-L ANGELES	P TAYLOR	GSFC	S I BREGINSKY	NAG 5-2953	2400
19	UNIV CALIF-L ANGELES	I D BROWNE	JSC	P H WARREN	NAG 9-87	2402
19	UNIV CALIF-L ANGELES	J A NUTH	HQ	J T WASSON	NAGW 2243	2417
19	UNIV CALIF-L ANGELES	J A NUTH	HQ	W M KAULA	NAGW 2269	2418
19	UNIV CALIF-L ANGELES	J A NUTH	HQ	B M ZUCKERMAN	NAGW 2270	2419
19	UNIV CALIF-L ANGELES	W QUAIDE	HQ	P M DAVIS	NAGW 2384	2420
19	UNIV CALIF-L ANGELES	W L QUAIDE	HQ	C T RUSSELL	NAGW 2573	2422
19	UNIV CALIF-L ANGELES	W L QUAIDE	HQ	J LUHMANN	NAGW 2575	2423
19	UNIV CALIF-L ANGELES	W L QUAIDE	HQ	C T RUSSELL	NAGW 2886	2429
19	UNIV CALIF-L ANGELES	J A NUTH	HQ	J F KERRIDGE	NAGW 3064	2432
19	UNIV CALIF-L ANGELES	J A NUTH	HQ	NEWMAN	NAGW 3132	2434
19	UNIV CALIF-L ANGELES	H C BRINTON	HQ	P M DAVIS	NAGW 3468	2439
19	UNIV CALIF-L ANGELES	H C BRINTON	HQ	R THORNE	NAGW 3590	2447
19	UNIV CALIF-L ANGELES	A DOUGHERTY	HQ	V K DHIR	NASW 4891	2478
19	UNIV CALIF-RIVERSIDE	M L PUSEY	GSFC	A J MALKIN	NAG 8-1164	2504
19	UNIV CALIF-SAN DIEGO	L E LASHER	ARC	W FILLIUS	NAG 2-153	2516
19	UNIV CALIF-SAN DIEGO	D E PITTS	JSC	S K RIDE	NAG 9-706	2557
19	UNIV CALIF-SAN DIEGO	J A NUTH	HQ	M H THIEMENS	NAGW 2251	2569
19	UNIV CALIF-SAN DIEGO	J A NUTH	HQ	A MENDIS	NAGW 2252	2570
19	UNIV CALIF-SAN DIEGO	W L QUAIDE	HQ	J R ARNOLD	NAGW 2577	2572
19	UNIV CALIF-SAN DIEGO	J A NUTH	HQ	B JONES	NAGW 3127	2583
19	UNIV CALIF-SAN FRAN	T E BUNCH	ARC	A POHORILLE	NCC 2-5147	2647

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19	UNIV CALIF-S CRUZ	H V FREY	GSFC	R S ANDERSON	NAG 5-2984	2696
19	UNIV CALIF-S CRUZ	J A NUTH	HQ	P H BODENHEIMER	NAGW 3408	2706
19	UNIV CALIF-S CRUZ	J A NUTH III	HQ	D LIN	NAGW 3599	2707
19	UNIV OF SOUTHERN CAL	H V FREY	GSFC	D W BURBANK	NAG 5-2951	2743
19	UNIV COLORADO-BOLDR	M E HILL	LERC	J N KOSTER	NAG 3-1094	2863
19	UNIV COLORADO-BOLDR	J A SALZMAN	LERC	R L SANI	NAG 3-1410	2867
19	UNIV COLORADO-BOLDR	H V FREY	GSFC	J B RUNDLE	NAG 5-3054	2932
19	UNIV COLORADO-BOLDR	M BALTUCK	HQ	J WAHR	NAGW 1942	2966
19	UNIV COLORADO-BOLDR	M BALTUCK	HQ	G ROSBOROUGH	NAGW 1944	2967
19	UNIV COLORADO-BOLDR	J A NUTH	HQ	G R STEWART	NAGW 2248	2971
19	UNIV COLORADO-BOLDR	W L QUAIDE	HQ	W R PRYOR	NAGW 2488	2975
19	UNIV COLORADO-BOLDR	H C BRINTON	HQ	W A MCCLINTOCK	NAGW 3370	2999
19	UNIV COLORADO-BOLDR	M C BRINTON	HQ	D H GRINSPOON	NAGW 3584	3005
19	UNIV COLORADO-BOLDR	J A NUTH III	HQ	T P SNOW	NAGW 3600	3007
19	UNIV COLORADO-BOLDR	P G ROGERS	HQ	J BALLY	NAGW 4590	3038
19	UNIV COLORADO-BOLDR	G HALL	MSFC	J E HART	NAS 8-31958	3053
19	UNIV COLORADO-BOLDR	F C OWNES	HQ	A F GOETZ	NGT 00-050-728	3090
19	UNIV OF DENVER	M F SMITH	GSFC	T M STEPHEN	NAG 5-2799	3144
19	WESLEYAN UNIVERSITY	J A NUTH	HQ	W HERBST	NAGW 3632	3169
19	UNIV OF DELAWARE	S RUNCO	JSC	D KLEMAS	NAG 9-789	3212
19	GEORGE WASHINGTON U	G ASRAR	HQ	R H LANG	NAGW 2071	3243
19	CATHOLIC UNIVERSITY	D K RUSSELL	HQ	F C BRUHWEILER	NGT 00-070-371	3310
19	FLORIDA ATLANTIC U	R J GUNDERMAN	LERC	H F HELMKEN	NAS 3-26956	3368
19	UNIV OF FLORIDA	A L FRIPP	LARC	T J ANDERSON	NAG 1-1474	3456
19	UNIV OF FLORIDA	W L QUAIDE	HQ	T D CARR	NAGW 2410	3477
19	UNIV OF FLORIDA	A B DOUGHERTY	HQ	J F KLAUSNER	NASW 4888	3501
19	UNIV OF SO FLORIDA	G J GUNDERMAN	LERC	R E HENNING	NAS 3-26412	3561
19	CLARK ATLANTA UNIV	S STECURA	LERC	T MENSAH	NAG 3-1394	3580
19	GEORGIA INST OF TECH	J A NUTH	HQ	J W BELETIC	NAGW 3181	3649
19	UNIV OF HAWAII-MANOA	J A NUTH	HQ	A TOKUNAGA	NAGW 2278	3797
19	UNIV OF HAWAII-MANOA	J A NUTH	HQ	D JEWITT	NAGW 3398	3811
19	NORTHWESTERN UNIV	D F CHAO	LERC	J B GROTBORG	NAG 3-1636	3893
19	UNIV OF CHICAGO	G BULLOCK	GSFC	P MEYER	NAG 5-2307	3949
19	UNIV OF CHICAGO	J A NUTH	HQ	I M STEELE	NAGW 2272	3981
19	UNIV OF CHICAGO	W L QUAIDE	HQ	T ECONOMOU	NAGW 2578	3983
19	UNIV OF CHICAGO	J A NUTH	HQ	R CLAYTON	NAGW 3069	3987
19	UNIV OF CHICAGO	J A NUTH	HQ	L GROSSMAN	NAGW 3212	3990
19	UNIV OF CHICAGO	J WILLETT	HQ	P MEYER	NAGW 4690	4007
19	UNIV OF CHICAGO	J T LYNCH	HQ	S MEYER	NGT 00-051-100	4022
19	UNIV ILLINOIS-CHICGO	N D PILTCHI	LERC	M Y CHOI	NAG 3-1722	4037
19	UNIV ILLINOIS-URBANA	A L FRIPP	LARC	J A DANTZIG	NAG 1-1545	4046
19	UNIV ILLINOIS-URBANA	J A NUTH	HQ	L E SNYDER	NAGW 2299	4090
19	INDIANA U-BLOOMINGTN	J A NUTH	HQ	R DURISON	NAGW 3399	4141
19	UNIV OF NOTRE DAME	J A NUTH	HQ	S C TEGLER	NAGW 3433	4238
19	IOWA STATE UNIV	B F SMITH	ARC	J D IVERSON	NAG 2-151	4255
19	IOWA STATE UNIV	E L PORCE	ARC	R C SEAGRAVE	NAG 2-885	4257
19	IOWA STATE UNIV	S D COBB	MSFC	T A LOGRASSO	NAG 8-963	4275
19	IOWA STATE UNIV	J BERGSTRALH	HQ	M SEGAL	NAGW 4060	4279
19	UNIV OF IOWA	J M HICKMAN	LERC	W S KURTH	NAG 3-1580	4295
19	UNIV OF IOWA	G BULLOCK	GSFC	L A FRANK	NAG 5-1109	4298
19	UNIV OF IOWA	G D BULLOCK	GSFC	C HUANG	NAG 5-1543	4299
19	UNIV OF IOWA	M L PUSEY	MSFC	J M WIENECK	NAG 8-1159	4317
19	UNIV OF IOWA	J A NUTH	HQ	J A GOREE	NAGW 3126	4326
19	UNIV OF IOWA	H C BRINTON	HQ	J D MENIETTI	NAGW 3143	4327
19	LA ST U&A&M COL-BRGE	W I SCALLION	LARC	R W COURTER	NAG 1-1359	4420
19	NWN ST U-LOUISIANA	C R CHAPPELL	MSFC	H W HYDE	NAG 8-150	4461
19	SOUTHEASTERN LA UNIV	D SIX	MSFC	C W STEIDLEY	NAG 8-1206	4462
19	JOHNS HOPKINS UNIV	W P WINFREE	LARC	J W WAGNER	NAG 1-1191	4522
19	JOHNS HOPKINS UNIV	W P WINFREE	LARC	J WAGNER	NAG 1-1524	4523
19	JOHNS HOPKINS UNIV	G D BULLOCK	GSFC	D G MITCHELL	NAG 5-1524	4530

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19	JOHNS HOPKINS UNIV	G D BULLOCK	GSFC	R E ERLANDSON	NAG 5-1601	4533
19	JOHNS HOPKINS UNIV	W L QUAIDE	HQ	A F CHENG	NAGW 2373	4575
19	JOHNS HOPKINS UNIV	W L QUAIDE	HQ	B H MAUK	NAGW 2433	4576
19	JOHNS HOPKINS UNIV	W L QUAIDE	HQ	D F STROBEL	NAGW 2443	4577
19	JOHNS HOPKINS UNIV	H C BRINTON	HQ	A F CHENG	NAGW 3387	4594
19	JOHNS HOPKINS UNIV	F WAINSCOTT	GSFC	P D FELDMAN	NAS 5-26848	4622
19	SALISBURY STATE UNIV	F SIX	MSFC	J L TYROLL	NAG 8-992	4651
19	UNIV MARYLAND-COL PK	K W OGILVIE	GSFC	G GLOECKLER	NAG 5-2810	4738
19	UNIV MARYLAND-COL PK	T T VON ROSENVINGE	GSFC	G M MASON	NAG 5-2865	4741
19	UNIV MARYLAND-COL PK	T T VON ROSENVINGE	GSFC	G M MASON	NAG 5-2963	4746
19	UNIV MARYLAND-COL PK	R E MURPHY	HQ	R DUBAYAH	NAGW 2928	4770
19	UNIV MARYLAND-COL PK	J A NUTH,III	HQ	L MUNDY	NAGW 3066	4772
19	UNIV MARYLAND-COL PK	H C BRINTON	HQ	R KHANNA	NAGW 3598	4782
19	UNIV MARYLAND-COL PK	W R HOEGY	GSFC	S W GREENWOOD	NCC 5-35	4830
19	U OF MD-BALT. COUNTY	J WELKER	GSFC	P M MASOUKA	NCC 5-76	4888
19	BOSTON UNIVERSITY	W L QUAIDE	HQ	W J HUGHES	NAGW 2890	4925
19	CLARK UNIVERSITY	M E HILL	LERC	S P LIN	NAG 3-1402	4947
19	HARVARD UNIVERSITY	J A NUTH	HQ	A G CAMERON	NAGW 2277	4985
19	HARVARD UNIVERSITY	J A NUTH	HQ	S B JACOBSEN	NAGW 2858	4988
19	HARVARD UNIVERSITY	G MADDREA	LARC	S C WOFSY	NAS 1-18946	4998
19	MASS INST OF TECH	D B SNYDER	LERC	D E HASTINGS	NAG 3-695	5063
19	MASS INST OF TECH	K W OGILVIE	GSFC	A J LAZARUS	NAG 5-2839	5121
19	MASS INST OF TECH	E C ETHRIDGE	MSFC	A F WITT	NAG 8-949	5133
19	MASS INST OF TECH	M B ROBINSON	MSFC	J SZEKELY	NAG 8-1069	5139
19	MASS INST OF TECH	B G PENN	MSFC	P CEBE	NAG 8-1110	5141
19	MASS INST OF TECH	M BALTUCK	HQ	M N TOKSOZ	NAGW 1961	5164
19	MASS INST OF TECH	J A NUTH	HQ	J N HEWITT	NAGW 2310	5173
19	MASS INST OF TECH	W L QUAIDE	HQ	H B HAMMEL	NAGW 2385	5175
19	MASS INST OF TECH	W L QUAIDE	HQ	J W BELCHER	NAGW 2403	5177
19	WELLESLEY COLLEGE	W L QUAIDE	HQ	P G FRENCH	NAGW 2511	5319
19	WELLESLEY COLLEGE	J T BERGSTRALH	HQ	G STARK	NAGW 3607	5320
19	WORCESTER POLY INST	P GILBERT	MSFC	A SACCO	NAS 8-40222	5332
19	WORCESTER POLY INST	M NALL	MSFC	A SACCOJR.	NAS 8-40260	5333
19	ALMA COLLEGE	F SIX	MSFC	J E DAVIS	NAG 8-999	5336
19	UNIV MICH-ANN ARBOR	A T CHAI	LERC	V S ARPACI	NAG 3-1133	5391
19	UNIV MICH-ANN ARBOR	G D BULLOCK	GSFC	A F NAGY	NAG 5-472	5400
19	UNIV MICH-ANN ARBOR	W R HOEGY	GSFC	G R CARRIGNAN	NAG 5-1691	5404
19	UNIV MICH-ANN ARBOR	R E HARTLE	GSFC	T L KILLEEN	NAG 5-2250	5409
19	UNIV MICH-ANN ARBOR	W L QUAIDE	HQ	L H BRACE	NAGW 2501	5444
19	UNIV MICH-ANN ARBOR	W L QUAIDE	HQ	S K ATREYA	NAGW 2561	5446
19	UNIV MICH-ANN ARBOR	H C BRINTON	HQ	M COMBI	NAGW 3417	5449
19	UNIV MICH-ANN ARBOR	H C BRINTON	HQ	T M DONAHUE	NAGW 3423	5450
19	UNIV MICH-ANN ARBOR	H C BRINTON	HQ	M COMB	NAGW 3585	5454
19	U MINN-MNPLS-ST PAUL	I D BROWNE	JSC	R O PEPIN	NAG 9-60	5557
19	U MINN-MNPLS-ST PAUL	W L QUAIDE	HQ	K MAUERSBERGER	NAGW 2466	5563
19	U MINN-MNPLS-ST PAUL	F C OWENS	HQ	S BANERJEE	NGT 00-050-421	5592
19	MISSISSIPPI STATE U	D CARTER	MSFC	W WILSON	NAG 8-965	5623
19	MISSISSIPPI STATE U	D C CARTER	MSFC	W W WILSON	NAG 8-1158	5626
19	MISSISSIPPI STATE U	J A SALZMAN	LERC	R A ALTENKIRCH	NCC 3-221	5629
19	UNIV MISS-UNIVERSITY	D K RUSSELL	HQ	M T HAHMANN	NGT 00-070-401	5647
19	UNIV SO MISSISSIPPI	J P DOWNEY	MSFC	L J MATHIAS	NAG 8-973	5648
19	UNIV SO MISSISSIPPI	THURMAN	SSC	WHITEHEAD	NAG13-28	5649
19	UNIV MO-ROLLA	R W NIEDZWIECKI	LERC	P WHITFIELD	NCC 3-343	5684
19	WASHINGTON UNIVERSTY	H V FREY	GSFC	R E ARVIDSON	NAG 5-2982	5697
19	WASHINGTON UNIVERSTY	J A NUTH	HQ	F A PODOSEK	NAGW 2304	5705
19	WASHINGTON UNIVERSTY	W V JONES	HQ	J J BEATTY	NAGW 2990	5711
19	WASHINGTON UNIVERSTY	J A NUTH	HQ	M B FEGLEY	NAGW 3070	5715
19	UNIV NEVADA-L VEGAS	A S MCGEE	HQ	R F BOEHM	NAGW 4349	5801
19	UNIV OF NEVADA-RENO	M L FONDA	ARC	C F ROGERS	NCC 2-5119	5807
19	DARTMOUTH COLLEGE	G D BULLOCK	GSFC	B SONNERUP	NAG 5-1508	5812

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19	UNIV NEW HAMP-DURHAM	G D BULLOCK	GSFC	E MOBIUS	NAG 5-1548	5846
19	UNIV NEW HAMP-DURHAM	L J EARLY	GSFC	R L ARNOLDY	NAG 6-12	5861
19	PRINCETON UNIVERSITY	D CARTER	MSFC	M H HECHT	NAG 8-979	5951
19	RUTGERS ST U-PISCTWY	J A NUTH	HQ	R H HEWINS	NAGW 2263	5991
19	STEVENS INST OF TECH	F SIX	MSFC	W SCHWARZ	NAG 8-1102	6013
19	NM HIGHLANDS UNIV	F SIX	MSFC	B TAYLOR	NAG 8-196	6023
19	NM HIGHLANDS UNIV	B L WHITE	HQ	R D CLARK	NAGW 4078	6025
19	UNIV OF NEW MEXICO	J A NUTH III	HQ	F J RIETMEIJER	NAGW 3646	6084
19	CITY U OF NY CTY COL	M M WEISLOGEL	LERC	C MALDARELLI	NAG 3-1618	6100
19	CLARKSON UNIVERSITY	M E HILL	LERC	R S SUBRAMANIAN	NAG 3-1122	6117
19	COLUMBIA UNIVERSITY	I D BROWNE	JSC	J LONGHI	NAG 9-329	6168
19	CORNELL UNIVERSITY	A T CHAI	LERC	P H STEEN	NAG 3-1401	6236
19	CORNELL UNIVERSITY	D F CHAO	LERC	C T AVEDISIAN	NAG 3-1627	6239
19	CORNELL UNIVERSITY	G D BULLOCK	GSFC	M G KELLEY	NAG 5-1545	6246
19	CORNELL UNIVERSITY	H V FREY	GSFC	B L ISACKS	NAG 5-2985	6254
19	CORNELL UNIVERSITY	J A NUTH	HQ	LOVELACE	NAGW 2293	6276
19	CORNELL UNIVERSITY	W L QUAIDE	HQ	S SQUYRES	NAGW 2374	6278
19	CORNELL UNIVERSITY	W L QUAIDE	HQ	P J GIERASCH	NAGW 2916	6283
19	CORNELL UNIVERSITY	J T BERGSTRALH	HQ	C SAGAN	NAGW 3273	6285
19	CORNELL UNIVERSITY	H C BRINTON	HQ	S W SQUYRES	NAGW 3283	6287
19	CORNELL UNIVERSITY	L J EARLY	GSFC	M C KELLEY	NSG-6020	6328
19	POLYTECHNIC U	A L FRIPP	LARC	D M SCHLEICH	NAG 1-1387	6355
19	STATE U NY-STONY BRK	J A NUTH	HQ	R F KNACKE	NAGW 2334	6475
19	STATE U NY-STONY BRK	W L QUAIDE	HQ	J L FOX	NAGW 2483	6476
19	STATE U NY-STONY BRK	J A NUTH	HQ	F WALTER	NAGW 3165	6479
19	ST U NY COL-PLATTSBG	I D BROWNE	JSC	G J FLYNN	NAG 9-459	6496
19	SYRACUSE UNIVERSITY	S K ROBINSON	LARC	E F SPINA	NAG 1-1400	6502
19	UNIV OF ROCHESTER	J A NUTH	HQ	H M VAN HORN	NAGW 2262	6519
19	DUKE UNIVERSITY	D CARTER	MSFC	D C RICHARDSON	NAG 8-966	6539
19	NO CAROLINA STATE U	S M WANDER	HQ	R DEJARNETTE	NAGW 1072	6617
19	NO CAROLINA STATE U	G MADDREA	LARC	V SAXENA	NAS 1-18944	6623
19	CASE WESTERN RESERVE	R W LAUVER	LERC	D H MATTHIESEN	NAG 3-1478	6713
19	CASE WESTERN RESERVE	A D PLINE	LERC	S OSTRACH	NAG 3-1568	6718
19	CASE WESTERN RESERVE	A DOUGHERTY	HQ	R PRIBISICH	NCCW 36	6771
19	CENTRAL ST UNIV-OHIO	J A SALZMAN	LERC	M M GIRGIS	NAG 3-1463	6790
19	HEIDELBERG COLLEGE	B J MCBRIDE	LERC	M A RENO	NCC 3-174	6867
19	KENT STATE UNIV-KENT	A F HEPP	LERC	C V ABURTO	NCC 3-318	6879
19	UNIV OF CINCINNATI	J POUCH	LERC	V J KAPOOR	NCC 3-33	7047
19	UNIV OF DAYTON	R L THOMPSON	LERC	K P HALLINAN	NAG 3-1391	7068
19	UNIV OF TOLEDO	W E MORREN	LERC	K J DEWITT	NAG 3-577	7074
19	UNIV OF TOLEDO	R L THOMPSON	LERC	K J DEWITT	NAG 3-1501	7090
19	WILBERFORCE UNIV	A F HEPP	LERC	R L GLENN	NCC 3-281	7116
19	UNIV OKLAHOMA-NORMAN	P H JOHNSTON	LARC	R A KLINE	NAG 1-1375	7130
19	CARNEGIE-MELLON UNIV	R L THOMPSON	LERC	S GAROFF	NAG 3-1390	7219
19	CARNEGIE-MELLON UNIV	R L THOMPSON	LERC	N CHIGIER	NAG 3-1505	7220
19	CARNEGIE-MELLON UNIV	T MILLER	MSFC	J L ANDERSON	NAG 8-964	7223
19	PENN STATE U-UNIV PK	L J EARLY	GSFC	J D MITCHELL	NAG 6-7	7346
19	PENN STATE U-UNIV PK	J A NUTH	HQ	E D FEIGELSON	NAGW 2280	7362
19	PENN STATE U-UNIV PK	J A NUTH	HQ	A WOLSZCZAN	NAGW 3405	7374
19	PENN STATE U-UNIV PK	M A FORMAN	HQ	J BEATTY	NAGW 4737	7385
19	PENN STATE U-UNIV PK	D K WEST	GSFC	R CORBETT	NAS 5-32489	7390
19	PENN STATE U-UNIV PK	D HOLLAND	HQ	J F KASTING	NGT 00-051-384	7427
19	ST. VINCENT COLLEGE	W B KRABILL	GSFC	R E BERRY	NAG 5-5017	7435
19	UNIV OF PITTSBURGH	A T CHAI	LERC	D JASNOW	NAG 3-1403	7451
19	UNIV OF PITTSBURGH	D NOEVER	MSFC	X L WU	NAG 8-959	7463
19	BROWN UNIVERSITY	J M HICKMAN	LERC	C M PIETERS (DR.)	NAG 3-1648	7499
19	BROWN UNIVERSITY	W L QUAIDE	HQ	J HEAD	NAGW 2500	7510
19	BROWN UNIVERSITY	M C LEE	HQ	C ELBAUM	NAGW 3331	7512
19	CLEMSON UNIV-CLEMSON	J A NUTH	HQ	D D CLAYTON	NAGW 2305	7579
19	SO DAKOTA SCHL MINES	B A WIELICKI	LARC	R M WELCH	NAS 1-19077	7629

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19	UNIV TENNESSEE-KNOXV	D KORNFELD	MSFC	B N ANTAR	NAG 8-1089	7684
19	UNIV TENNESSEE-KNOXV	I D BROWNE	JSC	L A TAYLOR	NAG 9-415	7686
19	UNIV TENNESSEE-KNOXV	J K ALEXANDER	HQ	H Y MCSWEEN	NAGW 2800	7689
19	UNIV TENNESSEE-KNOXV	J BERGSTRALH	HQ	K FOX	NAGW 4459	7695
19	VANDERBILT UNIVERSTY	J A NUTH	HQ	D A WEINTRAUB	NAGW 3385	7721
19	LAMAR UNIVERSITY	T A SULLIVAN	JSC	J JORDAN	NAG 9-699	7764
19	PRAIRIE VIEW A&M U	R E HARTLE	GSFC	T S HUANG	NAG 5-2317	7769
19	PRAIRIE VIEW A&M U	E EMANUEL	JSC	A KUMAR	NAG 9-500	7771
19	PRAIRIE VIEW A&M U	B L WHITE	HQ	T N FOGARTY	NCCW 86	7782
19	RICE UNIVERSITY	B BILLS	GSFC	R GORDON	NAG 5-3045	7799
19	RICE UNIVERSITY	W L QUAIDE	HQ	H VOIGT	NAGW 2893	7815
19	RICE UNIVERSITY	J T BERGSTRALH	HQ	P A CLOUTIER	NAGW 3811	7818
19	TEXAS A&M UNIVERSITY	H C NEEDLEMAN	GSFC	J NOEL	NAG 5-655	7866
19	UNIV HOUSTON	J T JAMES	JSC	W E WENTWORTH	NAG 9-742	7986
19	UNIV TEXAS-AUSTIN	J A SALZMAN	LERC	H L SWINNEY	NAG 3-1382	8073
19	UNIV TEXAS-AUSTIN	J J DEGNAN	GSFC	R J EANES	NAG 5-2146	8082
19	UNIV TEXAS-AUSTIN	H V FREY	GSFC	J C GIBEAUT	NAG 5-2954	8091
19	UNIV TEXAS-AUSTIN	D A NOEVER	MSFC	D J HEINZEN	NAG 8-1090	8093
19	UNIV TEXAS-AUSTIN	R G FORMAN	JSC	E BECKER	NAG 9-463	8097
19	UNIV TEXAS-AUSTIN	E CHRISTIANSEN	JSC	E P FAHRETHOLD	NAG 9-808	8109
19	UNIV TEXAS-AUSTIN	J A NUTH	HQ	W D COCHRAN	NAGW 2302	8120
19	UNIV TEXAS-AUSTIN	J A NUTH	HQ	P M HARVEY	NAGW 2323	8122
19	UNIV TEXAS-DALLAS	W L QUAIDO	HQ	R R HODGES	NAGW 2534	8192
19	UNIV TEXAS-DALLAS	W L QUAIDE	HQ	R R HODGES	NAGW 2535	8193
19	UNIV TEXAS-EL PASO	M R CARRUTH JR.	MSFC	P W WANG	NAG 8-1021	8207
19	UTAH VALLEY CMTY COL	J L CREWS	JSC	T W LEE	NAG 9-496	8305
19	COLLEGE OF WM & MARY	P H JOHNSTON	LARC	K J SUN	NAG 1-1671	8338
19	COLLEGE OF WM & MARY	E J PRIOR	LARC		NAS 1-19656	8340
19	COLLEGE OF WM & MARY	R H PATER	LARC	W J KESSLER	NGT 1-52105	8353
19	HAMPTON UNIVERSITY	C HERMAN	JSC	A A ADEYIGA	NAG 9-333	8386
19	HAMPTON UNIVERSITY	L B GARRETT	LARC	W TINSLEY	NAS 1-20444	8390
19	LONGWOOD COLLEGE	A L FRIPP	LARC	P BARBER	NAG 1-1691	8395
19	OLD DOMINION UNIV	D S MILLER	LARC	O BAYSAL	NAG 1-1150	8416
19	UNIV OF VIRGINIA	A L FRIPP	ARC	W A JESSER	NAG 1-350	8489
19	UNIV OF VIRGINIA	J A NUTH	GSFC	L U LILLELEHT	NAG 5-865	8511
19	UNIV OF VIRGINIA	J A NUTH	HQ	B DONN	NAGW 2313	8530
19	VIRGINIA STATE UNIV	J W WILSON	LARC	C E STRONACH	NAG 1-416	8695
19	VIRGINIA STATE UNIV	J W WILSON	LARC	J J STITH	NAG 1-765	8696
19	UNIV OF WASHINGTON	M L PUSEY	MSFC	V VOGEL	NAG 8-1149	8746
19	UNIV OF WASHINGTON	W L QUAIDE	HQ	J E TILLMAN	NAGW 2982	8775
19	UNIV OF WASHINGTON	H C BRINTON	HQ	J E TILLMAN	NAGW 3381	8782
19	UNIV OF WASHINGTON	J A NUTH III	HQ	D BROWNLEE	NAGW 3636	8787
19	UNIV OF WASHINGTON	J WILLETT	HQ	G K PARKS	NAGW 4335	8800
19	UNIV OF WASHINGTON	G MADDREA	LARC	P V HOBBS	NAS 1-18940	8811
19	MARQUETTE UNIVERSITY	S L LEHOCZKY	MSFC	R F BREBRICK	NAG 8-875	8911
19	UNIV WISC-MADISON	M B ROBINSON	MSFC	J PEREPEZKO	NAG 8-1068	8977
19	UNIV WISC-MADISON	W L QUAIDE	HQ	L A SROMOVSKY	NAGW 2411	8984
19	U PUERTO RICO-MAYAGZ	D K RUSSELL	HQ	A LEYDERMAN	NGT 00-070-392	9114
21	UNIV ALA-HUNTSVILLE	D K RUSSELL	HQ	R MCNIDER	NGT 00-070-366	1192
21	UNIV OF ARIZONA	D A HOLLAND	HQ	J C BAYGENTS	NGT 00-051-122	1566
21	UNIV CALIF-BERKELEY	M M WEISLOGEL	LERC	P CONCUS	NAG 3-1143	2050
21	UNIV CALIF-BERKELEY	M WEISLOGEL	LERC	P CONCUS	NCC 3-329	2200
21	UNIV OF NORTHERN COL	D K RUSSELL	HQ	P C ISAACSON	NGT 00-090-263	3153
21	FLA INTERNATIONAL U	M MATEU	HQ	C BRAIN	NAGW 4641	3335
21	CLARK ATLANTA UNIV	J W GOODRICH	LERC	R E MICKENS	NAG 3-1411	3581
21	GEORGIA INST OF TECH	E ANDERSON	HQ	M STOMBLER	NAGW 4217	3654
21	SPELMAN COLLEGE	D K RUSSELL	HQ	E FALCONER	NGT 00-090-258	3744
21	NORTHWESTERN UNIV	J ALEXANDER	HQ	B J MATROWSKI	NGT 00-050-902	3921
21	NORTHWESTERN UNIV	B CARPENTER	HQ	B CARPENTER	NGT 00-051-083	3923
21	NORTHWESTERN UNIV	D GLASCO	HQ	B J MATKOWSKY	NGT 00-051-388	3927

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21	UNIV ILLINOIS-URBANA	H D ROSS	LERC	J BUDCMERTOR	NAG 3-1247	4064
21	UNIV ILLINOIS-URBANA	S GOKOGLU	LERC	J D BUCKMASTER	NAG 3-1704	4072
21	UNIV OF NEW ORLEANS	A JOYCE	SSC	T SOLANKY	NGT 00-051-213	4491
21	UNIV MARYLAND-COL PK	F C OWENS	HQ	L KANAL	NGT 00-050-718	4856
21	UNIV MICH-ANN ARBOR	J L THOMAS	LARC	B VAN LEER	NAG 1-869	5374
21	PRINCETON UNIVERSITY	D WEST	GSFC	B T DRAINE	NAG 5-2858	5947
21	RENSSELAER POLY-NY	P HUNTER	HQ	D W SCHWENDEMAN	NGT 00-051-167	6398
21	STATE U NY-BINGHAMTN	F C OWENS	HQ	G KLIR	NGT 00-050-756	6435
21	FAYETTEVILLE STATE U	D GALLAWAY	HQ	L EDWARDS	NAGW 3083	6571
21	FAYETTEVILLE STATE U	B L WHITE	HQ	L EDWARDS	NGT 00-090-244	6574
21	NO CAROLINA STATE U	T EDWARDS	ARC	D S MCRAE	NCA 2-719	6624
21	NO DAKOTA STATE UNIV	W F FORD	LERC	D K COPE	NAG 3-1312	6676
21	CASE WESTERN RESERVE	A J DECKER	LERC	S H IZEN	NAG 3-832	6698
21	UNIV OF AKRON	P J OUZTS	LERC	P H SCHMIDT	NAG 3-1146	6982
21	PENN STATE U-UNIV PK	D V GALLAWAY	HQ	M K HEID	NGT 00-051-016	7416
21	BROWN UNIVERSITY	J T LYNCH	HQ	P F FISHER	NGT 00-051-029	7535
21	CLEMSON UNIV-CLEMSON	J A PENNLIN	LERC	J K PETERSON	NAG 3-1311	7571
21	CLEMSON UNIV-CLEMSON	D RUSSELL	HQ	J PETERSON	NGT 00-070-386	7590
21	LANE COLLEGE	W L HARRIS	HQ	W C MCCLURE	NAGW 3930	7643
21	LAMAR UNIVERSITY	N G ROBERTSON	JSC	M ZOLENSKY	NAG 9-772	7765
21	RICE UNIVERSITY	K KIRSHEN	JSC	R O WELLS	NAG 9-681	7803
21	RICE UNIVERSITY	K KRISHEN	JSC	R O WELLS	NAG 9-748	7807
21	RICE UNIVERSITY	R P HEYDORN	JSC	J R	NAG 9-771	7808
21	SAM HOUSTON ST UNIV	D L HENNINGER	JSC	C R HALLUM	NAG 9-749	7842
21	UNIV TEXAS-AUSTIN	R E SMITH	LARC	J KALLINDERIS	NAG 1-1459	8064
21	UNIV TEXAS-AUSTIN	S LAU	ARC	B J KUIPERS	NAG 2-994	8070
21	GEORGE MASON UNIV	L BERKE	LERC	R A POLYAK	NAG 3-1397	8357
21	HAMPTON UNIVERSITY	R E SMITH	LARC	M LAM	NAG 1-948	8378
21	OLD DOMINION UNIV	S E MASSENBERG	LARC	E M RUDISILL	NAG 1-1302	8419
21	OLD DOMINION UNIV	P A PADILLA	LARC	H KANEKO	NCC 1-213	8461
21	UNIV OF VIRGINIA	D K RUSSELL	HQ	T PETERSON	NGT 00-070-339	8591
22	AUBURN UNIV-AUBURN	J HALE	MSFC	L MOORE	NAG 8-1019	1031
22	AUBURN UNIV-AUBURN	M E JACKSON	MSFC	A S HODEL	NAG 8-1040	1032
22	AUBURN UNIV-AUBURN	D HOLLAND	HQ	C MCCREARY	NGT 00-051-149	1045
22	OAKWOOD COLLEGE	H WAITES	MSFC	M ARMOUR	NAS 8-40194	1054
22	TUSKEGEE UNIVERSITY	D PEARSON	MSFC	C V DORESWAMY	NAG 8-1141	1066
22	UNIV ALA-BIRMINGHAM	D K RUSSELL	HQ	W JONES	NGT 00-070-397	1097
22	UNIV ALA-HUNTSVILLE	R S MCGINNIS	HQ	S GRAVES	NAGW 4259	1158
22	UNIV ALA-HUNTSVILLE	R J KOCZOR	MSFC	S J GRAVES	NAS 8-38663	1170
22	UNIV ALA-HUNTSVILLE	H M GOODMAN	MSFC	S J GRAVES	NCC 8-21	1176
22	UNIV ALA-TUSCALOOSA	U HUETER	MSFC	J A MARTIN	NAG 8-1106	1220
22	ARIZONA STATE UNIV	A VAZIRI	ARC	G M NIELSON	NAG 2-990	1291
22	UNIV OF ARIZONA	B N HOLBEN	GSFC	J A REAGAN	NAG 5-1712	1390
22	UNIV OF ARIZONA	J R FISCHER	GSFC	R A SCHOWENGERDT	NAG 5-2198	1392
22	UNIV OF ARIZONA	H BRINTON	HQ	R GREELEY	NAGW 4403	1518
22	UNIV OF ARIZONA	G J FOLLEN	LERC	R SCHLICHTING	NCC 3-374	1539
22	UNIV OF ARIZONA	P HUNTER	HQ	R D SCHLICHTING	NGT 00-050-966	1563
22	CAL STATE U-FRESNO	D K RUSSELL	HQ	A AUERNHEIMER	NGT 00-070-412	1763
22	CAL STATE U-NRTHRDRG	M HARTMAN	GSFC	D MILLER	NCA 5-116	1778
22	FOOTHILL-DEANZA SYST	D B MCKELLER	ARC	P YASUDA	NCC 2-785	1788
22	SAN FRAN STATE UNIV	P GRAMS	ARC	H SHAHNASSER	NCC 2-5045	1817
22	SAN JOSE STATE UNIV	T A LASKINSKI	ARC	R K DODD	NAG 2-915	1822
22	SAN JOSE STATE UNIV	C C JORGENSEN	ARC	A PELLIONISZ	NCC 2-835	1851
22	SANTA CLARA UNIV	K G STEVENS JR.	ARC	H S ALKHATIB	NCC 2-644	1875
22	SANTA CLARA UNIV	T GRANT	ARC	Q LI	NCC 2-5082	1880
22	SANTA CLARA UNIV	T GRANT	ARC	Q LI	NCC 2-5120	1881
22	STANFORD UNIVERSITY	K G STEVENS JR.	ARC	S F LUNDSTROM	NAG 2-248	1892
22	STANFORD UNIVERSITY	S LAU	ARC	R E FIKES	NAG 2-581	1893
22	STANFORD UNIVERSITY	H LUM	ARC	J MCCARTHY	NAG 2-703	1897
22	STANFORD UNIVERSITY	S LAU	ARC	R M FIKES	NAG 2-887	1899

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22	STANFORD UNIVERSITY	S LAU	ARC	D L DILL	NAG 2-891	1900
22	STANFORD UNIVERSITY	S LAU	ARC	Z MANNA	NAG 2-892	1901
22	STANFORD UNIVERSITY	T A LASHINSKI	ARC	L HESSELINK	NAG 2-911	1904
22	STANFORD UNIVERSITY	A VIZIRI	ARC	P HANRAHAN	NAS 2-14308	1947
22	STANFORD UNIVERSITY	S LAU	ARC	L LEIFER	NCC 2-514	1965
22	STANFORD UNIVERSITY	S LAU	ARC	G M HOMSY	NCC 2-537	1966
22	STANFORD UNIVERSITY	W J FEIEREISEN	ARC	J H FERZIGER	NCC 2-899	1973
22	STANFORD UNIVERSITY	K SWANSON	ARC	G SPRINGER	NCC 2-5136	1999
22	STANFORD UNIVERSITY	G ASRAR	HQ	G K YEY	NGT 00-030-115	2007
22	STANFORD UNIVERSITY	P HUNTER	HQ	M J FLYNN	NGT 00-050-964	2015
22	STANFORD UNIVERSITY	D K RUSSELL	HQ	R SHACHTER	NGT 00-070-342	2030
22	STANFORD UNIVERSITY	D G SOCKOREZ	JSC	O KHATIB	NGT 9-6	2042
22	UNIV CALIF-BERKELEY	R S MCGINNIS	HQ	M STONEBRAKER	NAGW 4260	2158
22	UNIV CALIF-BERKELEY	S LAU	ARC	G M HOMSY	NCC 2-275	2186
22	UNIV CALIF-BERKELEY	K G STEVENS	ARC	A J SMITH	NCC 2-550	2188
22	UNIV CALIF-BERKELEY	D J KORSMEYER	ARC	R MALINA	NCC 2-838	2190
22	UNIV CALIF-BERKELEY	D J KORSMEYER	ARC	R F MALINA	NCC 2-902	2191
22	UNIV CALIF-BERKELEY	G ASRAR	HQ	A JUELS	NGT 00-030-107	2205
22	UNIV CALIF-IRVINE	D K RUSSELL	HQ	D RICHARDSON	NGT 00-070-352	2355
22	UNIV CALIF-L ANGELES	J R FISCHER	GSFC	R MUNTZ	NAG 5-2225	2394
22	UNIV CALIF-L ANGELES	G H MUCKLOW	HQ	R R MUNTZ	NAGW 3915	2453
22	UNIV CALIF-L ANGELES	R S MCGINNIS	HQ	R MUNTZ	NAGW 4242	2463
22	UNIV CALIF-SAN DIEGO	D A HOLLAND	HQ	R C PUETTER	NAGW 4726	2604
22	UNIV CALIF-SAN DIEGO	D WEST	GSFC	D E GRUBER	NAS 5-32069	2607
22	UNIV CALIF-SAN DIEGO	P N SMITH	ARC	R JAIN	NCC 2-792	2616
22	UNIV CALIF-S BARBARA	J R FISCHER	GSFC	Z WAN	NAG 5-2485	2652
22	UNIV CALIF-S BARBARA	G H MUCKLOW	HQ	T R SMITH	NAGW 3888	2668
22	UNIV CALIF-S BARBARA	G H MUCKLOW	HQ		NAGW 3951	2669
22	UNIV CALIF-S BARBARA	G ASRAR	HQ	Y CHEN	NGT 00-030-159	2681
22	UNIV CALIF-S CRUZ	A VAZIRI	ARC	J WILHELMS	NAG 2-991	2689
22	UNIV CALIF-S CRUZ	A VAZIRI	ARC	J WILHELMS	NCC 2-717	2716
22	UNIV OF SOUTHERN CAL	P E FRIEDLAND	ARC	S LAU	NAG 2-864	2732
22	UNIV OF SOUTHERN CAL	P FRIEDLAND	ARC	P ROSENBLUM	NCC 2-538	2763
22	UNIV OF SOUTHERN CAL	H LUM	ARC	D W MIZELL	NCC 2-539	2764
22	UNIV OF SOUTHERN CAL	H ASKHENES	GSFC	G A BEKEY	NGT 00-070-290	2772
22	COLORADO STATE UNIV	K A SMITH	LARC	J M BIEMAN	NAG 1-1461	2786
22	COLORADO STATE UNIV	E LUCIER	HQ	M GOSS	NGT 00-030-274	2829
22	UNIV COLORADO-BOLDR	S LAU	ARC	R KING	NAG 2-862	2859
22	UNIV COLORADO-BOLDR	K R MCDONALD	GSFC	W J EMERY	NAG 5-2577	2909
22	UNIV COLORADO-BOLDR	G H MUCKLOW	HQ	K E SIMMONS	NAGW 3887	3013
22	UNIV COLORADO-BOLDR	M E MAIDEN	HQ	W EMERY	NAGW 4205	3023
22	UNIV COLORADO-BOLDR	R S MCGINNIS	HQ	W EMERY	NAGW 4230	3024
22	UNIV COLORADO-BOLDR	P E FRIEDLAND	ARC	W J EMERY	NCC 2-842	3058
22	HOWARD UNIVERSITY	J N BRUNER	GSFC	R J LEACH	NAG 5-2904	3277
22	FLA INTERNATIONAL U	B L WHITE	HQ	N RISHE	NAGW 4080	3334
22	UNIV OF CENTRAL FLA	N SLIWA	KSC	J M RAGUSA	NAG10-132	3435
22	UNIV OF CENTRAL FLA	T BARTH	KSC	W W SWART	NAG10-141	3437
22	UNIV OF CENTRAL FLA	D HOLLAND	HQ	D MOSHELL	NGT 00-051-402	3445
22	UNIV OF FLORIDA	R S MCGINNIS	HQ	T J JOHNSON	NAGW 4258	3488
22	VALENCIA COMM. COLL.	G BUCKINGHAM	KSC	K WOODBERRY	NAG10-165	3576
22	EMORY UNIVERSITY	A C WOO	ARC	V S SUNDERAM	NAG 2-828	3591
22	GEORGIA INST OF TECH	P E FRIEDLAND	ARC	S RUGABER	NAG 2-890	3614
22	GEORGIA INST OF TECH	W F TRUSZKOWSKI	GSFC	C M MITCHELL	NAG 5-1044	3630
22	GEORGIA INST OF TECH	W J POTTER	GSFC	C M MITCHELL	NAG 5-2226	3633
22	GEORGIA INST OF TECH	A W STOFFEL	GSFC	C M MITCHELL	NAG 5-2227	3634
22	GEORGIA INST OF TECH	C E MOORE	MSFC	E MYNATT	NAG 8-1155	3641
22	GEORGIA INST OF TECH	G H MUCKLOW	HQ	K SCHWAN	NAGW 3886	3652
22	GEORGIA INST OF TECH	D HOLLAND	HQ	K SCHWAN	NGT 00-051-154	3688
22	GEORGIA INST OF TECH	P SMITH	HQ	J I CRAIG	NGT 00-051-250	3691
22	GEORGIA INST OF TECH	D K RUSSELL	HQ	L HOWARD	NGT 00-090-277	3708

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22	UNIV OF HAWAII-MANOA	J R FISCHER	GSFC	D Y YUN	NAG 5-2486	3771
22	UNIV OF HAWAII-MANOA	M MODIN	ARC	T N NEILSON	NAS 2-14059	3836
22	NORTHWESTERN UNIV	K H ABBOTT	LARC	K D FORBUS	NAG 1-1343	3883
22	NORTHWESTERN UNIV	J R LEKASHMAN	ARC	P SCHEUERMANN	NAG 2-846	3886
22	NORTHWESTERN UNIV	E LUCIER	HQ	P SCHEUERMANN	NGT 00-030-244	3920
22	UNIV ILLINOIS-URBANA	W H BRYANT	LARC	J W LIU	NAG 1-613	4043
22	UNIV ILLINOIS-URBANA	E BARSZCZ	ARC	L V KALE	NAG 2-897	4058
22	UNIV ILLINOIS-URBANA	E F STOCKER	GSFC	M FOLK	NAG 5-2040	4074
22	UNIV ILLINOIS-URBANA	J R FISCHER	GSFC	P E SAYLOR	NAG 5-2201	4076
22	UNIV ILLINOIS-URBANA	A W STOFFEL	GSFC	P M JONES	NAG 5-2244	4077
22	UNIV ILLINOIS-URBANA	J R FISCHER	GSFC	M L NORMAN	NAG 5-2493	4079
22	UNIV ILLINOIS-URBANA	R S MCGINNIS	HQ	M FOLK	NAGW 4244	4094
22	UNIV ILLINOIS-URBANA	F C OWENS	HQ	B W WAH	NGT 00-050-743	4107
22	UNIV ILLINOIS-URBANA	F C OWENS	HQ	R K IYER	NGT 00-050-833	4108
22	UNIV ILLINOIS-URBANA	S GOLDSTEIN	JSC	D GOLDBERG	NGT 00-050-873	4109
22	UNIV ILLINOIS-URBANA	M MOORE	ARC	D A REED	NGT 00-051-023	4110
22	UNIV ILLINOIS-URBANA	P SMITH	HQ	D PADUA	NGT 00-051-251	4113
22	UNIV ILLINOIS-URBANA	C HICKS	JPL	D A REED	NGT 00-051-399	4118
22	UNIV ILLINOIS-URBANA	D G RICKORES	JSC	D E GOLDBERG	NGT 9-4	4125
22	PURDUE UNIVERSITY	R E SMITH	LARC	C BAJAJ	NAG 1-1473	4162
22	PURDUE UNIVERSITY	G H MUCKLOW	HQ	M F BAUMGARDNER	NAGW 3862	4196
22	PURDUE UNIVERSITY	F C OWENS	HQ	E N HOUSTIS	NGT 00-050-708	4209
22	PURDUE UNIVERSITY	F C OWENS	HQ	B BHARGAVA	NGT 00-050-779	4212
22	PURDUE UNIVERSITY	D HOLLAND	HQ	B BHARGAVA	NGT 00-051-284	4219
22	UNIV OF NOTRE DAME	J R FISCHER	GSFC	P M KOGGE	NAG 5-2998	4235
22	IOWA STATE UNIV	J R FISCHER	GSFC	E S TAKLE	NAG 5-2491	4271
22	UNIV OF IOWA	P SMITH	HQ	T RUS	NGT 00-051-321	4344
22	LA ST U&A&M COL-BRGE	R S MCGINNIS	HQ	N LAM	NAGW 4221	4437
22	LA ST U&A&M COL-BRGE	A JOYCE	SSC	D L CARVER	NGT 00-051-015	4446
22	LA ST U&A&M COL-BRGE	A JOYCE	SSC	D L CARVER	NGT 00-051-214	4450
22	SO UNIV & A&M COL-BR	H L THEISS	HQ	E W HINDS	NAGW 4013	4469
22	TULANE UNIVERSITY	J R FISCHER	GSFC	B P BUCKLES	NAG 5-2216	4479
22	UNIV SOUTHWESTERN LA	A JOYCE	SSC	D MOREAU	NGT 00-051-007	4498
22	BOWIE STATE COLLEGE	W F TRUSZKOWSKI	GSFC	S SRIVASTAVA	NAG 5-2277	4507
22	BOWIE STATE COLLEGE	P J SAKIMOTO	HQ	N T WAKIM	NAGW 4123	4510
22	BOWIE STATE COLLEGE	M MARGOLIS	HQ	C H KIRKSEY	NGT 00-090-016	4513
22	MORGAN STATE UNIV	J BENNETT	GSFC	W LUPTON	NCC 5-122	4643
22	MORGAN STATE UNIV	G R BAKER	GSFC	E C HAMMOND JR.	NGT 00-090-236	4648
22	UNIV MARYLAND-COL PK	E J PRIOR	LARC	J H SALTZ	NAG 1-1485	4656
22	UNIV MARYLAND-COL PK	G W WALKER	LARC	C Z SUN	NAG 1-1521	4657
22	UNIV MARYLAND-COL PK	R G WILMOTH	LARC	J SALTZ	NAG 1-1560	4660
22	UNIV MARYLAND-COL PK	S SAMADI	GSFC	A J FLEIG	NAG 5-2107	4703
22	UNIV MARYLAND-COL PK	J R FISCHER	GSFC	J M STONE	NAG 5-2202	4705
22	UNIV MARYLAND-COL PK	J R FISCHER	GSFC	L DAVIS	NAG 5-2482	4723
22	UNIV MARYLAND-COL PK	C A ROUFF	GSFC	B SHNEIDERMAN	NAG 5-2895	4744
22	UNIV MARYLAND-COL PK	C Y CHEUNG	GSFC	N ROUSSOPOULOS	NAG 5-2926	4745
22	UNIV MARYLAND-COL PK	D M BUTLER	HQ	Y QIAN	NGT 00-030-038	4848
22	UNIV MARYLAND-COL PK	E LUCIER	HQ	H SOMET	NGT 00-030-242	4852
22	UNIV MARYLAND-COL PK	R PAJERSKI	GSFC	V R BASILI	NSG-5123	4870
22	U OF MD-BALT. COUNTY	W F TRUSZKOWSKI	GSFC	H H EMVRIAN	NAG 5-2855	4879
22	U OF MD-BALT. COUNTY	D A ROBERTS	GSFC	D S EBERT	NAG 5-2893	4881
22	U OF MD-BALT. COUNTY	D K RUSSELL	HQ	E BAKER	NGT 00-090-260	4896
22	U OF MD-BALT. COUNTY	G A SOFFEN	GSFC	Y YESHA	NGT 5-9	4897
22	MASS INST OF TECH	S LAU	ARC	L R YOUNG	NCC 2-570	5231
22	MASS INST OF TECH	D HOLLAND	HQ	L MCKNIGHT	NGT 00-051-330	5255
22	UNIV OF MASS-LOWELL	A JOYCE	SSC	G G GRINSTEIN	NGT 00-051-217	5285
22	UNIV OF MASS-AMHERST	D K RUSSELL	HQ	W B CROFT	NGT 00-070-358	5316
22	HOPE COLLEGE	D E ECKHARDT	LARC	M J JIPPING	NAG 1-1480	5340
22	MICHIGAN STATE UNIV	C R MERCER	LERC	A K JAIN	NAG 3-1749	5348
22	MICHIGAN STATE UNIV	J R FISCHER	GSFC	R F STEIN	NAG 5-2489	5351

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22	MICHIGAN STATE UNIV	A HUSAIN	NMO	M MOCH	NCC 7-2	5355
22	MICHIGAN STATE UNIV	D K RUSSELL	HQ	B H CHENG	NGT 00-070-376	5358
22	UNIV MICH-ANN ARBOR	A L WHITE	LARC	K G SHIN	NAG 1-1220	5375
22	UNIV MICH-ANN ARBOR	A L WHITE	LARC	K G SHIN	NAG 1-1493	5383
22	UNIV MICH-ANN ARBOR	J B WILLETT	HQ	M D BURRAGE	NAGW 4367	5463
22	UNIV MICH-ANN ARBOR	S GOLDSTEIN	JSC	J T HOLLAND	NGT 00-051-057	5502
22	UNIV MICH-ANN ARBOR	D HOLLAND	HQ	E A RUNDENSTEINER	NGT 00-051-126	5505
22	UNIV MICH-ANN ARBOR	D K RUSSELL	HQ	S GREGERMAN	NGT 00-090-262	5517
22	WAYNE STATE UNIV	G F FOLLEN	LERC	E YAPRAK	NAG 3-1569	5524
22	WAYNE STATE UNIV	D HOLLAND	HQ	R G REYNOLDS	NGT 00-051-074	5530
22	U MINN-MNPLS-ST PAUL	A C WOO	ARC	Y SAAD	NAG 2-904	5546
22	U MINN-MNPLS-ST PAUL	F C OWENS	HQ	J V CARLIS	NGT 00-050-785	5593
22	JACKSON STATE UNIV	A T JOYCE	SSC	W G BROWN	NAG13-32	5607
22	JACKSON STATE UNIV	E LUCIER	HQ	B LUCAS	NGT 00-030-273	5608
22	MISSISSIPPI STATE U	T A LASINSKI	ARC	M L STOKES	NAG 2-824	5613
22	MISS VALLEY ST UNIV	F SIX	MSFC	R WILLIAMS	NAG 8-225	5636
22	UNIV SO MISSISSIPPI	D K RUSSELL	HQ	G H RAYBORN	NGT 00-070-394	5652
22	UNIV SO MISSISSIPPI	F SIX	MSFC	J KOLIBAL	NGT 8-52807	5653
22	UNIV MO-ST LOUIS	D G SICKOREZ	JSC	C Z JANIKOW	NAG 9-847	5687
22	UNIV NEBRASKA-LINCLN	D HOLLAND	HQ	S E REICHENBACH	NGT 00-051-293	5784
22	UNIV NEBRASKA-LINCLN	D HOLLAND	HQ	A SAMAL	NGT 00-051-379	5785
22	DARTMOUTH COLLEGE	B T BLAYLOCK	ARC	D F KOTZ	NAG 2-936	5809
22	DARTMOUTH COLLEGE	T E HARNESS	ARC	D F KOTZ	NCC 2-849	5834
22	RUTGERS ST U-N BRNSK	S LAU	ARC	G M HOMSY	NAG 2-668	6000
22	RUTGERS ST U-N BRNSK	T A LASINSKI	ARC	D SILVER	NAG 2-829	6003
22	RUTGERS ST U-N BRNSK	S LAU	ARC	T ELLMAN	NCC 2-802	6009
22	CITY U OF NY CTY COL	J BENNETT	GSFC	S AUSTIN	NCC 5-98	6110
22	CITY U NY-STATEN ISL	B JACOBS	GSFC	M TAUSNER	NAG 5-2291	6113
22	CORNELL UNIVERSITY	S LAU	ARC	F B SCHNEIDER	NAG 2-893	6232
22	CORNELL UNIVERSITY	G L WEEGMANN	LERC	A HANUSHEVSKY	NAG 3-1358	6235
22	NEW YORK UNIVERSITY	D E ECKHARDT	LARC	E WEYUKER	NAG 1-1238	6343
22	NIAGARA UNIVERSITY	R BLAKESLEE	MSFC	W L BOECK	NCC 8-24	6352
22	POLYTECHNIC U	F S SHIPMAN	LARC	M L SHOOMAN	NCC 1-190	6363
22	RENSELAER POLY-NY	D K RUSSELL	HQ	B SZYMANSKI	NGT 00-070-334	6401
22	STATE UNIV NY-BUFFAL	R W CLAUS	LERC	P W DOWD	NAG 3-1548	6442
22	APPALACHIAN STATE U	T S ABBOTT	LARC	C R RUSSELL	NAG 1-1321	6531
22	DUKE UNIVERSITY	M A BOYD	ARC	J B DUGAN	NCA 2-825	6548
22	DUKE UNIVERSITY	M MOORE	ARC	J B DUGAN	NGT 00-051-313	6562
22	ELIZABETH CITY ST U	J BENNETT	GSFC	L HAYDEN	NCC 5-121	6569
22	NO CAROLINA STATE U	D E ECKHARDT	LARC	M A VOUK	NAG 1-983	6800
22	CASE WESTERN RESERVE	M D BETHEA	LERC	G W ERNST	NCC 3-340	6760
22	CENTRAL ST UNIV-OHIO	J J PELOUCH	LERC	K DEZHGOSHA	NAG 3-1554	6792
22	CENTRAL ST UNIV-OHIO	G J FOLLEN	LERC	K D ZHGOSHA	NAG 3-1725	6794
22	CLEVELAND STATE UNIV	G YOLKN	LERC	J SCHOEFFLER	NAG 3-1441	6803
22	CLEVELAND STATE UNIV	D RUSSELL	HQ	S MISRA	NGT 00-070-396	6857
22	KENT STATE UNIV-KENT	F N GOLDBERG	LERC	C M BAKES	NCC 3-235	6878
22	KENT STATE UNIV-KENT	P HUNTER	HQ	J POTTER	NGT 00-051-161	6881
22	OHIO STATE UNIV	G J FOLLEN	LERC	F OZGUNER	NAG 3-1440	6902
22	OHIO STATE UNIV	J MALIN	JSC	D D WOODS	NAG 9-390	6928
22	OHIO STATE UNIV	J MALIN	JSC	D D WOODS	NAG 9-677	6929
22	UNIV OF TULSA	R W WILLS	LARC	M TIMMERMAN	NAG 1-1579	7145
22	UNIV OREGON-EUGENE	K G STEVENS	ARC	A MALONY	NGT 00-051-307	7208
22	BUCKNELL UNIVERSITY	J E DORBAND	GSFC	M F ABURDENE	NAG 5-2509	7210
22	CARNEGIE-MELLON UNIV	J M VRANISH	GSFC	F PRINZ	NAG 5-1468	7222
22	CARNEGIE-MELLON UNIV	S LAU	ARC	S F SMITH	NCC 2-707	7230
22	CARNEGIE-MELLON UNIV	P HUNTER	HQ	H T KUNG	NGT 00-050-965	7235
22	CARNEGIE-MELLON UNIV	M MOORE	ARC	S A SHAFER	NGT 00-051-026	7238
22	CARNEGIE-MELLON UNIV	P HUNTER	HQ	J M PEHA	NGT 00-051-162	7241
22	CARNEGIE-MELLON UNIV	C HIX	JPL	M ERDMANN	NGT 00-051-272	7243
22	CARNEGIE-MELLON UNIV	C HIX	JPL	W WHITTAKER	NGT 00-051-275	7244

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22	CARNEGIE-MELLON UNIV	D HOLLAND	HQ	C THORPE	NGT 00-051-292	7245
22	CARNEGIE-MELLON UNIV	D G RICKORES	JSC	D A POWERLAAN	NGT 9-1	7248
22	PENN STATE U-UNIV PK	B SRIDHAR	ARC	R KASTURI	NCC 2-853	7400
22	PENN STATE U-UNIV PK	P N SMITH	ARC	R KASTURI	NCC 2-916	7401
22	UNIV OF PITTSBURGH	R S MCGINNIS	HQ	R RYMON	NAGW 4224	7474
22	UNIV OF PITTSBURGH	E MASSEY	HQ	M B WEISS	NGT 00-051-372	7479
22	BROWN UNIVERSITY	T A LASINSKI	ARC	A DAM	NAG 2-830	7497
22	UNIV OF RHODE ISLAND	G H MUCKLOW	HQ	P CORNILLION	NAGW 3890	7557
22	CLEMSON UNIV-CLEMSON	F C OWENS	HQ	W B LIGON	NGT 00-050-419	7587
22	SO CAROLINA ST UNIV.	J BENNETT	GSFC	D K WALTER	NCC 5-116	7605
22	U. OF S.C.- COLUMBIA	J T LYNCH	HQ	J R ROSE	NGT 00-051-315	7614
22	TENNESSEE STATE UNIV	P E FRIEDLAND	ARC	G W HENRY	NCC 2-883	7659
22	TENNESSEE STATE UNIV	J BENNETT	GSFC	W SMITH	NCC 5-96	7660
22	TENNESSEE TECH U	R JUDAY	JSC	P K BAJAN	NAG 9-710	7665
22	UNIVRSITY OF MEMPHIS	D K RUSSELL	HQ	M GARZON	NGT 00-070-369	7672
22	UNIV TENNESSEE-KNOXV	G J FOLLEN	LERC	J DOWGARRA	NAG 3-1573	7679
22	VANDERBILT UNIVERSTY	S LAU	ARC	D H FISHER	NAG 2-834	7708
22	HOUSTON COMM. COLL.	R BURKE	JSC	G MORENO	NCC 9-28	7753
22	PRAIRIE VIEW A&M U	J BENNETT	GSFC	J R WILLIAMS	NCC 5-115	7779
22	RICE UNIVERSITY	J R FISCHER	GSFC	K KENNEDY	NAG 5-2736	7797
22	RICE UNIVERSITY	F C OWENS	HQ	J BENNETT	NGT 00-050-746	7828
22	TEXAS A&M UNIVERSITY	K M FUNSTON	MSFC	A B PALAZZOLO	NAG 8-1131	7883
22	TEXAS A&M UNIVERSITY	M GAUNCE	JSC	G E HITE	NAG 9-735	7896
22	TEXAS A&M UNIVERSITY	R SHULER	JSC	D R AVRESLY	NAG 9-798	7899
22	TEXAS A&M UNIVERSITY	A GOFORTH	ARC	R A VOLZ	NCC 2-791	7921
22	TEXAS A&M UNIVERSITY	F C OWENS	HQ	J YEN	NGT 00-050-738	7926
22	TEXAS A&M UNIVERSITY	F C OWENS	HQ	G YEN	NGT 00-050-837	7927
22	TEXAS A&M UNIVERSITY	G A SOFFEN	GSFC	J C LIU	NGT 5-7	7944
22	UNIV HOUSTON	C CULBERT	JSC	R B LOFTIN	NAG 9-713	7983
22	UNIV HOUSTON	L WANG	JSC	G G JOHNSON	NAG 9-736	7984
22	U TEX-PAN AM-EDNBURG	N G ROBERTSON	JSC	S E DAVIDSON	NAG 9-767	8017
22	UNIV HOUSTON-CL LAKE	D M PRUETT	JSC	T F LEIBFRIED	NAG 9-737	8043
22	UNIV HOUSTON-CL LAKE	R B MACDONALD	JSC	E T DICKERSON	NCC 9-16	8047
22	UNIV HOUSTON-CL LAKE	R T SAVELY	JSC	S L GERHART	NCC 9-30	8048
22	UNIV TEXAS-ARLINGTON	E LUCIER	HQ	A K FUNG	NGT 00-030-245	8058
22	UNIV TEXAS-ARLINGTON	E PRIOR	LARC	S M YANG	NGT 00-050-896	8060
22	UNIV TEXAS-AUSTIN	J R FISCHER	GSFC	M G PANDY	NAG 5-2217	8083
22	UNIV TEXAS-AUSTIN	J R FISHER	GSFC	R A VAN DE GEI JN	NAG 5-2497	8085
22	UNIV TEXAS-AUSTIN	J R FISHER	GSFC	B E SCHUTZ	NAG 5-2511	8086
22	UNIV TEXAS-AUSTIN	M E RORVIG	JSC	C H WARLICK	NAG 9-745	8105
22	UNIV TEXAS-AUSTIN	T PENDLETON	JSC	B KUIPERS	NAG 9-828	8111
22	UNIV TEXAS-AUSTIN	R S MCGINNIS	HQ	D FUSSELL	NAGW 4247	8146
22	UNIV TEXAS-AUSTIN	S LAU	ARC	B J KUIPERS	NCC 2-760	8159
22	UNIV TEXAS-AUSTIN	F C OWENS	HQ	R F SIMMONS	NGT 00-050-594	8169
22	UNIV TEXAS-AUSTIN	F C OWENS	HQ	R MOONEY	NGT 00-050-732	8171
22	UNIV TEXAS-AUSTIN	D HOLLAND	HQ	R MOONEY	NGT 00-051-332	8180
22	UNIV TEXAS-EL PASO	C M FALSETTI	ARC	A Q GATES	NAG 2-1012	8205
22	UNIV TEXAS-EL PASO	D LAWLER	JSC	S A STARKS	NAG 9-479	8209
22	UNIV TEXAS-EL PASO	J BENNETT	GSFC	M KOLITSKY	NCC 5-97	8217
22	UNIV OF UTAH	J R FISCHER	GSFC	V J MATHEWS	NAG 5-2200	8258
22	NORWITCH UNIVERSITY	D STILWELL	JSC	P N BARTRAM	NAG 9-312	8310
22	COLLEGE OF WM & MARY	D E ECKHARDT	LARC	K W MILLER	NAG 1-884	8326
22	COLLEGE OF WM & MARY	C ELKS	LARC	D M NICOL	NAG 1-1746	8339
22	COLLEGE OF WM & MARY	P C SCHUTTE	LARC	S FEYOCK	NCC 1-159	8345
22	COLLEGE OF WM & MARY	D K RUSSELL	HQ	S FEYOCK	NGT 00-070-306	8351
22	COLLEGE OF WM & MARY	D K RUSSELL	HQ	S PARK	NGT 00-070-381	8352
22	GEORGE MASON UNIV	W TRUSZKOWSKI	GSFC	H GOMMA	NAG 5-2247	8359
22	GEORGE MASON UNIV	J R FISCHER	GSFC	D H SCHAEFER	NAG 5-2327	8361
22	GEORGE MASON UNIV	J E DORBAND	GSFC	P WANG	NAG 5-2554	8364
22	HAMPTON UNIVERSITY	W H BRYANT	LARC	R CEZZAR	NAG 1-949	8379

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22	OLD DOMINION UNIV	D E ECKHARDT	LARC	C D WILD	NAG 1-439	8406
22	OLD DOMINION UNIV	N D MURRAY	LARC	K MALY	NAG 1-908	8410
22	OLD DOMINION UNIV	W H BRYANT	LARC	R MUKKAMALA	NAG 1-1114	8414
22	OLD DOMINION UNIV	D E ECKHARDT	LARC	C WILD	NAG 1-1426	8422
22	OLD DOMINION UNIV	M D SALAS	LARC	K MALY	NAG 1-1550	8428
22	OLD DOMINION UNIV	W H BRYANT	LARC	R MUKKAMALA	NAG 1-1690	8441
22	OLD DOMINION UNIV	W H BRYANT	LARC	D MALY	NAG 1-1745	8443
22	OLD DOMINION UNIV	W H BRYANT	LARC	D MUKKAMALA	NAG 1-1747	8444
22	OLD DOMINION UNIV	L F ROWELL	LARC	J L SCHWING	NCC 1-99	8456
22	OLD DOMINION UNIV	D K RUSSELL	HQ	J L SCHWING	NGT 00-070-382	8479
22	OLD DOMINION UNIV	C L CARPENTER	LARC	M D MEYER	NGT 1-52113	8482
22	UNIV OF VIRGINIA	D E ECKHARDT	LARC	J C KNIGHT	NAG 1-1123	8494
22	UNIV OF VIRGINIA	J J LAMBIOTTE	LARC	J M ORTEGA	NAG 1-1529	8498
22	UNIV OF VIRGINIA	K M SCHAEFFER	HQ	J C FRENCH	NAGW 4096	8540
22	UNIV OF VIRGINIA	C R ELKS	LARC	B W JOHNSON	NCC 1-173	8551
22	UNIV OF VIRGINIA	P HUNTER	HQ	A S GRIMSHAW	NGT 00-050-970	8572
22	UNIV OF VIRGINIA	G SOFFEN	GSFC	J C FRENCH	NGT 00-051-018	8573
22	UNIV OF VIRGINIA	P HUNTER	HQ	A S GRIMSHAW	NGT 00-051-163	8579
22	UNIV OF VIRGINIA	D K RUSSELL	HQ	J C FRENCH	NGT 00-070-286	8588
22	UNIV OF VIRGINIA	D RUDY	LARC	E A WEST	NGT 1-52101	8597
22	UNIV OF WASHINGTON	D E ECKHARDT	LARC	N G LEVESON	NAG 1-1495	8708
22	UNIV OF WASHINGTON	T A LASINSKI	ARC	G TURKIYYAH	NAG 2-831	8717
22	UNIV OF WASHINGTON	F C OWENS	HQ	S HANKS	NGT 00-050-822	8848
22	UNIV OF WASHINGTON	M MOORE	ARC	S HANKS	NGT 00-051-309	8855
22	WASHINGTON ST UNIV	P E FRIEDLAND	ARC	J C SCHLIMMER	NCC 2-794	8870
22	FAIRMONT STATE COLL.	L JOHNSON	MSFC	A MARGRO	NAG 8-1117	8876
22	WEST VIRGINIA UNIV	J GITELMAN	GSFC	J T JUREWICZ	NAG 5-2129	8884
22	MARQUETTE UNIVERSITY	J R FISCHER	GSFC	X FENG	NAG 5-2199	8909
22	UNIV WISC-MADISON	H L NQUYEN	LERC	R D REITZ	NAG 3-1087	8931
22	UNIV WISC-MADISON	G H MUCKLOW	HQ	D J DEWITT	NAGW 3895	9008
22	UNIV WISC-MADISON	G H MUCKLOW	HQ	M LIVNY	NAGW 3914	9010
22	UNIV WISC-MADISON	G H MUCKLOW	HQ	R RAMAKRISHNAN	NAGW 3921	9011
22	UNIV WISC-MADISON	R S MCGINNIS	HQ	D DEWITT	NAGW 4229	9019
22	UNIV WISC-MADISON	S GOLDSTEIN	JSC	H YUTTEN	NGT 00-051-177	9051
22	UNIV WISC-MADISON	P H SMITH	HQ	B P MILLER	NGT 00-051-368	9056
22	UNIV WISC-MADISON	D K RUSSELL	HQ	J W SHAVIK	NGT 00-070-377	9057
22	UNIV OF WYOMING	S LAU	ARC	J V BALLEEN	NAG 2-877	9070
22	UNIV OF WYOMING	R L JHULER	JSC	R E GANTENBEIN	NAG 9-797	9077
29	ALABAMA A&M UNIV	G H FICHTL	MSFC	E C TEMPLE	NAG 8-200	1007
29	ALABAMA A&M UNIV	R K BOGUE	DFRC	S VON LAVEN	NCC 4-14	1019
29	TUSKEGEE UNIVERSITY	B WALKER	MSFC	C J WANG	NAG 8-296	1063
29	UNIV ALA-HUNTSVILLE	W ANDERSON	MSFC	C DAVIS	NAG 8-987	1128
29	UNIV ALA-HUNTSVILLE	W ANDERSON	MSFC	A W LORBACK	NAG 8-1086	1135
29	U ARKANSAS MAIN-FAYE	J J GAREGNANI	HQ	W F LIMP	NAGW 4117	1598
29	CAL POLY ST U-S LUIS	L J SCHILLING	ARC	D BIEZAD	NAG 2-833	1739
29	SAN JOSE STATE UNIV	Y BARNIV	ARC	Y BARAM	NCC 2-703	1845
29	STANFORD UNIVERSITY	J O LARIMER	ARC	G L TYLER	NCC 2-777	1968
29	STANFORD UNIVERSITY	J D SARGLE	ARC	D L DONOHO	NCC 2-5100	1992
29	UNIV CALIF-BERKELEY	H ASHKENAS	JPL	L A ZADEU	NGT 00-050-892	2221
29	UNIV CALIF-DAVIS	E TU	ARC	J J CHATTOT	NCC 2-5086	2300
29	GEORGE WASHINGTON U	M D SALAS	LARC	R LOHNER	NAG 1-1386	3238
29	CATHOLIC UNIVERSITY	L PURVES	GSFC	C C NGUYEN	NAG 5-1415	3297
29	UNIV DIST COLUMBIA	Y B FREEMAN	HQ	W R COLEMAN	NAGW 2045	3315
29	BETHUNE-COOKMAN COL	A J DIGGS	KSC	T R NICHOLSON	NAGW 4231	3318
29	GEORGIA INST OF TECH	J A VILLARREAL	JSC	A O ESOGBUE	NAG 9-726	3644
29	GEORGIA INST OF TECH	T BENTSEN	HQ	W D HUNT	NAGW 2753	3647
29	UNIV OF GEORGIA	B F HANNAN	HQ	J GIBSON	NASW 4670	3751
29	NORTHWESTERN UNIV	C J CULBERT	JSC	J E COLGATE	NAG 9-734	3908
29	UNIV OF KENTUCKY	P W GOODE	LARC	R MEHROTRA	NAG 1-1276	4404
29	LA ST U&A&M COL-BRGE	S MOLTRA	LARC	X H SUN	NAG 1-1672	4421

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29	MORGAN STATE UNIV	K H ABBOTT	LARC	A L TEATE	NAG 1-1492	4636
29	MORGAN STATE UNIV	J BENNETT	GSFC	W LUPTON	NAG 5-2408	4638
29	MASS INST OF TECH	G J FOLLEN	LERC	R HAIMES	NCC 3-256	5236
29	MT HOLYOKE COLLEGE	B L WHITE	HQ	J MORROW	NAGW 1792	5270
29	U MINN-MNPLS-ST PAUL	C LI	JSC	T TEZDYUAR	NAG 9-449	5558
29	MISSISSIPPI STATE U	B GUYNES	MSFC	S BALLINGTON	NAG 8-1012	5624
29	MISSISSIPPI STATE U	G A WILHOLD	MSFC	B K SONI	NAS 8-38857	5628
29	UNIV MO-COLUMBIA	G ASRAR	HQ	X ZHAUNG	NAGW 4698	5674
29	MONT.TECH U OF MONT.	F SIX	MSFC	T MOON	NAG 8-1098	5751
29	DARTMOUTH COLLEGE	P HUNTER	HQ	D KOTZ	NGT 00-051-160	5838
29	STEVENS INST OF TECH	B L WHITE	HQ	T G WILLIAMS	NAGW 1877	6014
29	UNIV OF NEW MEXICO	R J HAYDUK	HQ	G MAKI	NAGW 3293	6081
29	COLUMBIA UNIVERSITY	Y FREEMAN	JPL	G LOPEZ	NAGW 2668	6182
29	SYRACUSE UNIVERSITY	G B FINELLI	LARC	A L GOEL	NAG 1-1401	6503
29	JOHNSON C SMITH UNIV	J R SCOTT	LERC	J O ADEYEYE	NAG 3-1623	6576
29	WESTERN CAROLINA U	F SIX	MSFC	F LEE	NAG 8-1099	6674
29	CLEVELAND STATE UNIV	D P MORILAK	LERC	Y A LIOU	NAG 3-1482	6804
29	CLEVELAND STATE UNIV	G F FOLLEN	LERC	H LEWANDOSKI	NAG 3-1560	6807
29	CLEVELAND STATE UNIV	D P MORILAK	LERC	Y A LIOU	NAG 3-1593	6808
29	CLEVELAND STATE UNIV	G MACKSON	LERC	C LIN	NAG 3-1601	6809
29	CLEVELAND STATE UNIV	G J FOLLEN	LERC	H LEWANDOWSKI	NCC 3-400	6852
29	CARNEGIE-MELLON UNIV	P W GOODE	LARC	P K KHOSLA	NAG 1-1075	7213
29	PENN STATE U-UNIV PK	R L HARRIS	LARC	R KASTURI	NAG 1-1371	7281
29	FURMAN UNIVERSITY	F SIX	MSFC	K C ABERNETHY	NAG 8-1101	7602
29	LAMAR UNIVERSITY	N H CHAFFEE	JSC	V D NGUYEN	NAG 9-695	7760
29	TEXAS TECH UNIV	T CLEGHORN	JSC	S MITRA	NAG 9-844	7968
29	UNIV HOUSTON	J A VILLARREAL	JSC	J B WILLIS	NAG 9-562	7975
29	UNIV HOUSTON	C M HOSKINS	JSC	R A ALO	NAG 9-657	7978
29	UNIV HOUSTON-CL LAKE	M S MARGOLIS	HQ	G SAWYER	NGT 00-090-031	8049
29	UNIV TEXAS-EL PASO	D R GLOVER	LERC	S D CABRERA	NAG 3-1380	8206
29	UNIV TEXAS-S ANTONIO	J D ATKINSON	JSC	W ALTER	NAG 9-554	8232
29	UNIV TEXAS-S ANTONIO	J A ATKINSON	JSC	R DIEM	NAG 9-773	8233
29	COLLEGE OF WM & MARY	D L PALUMBO	LARC	D M NICOL	NAG 1-1132	8329
29	GEORGE MASON UNIV	A J TUYAHOV	HQ	M KUFATOS	NGT 00-030-330	8373
29	NORFOLK STATE UNIV	J J LAMBIOTTE	LARC	S N SHAH	NAG 1-1536	8399
29	OLD DOMINION UNIV	K J HAYHURST	LARC	L WILSON	NAG 1-750	8408
29	OLD DOMINION UNIV	P W GOODE	LARC	R MIELKE	NAG 1-1223	8417
29	OLD DOMINION UNIV	J M LUCKRING	LARC	O BAYAAL	NAG 1-1499	8425
29	OLD DOMINION UNIV	N D MELSON	LARC	D E KEYES	NAG 1-1692	8442
29	OLD DOMINION UNIV	J R SCOTT	LARC	A O DEMUREN	NAG 3-1329	8446
29	UNIV OF VIRGINIA	A L OVERMAN	LARC	J M ORTEGA	NAG 1-1112	8493
29	UNIV OF VIRGINIA	J L WALSH	LARC	J M ORTEGA	NAG 1-1710	8502
29	UNIV OF VIRGINIA	F C OWENS	HQ	J M ORTEGA	NGT 00-070-229	8586
29	UNIV OF WYOMING	S H GOLDSTEIN	JSC	R E GANTENBEIN	NAG 9-722	9076
31	ALABAMA A&M UNIV	G FICHTL	MSFC	LIAU	NAG 8-201	1008
31	UNIV ALA-HUNTSVILLE	S A FIELDS	MSFC	C E KEFFER	NAG 8-834	1120
31	UNIV ALA-HUNTSVILLE	J A KAYE	HQ	M NEWCHURCH	NAGW 4681	1163
31	UNIV ALA-HUNTSVILLE	M E MAIDEN	HQ	J R CHRISTY	NAGW 4749	1164
31	UNIV ALA-HUNTSVILLE	J LAUE	MSFC	N STON	NAS 8-37107	1166
31	UNIV ALA-HUNTSVILLE	F LESLIE	MSFC	S R CHRISTY	NAS 8-38789	1172
31	UNIV ALA-HUNTSVILLE	L R GREENWOOD	MSFC	D J PERKEY	NCC 8-22	1177
31	UNIV ALA-TUSCALOOSA	J T BERGSTRALH	HQ	R H TIPPING	NAGW 3785	1223
31	UNIV ALASKA-FAIRBNKS	B J FLOWERS	GSFC	S A KASOFU	NAG 5-699	1241
31	UNIV ALASKA-FAIRBNKS	R D MCPETERS	HQ	K STAMNES	NAGW 2165	1249
31	UNIV ALASKA-FAIRBNKS	J T SUTTERS	HQ	G E SHAW	NAGW 3728	1262
31	UNIV ALASKA-FAIRBNKS	W A BRENCE	GSFC	C DEEHR	NAS 5-31637	1267
31	UNIV ALASKA-FAIRBNKS	M J FILLIS	GSFC	S SCHWATAL	NAS 5-32206	1268
31	UNIV OF ARIZONA	L E LASHER	ARC	M G TOMASKO	NAG 2-906	1372
31	UNIV OF ARIZONA	R D MCPETERS	GSFC	B M HERMAN	NAG 5-1496	1387
31	UNIV OF ARIZONA	W LAU	GSFC	R E DICKINSON	NAG 5-1642	1389

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31	UNIV OF ARIZONA	M D KING	GSFC	B H HERMAN	NAG 5-2384	1399
31	UNIV OF ARIZONA	J H OWENS	MSFC	A L BROADFOOT	NAG 8-1079	1422
31	UNIV OF ARIZONA	R D MCPETERS	HQ	L L HOOD	NAGW 909	1429
31	UNIV OF ARIZONA	J T BERGSTRALH	HQ	J I LUNINE	NAGW 1039	1431
31	UNIV OF ARIZONA	M BALTUCK	HQ	C CHASE	NAGW 3166	1482
31	UNIV OF ARIZONA	J T BERGSTRAHL	HQ	S W BOUGHER	NAGW 3432	1492
31	UNIV OF ARIZONA	W JAFFERIS	KSC	E P KRIDER	NAG10-92	1525
31	UNIV OF ARIZONA	G L MADDREA JR	LARC	B M HERMAN	NAS 1-18939	1527
31	UNIV OF ARIZONA	G L MADDREA	LARC	J A REAGAN	NAS 1-19953	1528
31	UNIV OF ARIZONA	J R RICHARDS	GSFC	D HUNTEN	NAS 5-30124	1530
31	UNIV OF ARIZONA	H OSEROFF	GSFC	A HUETE	NAS 5-31364	1532
31	UNIV OF ARIZONA	L STUART	GSFC	P N SLATER	NAS 5-31717	1533
31	UNIV OF ARIZONA	J D SPINHIRNE	GSFC	J A REAGAN	NCC 5-77	1540
31	UNIV OF ARIZONA	R A SCHIFFER	HQ	B M HERMAN	NGT 00-030-325	1552
31	UNIV OF ARIZONA	F C OWENS	HQ	H P LARSON	NGT 00-050-782	1559
31	UNIV OF ARIZONA	A NOVOTNY	HQ	P N SLATER	NGT 00-051-219	1571
31	CALIF INST OF TECH	G BULLOCK	GSFC	E C STONE	NAG 5-727	1607
31	CALIF INST OF TECH	C H JACKMAN	GSFC	H ZIRIN	NAG 5-2782	1632
31	CALIF INST OF TECH	C H JACKMAN	HQ	Y L YUNG	NAGW 413	1641
31	CALIF INST OF TECH	M J KURYLO	HQ	M OKUMARA	NAGW 3893	1687
31	CALIF INST OF TECH	J A KAYE	HQ	M E LIDSTROM	NAGW 4779	1705
31	CALIF INST OF TECH	R A SCHIFFER	HQ	Y L YUNG	NGT 00-030-329	1714
31	SAN FRAN STATE UNIV	S HIPSKIND	ARC	O GARCIA	NCA 2-764	1812
31	SAN FRAN STATE UNIV	R S HIPSKIND	ARC	K L PAGAN	NCC 2-901	1815
31	SAN JOSE STATE UNIV	J A KAYE	HQ	P HAMILL	NAGW 3525	1825
31	SAN JOSE STATE UNIV	J B POLLACK	ARC	A F BRIDGER	NCA 2-817	1833
31	SAN JOSE STATE UNIV	J VALENTIN	ARC	J BECKER	NCA 2-834	1834
31	SAN JOSE STATE UNIV	R L CHAN	ARC	J GOODMAN	NCC 2-168	1836
31	SAN JOSE STATE UNIV	K R CHAN	ARC	J GOODMAN	NCC 2-211	1837
31	SAN JOSE STATE UNIV	R E BACH	ARC	P F LESTER	NCC 2-315	1838
31	SAN JOSE STATE UNIV	L E LASHER	ARC	P LESTER	NCC 2-471	1842
31	SAN JOSE STATE UNIV	O B TOON	ARC	P HAMILL	NCC 2-665	1843
31	SAN JOSE STATE UNIV	R B CHATFIELD	ARC	P HAMILL	NCC 2-756	1847
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A BRIDGER	NCC 2-5076	1856
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A BRIDGER	NCC 2-5077	1857
31	SAN JOSE STATE UNIV	R HABERLE	ARC	A BRIDGER	NCC 2-5078	1858
31	SAN JOSE STATE UNIV	R E YOUNG	ARC	A BRIDGER	NCC 2-5092	1859
31	SAN JOSE STATE UNIV	R E WONG	ARC	A BRIDGER	NCC 2-5093	1860
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A BRIDGER	NCC 2-5094	1861
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A BRIDGER	NCC 2-5111	1862
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A BRIDGER	NCC 2-5130	1866
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A BRIDGER	NCC 2-5148	1870
31	STANFORD UNIVERSITY	J BERGSTRAHL	HQ	G L TYLER	NAGW 3443	1935
31	STANFORD UNIVERSITY	J BERGSTRALH	HQ	G L TYLER	NAGW 4341	1941
31	STANFORD UNIVERSITY	P SELLERS	GSFC	H MOONEY	NAS 5-31726	1951
31	STANFORD UNIVERSITY	R CHATFIELD	ARC	L HILDEMAN	NCC 2-5023	1978
31	UNIV CALIF-BERKELEY	G LEVY	HQ	P RICHARDS	NAGW 2121	2116
31	UNIV CALIF-BERKELEY	J BOYCE	HQ	J LUHMANN	NAGW 4423	2161
31	UNIV CALIF-BERKELEY	L CHRISTENSEN	GSFC	F MOZER	NAS 5-30801	2176
31	UNIV CALIF-BERKELEY	D E WICKLAND	HQ	J HARTE	NGT 00-030-212	2209
31	UNIV CALIF-DAVIS	T L MILLER	MSFC	T R NATHAN	NAG 8-871	2263
31	UNIV CALIF-DAVIS	J KAUFMAN	MSFC	T R NATHAN	NAG 8-1054	2264
31	UNIV CALIF-DAVIS	T L MILLER	MSFC	T R NATHAN	NAG 8-1143	2265
31	UNIV CALIF-DAVIS	J T BERGSTRALH	HQ	W M JACKSON	NAGW 903	2267
31	UNIV CALIF-DAVIS	P SELLERS	GSFC	S USTIN	NAS 5-31359	2273
31	UNIV CALIF-DAVIS	G ASRAR	HQ	E C CORDERO	NGT 00-030-153	2307
31	UNIV CALIF-DAVIS	G ASRAR	HQ	B C WEARE	NGT 00-030-200	2309
31	UNIV CALIF-IRVINE	W L GROSE	LARC	M J PRATHER	NAG 1-1515	2315
31	UNIV CALIF-IRVINE	J W DREWRY	LARC	F S ROWLAND	NAG 1-1533	2316
31	UNIV CALIF-IRVINE	J W DREWRY	LARC	F S ROWLAND	NAG 1-1644	2318

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31	UNIV CALIF-IRVINE	E P CONDON	ARC	D W TOOHEY	NAG 2-970	2322
31	UNIV CALIF-IRVINE	E P CONDON	ARC	D W TOOHEY	NAG 2-976	2323
31	UNIV CALIF-IRVINE	R W STEWART	GSFC	M J PRATHER	NAG 5-2724	2332
31	UNIV CALIF-IRVINE	C H JACKMAN	GSFC	D W TOOHEY	NAG 5-2780	2333
31	UNIV CALIF-IRVINE	R W STEWART	GSFC	M J PRATHER	NAG 5-2917	2334
31	UNIV CALIF-IRVINE	M J KURYLO	HQ	D R BLAKE	NAGW 452	2337
31	UNIV CALIF-IRVINE	J A KAYE	HQ	M J PRATHER	NAGW 3163	2343
31	UNIV CALIF-IRVINE	G ASRAR	HQ	D W TOOHEY	NGT 00-030-161	2351
31	UNIV CALIF-IRVINE	G ASRAR	HQ	R J CICERONE	NGT 00-030-163	2352
31	UNIV CALIF-L ANGELES	L R POOLE	LERC	B V SANKAR	NAG 1-1126	2361
31	UNIV CALIF-L ANGELES	J PFAENDTNER	GSFC	M GHIL	NAG 5-713	2377
31	UNIV CALIF-L ANGELES	M SUAREZ	GSFC	A ARAKAWA	NAG 5-789	2378
31	UNIV CALIF-L ANGELES	J R FISCHER	GSFC	C R MECHOSO	NAG 5-2224	2393
31	UNIV CALIF-L ANGELES	M SUAREZ	GSFC	A ARAKAWA	NAG 5-2591	2396
31	UNIV CALIF-L ANGELES	R W STEWART	GSFC	R P TURCO	NAG 5-2723	2398
31	UNIV CALIF-L ANGELES	C H JACKMAN	GSFC	R K ULRICH	NAG 5-2749	2399
31	UNIV CALIF-L ANGELES	J T BERGSTRALH	HQ	R M THORNE	NAGW 87	2405
31	UNIV CALIF-L ANGELES	R D MCPETERS	HQ	C R MECHOSO	NAGW 1021	2407
31	UNIV CALIF-L ANGELES	J T BERGSTRALH	HQ	J G LUHMAN	NAGW 3426	2438
31	UNIV CALIF-L ANGELES	J T BERGSTRALH	HQ	C T RUSSELL	NAGW 3492	2443
31	UNIV CALIF-L ANGELES	J T BERGSTRALH	HQ	R J STRANGEWAY	NAGW 3497	2444
31	UNIV CALIF-L ANGELES	J T BERGSTRALH	HQ	K K KHURANA	NAGW 3661	2448
31	UNIV CALIF-L ANGELES	J A KAYE	HQ	R TURCO	NAGW 3671	2449
31	UNIV CALIF-L ANGELES	M KICZA	HQ	D PAIGE	NAGW 3857	2452
31	UNIV CALIF-L ANGELES	J BERGSTRALH	HQ	J LUHMANN	NAGW 4063	2458
31	UNIV CALIF-L ANGELES	M MEYER	HQ	D A PAIGE	NAGW 4115	2460
31	UNIV CALIF-L ANGELES	G L MADDREA	LARC	R P TURCO	NAS 1-19956	2473
31	UNIV CALIF-L ANGELES	D M BUTLER	HQ	A TABAZADEH	NGT 00-030-079	2485
31	UNIV CALIF-L ANGELES	R A SCHIFFER	HQ	R P TURCO	NGT 00-030-238	2487
31	UNIV CALIF-L ANGELES	R A SCHIFFER	HQ	R P TURCO	NGT 00-030-334	2488
31	UNIV CALIF-SAN DIEGO	P PILEWSKIE	ARC	F P VALERO	NAG 2-934	2520
31	UNIV CALIF-SAN DIEGO	M SUAREZ	GSFC	R C SOMERVILLE	NAG 5-236	2526
31	UNIV CALIF-SAN DIEGO	G S LAGERLOEF	HQ	T P BARNETT	NAGW 1952	2564
31	UNIV CALIF-SAN DIEGO	M J KURYLO	HQ	R F WEISS	NAGW 2034	2567
31	UNIV CALIF-SAN DIEGO	A C JANETOS	HQ	M WAHLEN	NAGW 2542	2571
31	UNIV CALIF-SAN DIEGO	A KAYE	HQ	D LUBIN	NAGW 3896	2591
31	UNIV CALIF-SAN DIEGO	J BERGSTRALH	HQ	K MARTI	NAGW 4238	2596
31	UNIV CALIF-SAN DIEGO	J BERSTARALH	HQ	A MENDIS	NAGW 4264	2597
31	UNIV CALIF-SAN DIEGO	B TOON	ARC	V RAMANTHAN	NCA 2-791	2614
31	UNIV CALIF-SAN DIEGO	D L WESTPHAL	ARC	P J FLATAU	NCC 2-820	2617
31	UNIV CALIF-S BARBARA	J C DODGE	HQ	C GAUTIER	NAGW 2460	2660
31	UNIV CALIF-S BARBARA	J C DODGE	HQ	C GAUTIER	NAGW 3180	2665
31	UNIV CALIF-S BARBARA	T BRAKE	GSFC	J M MELACK	NAS 5-31713	2675
31	UNIV CALIF-S BARBARA	G ASRAR	HQ	J A HICKE	NGT 00-030-138	2678
31	UNIV OF SOUTHERN CAL	K FOX	HQ	D L JUDGE	NAGW 163	2746
31	UNIV OF SOUTHERN CAL	W J WAGNER	HQ	D L JUDGE	NAGW 3063	2751
31	UNIV OF SOUTHERN CAL	J BERGSTRALH	HQ	D SHEMANSKY	NAGW 3905	2759
31	COLORADO STATE UNIV	T OWENS	LARC	D A RANDALL	NAG 1-1137	2783
31	COLORADO STATE UNIV	T OWENS	LARC	S K COX	NAG 1-1146	2784
31	COLORADO STATE UNIV	B A WIELICKI	LARC	D A RANDALL	NAG 1-1266	2785
31	COLORADO STATE UNIV	D S MCDUGAL	LARC	D A RANDALL	NAG 1-1701	2787
31	COLORADO STATE UNIV	D S MCDUGAL	LARC	G L STEPHENS	NAG 1-1702	2788
31	COLORADO STATE UNIV	D S MCDUGAL	LARC	W R COTTON	NAG 1-1703	2789
31	COLORADO STATE UNIV	D S MCDUGAL	LARC	S K COX	NAG 1-1704	2790
31	COLORADO STATE UNIV	E P CONDON	ARC	S M KREIDENWEISS	NAG 2-924	2791
31	COLORADO STATE UNIV	W WISCOMBE	GSFC	D RANDALL	NAG 5-1058	2796
31	COLORADO STATE UNIV	R ADLER	GSFC	G L STEPHENS	NAG 5-1592	2797
31	COLORADO STATE UNIV	D STARR	GSFC	D RANDALL	NAG 5-1653	2798
31	COLORADO STATE UNIV	O THIELE	GSFC	S A RUTLEDGE	NAG 5-2692	2801
31	COLORADO STATE UNIV	R E HOOD	MSFC	V N BRINGI	NAG 8-890	2802

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31	COLORADO STATE UNIV	F R ROBERTSON	MSFC	G L STEPHENS	NAG 8-981	2803
31	COLORADO STATE UNIV	J C DODGE	HQ	T H HAAR	NAGW 2700	2808
31	COLORADO STATE UNIV	J C DODGE	HQ	G C CAMPBELL	NAGW 4122	2810
31	COLORADO STATE UNIV	G L MADDREA	LARC	D RANDALL	NAS 1-19951	2812
31	COLORADO STATE UNIV	P SELLERS	GSFC	D RANDALL	NAS 5-31730	2814
31	COLORADO STATE UNIV	D M BUTLER	HQ	T J GREENWALD	NGT 00-030-046	2818
31	COLORADO STATE UNIV	D M BUTLER	HQ	C W LANDSEA	NGT 00-030-064	2819
31	COLORADO STATE UNIV	G ASRAR	HQ	J A KNAFF	NGT 00-030-147	2823
31	UNIV COLORADO-BOLDR	T OWENS	LARC	J LONDON	NAG 1-998	2837
31	UNIV COLORADO-BOLDR	W L GROSE	LARC	M L SALBY	NAG 1-1355	2840
31	UNIV COLORADO-BOLDR	J G WELLS	LARC	D C FRITTS	NAG 1-1440	2843
31	UNIV COLORADO-BOLDR	D S MCDUGAL	LARC	J CURRY	NAG 1-1708	2852
31	UNIV COLORADO-BOLDR	E CONDON	ARC	M A TOLBERT	NAG 2-760	2855
31	UNIV COLORADO-BOLDR	E CONDON	ARC	P J SHERIDAN	NAG 2-761	2856
31	UNIV COLORADO-BOLDR	E P CONDON	ARC	P J SHERIDAN	NAG 2-953	2861
31	UNIV COLORADO-BOLDR	B CAMPBELL	GSFC	D C FRITTS	NAG 5-2550	2906
31	UNIV COLORADO-BOLDR	B CAMPBELL	GSFC	J M FORBES	NAG 5-2551	2907
31	UNIV COLORADO-BOLDR	J R HERMAN	GSFC	D RUSCH	NAG 5-2579	2910
31	UNIV COLORADO-BOLDR	W CHAO	GSFC	P J WEBSTER	NAG 5-2671	2920
31	UNIV COLORADO-BOLDR	J A SLAVIN	GSFC	D N BAKER	NAG 5-2681	2921
31	UNIV COLORADO-BOLDR	C H JACKMAN	GSFC	T J FULLER-ROWELL	NAG 5-2753	2923
31	UNIV COLORADO-BOLDR	C H JACKMAN	GSFC	D C FRITTS	NAG 5-2786	2924
31	UNIV COLORADO-BOLDR	H J CHRISTIAN	MSFC	G R SCHARFEN	NAG 8-882	2943
31	UNIV COLORADO-BOLDR	J OWEN	MSFC	G C CLAYTON	NAG 8-1048	2945
31	UNIV COLORADO-BOLDR	S J GOODMAN	MSFC	G S SCHARFEN	NAG 8-1093	2949
31	UNIV COLORADO-BOLDR	J C DODGE	HQ	M L SALBY	NAGW 3047	2994
31	UNIV COLORADO-BOLDR	J T BERGSTRALH	HQ	D H GRINSPOON	NAGW 3482	3001
31	UNIV COLORADO-BOLDR	J A KAYE	HQ	M L SALBY	NAGW 3485	3002
31	UNIV COLORADO-BOLDR	J C DODGE	HQ	W EMERY	NAGW 3919	3015
31	UNIV COLORADO-BOLDR	J BERGSTRALH	HQ	B JAKOSKY	NAGW 3995	3017
31	UNIV COLORADO-BOLDR	J C DODGE	HQ	J A CURRY	NAGW 3997	3018
31	UNIV COLORADO-BOLDR	J C DODGE	HQ	S AVERY	NAGW 4146	3022
31	UNIV COLORADO-BOLDR	P G ROGERS	HQ	L ESPOSITO	NAGW 4373	3027
31	UNIV COLORADO-BOLDR	C REBER	GSFC	J LONDON	NAS 5-27263	3047
31	UNIV COLORADO-BOLDR	H BLODGET	GSFC	A GOETZ	NAS 5-31711	3048
31	UNIV COLORADO-BOLDR	T BRAKE	GSFC	C WESSMAN	NAS 5-31715	3049
31	UNIV COLORADO-BOLDR	B CAMPBELL	GSFC	D W RUSCH	NAS 5-32568	3052
31	UNIV COLORADO-BOLDR	J M ZAWODNY	LARC	D W RUSCH	NCC 1-143	3057
31	UNIV COLORADO-BOLDR	D M BUTLER	HQ	L CHEN	NGT 00-030-060	3067
31	UNIV COLORADO-BOLDR	G ASRAR	HQ	T P HARTSELL	NGT 00-030-102	3069
31	UNIV COLORADO-BOLDR	G ASRAR	HQ	M SALBY	NGT 00-030-187	3075
31	UNIV COLORADO-BOLDR	G ASRAR	HQ	D J HOFMANN	NGT 00-030-205	3076
31	UNIV COLORADO-BOLDR	G ASRAR	HQ	A R RAVISHANKARA	NGT 00-030-206	3077
31	UNIV COLORADO-BOLDR	R A SCHIFFER	HQ	V VAIDA	NGT 00-030-265	3081
31	UNIV COLORADO-BOLDR	R A SCHIFFER	HQ	M A TOLBERT	NGT 00-030-353	3086
31	UNIV COLORADO-BOLDR	J ALEXANDER	HQ	J T STOCKE	NGT 00-050-909	3096
31	UNIV COLORADO-BOLDR	A NOVOTNY	HQ	M A TOLBERT	NGT 00-051-224	3113
31	UNIV OF DENVER	J G WELLS	LARC	D G MURCRAY	NAG 1-1336	3139
31	UNIV OF DENVER	E P CONDON	ARC	D G MURCRAY	NAG 2-351	3140
31	UNIV OF DENVER	C P RINSLAND	LARC	A GOLDMAN	NCC 1-48	3147
31	UNIV OF DENVER	E CONDON	ARC	J C WILSON	NCC 2-782	3148
31	UNIV OF DENVER	S S WEGENER	ARC	J C WILSON	NCC 2-894	3149
31	YALE UNIVERSITY	E J MAIER	GSFC	S SOFIA	NAG 5-736	3177
31	YALE UNIVERSITY	O W THIELE	GSFC	B SALTZMAN	NAG 5-2316	3180
31	UNIV OF DELAWARE	J S THEON	HQ	J WU	NAGW 2981	3218
31	HOWARD UNIVERSITY	S R BREON	GSFC	A N THORPE	NAG 5-1017	3274
31	HOWARD UNIVERSITY	J T BERGSTRALH	HQ	H OKABE	NAGW 785	3279
31	UNIV DIST COLUMBIA	H L KYLE	GSFC	H L DHURIA	NAG 5-2345	3313
31	EMBRY-RIDDLE AERO U	D SIX	GSFC	C D STODDEN	NAG 8-1195	3324
31	EMBRY-RIDDLE AERO U	F SIX	MSFC	L ERICKSON	NCC 8-26	3328

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31	FLORIDA A&M UNIV	O B TOON	ARC	J A JOHNSON III, (DR	NAG 2-921	3342
31	FLORIDA ATLANTIC U	J J MARGITAN	HQ	C R BURNETT	NAGW 989	3364
31	FLORIDA INST OF TECH	O J THIELE	GSFC	W L JONES	NAS 5-32364	3377
31	FLORIDA STATE UNIV	J FISHMAN	LARC	T N KRISHNAMURTI	NAG 1-1312	3383
31	FLORIDA STATE UNIV	M HELFAND	GSFC	R L PFEFFER	NAG 5-815	3389
31	FLORIDA STATE UNIV	D SHORT	GSFC	S E NICHOLSON	NAG 5-1587	3390
31	FLORIDA STATE UNIV	W LAU	GSFC	T N KRISHNAMURTI	NAG 5-1595	3391
31	FLORIDA STATE UNIV	A NEGRI	GSFC	E A SMITH	NAG 5-1602	3392
31	FLORIDA STATE UNIV	J R BATES	GSFC	I M NAVON	NAG 5-1660	3393
31	FLORIDA STATE UNIV	G M HEYMSFIELD	GSFC	P S RAY	NAG 5-1869	3394
31	FLORIDA STATE UNIV	W K LAU	GSFC	H WENG	NAG 5-2468	3397
31	FLORIDA STATE UNIV	A NEGRI	GSFC	E SMITH	NAG 5-2672	3398
31	FLORIDA STATE UNIV	A GUILLORY	MSFC	H E FUELBERG	NAG 8-911	3401
31	FLORIDA STATE UNIV	D FITZJARRALD	MSFC	T N KRISHNAMURTI	NAG 8-914	3402
31	FLORIDA STATE UNIV	S J GOODMAN	MSFC	E A SMITH	NAG 8-916	3403
31	FLORIDA STATE UNIV	D ADAMEC	HQ	W K DEWAR	NAGW 3087	3406
31	FLORIDA STATE UNIV	R E MURPHY	HQ	S E NICHOLSON	NAGW 3101	3407
31	FLORIDA STATE UNIV	R E MURPHY	HQ	E A SMITH	NAGW 3109	3408
31	FLORIDA STATE UNIV	J C DODGE	HQ	E A SMITH	NAGW 3970	3412
31	FLORIDA STATE UNIV	G ASRAR	HQ	H E FUELBERG	NGT 00-030-214	3416
31	FLORIDA STATE UNIV	B MILLER	KSC	H E FUELBERG	NGT 00-050-983	3417
31	FLORIDA STATE UNIV	G SOFFEN	GSFC	S NICHOLSON	NGT 00-070-273	3419
31	UNIV OF FLORIDA	L E LASHER	ARC	M A UMAN	NAG 2-667	3459
31	UNIV OF MIAMI	J W DREWRY	LARC	J M PROSPERO	NAG 1-1229	3522
31	UNIV OF MIAMI	H OSEROFF	GSFC	R EVANS	NAS 5-31362	3541
31	UNIV OF MIAMI	H OSEROFF	GSFC	H GORDON	NAS 5-31363	3542
31	UNIV OF MIAMI	C MCLAIN	GSFC	H GORDAN	NAS 5-31734	3543
31	UNIV OF SO FLORIDA	N P BARNES	LARC	D K KILLINGER	NAG 1-1104	3549
31	UNIV OF SO FLORIDA	H OSEROFF	GSFC	K R CARDER	NAS 5-31716	3562
31	GEORGIA INST OF TECH	E V BROWELL	LARC	J D BRADSHAW	NAG 1-1213	3592
31	GEORGIA INST OF TECH	E V BROWELL	LARC	J BRADSHAW	NAG 1-1415	3596
31	GEORGIA INST OF TECH	J FISHMAN	LARC	D D DAVIS	NAG 1-1438	3598
31	GEORGIA INST OF TECH	W L GROSE	LARC	S MENON	NAG 1-1631	3604
31	GEORGIA INST OF TECH	J M HOELL JR.	LARC	D L EISELE	NAG 1-1766	3607
31	GEORGIA INST OF TECH	J M HOELL JR.	LARC	D D BRADSHAW	NAG 1-1767	3608
31	GEORGIA INST OF TECH	J M HOELL JR.	LARC	M O RODGERS	NAG 1-1768	3609
31	GEORGIA INST OF TECH	J M HOELL JR.	LARC	D D DAVIS	NAG 1-1769	3610
31	GEORGIA INST OF TECH	E P CONDON	ARC	J D BRADSHAW	NAG 2-954	3616
31	GEORGIA INST OF TECH	R F ADLER	GSFC	A J GASIEWSKI	NAG 5-1490	3631
31	GEORGIA INST OF TECH	C H JACKMAN	GSFC	D E HARTLEY	NAG 5-2789	3635
31	GEORGIA INST OF TECH	S SCHUBERT	GSFC	R X BLACK	NAG 5-2919	3636
31	GEORGIA INST OF TECH	J T BERGSTALH	HQ	P G STEFFES	NAGW 533	3645
31	GEORGIA INST OF TECH	M J KURYLO	HQ	P H WINE	NAGW 1001	3646
31	GEORGIA INST OF TECH	J A KAYE	HQ	F L EISELE	NAGW 3767	3650
31	GEORGIA INST OF TECH	J A KAYE	HQ	P KASIBHATLA	NAGW 3770	3651
31	GEORGIA INST OF TECH	J A KAYE	HQ	D E HARTLEY	NAGW 4246	3655
31	GEORGIA INST OF TECH	G ASRAR	HQ	F EISELE	NAGW 4692	3658
31	GEORGIA INST OF TECH	G ASRAR	HQ	J BRADSHAW	NAGW 4699	3659
31	GEORGIA INST OF TECH	G L MADDREA	LARC	D M CUNNOLD	NAS 1-18938	3661
31	GEORGIA INST OF TECH	G L MADDREA	LARC	D M CUNNOLD	NAS 1-19954	3663
31	GEORGIA INST OF TECH	C REBER	GSFC	D CUNNOLD	NAS 5-27264	3666
31	GEORGIA INST OF TECH	J M HOELL	LARC	D D DAVIS	NCC 1-148	3669
31	GEORGIA INST OF TECH	R A SCHIFFER	HQ	P H WINE	NGT 00-030-345	3676
31	UNIV OF HAWAII-MANOA	J M HOELL JR.	LARC	D J WYLIE	NAG 1-1763	3756
31	UNIV OF HAWAII-MANOA	L S WALTER	GSFC	S SELF	NAG 5-1839	3763
31	UNIV OF HAWAII-MANOA	M BALTUCK	HQ	S SELF	NAGW 3721	3821
31	UNIV OF HAWAII-MANOA	J T SUTTLES	HQ	A CLARKE	NAGW 3766	3822
31	UNIV OF HAWAII-MANOA	J C DODGE	HQ	T N NELSON	NAGW 3918	3828
31	UNIV OF HAWAII-MANOA	J R RICHARDS	GSFC	T B OWEN	NAS 5-30951	3838
31	UNIV OF HAWAII SYSTM	J M HOELL JR.	LARC	D D CLARKE	NAG 1-1764	3853

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31	UNIV OF IDAHO	L E LASHER	ARC	D G ATKINSON	NAG 2-961	3862
31	UNIV OF IDAHO	J B POLLACK	ARC	D H AIKINSON	NCC 2-848	3865
31	CHICAGO STATE UNIV	G ASRAR	HQ	B J SODEN	NGT 00-030-011	3871
31	UNIV OF CHICAGO	A L KRUEGER	GSFC	J E FREDERICK	NAG 5-1986	3945
31	UNIV OF CHICAGO	C H JACKMAN	GSFC	N NAKAMURA	NAG 5-2792	3956
31	UNIV OF CHICAGO	R D MCPETERS	GSFC	G C TIAO	NAG 5-2849	3957
31	UNIV OF CHICAGO	A J NEGRI	GSFC	T T FUJITA	NAG 5-3041	3962
31	UNIV OF CHICAGO	S J GOODMAN	MSFC	T J FUJITA	NAG 8-886	3964
31	UNIV OF CHICAGO	S J GOODMAN	MSFC	T T FAJITA	NAG 8-1070	3965
31	UNIV OF CHICAGO	H C BRINTON	HQ	A J TUZZOLINO	NAGW 3078	3988
31	UNIV OF CHICAGO	J A KAYE	HQ	G C TIAO	NAGW 3114	3989
31	UNIV OF CHICAGO	J BOYCE	HQ	E OLSEN	NAGW 3569	3997
31	UNIV OF CHICAGO	J A KAYE	HQ	N NAHAMURA	NAGW 4281	4001
31	UNIV OF CHICAGO	E M SULLIVAN	LARC	J E FREDERICK	NAS 1-18239	4009
31	UNIV ILLINOIS-URBANA	J G WELLS	LARC	C S GARDNER	NAG 1-1344	4044
31	UNIV ILLINOIS-URBANA	L R POOLE	LARC	G C PAPAN	NAG 1-1639	4048
31	UNIV ILLINOIS-URBANA	D L MAIDEN	LARC	D J WUEBBLES	NAG 1-1659	4049
31	UNIV ILLINOIS-URBANA	D L MAIDEN	LARC	D J WUEBBLES	NAG 1-1741	4050
31	UNIV ILLINOIS-URBANA	C H JACKMAN	GSFC	X TAO	NAG 5-2746	4082
31	UNIV ILLINOIS-URBANA	R D MCPETERS	HQ	W A ROBINSON	NAGW 1729	4089
31	UNIV ILLINOIS-URBANA	J A KAYE	HQ	D J WUEBBLES	NAGW 4387	4095
31	UNIV ILLINOIS-URBANA	G L MADDREA	LARC	C S GARDNER	NAS 1-19950	4098
31	UNIV ILLINOIS-URBANA	G L MADDREA	LARC	N SONG	NAS 1-19957	4099
31	INDIANA ST UNIV	B DAVIS	SSC	D MAUSEL	NAG13-34	4130
31	PURDUE UNIVERSITY	J W KAUFMAN	MSFC	P J SMITH	NAG 8-915	4185
31	PURDUE UNIVERSITY	W M LAPENTA	MSFC	G W PETTY	NAG 8-918	4186
31	PURDUE UNIVERSITY	J W KAUFMAN	MSFC	D G VINCENT	NAG 8-1031	4187
31	PURDUE UNIVERSITY	J C DODGE	HQ	G W PETTY	NAGW 2984	4190
31	PURDUE UNIVERSITY	J C DODGE	HQ	HARSHVARDHAN	NAGW 3150	4192
31	PURDUE UNIVERSITY	J C DODGE	HQ	G W PETTY	NAGW 3944	4198
31	PURDUE UNIVERSITY	H W BLODGET	GSFC	D A LANDGREBE	NAS 5-31712	4203
31	PURDUE UNIVERSITY	G LESANE	HQ	G W PETTY	NGT 00-051-077	4217
31	IOWA STATE UNIV	J W PFAENDTNER	GSFC	T C CHEN	NAG 5-355	4265
31	IOWA STATE UNIV	A J KRUEGER	GSFC	J L STANFORD	NAG 5-1519	4267
31	IOWA STATE UNIV	C H JACKMAN	GSFC	J L STANFORD	NAG 5-2787	4272
31	IOWA STATE UNIV	J A KAYE	HQ	J L STANFORD	NAGW 2582	4277
31	IOWA STATE UNIV	J C DODGE	HQ	W J GUTOWSKI	NAGW 2993	4278
31	IOWA STATE UNIV	A C JANETOS	HQ	R W ARITT	NGT 00-030-342	4281
31	IOWA STATE UNIV	J ALEXANDER	HQ	T C CHEN	NGT 00-050-757	4284
31	UNIV OF IOWA	O W THIELE	GSFC	W F KRAJEWSKI	NAG 5-2084	4300
31	UNIV OF IOWA	O THIELE	GSFC	W F KRAJEWSKI	NAG 5-2774	4310
31	UNIV OF IOWA	J A KAYE	HQ	G R CARMICHAEL	NAGW 2428	4324
31	UNIV OF IOWA	J L CHRISTENSEN	GSFC	D GURNETT	NAS 5-30730	4338
31	UNIV OF IOWA	G ASRAR	HQ	W F KRAJEWSKI	NGT 00-030-192	4341
31	UNIV OF IOWA	G ASRAR	HQ	T F SMITH	NGT 00-030-218	4342
31	UNIV OF NRTHN IOWA	F SIX	MSFC	T A HOCKEY	NAG 8-265	4348
31	GARDEN COMM. COLLEGE	N GEHRELS	GSFC	G M LAIRD	NAG 5-2949	4350
31	UNIV OF KANSAS	D E FITZJARRALD	MSFC	R K MOORE	NAG 8-958	4365
31	UNIV OF KANSAS	D FITZJARRALD	MSFC	R K MOORE	NAG 8-1095	4366
31	UNIV OF KANSAS	G ASRAR	HQ	S P GOGINENI	NGT 00-030-202	4383
31	UNIV OF KANSAS	G S SOFFEN	GSFC	T P ARMSTRONG	NGT 5-3	4389
31	UNIV SOUTHWESTERN LA	JOYCE	SSC	T WILLIAMS	NAG13-24	4497
31	JOHNS HOPKINS UNIV	K M LAU	GSFC	A ARKING	NAG 5-2039	4543
31	JOHNS HOPKINS UNIV	J T BERGSTRALH	HQ	D F STROBEL	NAGW 648	4569
31	JOHNS HOPKINS UNIV	G C CLAYTON	HQ	R C HENRY	NAGW 1890	4572
31	JOHNS HOPKINS UNIV	R D MCPETERS	HQ	D F STROBEL	NAGW 2148	4574
31	JOHNS HOPKINS UNIV	W C PATZERT	HQ	R C BEAL	NAGW 2719	4582
31	JOHNS HOPKINS UNIV	M J KURYLO	HQ	D E ANDERSON	NAGW 3125	4588
31	JOHNS HOPKINS UNIV	M J KURYLO	HQ	S A LLOYD	NAGW 4745	4621
31	JOHNS HOPKINS UNIV	H BLODGET	GSFC	J SALISBURY	NAS 5-31373	4626

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31	UNIV MARYLAND-COL PK	M D CHOU	GSFC	R T PINKER	NAG 5-914	4682
31	UNIV MARYLAND-COL PK	J R HERMAN	GSFC	R D HUDSON	NAG 5-1696	4693
31	UNIV MARYLAND-COL PK	G K SCHWEMMER	GSFC	T D WILKERSON	NAG 5-1782	4694
31	UNIV MARYLAND-COL PK	L S WALTER	GSFC	A ROBUCK	NAG 5-1835	4695
31	UNIV MARYLAND-COL PK	O W THIELE	GSFC	B KEDEM	NAG 5-2783	4736
31	UNIV MARYLAND-COL PK	J R HERMAN	GSFC	D HUDSON	NAG 5-3055	4749
31	UNIV MARYLAND-COL PK	M MELLOTT	HQ	J F DRAKE	NAGW 1661	4755
31	UNIV MARYLAND-COL PK	M BALTUCK	HQ	G BLUTH	NAGW 3729	4786
31	UNIV MARYLAND-COL PK	M E MAIDEN	HQ	R T PINKER	NAGW 4740	4812
31	UNIV MARYLAND-COL PK	T VON ROSENVINGE	GSFC	G M MASON	NAS 5-30927	4818
31	UNIV MARYLAND-COL PK	L CHRISTENSEN	GSFC	F IPAVICH	NAS 5-31166	4819
31	UNIV MARYLAND-COL PK	P SELLERS	GSFC	C JUSTICE	NAS 5-31732	4821
31	UNIV MARYLAND-COL PK	P GARY	GSFC	J S BARAS	NAS 5-32378	4822
31	UNIV MARYLAND-COL PK	E M MIDDLETON	GSFC	S N GOWARD	NCC 5-26	4829
31	UNIV MARYLAND-COL PK	E R KREINS	GSFC	F BAER	NCC 5-39	4831
31	UNIV MARYLAND-COL PK	G K SCHWEMMER	GSFC	R ELLINGSON	NCC 5-81	4837
31	UNIV MARYLAND-COL PK	G ASRAR	HQ	B KEDEM	NGT 00-030-332	4855
31	U OF MD-BALT. COUNTY	J SUSSKIND	GSFC	L L STROW	NAG 5-1593	4874
31	U OF MD-BALT. COUNTY	J SUSSKIND	GSFC	H MOTTELER	NCC 5-57	4887
31	U OF MD-BALT. COUNTY	G K SCHWEMMER	GSFC	S H MELFI	NCC 5-80	4889
31	U OF MD-BALT. COUNTY	R E HARTLE	GSFC	S H MELFI	NCC 5-92	4891
31	BOSTON UNIVERSITY	C L JOHNSON	MSFC	S GHAKRABARTI	NAG 8-1053	4918
31	BOSTON UNIVERSITY	D BARKER	HQ	R YELLE	NAGW 4798	4936
31	BOSTON UNIVERSITY	H OSEROFF	GSFC	W STRAHLER	NAS 5-31369	4937
31	BOSTON UNIVERSITY	D L REASONER	MSFC	M MENDILLO	NAS 8-36324	4938
31	BRIDGEWATER ST COL	F SIX	MSFC	J SULONOWSKI	NAG 8-1011	4946
31	HARVARD UNIVERSITY	L R POOLE	LARC	J G ANDERSON	NAG 1-1305	4951
31	HARVARD UNIVERSITY	J M HOELL	LARC	D J JACOB	NAG 1-1421	4952
31	HARVARD UNIVERSITY	L R POOLE	LARC	J G ANDERSON	NAG 1-1609	4953
31	HARVARD UNIVERSITY	L R POOLE	LARC	J G ANDERSON	NAG 1-1617	4954
31	HARVARD UNIVERSITY	J M HOELL JR	LARC	D J JACOB	NAG 1-1759	4955
31	HARVARD UNIVERSITY	E P CONDON	ARC	S C WOF SY	NAG 2-731	4957
31	HARVARD UNIVERSITY	E P CONDON	ARC	S C WOF SY	NAG 2-974	4959
31	HARVARD UNIVERSITY	R W STEWART	GSFC	D J JACOB	NAG 5-2600	4970
31	HARVARD UNIVERSITY	R W STEWART	GSFC	D J JACOB	NAG 5-2688	4971
31	HARVARD UNIVERSITY	R W STEWART	GSFC	M B MCELROY	NAG 5-2958	4973
31	HARVARD UNIVERSITY	R D MCPETERS	HQ	S C WOF SY	NAGW 1230	4981
31	HARVARD UNIVERSITY	G C CLAYTON	HQ	W H PARKINSON	NAGW 1596	4982
31	HARVARD UNIVERSITY	J A KAYE	HQ	M B MCELROY	NAGW 2632	4986
31	HARVARD UNIVERSITY	G L MADDREA	LARC	S C WOF SY	NAS 1-19955	4999
31	HARVARD UNIVERSITY	E P CONDON	ARC	S C WOF SY	NCC 2-694	5001
31	HARVARD UNIVERSITY	E CONDON	ARC	S C WOF SY	NCC 2-786	5002
31	HARVARD UNIVERSITY	E CONDON	ARC	J G ANDERSON	NCC 2-790	5003
31	HARVARD UNIVERSITY	S S WEGENER	ARC	G J ANDERSON	NCC 2-892	5005
31	HARVARD UNIVERSITY	S S WEGENER	ARC	S C WOF SY	NCC 2-897	5006
31	HARVARD UNIVERSITY	S S WEGENER	ARC	J G ANDERSON	NCC 2-898	5007
31	HARVARD UNIVERSITY	S S WEGENER	ARC	J G ANDERSN	NCC 2-913	5008
31	HARVARD UNIVERSITY	D M BUTLER	HQ	A E DESSLER	NGT 00-030-082	5011
31	HARVARD UNIVERSITY	G ASRAR	HQ	D JACOB	NGT 00-030-172	5012
31	HARVARD UNIVERSITY	G ASRAR	HQ	D JACOB	NGT 00-030-184	5014
31	MASS INST OF TECH	J M HOELL	LARC	R E NEWELL	NAG 1-1252	5036
31	MASS INST OF TECH	R E TURNER	LARC	R A PLUMB	NAG 1-1360	5037
31	MASS INST OF TECH	J M HOELL JR.	LARC	D E NEWELL	NAG 1-1758	5050
31	MASS INST OF TECH	E CONDON	ARC	M J MOLINA	NAG 2-632	5051
31	MASS INST OF TECH	J C SHIUE	GSFC	D H STAELIN	NAG 5-10	5086
31	MASS INST OF TECH	D RIND	GSFC	P H STONE	NAG 5-1328	5089
31	MASS INST OF TECH	D SHORT	GSFC	R L BRAS	NAG 5-1615	5090
31	MASS INST OF TECH	B G BILLS	GSFC	P MOLNAR	NAG 5-1947	5100
31	MASS INST OF TECH	D G DUFFY	GSFC	P H STONE	NAG 5-2490	5107
31	MASS INST OF TECH	J SHIUE	GSFC	D H STAELIN	NAG 5-2545	5112

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31	MASS INST OF TECH	R W STEWART	GSFC	R A PLUMB	NAG 5-2582	5113
31	MASS INST OF TECH	C H JACKMAN	GSFC	R A PLUMB	NAG 5-2812	5119
31	MASS INST OF TECH	D RIND	GSFC	P STONE	NAG 5-2907	5124
31	MASS INST OF TECH	J V VARGAS	MSFC	G W CLARK	NAG 8-185	5128
31	MASS INST OF TECH	H J CHRISTIAN	MSFC	E R WILLIAMS	NAG 8-935	5132
31	MASS INST OF TECH	J A KAYE	HQ	R G PRINN	NAGW 474	5148
31	MASS INST OF TECH	R K KAKAR	HQ	R S LINDZEN	NAGW 525	5149
31	MASS INST OF TECH	R D MCPETERS	HQ	R G PRINN	NAGW 732	5151
31	MASS INST OF TECH	M J KURYLO	HQ	J I STEINFELD	NAGW 1667	5161
31	MASS INST OF TECH	R D MCPETERS	HQ	R A PLUMB	NAGW 1727	5162
31	MASS INST OF TECH	M J KURYLO	HQ	M J MOLINA	NAGW 2190	5172
31	MASS INST OF TECH	D ADAMEO	HQ	P MALANOTTE-RIZZO	NAGW 2711	5178
31	MASS INST OF TECH	H BRINTON	HQ	P FORD	NAGW 4351	5201
31	MASS INST OF TECH	D DUFFY	GSFC	P H STONE	NGR22-9727	5241
31	MASS INST OF TECH	A C JANETOS	HQ	R PLUMB	NGT 00-030-251	5247
31	UNIV OF MASS-LOWELL	J G WELLS	LARC	R R GAMACHE	NAG 1-1261	5281
31	UNIV OF MASS-AMHERST	B J CONNOR	LARC	A D PARRISH	NAG 1-1022	5286
31	UNIV OF MASS-AMHERST	R H THOMAS	HQ	C T SWIFT	NAGW 3685	5304
31	MICHIGAN TECH UNIV	A J KRUEGER	GSFC	W I ROSE	NAG 5-2324	5364
31	MICHIGAN TECH UNIV	J BERGSTRALH	HQ	A BORYSOW	NAGW 3390	5365
31	MICHIGAN TECH UNIV	M BALTUCK	HQ	G BLUTH	NAGW 4088	5366
31	MICHIGAN TECH UNIV	A C JANETOS	HQ	R E HONRATH	NGT 00-030-275	5372
31	UNIV MICH-ANN ARBOR	J G WELLS	LARC	T L KILLEEN	NAG 1-1315	5377
31	UNIV MICH-ANN ARBOR	J M HOELL	LARC	M A CARROLL	NAG 1-1465	5381
31	UNIV MICH-ANN ARBOR	G L GREGORY	LARC	M A CARROLL	NAG 1-1544	5385
31	UNIV MICH-ANN ARBOR	A M LARAR	LARC	W B COOK	NAG 1-1720	5386
31	UNIV MICH-ANN ARBOR	J M HOELLJR	LARC	D A CARROLL	NAG 1-1755	5387
31	UNIV MICH-ANN ARBOR	E CONDON	ARC	M A CARROLL	NAG 2-879	5389
31	UNIV MICH-ANN ARBOR	C H JACKMAN	GSFC	W E SHARP	NAG 5-2752	5419
31	UNIV MICH-ANN ARBOR	G LEVY	HQ	D J HEYGI	NAGW 2124	5439
31	UNIV MICH-ANN ARBOR	G LEVY	HQ	D J HEYGI	NAGW 2125	5440
31	UNIV MICH-ANN ARBOR	W L QUAIDE	HQ	A NAGY	NAGW 2533	5445
31	UNIV MICH-ANN ARBOR	J T BERGSTRALH	HQ	L BRACE	NAGW 3579	5453
31	UNIV MICH-ANN ARBOR	J BERGSTRALH	HQ	A NAGY	NAGW 3962	5456
31	UNIV MICH-ANN ARBOR	E M SULLIVAN	LARC	S R DRAYSON	NAS 1-18290	5472
31	UNIV MICH-ANN ARBOR	G HONEYCUTT	GSFC	P HAYS	NAS 5-27751	5475
31	UNIV MICH-ANN ARBOR	B NIEMANN	GSFC	S K ATREYA	NAS 5-30119	5476
31	UNIV MICH-ANN ARBOR	J R RICHARDS	GSFC	T M DONAHUE	NAS 5-30120	5477
31	UNIV MICH-ANN ARBOR	R L FROST	GSFC	G CARIGNAN	NAS 5-30943	5478
31	UNIV MICH-ANN ARBOR	R L FROST	GSFC	G CARIGNAN	NAS 5-30955	5479
31	UNIV MICH-ANN ARBOR	M F MALONE	MSFC	E G FONTHEIM	NAS 8-37108	5482
31	UNIV MICH-ANN ARBOR	J ANDERSON	GSFC	A BURNS	NAS 8-40578	5484
31	UNIV MICH-ANN ARBOR	D HOLLAND	HQ	T I GOMBOSI	NGT 00-051-335	5513
31	UNIV MICH-ANN ARBOR	D HOLLAND	HQ	J P BOYD	NGT 00-051-409	5515
31	U MINN-MNPLS-ST PAUL	R F CAHALAN	GSFC	E FOUFOULA-GEORGIU	NAG 5-2108	5552
31	U MINN-MNPLS-ST PAUL	M J KURYLO	HQ	R W CARR	NAGW 800	5559
31	U MINN-MNPLS-ST PAUL	J A KAYE	HQ	P M MCMURRY	NAGW 3751	5573
31	U MINN-MNPLS-ST PAUL	D M BUTLER	HQ	J J MARTI	NGT 00-030-052	5587
31	U MINN-MNPLS-ST PAUL	A G BESWICK	LARC	K MAUERSBERGER	NSG-1431	5601
31	MISSISSIPPI STATE U	G J FISHMAN	MSFC	P LESTRADE	NAG 8-1022	5625
31	UNIV MO-COLUMBIA	A F HASLER	GSFC	X ZHUANG	NAG 5-2573	5669
31	UNIV MO-ROLLA	W R COFER	LARC	D E HAGEN	NAG 1-1632	5679
31	WASHINGTON UNIVERSTY	J BERGSTRALH	HQ	R PHILLIPS	NAGW 4669	5728
31	WASHINGTON UNIVERSTY	P D HAMMER	ARC	W H SMITH	NCC 2-5159	5731
31	UNIV OF MONTANA	G ASRAR	HQ	G N RICHARDS	NGT 00-030-169	5760
31	UNIV NEVADA-DRI	D S MCDUGAL	LARC	J G HUDSON	NAG 1-1113	5790
31	UNIV NEVADA-DRI	D S MCDUGAL	LARC	J HALLETT	NAG 1-1546	5791
31	UNIV NEVADA-DRI	D S MCDUGAL	LARC	J HALLEH	NAG 1-1707	5792
31	UNIV NEVADA-DRI	R F PUESCHEL	ARC	J HALLETT	NAG 2-663	5793
31	UNIV NEVADA-DRI	E P CONDON	ARC	J HALLETT	NAG 2-923	5794

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31	UNIV NEVADA-DRI	J T SUTTLES	HQ	J G HUDSON	NAGW 3753	5796
31	DARTMOUTH COLLEGE	C H JACKMAN	GSFC	C G FESEN	NAG 5-2743	5816
31	UNIV NEW HAMP-DURHAM	J M HOELL JR.	LARC	D W TALBOT	NAG 1-1761	5840
31	UNIV NEW HAMP-DURHAM	J LOVALL	MSFC	B N ROCK	NAG 8-1044	5862
31	UNIV NEW HAMP-DURHAM	M J KURYLO	HQ	R C HARISS	NAGW 1826	5865
31	UNIV NEW HAMP-DURHAM	M E MAIDEN	HQ	B M MOORE	NAGW 3185	5874
31	UNIV NEW HAMP-DURHAM	G W SACHSE	LARC	R C HARRISS	NCC 1-184	5898
31	UNIV NEW HAMP-DURHAM	S G TILFORD	HQ	E MOORE	NGT 00-080-009	5908
31	PRINCETON UNIVERSITY	J A KAYE	HQ	H ROBITZ	NAGW 3952	5967
31	PRINCETON UNIVERSITY	J A KAYE	HQ	V RAMASWAMY	NGT 00-030-234	5975
31	RUTGERS ST U-PISCTWY	B A BAUM	LARC	J A FRANCIS	NAG 1-1748	5987
31	RUTGERS ST U-PISCTWY	R H WARING	HQ	R AVISSAR	NAGW 2658	5992
31	NEW MEX INST MINING	C JACKMAN	GSFC	K MINSCHWANER	NAG 5-2847	6031
31	NEW MEX INST MINING	R J BLAKESLEE	MSFC	M BROOK	NAG 8-1123	6034
31	NEW MEX INST MINING	L MAIER	KSC	P KREHBIEL	NAG10-175	6035
31	NEW MEX INST MINING	J M ZAWODNY	LARC	R J THOMAS	NCC 1-142	6036
31	NEW MEX ST U-LAS CR	M E NEIN	MSFC	J D BURNS	NAG 8-986	6049
31	CITY U OF NY CTY COL	J BERGARAN	HQ	K BECKER	NAGW 4118	6106
31	COLUMBIA UNIVERSITY	O W THIELE	GSFC	K TAKANO	NAG 5-1960	6147
31	COLUMBIA UNIVERSITY	M J KURYLO	HQ	W S BROECKER	NAGW 895	6171
31	COLUMBIA UNIVERSITY	G ASRAR	HQ	Q MA	NAGW 4693	6195
31	COLUMBIA UNIVERSITY	L D TRAVIS	GSFC	W S BROECKER	NCC 5-29	6198
31	COLUMBIA UNIVERSITY	R STOTHERS	GSFC	C K CHU	NCC 5-34	6199
31	COLUMBIA UNIVERSITY	D PETEET	GSFC	L POLVANI	NCC 5-44	6200
31	COLUMBIA UNIVERSITY	V CANUTO	GSFC	R A LEVENSON	NCC 5-45	6201
31	COLUMBIA UNIVERSITY	R A SCHIFFER	HQ	J E HANSEN	NGT 00-030-310	6215
31	CORNELL UNIVERSITY	B J CONRATH	GSFC	P J GIERASCH	NAG 5-813	6244
31	CORNELL UNIVERSITY	F G HALL	GSFC	W BRUTSAERT	NAG 5-1378	6245
31	CORNELL UNIVERSITY	G LESANE	HQ	K COOK	NGT 00-051-147	6316
31	CORNELL UNIVERSITY	A NOVOTING	HQ	K H COOK	NGT 00-051-374	6320
31	NIAGARA UNIVERSITY	R BLAKESLEE	MSFC	W BOECK	NCC 8-55	6353
31	RENSSELAER POLY-NY	D FRAZIER	MSFC	M E GLIKSMAN	NAG 8-864	6378
31	ROCHESTER INST TECH	F SIX	MSFC	M L WINGSWORTH	NAG 8-1008	6409
31	ROCKEFELLER UNIV	P K BHARTIA	GSFC	L SIROVICH	NAG 5-2336	6412
31	ST JOHN FISHER COLL		MSFC	W LEWIS	NAG 8-1033	6414
31	STATE UNIV NY-ALBANY	R M ATLAS	GSFC	D KEYSER	NAG 5-1501	6415
31	STATE UNIV NY-ALBANY	R W STEWART	GSFC	C W WALEK	NAG 5-2714	6417
31	STATE UNIV NY-ALBANY	G L MADDREA	LARC	V MOHNEN	NAS 1-18942	6422
31	STATE UNIV NY-ALBANY	L PFISTER	ARC	M KRITZ	NCC 2-5125	6425
31	STATE U NY-STONY BRK	B A WIELICKI	LARC	R D CESS	NAG 1-1264	6452
31	STATE U NY-STONY BRK	J G WELLS	LARC	R DE ZAFRA	NAG 1-1354	6453
31	STATE U NY-STONY BRK	W TAO	GSFC	M A GELLER	NAG 5-1699	6456
31	STATE U NY-STONY BRK	R W STEWART	GSFC	M A GELLER	NAG 5-2739	6463
31	STATE U NY-STONY BRK	M J KURYLO	HQ	P M SOLOMON	NAGW 1560	6471
31	STATE U NY-STONY BRK	M J KURYLO	HQ	R DE ZAFRA	NAGW 2182	6473
31	STATE U NY-STONY BRK	J C DODGE	HQ	R D CESS	NAGW 3517	6480
31	STATE U NY-STONY BRK	C A REBER	GSFC	M A GELLER	NAS 5-31247	6489
31	ST U NY COL-PURCHASE	R W STEWART	GSFC	J TENENBAUM	NAG 5-2700	6498
31	ST U NY COL-PURCHASE	M HELFAND	GSFC	J TENENBAUM	NSG-5077	6499
31	SYRACUSE UNIVERSITY	R B ROOD	GSFC	G C FOX	NAG 5-2280	6507
31	DUKE UNIVERSITY	G ASRAR	HQ	R OREN	NGT 00-030-211	6553
31	NO CAROLINA STATE U	S E KOCH	GSFC	Y L LIN	NAG 5-1790	6610
31	NO CAROLINA STATE U	R F ADLER	GSFC	S E KOCH	NAG 5-2589	6614
31	NO CAROLINA STATE U	J A KAYE	HQ	P BLOOMFIELD	NAGW 3120	6620
31	NO CAROLINA STATE U	F H PROCTOR	LARC	Y L LIN	NCC 1-188	6636
31	UNIV N CAR-CHPL HILL	M J KURYLO	HQ	R E MILLER	NAGW 3881	6666
31	UNIV OF NORTH DAKOTA	D S MCDUGAL	LARC	M R POELLOT	NAG 1-1351	6682
31	UNIV OF NORTH DAKOTA	D S MCDUGAL	LARC	M R POELLOT	NAG 1-1706	6683
31	OHIO STATE UNIV	B H PUTNEY	GSFC	C C GOAD	NAG 5-2041	6919
31	OHIO STATE UNIV	W B KRABILL	WFF	E MOSLEY-THOMPSON	NAG 5-5032	6926

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31	OHIO STATE UNIV	T W HAMILTON	GSFC	R H THOMAS	NAS 5-30946	6951
31	OHIO STATE UNIV	A C JANETOS	HQ	E C DELUCIA	NGT 00-030-236	6959
31	UNIV OF CINCINNATI	G ASRAR	HQ	S ISLAM	NGT 00-030-326	7056
31	UNIV OF DAYTON	F J SCHMIDLIN	GSFC	J K LUERS	NAS 5-31661	7070
31	UNIV OKLAHOMA-NORMAN	F G HALL	GSFC	T GAL-CHEN	NAG 5-1379	7133
31	UNIV OKLAHOMA-NORMAN	J SIMPSON	GSFC	Y L KOGAN	NAG 5-1528	7134
31	UNIV OKLAHOMA-NORMAN	S J GOODMAN	MSFC	C E DUCHON	NAG 8-922	7137
31	OREGON STATE UNIV	T OWENS	LARC	J A COAKLEY	NAG 1-1234	7154
31	OREGON STATE UNIV	J W YOUNGBLOOD	LARC	J A COAKLEY	NAG 1-1263	7155
31	OREGON STATE UNIV	D WICKLAND	HQ	C CHEN	NAGW 3642	7173
31	OREGON STATE UNIV	J E COOPER	LARC	J A COAKLEY	NAS 1-18992	7185
31	OREGON STATE UNIV	G L MADDREA	LARC	J A COAKLEY	NAS 1-19952	7186
31	OREGON STATE UNIV	C RABER	GSFC	D H FREILICH	NAS 5-32965	7188
31	OREGON STATE UNIV	R M HABERLE	ARC	J R BARNES	NCC 2-661	7189
31	UNIV OREGON-EUGENE	I G NOLT	LARC	K J PARK	NAG 1-963	7199
31	UNIV OREGON-EUGENE	I G NOLT	LARC	K JAI-PARK	NAG 1-1650	7201
31	UNIV OREGON-EUGENE	J OWENS	MSFC	G D BOTHUN	NAG 8-1047	7205
31	UNIV OREGON-EUGENE	L E LASHER	ARC	D B KIRK	NCC 2-882	7207
31	DREXEL UNIVERSITY	R J BENDURA	LARC	A R BANDY	NAG 1-1224	7249
31	DREXEL UNIVERSITY	J M HOELL JR.	LARC	D R BANDY	NAG 1-1770	7250
31	DREXEL UNIVERSITY	E P CONDON	ARC	A R BRANDY	NAG 2-876	7251
31	PENN STATE U-UNIV PK	T OWENS	LARC	T P ACKERMAN	NAG 1-999	7276
31	PENN STATE U-UNIV PK	J M HOELL	LARC	W H BRUNE	NAG 1-1057	7278
31	PENN STATE U-UNIV PK	T OWENS	LARC	T P ACKERMAN	NAG 1-1095	7279
31	PENN STATE U-UNIV PK	D S MCDUGAL	LARC	T P ACKERMAN	NAG 1-1547	7285
31	PENN STATE U-UNIV PK	E P CONDON	ARC	W H BRUNE	NAG 2-751	7290
31	PENN STATE U-UNIV PK	E CONDON	ARC	W BRUNE	NAG 2-826	7291
31	PENN STATE U-UNIV PK	E P CONDON	ARC	W H BRUNE	NAG 2-938	7293
31	PENN STATE U-UNIV PK	R W STEWART	GSFC	T P ACKERMAN	NAG 5-2701	7334
31	PENN STATE U-UNIV PK	W TAO	GSFC	M FRITSCH	NAG 5-2927	7339
31	PENN STATE U-UNIV PK	J VARGAS	MSFC	R H CORBET	NAG 8-231	7348
31	PENN STATE U-UNIV PK	M J KURYLO	HQ	J OLIVERO	NAGW 1302	7355
31	PENN STATE U-UNIV PK	J D RUMMEL	HQ	J F KASTING	NAGW 1911	7359
31	PENN STATE U-UNIV PK	R D MCPETERS	HQ	T P ACKERMAN	NAGW 2209	7361
31	PENN STATE U-UNIV PK	M J KURYLO	HQ	W H BRUNE	NAGW 2670	7365
31	PENN STATE U-UNIV PK	J C DODGE	HQ	E J BARRON	NAGW 2686	7366
31	PENN STATE U-UNIV PK	J A KAYE	HQ	J J OLIVERO	NAGW 2712	7367
31	PENN STATE U-UNIV PK	L MAIER	KSC	G S FORBES	NAG10-137	7386
31	PENN STATE U-UNIV PK	C LENNON	KSC	G S FORBES	NAG10-154	7387
31	PENN STATE U-UNIV PK	R A SCHIFFER	HQ	W H BRUNE	NGT 00-030-314	7410
31	UNIV OF PITTSBURGH	J OWENS	MSFC	B R ESPEY	NAG 8-1049	7464
31	UNIV OF RHODE ISLAND	J D BARRICK	LARC	B G HEIKES	NAG 1-1222	7544
31	UNIV OF RHODE ISLAND	B E ANDERSON	LARC	R ARIMOTO	NAG 1-1225	7545
31	UNIV OF RHODE ISLAND	J M HOELL	LARC	J T MERRILL	NAG 1-1235	7546
31	UNIV OF RHODE ISLAND	J M HOELL JR.	LARC	D HEIKES	NAG 1-1757	7547
31	UNIV OF RHODE ISLAND	L S WALTER	GSFC	H SIGURDSSON	NAG 5-1844	7549
31	UNIV OF RHODE ISLAND	J A KAYE	HQ	N W TINDALE	NAGW 3020	7553
31	CLEMSON UNIV-CLEMSON	E G STASSINOPOULOS	GSFC	P J MCNULTY	NAS 5-31750	7583
31	SO CAROLINA ST UNIV.	Y CONNORS	LARC	S RAMAR	NAG 1-1752	7603
31	SO DAKOTA SCHL MINES	B A WIELICKI	LARC	S K SENGUPTA	NAG 1-542	7616
31	SO DAKOTA SCHL MINES	R F ADLER	GSFC	P SMITH	NAG 5-386	7618
31	SO DAKOTA SCHL MINES	R W STEWART	GSFC	A G DETWILER	NAG 5-2711	7619
31	SO DAKOTA SCHL MINES	R W STEWART	GSFC	R M WELCH	NAG 5-2712	7620
31	SO DAKOTA SCHL MINES	D J BLAKE	GSFC	R M WELCH	NAG 5-2889	7621
31	SO DAKOTA SCHL MINES	J T SUTTLES	HQ	R M WELCH	NAGW 3740	7623
31	SO DAKOTA SCHL MINES	J C DODGE	HQ	Q Y HAN	NAGW 3788	7624
31	SO DAKOTA SCHL MINES	R A SCHIFFER	HQ	Q HAN	NAGW 3922	7625
31	SO DAKOTA SCHL MINES	R A SCHIFFER	HQ	R M WELSH	NAGW 3966	7626
31	SO DAKOTA SCHL MINES	R A SCHIFFER	HQ	R M WELCH	NAGW 4791	7628
31	SO DAKOTA SCHL MINES	P J SAKIMOTO	GSFC	S C MCCULLOH	NCA 5-115	7631

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31	UNIV TENNESSEE-KNOXV	J T BERGSTRALH	HQ	K FOX	NAGW 125	7687
31	PRAIRIE VIEW A&M U	D D ARNDT	JSC	D FOSTER	NCC 9-40	7781
31	RICE UNIVERSITY	J T BERGSTRALH	HQ	P A CLOUTIER	NAGW 3504	7817
31	TEXAS A&M UNIVERSITY	T L BELL	GSFC	G R NORTH	NAG 5-869	7868
31	TEXAS A&M UNIVERSITY	J R WANG	GSFC	T T WILHEIT	NAG 5-1423	7869
31	TEXAS A&M UNIVERSITY	J WEINMAN	GSFC	T T WILHEIT	NAG 5-1568	7870
31	TEXAS A&M UNIVERSITY	O THIELE	GSFC	E ZIPSER	NAG 5-1569	7871
31	TEXAS A&M UNIVERSITY	T BELL	GSFC	G R NORTH	NAG 5-1590	7872
31	TEXAS A&M UNIVERSITY	O W THIELE	GSFC	E ZIPSER	NAG 5-2033	7873
31	TEXAS A&M UNIVERSITY	O W THIELE	GSFC	T WILHEIT	NAG 5-2089	7874
31	TEXAS A&M UNIVERSITY	O W THIELE	GSFC	G R NORTH	NAG 5-2778	7876
31	TEXAS A&M UNIVERSITY	J W KAUFMAN	MSFC	J P MC GUIRK	NAG 8-299	7879
31	TEXAS A&M UNIVERSITY	S GOODMAN	MSFC	E J ZIPSER	NAG 8-912	7880
31	TEXAS A&M UNIVERSITY	S J GOODMAN	MSFC	E J ZIPSER	NAG 8-1200	7884
31	TEXAS A&M UNIVERSITY	C HERMAN	JSC	J S LINDER	NAG 9-331	7885
31	TEXAS A&M UNIVERSITY	K LULLA	JSC	J GIARDINO	NAG 9-807	7900
31	TEXAS A&M UNIVERSITY	J S THEON	HQ	R STEWART	NAGW 2922	7906
31	TEXAS A&M UNIVERSITY	J K ALEXANDER	HQ	W H MARLOW	NAGW 3054	7907
31	TEXAS A&M UNIVERSITY	J A KAYE	HQ	N W TINDALE	NAGW 3363	7909
31	TEXAS A&M UNIVERSITY	J A KAYE	HQ	K P BOWMAN	NAGW 3442	7910
31	TEXAS A&M UNIVERSITY	P HWONG	GSFC	T T WILHEIT	NAS 5-32593	7916
31	TEXAS SOUTHERN UNIV	C R CHAPPELL	MSFC	S A ARYA	NAG 8-818	7949
31	U TEX-PAN AM-EDNBURG	J D ATKINSON	JSC	R H FOWLER	NAG 9-551	8013
31	U TEX-PAN AM-EDNBURG	J D ATKINSON	JSC	V I ALVARADO	NAG 9-552	8014
31	U TEX-PAN AM-EDNBURG	J D ATKINSON	JSC	J WIENER	NAG 9-553	8015
31	UNIV TEXAS-AUSTIN	M BALTUCK	HQ	B D TAPLEY	NAGW 1959	8117
31	UNIV TEXAS-AUSTIN	G ASRAR	HQ	K W BUTZER	NGT 00-030-194	8167
31	UNIV TEXAS-DALLAS	J T BERGSTRALH	HQ	F S JOHNSON	NAGW 1665	8190
31	UNIV TEXAS-DALLAS	J T BERGSTRALH	HQ	R R HODGES	NAGW 3444	8194
31	UNIV TEXAS-DALLAS	J MCGUIRE	GSFC	R HEILIS	NAS 5-32571	8200
31	UNIV TEXAS-DALLAS	J E JOHNSON	MSFC	B A TINSLEY	NAS 8-33827	8201
31	BRIGHAM YOUNG UNIV	D ADAMER	HQ	D LONG	NAGW 2461	8243
31	UNIV OF UTAH	D S MCDOUGAL	LARC	K SASSEN	NAG 1-1314	8249
31	UNIV OF UTAH	D S MCDOUGAL	LARC	S K KRUEGER	NAG 1-1718	8251
31	UNIV OF UTAH	D S MCDOUGAL	LARC	K N LIOU	NAG 1-1719	8252
31	UNIV OF UTAH	E P CONDON	ARC	K SASSEN	NAG 2-939	8253
31	UNIV OF UTAH	H M HELFAND	GSFC	J N PAEGLE	NAG 5-127	8254
31	UNIV OF UTAH	M D CHOU	GSFC	K N LIOU	NAG 5-1050	8255
31	UNIV OF UTAH	J D SPINHIRNE	GSFC	K SASSEN	NAG 5-2338	8260
31	UNIV OF UTAH	R W STEWART	GSFC	K LIOU	NAG 5-2678	8262
31	UNIV OF UTAH	T P CHARLOCK	LARC	K N LIOU	NCC 1-189	8266
31	UTAH STATE UNIV	J G WELLS	LARC	P J ESPY	NAG 1-1334	8271
31	UTAH STATE UNIV	J G WELLS	LARC	B WICKWAR	NAG 1-1335	8272
31	UTAH STATE UNIV	C H JACKMAN	GSFC	D J CRAIN	NAG 5-2748	8278
31	UTAH STATE UNIV	J C LUVALL	MSFC	J J MCDONNELL	NAG 8-897	8282
31	UTAH STATE UNIV	R SPILLINGER	HQ	W WATKINS	NAGW 3029	8285
31	UTAH STATE UNIV	J T BERGSTRALH	HQ	K L MILLER	NAGW 3689	8287
31	UTAH STATE UNIV	H H BRINTON	HQ	R WATTSON	NAGW 4057	8289
31	UTAH STATE UNIV	R E CAMPBELL	LARC	R ESPLIN	NAS 1-20080	8295
31	UTAH STATE UNIV	K HOLDER	MSFC	N STONE	NAS 8-37110	8298
31	CHRISTPHR NEWPORT U	C P RINSLAND	LARC	A M BUONCRISTIANI	NCC 1-179	8322
31	CHRISTPHR NEWPORT U	G W SACHSE	LARC	A M BUONCRISTIANI	NCC 1-204	8323
31	COLLEGE OF WM & MARY	J PARK	LARC	D C BENNER	NCC 1-43	8342
31	GEORGE MASON UNIV	A F HASLER	GSFC	B MONES-HATTAL	NAG 5-2897	8369
31	HAMPTON UNIVERSITY	J FISHMAN	LARC	T CHYBA	NCC 1-214	8391
31	HAMPTON UNIVERSITY	E J CONWAY	LARC	T H CHYBA	NCC 1-215	8392
31	UNIV OF VIRGINIA	O W THIELE	GSFC	M GARSTANG	NAG 5-1978	8515
31	UNIV OF VIRGINIA	O W THIELE	GSFC	M GARSTANG	NAG 5-2061	8517
31	UNIV OF VIRGINIA	J T BERGSTRALH	HQ	R E JOHNSON	NAGW 461	8525
31	UNIV OF VIRGINIA	K H BERGMAN	HQ	J J DORNING	NAGW 3021	8534

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31	UNIV OF VIRGINIA	R WILLIAMS	HQ	R BARAGIOLA	NAGW 3959	8536
31	UNIV OF VIRGINIA	J W DREWRY	LARC	M GARSTANG	NCC 1-106	8550
31	VIRGINIA POLY INST	R B LEE	LARC	J R MAHAN	NAG 1-1325	8615
31	VIRGINIA POLY INST	J W YOUNGBLOOD	LARC	J R MAHAN	NAG 1-1456	8621
31	VIRGINIA POLY INST	H G REICHLER JR.	LARC	L K PETERS	NAG 1-1598	8631
31	VIRGINIA POLY INST	R B LEE III	LARC	J R MAHAN	NAG 1-1640	8635
31	UNIV OF WASHINGTON	E E REMSBERG	LARC	K K TUNG	NAG 1-1404	8707
31	UNIV OF WASHINGTON	D S MCDUGAL	LARC	P V HOBBS	NAG 1-1709	8711
31	UNIV OF WASHINGTON	D S MCDUGAL	LARC	C S BRETHERTON	NAG 1-1711	8712
31	UNIV OF WASHINGTON	D M WINKER	LARC	R J CHARLSON	NAG 1-1732	8713
31	UNIV OF WASHINGTON	P PILEWSKIE	ARC	P V HOBBS	NAG 2-777	8716
31	UNIV OF WASHINGTON	O THIELE	GSFC	R A HOUZE	NAG 5-1599	8725
31	UNIV OF WASHINGTON	C H JACKMAN	GSFC	K TUNG	NAG 5-2802	8738
31	UNIV OF WASHINGTON	H J CHRISTIAN	MSFC	M BAKER	NAG 8-1150	8747
31	UNIV OF WASHINGTON	F HORZ	JSC	D E BROWNLEE	NAG 9-753	8752
31	UNIV OF WASHINGTON	R D MCPETERS	HQ	J R HOLTON	NAGW 662	8754
31	UNIV OF WASHINGTON	R D MCPETERS	HQ	K K TUNG	NAGW 1605	8759
31	UNIV OF WASHINGTON	J C DODGE	HQ	R A BROWN	NAGW 1770	8761
31	UNIV OF WASHINGTON	J C DODGE	HQ	D L HARTMANN	NAGW 2633	8770
31	UNIV OF WASHINGTON	J A KAYE	HQ	S G WARREN	NAGW 2743	8773
31	UNIV OF WASHINGTON	J C DODGE	HQ	D L HARTMAN	NAGW 3475	8783
31	UNIV OF WASHINGTON	J C DODGE	HQ	R A BROWN	NAGW 3647	8788
31	UNIV OF WASHINGTON	J T SUTTLES	HQ	P V HOBBS	NAGW 3750	8790
31	UNIV OF WASHINGTON	J T SUTTLES	HQ	M B BAKER	NAGW 3754	8791
31	UNIV OF WASHINGTON	A C JANETOS	HQ	R CHARLSON	NAGW 3821	8794
31	UNIV OF WASHINGTON	J S THEON	HQ	B HOWE	NAGW 3960	8795
31	UNIV OF WASHINGTON	R H THOMAS	HQ	A SCHWEIGER	NAGW 4169	8797
31	UNIV OF WASHINGTON	J E COOPER	LARC	D L HARTMANN	NAS 1-18157	8810
31	UNIV OF WASHINGTON	C REBER	GSFC	J R HOLTON	NAS 5-26301	8812
31	UNIV OF WASHINGTON	H BLODGET	GSFC	A R GILLESPIE	NAS 5-31372	8815
31	UNIV OF WASHINGTON	D M BUTLER	HQ	R M PINCUS	NGT 00-030-047	8823
31	UNIV OF WASHINGTON	D M BUTLER	HQ	P W MOTE	NGT 00-030-076	8825
31	UNIV OF WASHINGTON	D M BUTLER	HQ	J R NORRIS	NGT 00-030-092	8828
31	UNIV OF WASHINGTON	G ASRAR	HQ	R E BREIDENTHAL	NGT 00-030-176	8833
31	UNIV OF WASHINGTON	R A SCHIFFER	HQ	D L HARTMANN	NGT 00-030-324	8838
31	UNIV OF WASHINGTON	F C OWENS	HQ	M WENSMAN	NGT 00-050-723	8845
31	UNIV OF WASHINGTON	F SIX	MSFC	M BAKER	NGT 00-051-047	8851
31	FAIRMONT STATE COLL.	K NIEWOEHNER	HQ	C WHITE	NCCW 50	8877
31	WEST VIRGINIA UNIV	W GROSE	LARC	W S LEWELLEN	NAG 1-1635	8882
31	WEST VIRGINIA UNIV	C R CHAPPELL	MSFC	R N ELI	NAG 8-149	8885
31	WEST VIRGINIA UNIV	K NIEWOEHNER	HQ	R E WALTER	NCCW 51	8890
31	UNIV WISC-MADISON	T OWENS	LARC	V E SUOMI	NAG 1-553	8920
31	UNIV WISC-MADISON	T OWENS	LARC	E W ELORANTA	NAG 1-882	8921
31	UNIV WISC-MADISON	D S MCDUGAL	LARC	W L SMITH	NAG 1-1177	8922
31	UNIV WISC-MADISON	D E SISKIND	LARC	M H HITCHMAN	NAG 1-1403	8923
31	UNIV WISC-MADISON	R M ATLAS	GSFC	D R JOHNSON	NAG 5-81	8934
31	UNIV WISC-MADISON	F G HALL	GSFC	J M NORMAN	NAG 5-1416	8941
31	UNIV WISC-MADISON	R ADLER	GSFC	V E SUOMI	NAG 5-1586	8943
31	UNIV WISC-MADISON	C H JACKMAN	GSFC	M H HITCHMAN	NAG 5-2806	8965
31	UNIV WISC-MADISON	R D MCPETERS	GSFC	G C REINSEL	NAG 5-2846	8966
31	UNIV WISC-MADISON	A F HALSER	GSFC	W HIBBARD	NAG 5-2906	8969
31	UNIV WISC-MADISON	P J MEYER	MSFC	W L HIBBARD	NAG 8-828	8974
31	UNIV WISC-MADISON	F R ROBERTSON	MSFC	G R DIAK	NAG 8-927	8975
31	UNIV WISC-MADISON	R D MCPETERS	HQ	G C REINSEL	NAGW 2099	8982
31	UNIV WISC-MADISON	J A KAYE	HQ	M H HITOHMAN	NAGW 2943	8994
31	UNIV WISC-MADISON	K H BERGNAN	HQ	G WAHBA	NAGW 2961	8995
31	UNIV WISC-MADISON	M E MAIDEN	HQ	F P BRETHERTON	NAGW 3286	8998
31	UNIV WISC-MADISON	J C DODGE	HQ	D MARTIN	NAGW 3641	9001
31	UNIV WISC-MADISON	M J KURYLO	HQ	W L SMITH	NAGW 3889	9007
31	UNIV WISC-MADISON	M J KURYLO	HQ	D R JOHNSON	NAGW 3897	9009

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31	UNIV WISC-MADISON	J C DODGE	HQ	S A ACKERMAN	NAGW 3935	9012
31	UNIV WISC-MADISON	G L MADDREA	LARC	M H HITCHMAN	NAS 1-19958	9025
31	UNIV WISC-MADISON	R ATLAS	GSFC	J ANDERSON	NAS 5-30752	9029
31	UNIV WISC-MADISON	H OSEROFF	GSFC	P MENZEL	NAS 5-31367	9030
31	UNIV WISC-MADISON	E KREINS	GSFC	H REVERCOMB	NAS 5-31375	9031
31	UNIV WISC-MADISON	O W THIELE	GSFC	W L SMITH	NAS 5-32366	9033
31	UNIV WISC-MADISON	L E LASHER	ARC	L R SROMOVSKY	NCC 2-854	9041
31	UNIV WISC-MADISON	G SOFFEN	GSFC	P K WANG	NGT 00-051-208	9053
31	UNIV WISC-MILWAUKEE	D SIX	MSFC	T DEFELICE	NAG 8-1205	9060
31	U. WIS. @ WHITEWATER	D SIX	MSFC	D PHANORD	NAG 8-1210	9067
31	UNIV OF WYOMING	J G WELLS JR.	LARC	T DESHLER	NAG 1-1623	9069
31	UNIV OF WYOMING	C H JACKMAN	GSFC	T DESHLER	NAG 5-2801	9074
31	UNIV OF WYOMING	J T SUTTLES	HQ	T DESHER	NAGW 3749	9081
31	UNIV OF WYOMING	G L MADDREA	LARC	G VALI	NAS 1-18945	9083
31	UNIV OF WYOMING	R A SCHIFFER	HQ	J M ROSEN	NGT 00-030-350	9084
32	UNIV ALASKA-FAIRBNKS	S C COHEN	GSFC	J FREYMUELLER	NCC 5-89	1272
32	ARIZONA STATE UNIV	J R UNDERWOOD	HQ	J FINK	NAGW 529	1304
32	ARIZONA STATE UNIV	J UNDERWOOD	HQ	P R CHRISTENSEN	NAGW 943	1306
32	ARIZONA STATE UNIV	J M BOYCE	HQ	R GREELEY	NAGW 1306	1307
32	ARIZONA STATE UNIV	J R UNDERWOOD	HQ	R GREELEY	NAGW 1774	1309
32	ARIZONA STATE UNIV	J D RUMMEL	HQ	J R CRONIN	NAGW 1899	1310
32	ARIZONA STATE UNIV	T A MAXWELL	HQ	R GREELEY	NAGW 2064	1311
32	ARIZONA STATE UNIV	T A MAXWELL	HQ	R GREELEY	NAGW 2102	1312
32	ARIZONA STATE UNIV	W L QUAIDE	HQ	R GREELEY	NAGW 2622	1317
32	ARIZONA STATE UNIV	J M BOYCE	HQ	R GREELEY	NAGW 2949	1319
32	ARIZONA STATE UNIV	J NUTH	HQ	P R BUSECK	NAGW 3386	1322
32	ARIZONA STATE UNIV	J T BERGSTRALH	HQ	R GREELEY	NAGW 3518	1323
32	ARIZONA STATE UNIV	J T BERGSTRALH	HQ	R E GRIMM	NAGW 3544	1324
32	ARIZONA STATE UNIV	RAHE	HQ	C MOORE	NAGW 3722	1325
32	ARIZONA STATE UNIV	J BOYCE	HQ	R GREELEY	NAGW 4042	1326
32	ARIZONA STATE UNIV	B F SMITH	ARC	R GREELEY	NCC 2-346	1336
32	ARIZONA STATE UNIV	G ASRAR	HQ	R I DOM	NGT 00-030-347	1342
32	NORTHERN ARIZONA U	F SIX	MSFC	P MORGAN	NAG 8-1118	1350
32	UNIV OF ARIZONA	J UNDERWOOD	HQ	V R BAKER	NAGW 285	1425
32	UNIV OF ARIZONA	J R UNDERWOOD	HQ	H J MELOSH	NAGW 428	1426
32	UNIV OF ARIZONA	J R UNDERWOOD	HQ	R J GREENBERG	NAGW 1029	1430
32	UNIV OF ARIZONA	T A MAXWELL	HQ	L A LEBOSKY	NAGW 1146	1432
32	UNIV OF ARIZONA	T A MAXWELL	HQ	L L HOOD	NAGW 1881	1441
32	UNIV OF ARIZONA	J M BOYCE	HQ	R G STROM	NAGW 2021	1447
32	UNIV OF ARIZONA	T A MAXWELL	HQ	E H LEVY	NAGW 2176	1449
32	UNIV OF ARIZONA	H C BRINTON	HQ	A J DESSLER	NAGW 3051	1478
32	UNIV OF ARIZONA	J K ALEXANDER	HQ	C P SONETT	NAGW 3084	1480
32	UNIV OF ARIZONA	H C BRINTON	HQ	M J DRAKE	NAGW 3348	1484
32	UNIV OF ARIZONA	H C BRINTON	HQ	W BOYNTON	NAGW 3373	1486
32	UNIV OF ARIZONA	J M BOYCE	HQ	C C PORCO	NAGW 3411	1491
32	UNIV OF ARIZONA	J T BERGSTRALH	HQ	V R BAKER	NAGW 3515	1494
32	UNIV OF ARIZONA	J T BERGSTRALH	HQ	A M VICKERY	NAGW 3562	1497
32	UNIV OF ARIZONA	J BOYCE	HQ	T SWINDLE	NAGW 3611	1498
32	UNIV OF ARIZONA	J M BOYCE	HQ	A J JULL	NAGW 3614	1499
32	UNIV OF ARIZONA	J M BOYCE	HQ	J GANGULY	NAGW 3638	1502
32	UNIV OF ARIZONA	J T BERGSTRALH	HQ	R G STROM	NAGW 3705	1504
32	UNIV OF ARIZONA	R WILLIAMS	HQ	W BENZ	NAGW 3904	1509
32	UNIV OF ARIZONA	G ASRAR	HQ	C V HAYNES, J.R.	NGT 00-030-173	1546
32	UNIV OF ARIZONA	F C OWENS	HQ	M J DRAKE	NGT 00-050-612	1555
32	U ARKANSAS MAIN-FAYE	I D BROWNE	JSC	D W SEARS	NAG 9-81	1595
32	U ARKANSAS MAIN-FAYE	H C BRINTON	HQ	D SEARS	NAGW 3479	1596
32	U ARKANSAS MAIN-FAYE	H C BRINTON	HQ	D SEARS	NAGW 3519	1597
32	CALIF INST OF TECH	I D BROWNE	JSC	G J WASSERBURG	NAG 9-43	1638
32	CALIF INST OF TECH	J UNDERWOOD	HQ	D J STEVENSON	NAGW 185	1640
32	CALIF INST OF TECH	T A MAXWELL	HQ	T J AHRENS	NAGW 1941	1647

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32	CALIF INST OF TECH	T A MAXWELL	HQ	T J AHRENS	NAGW 1953	1648
32	CALIF INST OF TECH	J M BOYCE	HQ	Y L YUNG	NAGW 2204	1654
32	CALIF INST OF TECH	J M BOYCE	HQ	D O MUHLEMAN	NAGW 3011	1670
32	CALIF INST OF TECH	G C BRINTON	HQ	G J WASSERBURG	NAGW 3297	1677
32	CALIF INST OF TECH	H C BRINTON	HQ	G J WASSERBURG	NAGW 3337	1679
32	CALIF INST OF TECH	J T BERGSTRALH	HQ	D O MUHLEMAN	NAGW 3393	1680
32	CALIF INST OF TECH	J T BERGSTRALH	HQ	D J STEVENSON	NAGW 3491	1681
32	CALIF INST OF TECH	J T BERGSTRALH	HQ	Y L YUNG	NAGW 3507	1682
32	CALIF INST OF TECH	H C BRINTON	HQ	E STOLPER	NAGW 3533	1683
32	CALIF INST OF TECH	H C BRINTON	HQ	D S BURNETT	NAGW 3534	1684
32	CALIF INST OF TECH	H C BRINTON	HQ	D S BURNETT	NAGW 3592	1685
32	CALIF INST OF TECH	J BOYCE	HQ	S EPSTEIN	NAGW 3883	1686
32	CALIF INST OF TECH	G RIEGLER	HQ	T T HAMILTON	NAGW 4721	1703
32	CALIF INST OF TECH	M BALTUCK	HQ	H TAYLOR	NGT 00-030-255	1713
32	SAN FRAN STATE UNIV	J PLESCIA	HQ	T ROUSH	NAGW 2212	1810
32	SAN JOSE STATE UNIV	J M BOYCE	HQ	E A MAROUF	NAGW 3656	1826
32	SAN JOSE STATE UNIV	M FONDA	ARC	E METZGER	NCC 2-5047	1853
32	SAN JOSE STATE UNIV	D R KOJIRO	ARC	E METZGER	NCC 2-5135	1868
32	STANFORD UNIVERSITY	T A MAXWELL	HQ	G L TYLER	NAGW 2140	1926
32	STANFORD UNIVERSITY	J BOYCE	HQ	R ZARE	NAGW 3629	1937
32	STANFORD UNIVERSITY	J T BERGSTRALH	HQ	G L TYLER	NAGW 3702	1938
32	STANFORD UNIVERSITY	D J DES MARAIS	ARC	D R LOWE	NCC 2-721	1967
32	STANFORD UNIVERSITY	D HOLLAND	HQ	J OLIGER	NGT 00-051-285	2020
32	UNIV CALIF-BERKELEY	J UNDERWOOD	HQ	R JEANLOZ	NAGW 604	2105
32	UNIV CALIF-BERKELEY	J M BOYCE	HQ	W ALVAREZ	NAGW 3008	2130
32	UNIV CALIF-BERKELEY	J BOYCE	HQ	K NISHIIZUMI	NAGW 3514	2137
32	UNIV CALIF-BERKELEY	G ASRAR	HQ	D E GRANGER	NGT 00-030-105	2204
32	UNIV CALIF-BERKELEY	G ASRAR	HQ	W ALVAREZ	NGT 00-030-191	2208
32	UNIV CALIF-BERKELEY	M BALTUCK	HQ	J KIRCHNER	NGT 00-030-327	2215
32	UNIV CALIF-DAVIS	H V FREY	GSFC	J MINSTER	NAG 5-3001	2262
32	UNIV CALIF-DAVIS	T BRAKKE	GSFC	S USTIN	NAS 5-31714	2274
32	UNIV CALIF-L ANGELES	L S WALTER	GSFC	R P TURCO	NAG 5-1845	2389
32	UNIV CALIF-L ANGELES	J M BOYCE	HQ	D A PAIGE	NAGW 2063	2412
32	UNIV CALIF-L ANGELES	T A MAXWELL	HQ	W H KAULA	NAGW 2085	2413
32	UNIV CALIF-L ANGELES	T A MAXWELL	HQ	G SCHUBERT	NAGW 2086	2414
32	UNIV CALIF-L ANGELES	J D RUMNEL	HQ	J W SCHOPF	NAGW 2147	2415
32	UNIV CALIF-L ANGELES	T A MAXWELL	HQ	D A PAIGE	NAGW 2226	2416
32	UNIV CALIF-L ANGELES	A J ANDERSON	HQ	P ROBERTS	NAGW 2546	2421
32	UNIV CALIF-L ANGELES	M BALTUCK	HQ	G SCHUBERT	NAGW 2646	2425
32	UNIV CALIF-L ANGELES	R E MURPHY	HQ	W M KAULA	NAGW 2997	2430
32	UNIV CALIF-L ANGELES	R E MURPHY	HQ	P BIRD	NAGW 3042	2431
32	UNIV CALIF-L ANGELES	H C BRINTON	HQ	P H WARREN	NAGW 3308	2436
32	UNIV CALIF-L ANGELES	J T BERGSTRALH	HQ	D L BINDSCHADLER	NAGW 3484	2442
32	UNIV CALIF-L ANGELES	J BOYCE	HQ	J WASSON	NAGW 3535	2445
32	UNIV CALIF-L ANGELES	J T BERGSTRALH	HQ	G SCHUBERT	NAGW 3546	2446
32	UNIV CALIF-L ANGELES	M BALTUCK	HQ	J VILLASENOR	NAGW 3829	2451
32	UNIV CALIF-L ANGELES	P ROGERS	HQ	K D MCKEEGAN	NAGW 4112	2459
32	UNIV CALIF-L ANGELES	H BRINTON	HQ	D PAIGE	NAGW 4327	2465
32	UNIV CALIF-L ANGELES	C HIX	JPL	D A PAUGE	NGT 00-051-273	2494
32	UNIV CALIF-SAN DIEGO	B A WIELICKI	LARC	V RAMANATHAN	NAG 1-1259	2512
32	UNIV CALIF-SAN DIEGO	B G BILLS	GSFC	J B MINSTER	NAG 5-1910	2531
32	UNIV CALIF-SAN DIEGO	B G BILLS	GSFC	F N SPIESS	NAG 5-1914	2532
32	UNIV CALIF-SAN DIEGO	B G BILLS	GSFC	Y BOCK	NAG 5-1917	2533
32	UNIV CALIF-SAN DIEGO	B G BILLS	GSFC	D C AGNEW	NAG 5-1932	2534
32	UNIV CALIF-SAN DIEGO	P T TAYLOR	GSFC	G E BACKUS	NAG 5-2967	2549
32	UNIV CALIF-SAN DIEGO	P TAYLOR	GSFC	C CONSTABLE	NAG 5-2968	2550
32	UNIV CALIF-SAN DIEGO	I D BROWNE	JSC	G W LUGMAIR	NAG 9-49	2555
32	UNIV CALIF-SAN DIEGO	A J ANDERSON	HQ	C CONSTABLE	NAGW 2966	2579
32	UNIV CALIF-SAN DIEGO	R E MURPHY	HQ	G BACKUS	NAGW 2967	2580
32	UNIV CALIF-SAN DIEGO	R E MURPHY	HQ	D T SANDWELL	NAGW 3035	2582

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32	UNIV CALIF-SAN DIEGO	H C BRINTON	HQ	G W LUGMAIR	NAGW 3285	2585
32	UNIV CALIF-SAN DIEGO	H C BRINTON	HQ	K MARTI	NAGW 3428	2586
32	UNIV CALIF-SAN DIEGO	J T BERGSTRALH	HQ	D T SANDWELL	NAGW 3503	2588
32	UNIV CALIF-SAN DIEGO	J BOYCE	HQ	M THIEMANS	NAGW 3551	2589
32	UNIV CALIF-SAN DIEGO	M BALTUCK	HQ	C CONSTABLE	NAGW 3932	2592
32	UNIV CALIF-S BARBARA	J D RUMMEL	HQ	S M AWRAMIK	NAGW 1948	2657
32	UNIV CALIF-S BARBARA	T BRAKKE	GSFC	D DOZLER	NAS 5-31710	2674
32	UNIV CALIF-S CRUZ	H V FREY	GSFC	S N WARD	NAG 5-750	2690
32	UNIV CALIF-S CRUZ	H V FREY	GSFC	R ANDERSON	NAG 5-3005	2697
32	UNIV CALIF-S CRUZ	J R UNDERWOOD	HQ	F BRIDGES	NAGW 590	2702
32	UNIV CALIF-S CRUZ	A NOVOTNY	HQ	R S ANDERSON	NGT 00-051-220	2723
32	UNIV OF SOUTHERN CAL	T A MAXWELL	HQ	D S GORSLINE	NAGW 2235	2748
32	UNIV OF SOUTHERN CAL	J M BOYCE	HQ	D S GORSLINE	NAGW 2902	2750
32	UNIV OF SOUTHERN CAL	J T BERGSTRALH	HQ	C G SAMMIS	NAGW 3547	2755
32	UNIV OF SOUTHERN CAL	M BALTUCK	HQ	D BURBANK	NAGW 3762	2757
32	COLORADO STATE UNIV	G ASRAR	HQ	C A DEMOTT	NGT 00-030-099	2820
32	COLORADO STATE UNIV	G ASRAR	HQ	T L JENSEN	NGT 00-030-106	2821
32	COLORADO STATE UNIV	G ASRAR	HQ	A S DENNING	NGT 00-030-150	2824
32	UNIV COLORADO-BOLDR	B G BILLS	GSFC	K LARSON	NAG 5-1908	2882
32	UNIV COLORADO-BOLDR	B G BILLS	GSFC	J B RUNDLE	NAG 5-2353	2896
32	UNIV COLORADO-BOLDR	D J HARDING	GSFC	R BILHAM	NAG 5-2584	2911
32	UNIV COLORADO-BOLDR	D J HARDING	GSFC	R BILHAM	NAG 5-3072	2933
32	UNIV COLORADO-BOLDR	J R UNDERWOOD	HQ	B JAKOSKY	NAGW 771	2955
32	UNIV COLORADO-BOLDR	T A MAXWELL	HQ	S W LEE	NAGW 2318	2972
32	UNIV COLORADO-BOLDR	M BALTUCK	HQ	F BAGENAL	NAGW 2651	2978
32	UNIV COLORADO-BOLDR	R E MURPHY	HQ	J M WAHR	NAGW 2985	2990
32	UNIV COLORADO-BOLDR	R E MURPHY	HQ	J M WAHR	NAGW 3034	2993
32	UNIV COLORADO-BOLDR	R WILLIAMS	HQ	G STEWART	NAGW 3961	3016
32	UNIV COLORADO-BOLDR	G ASRAR	HQ	A F GOETZ	NGT 00-030-175	3074
32	FLA INTERNATIONAL U	H V FREY	GSFC	D WHITMAN	NAG 5-3071	3330
32	FLORIDA A&M UNIV	P TAYLOR	GSFC	J CAIN	NAG 5-2970	3347
32	UNIV OF FLORIDA	T A MAXWELL	HQ	S F DERMOTT	NAGW 1923	3476
32	UNIV OF FLORIDA	J BOYCE	HQ	B A GUSTAFSON	NAGW 2775	3480
32	UNIV OF MIAMI	B G BILLS	GSFC	C HARRISON	NAG 5-1945	3524
32	UNIV OF MIAMI	B G BILLS	GSFC	T H DIXON	NAG 5-2207	3525
32	UNIV OF MIAMI	B G BILLS	GSFC	T H DIXON	NAG 5-2208	3526
32	UNIV OF MIAMI	B G BILLS	GSFC	T H DIXON	NAG 5-2209	3527
32	UNIV OF MIAMI	P T TAYLOR	GSFC	C HARRISON	NAG 5-2969	3528
32	UNIV OF MIAMI	H V FREY	GSFC	T DIXON	NAG 5-3036	3529
32	UNIV OF MIAMI	M BALTUCK	HQ	T DIXON	NAGW 3316	3534
32	UNIV OF HAWAII-MANOA	J UNDERWOOD	HQ	B R HAWKE	NAGW 237	3781
32	UNIV OF HAWAII-MANOA	J R UNDERWOOD	HQ	P M MARK	NAGW 437	3782
32	UNIV OF HAWAII-MANOA	J UNDERWOOD JR	HQ	J F BELL	NAGW 712	3783
32	UNIV OF HAWAII-MANOA	T A MAXWELL	HQ	B R HAWKE	NAGW 1053	3787
32	UNIV OF HAWAII-MANOA	M BALTUCK	HQ	P J MARK	NAGW 1162	3788
32	UNIV OF HAWAII-MANOA	T A MAXWELL	HQ	P G LUCEY	NAGW 1421	3789
32	UNIV OF HAWAII-MANOA	T A MAXWELL	HQ	T OWEN	NAGW 2153	3795
32	UNIV OF HAWAII-MANOA	T A MAXWELL	HQ	T B MCCORD	NAGW 2174	3796
32	UNIV OF HAWAII-MANOA	R H THOMAS	HQ	P J MOUGINIS-MARK	NAGW 2521	3799
32	UNIV OF HAWAII-MANOA	J M BOYCE	HQ	P J MARK	NAGW 2955	3803
32	UNIV OF HAWAII-MANOA	R E MURPHY	HQ	D BERCOVICI	NAGW 3015	3804
32	UNIV OF HAWAII-MANOA	J M BOYCE	HQ	T B MCCORD	NAGW 3218	3808
32	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	K KEIL	NAGW 3281	3809
32	UNIV OF HAWAII-MANOA	H C BRINTON	HQ	F P FANALE	NAGW 3294	3810
32	UNIV OF HAWAII-MANOA	J T BERGSTRALH	HQ	P J MOUGINIS-MARK	NAGW 3500	3815
32	UNIV OF HAWAII-MANOA	J T BERGSTRALH	HQ	D BERCOVICI	NAGW 3531	3816
32	UNIV OF HAWAII-MANOA	C PILCHER	HQ	G J TAYLOR	NAGW 3537	3817
32	UNIV OF HAWAII-MANOA	J M BOYCE	HQ	G J TAYLOR	NAGW 3684	3819
32	UNIV OF HAWAII-MANOA	D M BUTLER	HQ	K A HORTON	NGT 00-030-054	3842
32	UNIV OF HAWAII-MANOA	G ASRAR	HQ	J R CHRISTIAN	NGT 00-030-104	3843

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32	UNIV OF HAWAII-MANOA	G ASRAR	HQ	R E HOLASEK	NGT 00-030-137	3844
32	UNIV OF HAWAII-MANOA	J K ALEXANDER	HQ	G J TAYLOR	NGT 00-050-930	3848
32	UNIV OF HAWAII SYSTM	H F FREY	GSFC	P J MOUGINIS-MARK	NAG 5-3000	3857
32	NORTHWESTERN UNIV	B G BILLS	GSFC	R G GORDON	NAG 5-1944	3896
32	NORTHWESTERN UNIV	B G BILLS	GSFC	S A STEIN	NAG 5-2003	3897
32	NORTHWESTERN UNIV	B G BILLS	GSFC	S STEIN	NAG 5-2431	3899
32	NORTHWESTERN UNIV	J T BERGSTRALH	HQ	D M JURDY	NAGW 3693	3915
32	SO ILL UNIV-CARBONDL	P TAYLOR	GSFC	D N RAVAT	NCC 5-70	3933
32	UNIV OF CHICAGO	J D RUMMEL	HQ	D M RAUP	NAGW 1508	3972
32	UNIV OF CHICAGO	M MEYER	HQ	D M RAUP	NAGW 1527	3973
32	UNIV OF CHICAGO	J D RUMMEL	HQ	J J SEPKOSKI	NAGW 1693	3976
32	UNIV OF CHICAGO	P R MAHAFFY	HQ	T ECONOMU	NAGW 1847	3977
32	UNIV OF CHICAGO	H C BRINTON	HQ	L GROSSMAN	NAGW 3340	3992
32	UNIV OF CHICAGO	H C BRINTON	HQ	R LEWIS	NAGW 3342	3993
32	UNIV OF CHICAGO	H C BRINTON	HQ	A DAVIS	NAGW 3384	3995
32	UNIV OF CHICAGO	H C BRINTON	HQ	I STEELE	NAGW 3416	3996
32	UNIV OF CHICAGO	J BOYCE	HQ	S SUTTON	NAGW 3651	3998
32	UNIV ILLINOIS-URBANA	J T BERGSTRALH	HQ	A T HSUI	NAGW 3541	4093
32	INDIANA ST UNIV	B G BILLS	GSFC	S DE SILVA	NAG 5-1734	4129
32	IND U-PURDUE-INDAPLS	G ANZIC	LERC	G D ROSENBERG	NAG 3-1657	4133
32	INDIANA U-BLOOMINGTN	J D RUMMEL	HQ	J M HAYES	NAGW 1940	4139
32	INDIANA U-BLOOMINGTN	H C BRINTON	HQ	A BASU	NAGW 3404	4142
32	INDIANA U-BLOOMINGTN	H BRINTON	HQ	R DURISEN	NAGW 4587	4144
32	INDIANA U-BLOOMINGTN	G ASRAR	HQ	K L LECKRONE	NGT 00-030-125	4148
32	PURDUE UNIVERSITY	J BOYCE	HQ	M LIPSCHUTZ	NAGW 3460	4194
32	EMPORIA STATE UNIV	F SIX	MSFC	J S ABER	NAG 8-215	4349
32	KANSAS STATE UNIV	D H SCOTT	HQ	J R UNDERWOOD	NAGW 1111	4354
32	UNIV OF KANSAS	G ASRAR	HQ	A F ARBOGAST	NGT 00-030-140	4381
32	LA ST U&A&M COL-BRGE	M BALTUCK	HQ	O HUH	NAGW 2052	4431
32	LA ST U&A&M COL-BRGE	B SWINFORD	MSFC	N LAM	NGT 00-051-183	4448
32	JOHNS HOPKINS UNIV	D E SMITH	GSFC	M T ZUBER	NAG 5-2222	4546
32	JOHNS HOPKINS UNIV	S COHEN	GSFC	M T ZUBER	NAG 5-2223	4547
32	JOHNS HOPKINS UNIV	T A MAXWELL	HQ	J W SALISBURY	NAGW 1885	4571
32	JOHNS HOPKINS UNIV	J M BOYCE	HQ	M T ZUBER	NAGW 3394	4595
32	JOHNS HOPKINS UNIV	J T BERGSTRALH	HQ	M T ZUBER	NAGW 3697	4598
32	JOHNS HOPKINS UNIV	J T LYNCH	HQ	M T ZUBER	NGT 00-050-587	4633
32	UNIV MARYLAND-COL PK	L S WALTER	GSFC	G J BLUTH	NAG 5-2406	4721
32	UNIV MARYLAND-COL PK	J T BERGSTRALH	HQ	M J A'HEARN	NAGW 1813	4756
32	UNIV MARYLAND-COL PK	J M BOYCE	HQ	M W SCHAEFER	NAGW 3588	4780
32	UNIV MARYLAND-COL PK	J BOYCE	HQ	R WALKER	NAGW 3625	4783
32	UNIV MARYLAND-COL PK	J B GARVIN	GSFC	C C SCHNETZLER	NCC 5-58	4834
32	HARVARD UNIVERSITY	P TAYLOR	GSFC	J BLOXAM	NAG 5-2971	4974
32	HARVARD UNIVERSITY	J D RUMMEL	HQ	A D HOLLAND	NAGW 599	4978
32	HARVARD UNIVERSITY	J D RUMMEL	HQ	A H KNOLL	NAGW 893	4980
32	HARVARD UNIVERSITY	J M BOYCE	HQ	A G CAMERON	NAGW 1598	4983
32	HARVARD UNIVERSITY	R E MURPHY	HQ	R J O'CONNELL	NAGW 3000	4990
32	HARVARD UNIVERSITY	B F CHAO	HQ	J BLOXHAM	NAGW 3467	4993
32	HARVARD UNIVERSITY	J BOYCE	HQ	C AGEE	NAGW 3996	4994
32	HARVARD UNIVERSITY	M BALTUCK	HQ	S B JACOBSEN	NGT 00-030-256	5016
32	MASS INST OF TECH	B G BILLS	GSFC	T H JORDAN	NAG 5-1905	5097
32	MASS INST OF TECH	B G BILLS	GSFC	A E ROGERS	NAG 5-1906	5098
32	MASS INST OF TECH	B G BILLS	GSFC	B H HAGER	NAG 5-1911	5099
32	MASS INST OF TECH	B G BILLS	GSFC	M MCNUTT	NAG 5-2928	5126
32	MASS INST OF TECH	I D BROWNE	JSC	T L GROVE	NAG 9-302	5142
32	MASS INST OF TECH	J R UNDERWOOD	HQ	J WISDOM	NAGW 706	5150
32	MASS INST OF TECH	T A MAXWELL	HQ	R BURNS	NAGW 2049	5168
32	MASS INST OF TECH	M BALTUCK	HQ	B G BURCHFIEL	NAGW 2155	5170
32	MASS INST OF TECH	T A MAXWELL	HQ	B H HAGER	NAGW 2161	5171
32	MASS INST OF TECH	J D RUMMEL	HQ	J P GROTZINGER	NAGW 2795	5179
32	MASS INST OF TECH	R E MURPHY	HQ	T A HERRING	NAGW 3007	5183

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32	MASS INST OF TECH	J BOYCE	HQ	T GROVE	NAGW 3586	5188
32	MASS INST OF TECH	J BOYCE	HQ	R PRINN	NAGW 3608	5189
32	MASS INST OF TECH	J T BERGSTRALH	HQ	P G FORD	NAGW 3787	5190
32	MASS INST OF TECH	W T WILDES	GSFC	A E ROGERS	NAS 5-30543	5214
32	MASS INST OF TECH	E KREINS	GSFC	D H STACLIN	NAS 5-31376	5217
32	MASS INST OF TECH	B WILDES	GSFC	A R WHITNEY	NAS 5-31728	5219
32	MASS INST OF TECH	W WILDES	GSFC	A NEILL	NAS 5-32353	5220
32	UNIV OF MASS-AMHERST	D G SICKOREZ	JSC	K A COVEY	NAG 9-848	5294
32	UNIV OF MASS-AMHERST	J D RUMMEL	HQ	W M IRVINE	NAGW 436	5295
32	UNIV OF MASS-AMHERST	T A MAXWELL	HQ	G E MCGILL	NAGW 1965	5300
32	UNIV OF MASS-AMHERST	J T BERGSTRALH	HQ	G E MCGILL	NAGW 3532	5303
32	UNIV OF MASS-AMHERST	H BRINTON	HQ	G MCGILL	NAGW 4263	5306
32	WELLESLEY COLLEGE	J UNDERWOOD	HQ	R G FRENCH	NAGW 1368	5318
32	MICHIGAN TECH UNIV	L S WALTER	GSFC	W I ROSE	NAG 5-1838	5363
32	MICHIGAN TECH UNIV	G ASRAR	HQ	W I ROSE	NGT 00-030-174	5371
32	U MINN-MNPLS-ST PAUL	M BALTUCK	HQ	D A YUEN	NAGW 1957	5560
32	U MINN-MNPLS-ST PAUL	J M BOYCE	HQ	D L KOHISTEDT	NAGW 3102	5568
32	U MINN-MNPLS-ST PAUL	J BOYCE	HQ	A NIER	NAGW 3610	5572
32	UNIV MO-COLUMBIA	B G BILLS	GSFC	J ENGEL	NAG 5-2425	5668
32	UNIV MO-COLUMBIA	M BALTUCK	HQ	J F ENGEH	NAGW 3302	5671
32	WASHINGTON UNIVERSTY	J UNDERWOOD	HQ	W B MCKINNON	NAGW 432	5702
32	WASHINGTON UNIVERSTY	M BALTUCK	HQ	R E ARVIDSON	NAGW 1358	5703
32	WASHINGTON UNIVERSTY	T A MAXWELL	HQ	R E ARVIDSON	NAGW 1872	5704
32	WASHINGTON UNIVERSTY	R WILLIAMS	HQ	R J PHILLIPS	NAGW 3024	5713
32	WASHINGTON UNIVERSTY	H C BRINTON	HQ	L A HASKIN	NAGW 3343	5716
32	WASHINGTON UNIVERSTY	H C BRINTON	HQ	C M HOHENBERG	NAGW 3344	5717
32	WASHINGTON UNIVERSTY	J BOYCE	HQ	R M WALKER	NAGW 3371	5718
32	WASHINGTON UNIVERSTY	J T BERGSTRAHL	HQ	R E ARVIDSON	NAGW 3419	5719
32	WASHINGTON UNIVERSTY	J T BERGSTRALH	HQ	B FEAKY	NAGW 3446	5721
32	WASHINGTON UNIVERSTY	J T BERGSTRALH	HQ	W B MCKINNON	NAGW 3552	5722
32	WASHINGTON UNIVERSTY	J BOYCE	HQ	F PODESEK	NAGW 3634	5723
32	WASHINGTON UNIVERSTY	J T BERGSTRALH	HQ	R J PHILLIPS	NAGW 3701	5724
32	MONTANA STATE UNIV	E PRIOR	LARC	J P WILSON	NGT 00-051-196	5748
32	UNIV OF MONTANA	F SIX	MSFC	N W HINMAN	NAG 8-235	5755
32	UNIV NEVADA-DRI	C P MCKAY	ARC	R A WHARTON JR.	NCC 2-5146	5798
32	UNIV OF NEVADA-RENO	R WILLIAMS	HQ	R A SCHULTZ	NAGW 4151	5805
32	DARTMOUTH COLLEGE	M BALTUCK	HQ	R BRAKENRIDGE	NAGW 3227	5823
32	DARTMOUTH COLLEGE	J T BERGSTRALH	HQ	G R BRAKENRIDGE	NAGW 3506	5824
32	DARTMOUTH COLLEGE	R WILLIAMS	HQ	G R BRAKENRIDGE	NAGW 4003	5827
32	UNIV NEW HAMP-DURHAM	D L WILLIAMS	GSFC	B N ROCK	NCC 5-56	5899
32	PRINCETON UNIVERSITY	B G BILLS	GSFC	W J MORGAN	NAG 5-1940	5934
32	PRINCETON UNIVERSITY	J M BOYCE	HQ	A M RUBIN	NAGW 3589	5964
32	PRINCETON UNIVERSITY	J T BERGSTRALH	HQ	J SUPPE	NAGW 3706	5965
32	RUTGERS ST U-PISCTWY	J BOYCE	HQ	G F HERZOG	NAGW 3499	5993
32	RUTGERS ST U-PISCTWY	RAHE	HQ	J DELANEY	NAGW 3649	5995
32	RUTGERS ST U-N BRNSK	I D BROWNE	JSC	J S DELANEY	NAG 9-304	6005
32	RUTGERS ST U-N BRNSK	F C OWENS	HQ	R H HEWINS	NGT 00-050-836	6011
32	UNIV OF NEW MEXICO	H C BRINTON	HQ	J J PAPIKE	NAGW 3347	6082
32	UNIV OF NEW MEXICO	J BOYCE	HQ	F RIETMEIJER	NAGW 3626	6083
32	UNIV OF NEW MEXICO	F C OWENS	HQ	J J PAPIKE	NGT 00-070-223	6090
32	COLUMBIA UNIVERSITY	B G BILLS	GSFC	J BEAVAN	NAG 5-1948	6144
32	COLUMBIA UNIVERSITY	B G BILLS	GSFC	J BEAVAN	NAG 5-1949	6145
32	COLUMBIA UNIVERSITY	H V FREY	GSFC	J WEISSEL	NAG 5-2987	6165
32	COLUMBIA UNIVERSITY	H C BRINTON	HQ	J LONGHI	NAGW 3407	6186
32	COLUMBIA UNIVERSITY	H C BRINTON	HQ	J LONGHI	NAGW 3434	6187
32	COLUMBIA UNIVERSITY	B A CARLSON	GSFC	G J KUKLA	NCC 5-72	6203
32	COLUMBIA UNIVERSITY	G ASRAR	HQ	W S BROECKER	NGT 00-030-171	6208
32	CORNELL UNIVERSITY	J UNDERWOOD	HQ	J A BURNS	NAGW 310	6261
32	CORNELL UNIVERSITY	J R UNDERWOOD	HQ	P D NICHOLSON	NAGW 544	6263
32	CORNELL UNIVERSITY	J UNDERWOOD	HQ	S SQUYRES	NAGW 1023	6265

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32	CORNELL UNIVERSITY	J R UNDERWOOD	HQ	D L TURCOTTE	NAGW 1420	6266
32	CORNELL UNIVERSITY	T A MAXWELL	HQ	C SAGAN	NAGW 1870	6268
32	CORNELL UNIVERSITY	T A MAXWELL	HQ	J VEVERKA	NAGW 2084	6272
32	CORNELL UNIVERSITY	T A MAXWELL	HQ	J VEVERKA	NAGW 2149	6273
32	CORNELL UNIVERSITY	T A MAXWELL	HQ	J VEVERKA	NAGW 2186	6274
32	CORNELL UNIVERSITY	H C BRINTON	HQ	P C THOMAS	NAGW 3275	6286
32	CORNELL UNIVERSITY	P ROGERS	HQ	S W SQUYRES	NAGW 3487	6290
32	CORNELL UNIVERSITY	J T BERGSTRALH	HQ	D L TURCOTTE	NAGW 3597	6292
32	CORNELL UNIVERSITY	R WILLIAMS	HQ	D CAMPBELL	NAGW 3985	6295
32	CORNELL UNIVERSITY	F C OWENS	HQ	T JORDAN	NGT 00-050-852	6312
32	CORNELL UNIVERSITY	A NOROTNY	HQ	B L ISACKS	NGT 00-051-223	6318
32	HUNTER COLLEGE	L GAYDOS	ARC	K C CLARKE	NCC 2-5091	6330
32	NEW YORK UNIVERSITY	J T BERGSTRALH	HQ	C STEWART	NAGW 3675	6350
32	RENSSELAER POLY-NY	J R UNDERWOOD	HQ	M J GAFFEY	NAGW 642	6380
32	STATE UNIV NY-ALBANY	J C DODGE	HQ	J SCHWAB	NAGW 2978	6420
32	STATE UNIV NY-ALBANY	H C BRINTON	HQ	J DELANO	NAGW 3357	6421
32	STATE U NY-BINGHAMTN	R E MURPHY	HQ	S R DICKMAN	NAGW 3003	6434
32	STATE UNIV NY-BUFFAL	G BILLS	GSFC	BURSIK	NAG 5-2273	6445
32	STATE U NY-STONY BRK	J R UNDERWOOD	HQ	J LISSAUER	NAGW 1107	6468
32	STATE U NY-STONY BRK	J M BOYCE	HQ	J L FOX	NAGW 2238	6474
32	STATE U NY-STONY BRK	J T BERGSTRALH	HQ	J L FOX	NAGW 3731	6481
32	ST U NY COL-PLATTSBG	J BOYCE	HQ	G FLYNN	NAGW 3587	6497
32	ST U NY COL-BUFFALO	T A MAXWELL	HQ	J S KING	NAGW 2259	6500
32	ST U NY COL-BUFFALO	D K RUSSELL	HQ	M F SHERIDAN	NGT 00-070-410	6501
32	OHIO STATE UNIV	P TAYLOR	GSFC	R VON FRESE	NAG 5-2996	6925
32	UNIV OF CINCINNATI	J D RUMMEL	HQ	A MILLER	NAGW 3307	7040
32	UNIV OKLAHOMA-NORMAN	H C BRINTON	HQ	S POSTAWKO	NAGW 3031	7139
32	OREGON STATE UNIV	D ADAMEC	HQ	M H FREILICH	NAGW 3062	7167
32	OREGON STATE UNIV	J M BOYCE	HQ	P D KOMAR	NAGW 3217	7168
32	OREGON STATE UNIV	H C BRINTON	HQ	R A SCHMITT	NAGW 3545	7171
32	OREGON STATE UNIV	F C OWENS	HQ	M ABBOTT	NGT 00-070-193	7196
32	UNIV OREGON-EUGENE	B G BILLS	GSFC	E D HUMPHREYS	NAG 5-1903	7202
32	BUCKNELL UNIVERSITY	J M BOYCE	HQ	D J LIEN	NAGW 3377	7212
32	LAFAYETTE COLLEGE	J BOYCE	HQ	D HOGENBLOOM	NAGW 3521	7263
32	LEHIGH UNIVERSITY	H C BRINTON	HQ	J I GOLDSTEIN	NAGW 3374	7269
32	PENN STATE U-UNIV PK	B G BILLS	GSFC	K P FURLONG	NAG 5-1909	7323
32	PENN STATE U-UNIV PK	J M BOYCE	HQ	S J MACKWELL	NAGW 3372	7373
32	PENN STATE U-UNIV PK	H BRINTON	HQ	S MACKWELL	NAGW 4520	7384
32	PENN STATE U-UNIV PK	G ASRAR	HQ	G E TUCKER	NGT 00-030-122	7407
32	UNIV OF PENNSYLVANIA	J BOYCE	HQ	R MIDDLETON	NAGW 3616	7441
32	UNIV OF PITTSBURGH	T A MAXWELL	HQ	B HAPKE	NAGW 2060	7468
32	UNIV OF PITTSBURGH	R J WILLIAMS	HQ	D CROWN	NAGW 3842	7472
32	UNIV OF PITTSBURGH	P ROGERS	HQ	D A CROWN	NAGW 4186	7473
32	BROWN UNIVERSITY	J UNDERWOOD	HQ	C M PIETERS	NAGW 28	7501
32	BROWN UNIVERSITY	J R UNDERWOOD	HQ	J W HEAD	NAGW 137	7502
32	BROWN UNIVERSITY	J R UNDERWOOD	HQ	P H SCHULTZ	NAGW 705	7503
32	BROWN UNIVERSITY	J R UNDERWOOD	HQ	J W HEAD	NAGW 713	7504
32	BROWN UNIVERSITY	J R UNDERWOOD	HQ	C M PIETERS	NAGW 748	7505
32	BROWN UNIVERSITY	J R UNDERWOOD	HQ	P H SCHULTZ	NAGW 855	7506
32	BROWN UNIVERSITY	T A MAXWELL	HQ	J W HEAD	NAGW 1873	7507
32	BROWN UNIVERSITY	T A MAXWELL	HQ	E M PARMENTIER	NAGW 1928	7508
32	BROWN UNIVERSITY	T A MAXWELL	HQ	J W HEAD	NAGW 2185	7509
32	BROWN UNIVERSITY	J M BOYCE	HQ	J F MUSTARD	NAGW 3379	7514
32	BROWN UNIVERSITY	J M BOYCE	HQ	L S CRUMPLER	NAGW 3412	7515
32	BROWN UNIVERSITY	J T BERGSTRALH	HQ	J C AUBELE	NAGW 3486	7517
32	BROWN UNIVERSITY	J T BERGSTRALH	HQ	P C HESS	NAGW 3488	7518
32	BROWN UNIVERSITY	RAHE	HQ	P HESS	NAGW 3613	7519
32	BROWN UNIVERSITY	J BOYCE	HQ	M RUTHERFORD	NAGW 3633	7520
32	BROWN UNIVERSITY	RAHE	HQ	C PIETERS	NAGW 3709	7521
32	BROWN UNIVERSITY	J T BERGSTRALH	HQ	J W HEAD	NAGW 3773	7523

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32	BROWN UNIVERSITY	J T BERGSTRALH	HQ	A BASILEVSKY	NAGW 3803	7524
32	BROWN UNIVERSITY	F C OWENS	HQ	C M PIETERS	NGT 00-050-795	7531
32	BROWN UNIVERSITY	J ALEXANDER	HQ	M J RUTHERFORD	NGT 00-050-917	7532
32	BROWN UNIVERSITY	J ALEXANDER	HQ	M J RUTHERFORD	NGT 00-050-922	7533
32	BROWN UNIVERSITY	D HOLLAND	HQ	P H SCHULTZ	NGT 00-051-058	7536
32	BROWN UNIVERSITY	G A LESANE	HQ	P C HESS	NGT 00-051-350	7539
32	BROWN UNIVERSITY	J K ALEXANDER	HQ	P C HESS	NGT 00-070-285	7540
32	BROWN UNIVERSITY	D K RUSSELL	HQ	J HEAD	NGT 00-070-326	7541
32	BROWN UNIVERSITY	D RUSSELL	HQ	D TARGAN	NGT 00-090-234	7543
32	UNIV OF RHODE ISLAND	J BOYCE	HQ	H SUGURDSSON	NAGW 3496	7554
32	CLEMSON UNIV-CLEMSON	H C BRINTON	HQ	D D CLAYTON	NAGW 3277	7580
32	CLEMSON UNIV-CLEMSON	J BOYCE	HQ	B MEYER	NAGW 3480	7581
32	COLLEGE OF CHARLESTN	G A SOFFEN	GSFC	M W COLGAN	NAG 5-1634	7597
32	COLLEGE OF CHARLESTN	D SICKOREZ	SSC	D R COOMBS	NAG 9-846	7598
32	U. OF S.C.- COLUMBIA	J BOYCE	HQ	J SHERVAIS	NAGW 3637	7610
32	MIDDLE TENN ST UNIV	D SIX	MSFC	D HEFFINGTON	NAG 8-1211	7646
32	UNIVRSITY OF MEMPHIS	H V FREY	GSFC	M ELLIS	NAG 5-2995	7670
32	UNIVRSITY OF MEMPHIS	M BALTUCK	HQ	M A ELLIS	NAGW 3338	7671
32	UNIV TENNESSEE-KNOXV	D S MCKAY	JSC	L A TAYLOR	NAG 9-409	7685
32	UNIV TENNESSEE-KNOXV	H C BRINTON	HQ	L TAYLOR	NAGW 3453	7691
32	UNIV TENNESSEE-KNOXV	S GOLDSTEIN	JSC	H V MCSWEEN	NGT 00-050-870	7699
32	UNIV TENNESSEE-KNOXV	S GOLDSTEIN	JSC	L A TAYLOR	NGT 00-051-052	7703
32	RICE UNIVERSITY	D HOLLAND	HQ	D HEYMANN	NGT 00-051-376	7835
32	SOUTHERN METHODIST U	J M BOYCE	HQ	V L HANSEN	NAGW 2915	7843
32	TEXAS A&M UNIVERSITY	R WILLIAMS	HQ	K H PRICE	NAGW 3963	7912
32	UNIV HOUSTON	I D BROWNE	JSC	A M REID	NAG 9-365	7971
32	UNIV HOUSTON	F HORZ	JSC	A REID	NAG 9-632	7977
32	UNIV HOUSTON	J BOYCE	HQ	A REID	NAGW 3623	7996
32	UNIV TEXAS-AUSTIN	B G BILLS	GSFC	C R WILSON	NAG 5-1929	8078
32	UNIV TEXAS-AUSTIN	B G BILLS	GSFC	R E SCHUTZ	NAG 5-1936	8079
32	UNIV TEXAS-AUSTIN	B G BILLS	GSFC	B TAPLEY	NAG 5-1939	8080
32	UNIV TEXAS-AUSTIN	R E MURPHY	HQ	B D TAPLEY	NAGW 3119	8134
32	UNIV TEXAS-AUSTIN	J T BERGSTRALH	HQ	C K SHUM	NAGW 3505	8137
32	UNIV TEXAS-AUSTIN	M BALTUCK	HQ	B TAPLEY	NAGW 4076	8144
32	UNIV TEXAS-AUSTIN	J F MCGARRY	GSFC	P J SHELUS	NAS 5-30942	8156
32	UNIV TEXAS-EL PASO	D K RUSSELL	HQ	K MARSAGLIA	NGT 00-070-350	8222
32	UNIV OF UTAH	B G BILLS	GSFC	D R CURREY	NAG 5-1822	8256
32	UNIV OF UTAH	B G BILLS	GSFC	D CURREY	NAG 5-2055	8257
32	UNIV OF VIRGINIA	T A MAXWELL	HQ	A D HOWARD	NAGW 1926	8528
32	UNIV OF VIRGINIA	T A MAXWELL	HQ	A D HOWARD	NAGW 2282	8529
32	UNIV OF VIRGINIA	H BRINTON	HQ	A HOWARD	NAGW 4294	8542
32	CENTRAL WASHINGTON U	G BILLS	GSFC	M RUBIN	NAG 5-2270	8698
32	CENTRAL WASHINGTON U	G BILLS	GSFC	M MILLER	NAG 5-2271	8699
32	CENTRAL WASHINGTON U	B G BILLS	GSFC	M MILLER	NAG 5-2908	8700
32	CENTRAL WASHINGTON U	M BALTUCK	HQ	M M MILLER	NAGW 3464	8701
32	CENTRAL WASHINGTON U	M BALTUCK	HQ	C RUBIN	NAGW 3691	8702
32	CENTRAL WASHINGTON U	M BALTUCK	HQ	M MILLER	NAGW 3826	8703
32	CENTRAL WASHINGTON U	M BALTUCK	HQ	C RUBIN	NAGW 4282	8704
32	UNIV OF WASHINGTON	L S WALTER	GSFC	A R GILLESPIE	NAG 5-1847	8727
32	UNIV OF WASHINGTON	I D BROWNE	JSC	I S MCCALLUM	NAG 9-84	8748
32	UNIV OF WASHINGTON	T A MAXWELL	HQ	J B ADAMS	NAGW 2275	8762
32	UNIV OF WASHINGTON	H C BRINTON	HQ	D B BROWNLEE	NAGW 3287	8780
32	UNIV OF WASHINGTON	H C BRINTON	HQ	I S MCCALLUS	NAGW 3352	8781
32	UNIV OF WASHINGTON	J S THEON	HQ	W J PLANT	NAGW 3527	8784
32	UNIV OF WASHINGTON	M BALTUCK	HQ	S C PORTER	NGT 00-030-246	8835
32	UNIV OF WASHINGTON	A GHASSEM	HQ	T DUNNE	NGT 00-030-338	8840
32	UNIV WISC-MADISON	M BALTUCK	HQ	W P MENZEL	NAGW 3318	8999
32	UNIV WISC-MADISON	H M GOODMAN	MSFC	D L SMITH	NAS 8-38499	9036
32	UNIV BRITISH COLUMBA	J M BOYCE	HQ	S W KIEFFER	NAGW 3792	9126
33	UNIV ALASKA-FAIRBNKS	R H THOMAS	HQ	H J NIEBAUER	NAGW 2637	1252

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33	UNIV ALASKA-FAIRBNKS	R A SCHIFFER	HQ	Z KOWALIK	NAGW 2972	1257
33	UNIV ALASKA-FAIRBNKS	D M BUTLER	HQ	W MASLOWSKI	NGT 00-030-088	1274
33	UNIV OF ARIZONA	D E WICKLAND	HQ	P N SLATER	NAGW 3543	1495
33	CALIF INST OF TECH	D M BUTLER	HQ	S O PEHKONEN	NGT 00-030-075	1712
33	SAN DIEGO STATE UNIV	M R LEWIS	HQ	C C TREES	NAGW 2154	1800
33	SAN DIEGO STATE UNIV	C MCCLAIN	GSFC	J L MUELLER	NAS 5-31753	1804
33	SAN JOSE STATE UNIV	C MCCLAIN	GSFC	W BROENKOW	NAS 5-31746	1828
33	STANFORD UNIVERSITY	J S THEON	HQ	U S INAN	NGT 00-030-281	2010
33	UNIV CALIF-SAN DIEGO	S R LONG	GSFC	B JAEHNE	NAG 5-5025	2552
33	UNIV CALIF-SAN DIEGO	F SIX	MSFC	A STURZ	NAG 8-1120	2553
33	UNIV CALIF-SAN DIEGO	B G MITCHELL	HQ	R FROUIN	NAGW 2774	2575
33	UNIV CALIF-SAN DIEGO	J S THEON	HQ	W K MELVILLE	NAGW 2946	2577
33	UNIV CALIF-SAN DIEGO	J C DODGE	HQ	J J SIMPSON	NAGW 2964	2578
33	UNIV CALIF-SAN DIEGO	R E MURPHY	HQ	P NIILER	NAGW 3128	2584
33	UNIV CALIF-SAN DIEGO	M BALTUCK	HQ	R FROUIN	NAGW 3498	2587
33	UNIV CALIF-SAN DIEGO	D E WICKLAND	HQ	M VERNET	NAGW 3795	2590
33	UNIV CALIF-SAN DIEGO	R A SCHIFFER	HQ	W COLLINS	NAGW 4777	2605
33	UNIV CALIF-SAN DIEGO	C R MCCLAIN	GSFC	B G MITCHELL	NCC 5-48	2622
33	UNIV CALIF-SAN DIEGO	F C OWENS	HQ	T HAYWARD	NGT 00-050-854	2624
33	UNIV CALIF-S BARBARA	M R LEWIS	HQ	R C SMITH	NAGW 290	2654
33	UNIV CALIF-S BARBARA	R E MURPHY	HQ	D A SIEGEL	NAGW 3145	2664
33	UNIV CALIF-S BARBARA	H OSEROFF	GSFC	Z WAN	NAS 5-31370	2672
33	UNIV CALIF-S BARBARA	C R MCCLAIN	GSFC	D A SIEGEL	NCC 5-49	2677
33	UNIV CALIF-S BARBARA	G ASRAR	HQ	S A GARVER	NGT 00-030-141	2679
33	UNIV CALIF-S BARBARA	G ASRAR	HQ	S GAINES	NGT 00-030-339	2684
33	UNIV OF SOUTHERN CAL	R E MURPHY	HQ	R C DUGDALE	NAGW 3149	2752
33	UNIV OF SOUTHERN CAL	D E WICKLAND	HQ	D A KIEFER	NAGW 3574	2756
33	UNIV OF SOUTHERN CAL	D E WICKLAND	HQ	R ITURRIAGA	NAGW 3763	2758
33	UNIV OF SOUTHERN CAL	A C JANETOS	HQ	T D DICKEY	NAGW 3949	2760
33	UNIV OF SOUTHERN CAL	G ASRAR	HQ	R M KUDELA	NGT 00-030-108	2768
33	UNIV OF SOUTHERN CAL	A C JANETOS	HQ	D A KIEFER	NGT 00-030-237	2770
33	UNIV COLORADO-BOLDR	S J KZETZBERG	LARC	G H BORN	NAG 1-1491	2847
33	UNIV COLORADO-BOLDR	S J KATZBERG	LARC	G H BORN	NAG 1-1506	2848
33	UNIV COLORADO-BOLDR	G S LAGERLOEF	HQ	W J EMERY	NAGW 1110	2957
33	UNIV COLORADO-BOLDR	G S LAGERLOEF	HQ	G BORN	NAGW 1124	2958
33	UNIV COLORADO-BOLDR	R H THOMAS	HQ	K STEFFEN	NAGW 2158	2970
33	UNIV COLORADO-BOLDR	R A SCHIFFER	HQ	W EMERY	NAGW 2948	2987
33	UNIV COLORADO-BOLDR	M E MAIDEN	HQ	R ARMSTRONG	NAGW 3768	3009
33	UNIV COLORADO-BOLDR	G ASRAR	HQ	M J MILLS	NGT 00-030-131	3070
33	UNIV COLORADO-BOLDR	G ASRAR	HQ	A M MIDDLEBROOK	NGT 00-030-132	3071
33	UNIV COLORADO-BOLDR	A C JANETOS	HQ	J COLE	NGT 00-030-261	3080
33	UNIV COLORADO-BOLDR	J ALEXANDER	HQ	W HAY	NGT 00-050-915	3097
33	UNIV COLORADO-BOLDR	D K RUSSELL	HQ	R D CULP	NGT 00-070-389	3131
33	YALE UNIVERSITY	G ASRAR	HQ	M F COCHRAN	NGT 00-030-143	3194
33	UNIV OF DELAWARE	G S LAGERLOEF	HQ	F WEBSTER	NAGW 1674	3215
33	UNIV OF DELAWARE	J S THEON	HQ	X H YAN	NAGW 2953	3217
33	UNIV OF DELAWARE	M BALTUCK	HQ	X H YAN	NAGW 4771	3220
33	FLORIDA STATE UNIV	G S LAGERLOEF	HQ	J J O'BRIEN	NAGW 985	3405
33	FLORIDA STATE UNIV	R E MURPHY	HQ	R IVERSON	NAGW 3495	3410
33	FLORIDA STATE UNIV	G ASRAR	HQ	J CHANTON	NGT 00-030-170	3415
33	UNIV OF FLORIDA	R A SCHIFFER	HQ	A J MARIANO	NAGW 4329	3489
33	UNIV OF MIAMI	M R LEWIS	HQ	O BROWN	NAGW 273	3530
33	UNIV OF MIAMI	M R LEWIS	HQ	P A MATRAL	NAGW 1845	3531
33	UNIV OF MIAMI	M R LEWIS	HQ	W M BALCH	NAGW 2426	3532
33	UNIV OF MIAMI	M E BALTUCK	HQ	D OLSEN	NAGW 3619	3535
33	UNIV OF MIAMI	A C JANETOS	HQ	P A MATRAI	NAGW 3765	3536
33	UNIV OF MIAMI	M E MAIDEN	HQ	R H EVANS	NAGW 3775	3537
33	UNIV OF MIAMI	M E MAIDEN	HQ	R H EVANS	NAGW 4747	3538
33	UNIV OF MIAMI	H OSEROFF	GSFC	O B BROWN	NAS 5-31361	3540
33	UNIV OF MIAMI	G FELDMAN	GSFC	R EVANS	NAS 5-31745	3544

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33	UNIV OF MIAMI	G ASRAR	HQ	S A YVON	NGT 00-030-114	3546
33	UNIV OF SO FLORIDA	M R LEWIS	HQ	K L CARDER	NAGW 465	3553
33	UNIV OF SO FLORIDA	R E MURPHY	HQ	J L WALSH	NAGW 3459	3555
33	UNIV OF SO FLORIDA	D E WICKLAND	HQ	F MULLER-KARGER	NAGW 3483	3556
33	UNIV OF SO FLORIDA	R E MURPHY	HQ	M E LUTHER	NAGW 3618	3557
33	UNIV OF SO FLORIDA	A C JENETOS	HQ	P G COBLE	NAGW 3950	3558
33	UNIV OF SO FLORIDA	C R MCCLAIN	GSFC	K L CARDER	NCC 5-50	3563
33	UNIV OF SO FLORIDA	A C JANETOS	HQ	M LUTHER	NGT 00-030-270	3565
33	UNIV OF SO FLORIDA	M BALTUCK	HQ	F MULLER-KARGER	NGT 00-030-316	3567
33	UNIV OF SO FLORIDA	A JOYCE	SSC	F M KARGER	NGT 00-070-260	3569
33	UNIV OF HAWAII-MANOA	D E WICKLAND	HQ	R BIDIGARE	NAGW 3493	3814
33	UNIV OF HAWAII-MANOA	A C JANETOS	HQ	J PORTER	NAGW 4190	3832
33	UNIV OF KANSAS	R H THOMAS	HQ	C TSATSOU LIS	NAGW 3043	4369
33	LA ST U&A&M COL-BRGE	A JOYCE	SSC	B A MCKEE	NGT 00-051-197	4449
33	UNIV OF MAINE-ORONO	J S THEON	HQ	V PANCHANG	NAGW 4075	4504
33	U OF MD CEN EN ES ST	A C JANETOS	HQ	L W HARDING	NAGW 3891	4517
33	U OF MD CEN EN ES ST	A C JANETOS	HQ	T R FISHER	NAGW 3947	4518
33	UNIV MARYLAND-COL PK	M M RIENECKER	GSFC	J A CARTON	NAG 5-2361	4713
33	UNIV MARYLAND-COL PK	M LEWIS	HQ	C F D'ELIA	NAGW 2202	4763
33	UNIV MARYLAND-COL PK	D ADAMEC	HQ	J A CARTON	NAGW 3086	4773
33	UNIV MARYLAND-COL PK	W J WAGNER	HQ	M J ASEHWANDEN	NAGW 3456	4778
33	UNIV MARYLAND-COL PK	M BALTUCK	HQ	K ARRIGO	NAGW 4348	4801
33	UNIV MARYLAND-COL PK	M BURRELL	GSFC	L W HARDING	NGT 00-051-181	4863
33	HARVARD UNIVERSITY	D M BUTLER	HQ	T TOOLAN	NGT 00-030-071	5010
33	MASS INST OF TECH	J G RICHMAN	HQ	C WUNSCH	NAGW 1048	5152
33	MASS INST OF TECH	G ASRAR	HQ	N M MAHOWALD	NGT 00-030-109	5244
33	MASS INST OF TECH	F MULLER-KARGER	HQ	C CHRYSSTOMIAIS	NGT 00-030-232	5246
33	MASS INST OF TECH	R A SCHIFFER	HQ	E A BOYLE	NGT 00-030-284	5248
33	MASS INST OF TECH	G ASRAR	HQ	C WUNSCH	NGT 00-030-309	5249
33	UNIV OF MASS-AMHERST	G S LAGERLOEF	HQ	R E MCINTOSH	NAGW 1112	5296
33	WOODSHOLE OCEAN INST	K R MCDONALD	GSFC	D M GLOVER	NAG 5-2884	5321
33	WOODSHOLE OCEAN INST	G S LAGERLOEF	HQ	K A KELLY	NAGW 1666	5322
33	WOODSHOLE OCEAN INST	B MITCHELL	HQ	P G BREWER	NAGW 2431	5323
33	WOODSHOLE OCEAN INST	R MURPHY	HQ	D M GLOVER	NAGW 3648	5324
33	WOODSHOLE OCEAN INST	R A SCHIFFER	HQ	R XIN HUANG	NAGW 4331	5325
33	UNIV MICH-ANN ARBOR	D HOLLAND	HQ	L KILLEEN	NGT 00-051-137	5506
33	UNIV NEBRASKA-LINCLN	R H THOMAS	HQ	M R ANDERSON	NAGW 1266	5773
33	UNIV NEW HAMP-DURHAM	R E MURPHY	HQ	J W CAMPBELL	NAGW 3720	5881
33	PRINCETON UNIVERSITY	R H THOMAS	HQ	M J PHELAN	NAGW 1763	5954
33	PRINCETON UNIVERSITY	R E MURPHY	HQ	J SARMIENTO	NAGW 3137	5963
33	PRINCETON UNIVERSITY	A C JANETOS	HQ	S W PASCALA	NGT 00-030-264	5976
33	PRINCETON UNIVERSITY	J S THEON	HQ	S G PHILANDER	NGT 00-030-288	5977
33	RUTGERS ST U-PISCTWY	G ASRAR	HQ	R G LATHROP JR.	NGT 00-030-351	5997
33	CITY U OF NY CTY COL	G S LAGERLOEF	HQ	W J PIERSON	NAGW 690	6102
33	COLUMBIA UNIVERSITY	A J BUSALACCHI	GSFC	E J KATZ	NAG 5-2058	6151
33	COLUMBIA UNIVERSITY	G S LAGERLOEF	HQ	M A CANE	NAGW 916	6172
33	COLUMBIA UNIVERSITY	M R LEWIS	HQ	J K BISHOP	NAGW 2189	6176
33	COLUMBIA UNIVERSITY	R H THOMAS	HQ	D L MARTINSON	NAGW 2599	6181
33	COLUMBIA UNIVERSITY	R H THOMAS	HQ	S S JACOBS	NAGW 3362	6185
33	COLUMBIA UNIVERSITY	G ASRAR	HQ	G BOND	NGT 00-030-186	6211
33	COLUMBIA UNIVERSITY	G ASRAR	HQ	A L GORDON	NGT 00-030-217	6212
33	COLUMBIA UNIVERSITY	J S THEON	HQ	W S BROECKER	NGT 00-030-277	6213
33	HOFSTRA UNIVERSITY	G S LAGERLOEF	HQ	D E WEISSMAN	NAGW 468	6329
33	STATE U NY-STONY BRK	G ASRAR	HQ	A SUBRAMANIAM	NGT 00-030-121	6493
33	DUKE UNIVERSITY	R E MURPHY	HQ	R BARBER	NAGW 3655	6544
33	NO CAROLINA STATE U	D E WICKLAND	HQ	D KAMYKOWSKI	NAGW 3575	6621
33	OHIO STATE UNIV	R H THOMAS	HQ	K C JEZEK	NAGW 2035	6932
33	OREGON STATE UNIV	B G MITCHELL	HQ	M R ABBOTT	NAGW 2454	7162
33	OREGON STATE UNIV	D ADAMEO	HQ	A F BENNETT	NAGW 2715	7165
33	OREGON STATE UNIV	J S THEON	HQ	M H FREILICH	NAGW 3305	7169

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33	OREGON STATE UNIV	D ADAMEC	HQ	D B CHILTON	NAGW 3510	7170
33	OREGON STATE UNIV	D E WICKLAND	HQ	R ZANEVELD	NAGW 3580	7172
33	OREGON STATE UNIV	R SMITH	HQ	L WEBER	NAGW 3683	7174
33	OREGON STATE UNIV	A C JANETOS	HQ	E B SHERR	NAGW 3737	7176
33	OREGON STATE UNIV	J S THEON	HQ	C PADEO	NAGW 4104	7179
33	OREGON STATE UNIV	M BALTUCK	HQ	M R ABBOTT	NAGW 4596	7182
33	OREGON STATE UNIV	M BALTUCK	HQ	A F BENNETT	NAGW 4680	7183
33	OREGON STATE UNIV	H OSEROFF	GSFC	M R ABBOTT	NAS 5-31360	7187
33	OREGON STATE UNIV	G ASRAR	HQ	B SHERR	NGT 00-030-188	7190
33	OREGON STATE UNIV	R A SCHIFFER	HQ	M FREILICH	NGT 00-030-263	7193
33	PENN STATE U-UNIV PK	G ASRAR	HQ	J H MATHER	NGT 00-030-120	7406
33	UNIV OF RHODE ISLAND	M R LEWIS	HQ	J A YODER	NAGW 1891	7550
33	UNIV OF RHODE ISLAND	G HUNOLT	HQ	P CORNILLON	NAGW 2560	7551
33	UNIV OF RHODE ISLAND	D ADAMEC	HQ	P C CORMILLON	NAGW 3009	7552
33	UNIV OF RHODE ISLAND	R E MURPHY	HQ	P STEGMAN	NAGW 3601	7555
33	UNIV OF RHODE ISLAND	D ADAMEC	HQ	P C CORNILLON	NAGW 3784	7556
33	UNIV OF RHODE ISLAND	M E MAIDEN	HQ	P CORNILLON	NAGW 4210	7560
33	UNIV OF RHODE ISLAND	M BALTUCK	HQ	Y A YODER	NGT 00-030-307	7563
33	UNIV TENNESSEE-KNOXV	D E WICKLAND	HQ	G COTA	NAGW 3578	7692
33	RICE UNIVERSITY	D M BUTLER	HQ	G A HADDAD	NGT 00-030-074	7827
33	TEXAS A&M UNIVERSITY	G S LAGERLOEF	HQ	R H STEWART	NAGW 1979	7904
33	TEXAS A&M UNIVERSITY	J A KAYE	HQ	N W TINDALE	NAGW 3652	7911
33	TEXAS A&M UNIVERSITY	R A SCHIFFER	HQ	R H STEWART	NGT 00-030-243	7922
33	UNIV TEXAS-AUSTIN	G S LAGERLOEF	HQ	B TAPLEY	NAGW 2132	8118
33	BRIGHAM YOUNG UNIV	J K ALEXANDER	HQ	D G LONG	NAGW 2875	8244
33	BRIGHAM YOUNG UNIV	G ASRAR	HQ	D LONG	NGT 00-030-198	8246
33	OLD DOMINION UNIV	C R MCCLAIN	GSFC	E E HOFMANN	NAG 5-1401	8447
33	OLD DOMINION UNIV	R E MURPHY	HQ	E HOFMANN	NAGW 3550	8449
33	OLD DOMINION UNIV	M E MAIDEN	HQ	E SMITH	NAGW 3981	8450
33	OLD DOMINION UNIV	A C JANETOS	HQ	E HOFMANN	NGT 00-030-354	8462
33	UNIV OF WASHINGTON	R H THOMAS	HQ	D P WINEBRENNER	NAGW 1256	8756
33	UNIV OF WASHINGTON	G S LAGERLOEF	HQ	K B KATSAROS	NAGW 1322	8757
33	UNIV OF WASHINGTON	R H THOMAS	HQ	S MARTIN	NAGW 1436	8758
33	UNIV OF WASHINGTON	R H THOMAS	HQ	D A ROTHROCK	NAGW 2407	8763
33	UNIV OF WASHINGTON	R H THOMAS	HQ	R COLONY	NAGW 2512	8764
33	UNIV OF WASHINGTON	R H THOMAS	HQ	D A ROTHROCK	NAGW 2513	8765
33	UNIV OF WASHINGTON	R H THOMAS	HQ	T C GRENFELL	NAGW 2574	8769
33	UNIV OF WASHINGTON	J S THEON	HQ	A T JESSUP	NAGW 2888	8774
33	UNIV OF WASHINGTON	R H THOMAS	HQ	K AAGAARD	NAGW 3174	8777
33	UNIV OF WASHINGTON	R E MURPHY	HQ	K BANSE	NAGW 3606	8786
33	UNIV OF WASHINGTON	R H THOMAS	HQ	R E MORITZ	NAGW 4642	8806
33	UNIV OF WASHINGTON	D M BUTLER	HQ	J L YOUNG	NGT 00-030-058	8824
33	UNIV OF WASHINGTON	D M BUTLER	HQ	C J BEEGLE	NGT 00-030-085	8826
33	UNIV OF WASHINGTON	D M BUTLER	HQ	N J MANTUA	NGT 00-030-087	8827
33	UNIV OF WASHINGTON	M BALTUCK	HQ	J W MURRAY	NGT 00-030-313	8837
33	UNIV OF WASHINGTON	G ASRAR	HQ	R E MCDUFF	NGT 00-030-348	8842
33	UNIV OF WASHINGTON	A NOVOTNY	HQ	M J PERRY	NGT 00-051-225	8853
33	UNIV WISC-MADISON	R H THOMAS	HQ	C R BENTLEY	NAGW 1773	8981
33	UNIV WISC-MADISON	M BALTUCK	HQ	J E KUTZBACH	NGT 00-030-346	9045
33	U PUERTO RICO-MAYAGZ	J C DODGE	HQ	J M DIAZ	NAGW 2912	9094
33	U PUERTO RICO-MAYAGZ	A C JANETOS	HQ	J E CORREDOR	NAGW 3926	9095
33	U PUERTO RICO-MAYAGZ	F C OWENS	HQ	J M LOPEZ	NGT 00-070-209	9105
33	U PUERTO RICO-MAYAGZ	J T LYNCH	HQ	J M LOPEZ	NGT 00-070-238	9106
33	U PUERTO RICO-MAYAGZ	A JOYCE	SSC	J M LOPEZ	NGT 00-070-259	9107
33	U PUERTO RICO-MAYAGZ	D K RUSSELL	HQ	R VASQUEZ	NGT 00-070-311	9108
33	U PUERTO RICO-MAYAGZ	D K RUSSELL	HQ	J M LOPEZ	NGT 00-070-319	9109
33	U PUERTO RICO-MAYAGZ	D K RUSSELL	HQ	J M LOPEZ	NGT 00-070-320	9110
33	U PUERTO RICO-MAYAGZ	D K RUSSELL	HQ	J M LOPEZ	NGT 00-070-323	9112
39	ALABAMA A&M UNIV	B L WHITE	HQ	T L COLEMAN	NCCW 84	1021
39	AUBURN UNIV-AUBURN	J L JONES	LARC	M F ROSE	NAG 1-1329	1023

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39	SELMA UNIVERSITY	R M TRUNZO	JPL	K D CHAPATWALA	NAGW 3969	1055
39	TROY ST. UNIV.	D SIX	MSFC	D J BATEMAN	NAG 8-1204	1058
39	UNIV ALA-HUNTSVILLE	M E MAIDEN	HQ	M E BOTTS	NAGW 3674	1154
39	UNIV ALA-HUNTSVILLE	R P CHASSAY	MSFC	R J NAUMANN	NAS 8-38773	1171
39	UNIV ALASKA-ANCHORAG	D K HALL	GSFC	K M PETERSON	NAG 5-2074	1238
39	UNIV ALASKA-FAIRBNKS	D K HALL	GSFC	M O JEFFRIES	NAG 5-1731	1245
39	UNIV ALASKA-FAIRBNKS	R H THOMAS	HQ	D L KANE	NAGW 2519	1250
39	UNIV ALASKA-FAIRBNKS	R H THOMAS	HQ	C LINGLE	NAGW 2614	1251
39	UNIV ALASKA-FAIRBNKS	R A SCHIFFER	HQ	W WEEKS	NAGW 2716	1253
39	UNIV ALASKA-FAIRBNKS	R A SCHIFFER	HQ	C S LINGLE	NAGW 2827	1254
39	UNIV ALASKA-FAIRBNKS	R A SCHIFFER	HQ	G WELLER	NAGW 2829	1255
39	UNIV ALASKA-FAIRBNKS	R H THOMAS	HQ	W D HARRISON	NAGW 3727	1261
39	UNIV ALASKA-FAIRBNKS	R H THOMAS	HQ	C S LINGLE	NAGW 4371	1265
39	UNIV ALASKA-FAIRBNKS	G HUNOLT	GSFC	G WELLER	NAS 5-32393	1269
39	UNIV ALASKA-FAIRBNKS	D HALL	GSFC	C BENSON	NCC 5-75	1271
39	UNIV ALASKA-FAIRBNKS	D M BUTLER	HQ	E BREITENBERGER	NGT 00-030-039	1273
39	ARIZONA STATE UNIV	H BLODGET	GSFC	P CHRISTENSEN	NAS 5-31371	1333
39	NORTHERN ARIZONA U	B GUENTHER	GSFC	R L WILDEY	NAG 5-2159	1349
39	UNIV OF ARIZONA	F G HALL	GSFC	R E DICKINSON	NAG 5-2310	1396
39	UNIV OF ARIZONA	B MARKHAM	GSFC	P SLATER	NAG 5-2448	1403
39	UNIV OF ARIZONA	W B KRABILL	GSFC	R C BALES	NAG 5-5031	1419
39	UNIV OF ARIZONA	G ASRAR	HQ	S SOROOSHIAN	NAGW 2425	1463
39	UNIV OF ARIZONA	R E MURPHY	HQ	W J SHUTTLEWORTH	NAGW 3368	1485
39	UNIV OF ARIZONA	D E WICKLAND	HQ	A R HUETE	NAGW 3555	1496
39	UNIV OF ARIZONA	M Y WEI	HQ	W J SHUTTLEWORTH	NAGW 4165	1515
39	UNIV OF ARIZONA	D M BUTLER	HQ	X GAO	NGT 00-030-045	1544
39	UNIV OF ARIZONA	G ASRAR	HQ	P R HOUSER	NGT 00-030-136	1545
39	UNIV OF ARIZONA	G ASRAR	HQ	J RANGER-MOORE	NGT 00-030-181	1547
39	UNIV OF ARIZONA	R A SCHIFFER	HQ	P N SLATER	NGT 00-030-239	1549
39	UNIV OF ARIZONA	J S THEON	HQ	R C BALES	NGT 00-030-269	1550
39	UNIV OF ARIZONA	A C JANETOS	HQ	J W SHUTTLEWORTH	NGT 00-030-303	1551
39	UNIV OF ARIZONA	A C JANETOS	HQ	M YITAYEW	NGT 00-030-336	1553
39	CAL STATE U-CHICO	J SALUTE	ARC	M BALDY	NCC 2-5062	1761
39	CAL STATE U-L ANGLER	D E WICKLAND	HQ	J A GAMON	NAGW 3707	1767
39	COLLEGE OF SAN MATEO	D L LAWLESS	ARC	K D KENNEDY	NAG 2-969	1784
39	HUMBOLDT STATE UNIV	D K RUSSELL	HQ	T ROELOFS	NGT 00-090-247	1793
39	SAN DIEGO STATE UNIV	G ASRAR	HQ	J FRANKLIN	NAGW 2031	1799
39	SAN DIEGO STATE UNIV	D E WICKLAND	HQ	J L MUELLER	NAGW 3494	1801
39	SAN DIEGO STATE UNIV	D E WICKLAND	HQ	J FRANKLIN	NGT 00-030-235	1807
39	SAN DIEGO STATE UNIV	A C JANETOS	HQ	W C OECHEL	NGT 00-030-319	1809
39	STANFORD UNIVERSITY	M L IMHOFF	GSFC	P EHRlich	NAG 5-2393	1914
39	STANFORD UNIVERSITY	D E WICKLAND	HQ	H A MOONEY	NAGW 4212	1939
39	STANFORD UNIVERSITY	P B RUSSELL	ARC	W G ERNST	NCA 2-768	1955
39	STANFORD UNIVERSITY	D M BUTLER	HQ	M G BAC	NGT 00-030-078	2006
39	STANFORD UNIVERSITY	D E WICKLAND	HQ	P VITOUSEK	NGT 00-030-233	2008
39	STANFORD UNIVERSITY	A C JANETOS	HQ	C B FIELD	NGT 00-030-254	2009
39	UNIV CALIF-BERKELEY	D E WICKLAND	HQ	F S CHAPIN III	NAGW 3769	2142
39	UNIV CALIF-BERKELEY	D E WICKLAND	HQ	P A MATSON	NAGW 3869	2149
39	UNIV CALIF-BERKELEY	H BRINTON	HQ	W ALVAREZ	NAGW 4324	2160
39	UNIV CALIF-BERKELEY	D M BUTLER	HQ	M S TORN	NGT 00-030-048	2202
39	UNIV CALIF-BERKELEY	D M BUTLER	HQ	S P ANDERSON	NGT 00-030-083	2203
39	UNIV CALIF-BERKELEY	G ASRAR	HQ	S E HOBBIE	NGT 00-030-154	2206
39	UNIV CALIF-BERKELEY	G ASRAR	HQ	M E POWER	NGT 00-030-165	2207
39	UNIV CALIF-BERKELEY	A C JANETOS	HQ	C D'ANTONIO	NGT 00-030-247	2210
39	UNIV CALIF-BERKELEY	A C JANETOS	HQ	F S CHAPIN III	NGT 00-030-259	2211
39	UNIV CALIF-BERKELEY	A C JANETOS	HQ	P A MATSON	NGT 00-030-260	2212
39	UNIV CALIF-BERKELEY	A C JANETOS	HQ	J HARTE	NGT 00-030-289	2213
39	UNIV CALIF-BERKELEY	M BALTUCK	HQ	W E DIETRICH	NGT 00-030-318	2214
39	UNIV CALIF-DAVIS	D E WICKLAND	HQ	S L USTIN	NAGW 4626	2272
39	UNIV CALIF-DAVIS	J SALUTE	ARC	J GRANETT	NCC 2-5046	2293

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39	UNIV CALIF-DAVIS	G ASRAR	HQ	T W FAN	NGT 00-030-167	2308
39	UNIV CALIF-DAVIS	M Y WEI	HQ	M B PARLANGE	NGT 00-030-300	2310
39	UNIV CALIF-DAVIS	A C JANETOS	HQ	S L USTIN	NGT 00-030-341	2311
39	UNIV CALIF-DAVIS	D K RUSSELL	HQ	R CRIDDLE	NGT 00-090-246	2314
39	UNIV CALIF-IRVINE	L WALTER	GSFC	S TRUMBORE	NAG 5-1840	2328
39	UNIV CALIF-IRVINE	F G HALL	GSFC	S TRUMBORE	NAG 5-2306	2330
39	UNIV CALIF-IRVINE	A C JANETOS	HQ	F S ROWLAND	NAGW 2738	2341
39	UNIV CALIF-IRVINE	A C JANETOS	HQ	W S REEBURGH	NAGW 3053	2342
39	UNIV CALIF-IRVINE	D M BUTLER	HQ	M B DECKER	NGT 00-030-067	2350
39	UNIV CALIF-IRVINE	A C JANETOS	HQ	S C TAYLER	NGT 00-030-304	2353
39	UNIV CALIF-L ANGELES	J D RUMMEL	HQ	J F KERRIDGE	NAGW 3725	2450
39	UNIV CALIF-L ANGELES	G ASRAR	HQ	S M ANDERSON	NGT 00-030-148	2486
39	UNIV CALIF-SAN DIEGO	F G HALL	GSFC	M WAHLEN	NAG 5-2288	2542
39	UNIV CALIF-SAN DIEGO	R E MURPHY	HQ	C D KEELING	NAGW 2987	2581
39	UNIV CALIF-SAN DIEGO	G SOFFEN	GSFC	J B MINSTER	NAS 5-33019	2608
39	UNIV CALIF-S BARBARA	B CHOUDHURY	GSFC	J DOZIER	NAG 5-917	2651
39	UNIV CALIF-S BARBARA	M GOODMAN	MSFC	J E ESTES	NAG 8-929	2653
39	UNIV CALIF-S BARBARA	G ASRAR	HQ	J DOZIER	NAGW 2602	2661
39	UNIV CALIF-S BARBARA	A C JANETOS	HQ	J MELACK	NAGW 2724	2662
39	UNIV CALIF-S BARBARA	D E WICKLAND	HQ	J M MELACK	NAGW 4352	2671
39	UNIV CALIF-S BARBARA	E KRIENS	GSFC	C GAUTIER	NAS 5-31374	2673
39	UNIV CALIF-S BARBARA	G ASRAR	HQ	A GERSHUNOV	NGT 00-030-145	2680
39	UNIV CALIF-S BARBARA	G ASRAR	HQ	H COUCLELIS	NGT 00-030-204	2682
39	UNIV CALIF-S BARBARA	A C JANETOS	HQ	J M MELACK	NGT 00-030-267	2683
39	COLORADO STATE UNIV	F G HALL	GSFC	R A PIELKE	NAG 5-2078	2799
39	COLORADO STATE UNIV	F G HALL	GSFC	R A PIELKE	NAG 5-2302	2800
39	COLORADO STATE UNIV	R E MURPHY	HQ	D S SCHIMEL	NAGW 2662	2807
39	COLORADO STATE UNIV	G ASRAR	HQ	V B BROWN	NGT 00-030-144	2822
39	COLORADO STATE UNIV	G ASRAR	HQ	R H JOHNSON	NGT 00-030-190	2825
39	COLORADO STATE UNIV	J S THEON	HQ	W R COTTON	NGT 00-030-231	2826
39	COLORADO STATE UNIV	A C JANETOS	HQ	J K DETHING	NGT 00-030-252	2827
39	COLORADO STATE UNIV	J S THEON	HQ	S A RUTLEDGE	NGT 00-030-268	2828
39	UNIV COLORADO-BOLDR	H K RAMAPRIYAN	GSFC	W EMERY	NAG 5-1715	2876
39	UNIV COLORADO-BOLDR	F G HALL	GSFC	R K MONSON	NAG 5-2287	2893
39	UNIV COLORADO-BOLDR	N B DOUGLAS	HQ	J WAHR	NAGW 1843	2965
39	UNIV COLORADO-BOLDR	R H THOMAS	HQ	R G BARRY	NAGW 2598	2977
39	UNIV COLORADO-BOLDR	R A SCHIFFER	HQ	U RADOK	NAGW 2706	2980
39	UNIV COLORADO-BOLDR	G ASRAR	HQ	V K GUPTA	NAGW 2731	2981
39	UNIV COLORADO-BOLDR	M M MAIDEN	HQ	W EMERY	NAGW 3224	2997
39	UNIV COLORADO-BOLDR	R H THOMAS	HQ	J KEY	NAGW 3437	3000
39	UNIV COLORADO-BOLDR	R H THOMAS	HQ	U C HERZFELD	NAGW 3790	3010
39	UNIV COLORADO-BOLDR	R H THOMAS	HQ	J MASLANIK	NAGW 4402	3028
39	UNIV COLORADO-BOLDR	G ASRAR	HQ	C WESSMAN	NAGW 4689	3041
39	UNIV COLORADO-BOLDR	M E MAIDEN	HQ	J A MASLANIK	NAGW 4742	3043
39	UNIV COLORADO-BOLDR	M E MAIDEN	HQ	R L AMSTRONG	NAGW 4743	3044
39	UNIV COLORADO-BOLDR	M E MAIDEN	HQ	R BARRY	NAGW 4755	3045
39	UNIV COLORADO-BOLDR	D BUTLER	HQ	T SEASTEDT	NGT 00-030-095	3068
39	UNIV COLORADO-BOLDR	G ASRAR	HQ	R VILLALBA	NGT 00-030-133	3072
39	UNIV COLORADO-BOLDR	G ASRAR	HQ	R J GOSNELL	NGT 00-030-139	3073
39	UNIV COLORADO-BOLDR	G ASRAR	HQ	G H BORN	NGT 00-030-207	3078
39	UNIV COLORADO-BOLDR	G ASRAR	HQ	R K MONSON	NGT 00-030-210	3079
39	UNIV COLORADO-BOLDR	A C JANETOS	HQ	D WALKER	NGT 00-030-266	3082
39	UNIV COLORADO-BOLDR	J S THEON	HQ	J A CURRY	NGT 00-030-285	3083
39	UNIV COLORADO-BOLDR	R A SCHIFFER	HQ	J A HICKE	NGT 00-030-290	3084
39	UNIV COLORADO-BOLDR	G ASRAR	HQ	J OVERPECK	NGT 00-030-322	3085
39	UNIV COLORADO-BOLDR	G A SOFFEN	GSFC	G H BORN	NGT 5-5	3133
39	UNIV OF DENVER	C P RINSLAND	LARC	D G MURCRAY	NSG-1432	3151
39	UNIV OF CONNECTICUT	A C JANETOS	HQ	J SILANDER	NGT 00-030-240	3164
39	YALE UNIVERSITY	R H THOMAS	HQ	B SALTZMAN	NAGW 4197	3191
39	YALE UNIVERSITY	G ASRAR	HQ	C G WRAY	NGT 00-030-118	3193

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39	YALE UNIVERSITY	N MAYNARD	HQ	P K BARTEN	NGT 00-030-315	3195
39	UNIV OF DELAWARE	D E WICKLAND	HQ	C J WILLMOTT	NAGW 4355	3219
39	UNIV OF DELAWARE	G ASRAR	HQ	J SONG	NGT 00-030-126	3225
39	GEORGE WASHINGTON U	J A WEINMAN	GSFC	N M KHADR	NAG 5-1807	3240
39	GEORGE WASHINGTON U	P W BACKLUMD	HQ	J M LOGSDON	NAGW 4050	3246
39	GEORGE WASHINGTON U	F G HALL	GSFC	R LANG	NCC 5-53	3258
39	ECKERD COLLEGE	F SIX	MSFC	J B THOMPSON	NAG 8-1103	3320
39	FLORIDA STATE UNIV	F G HALL	GSFC	E A SMITH	NAG 5-2072	3395
39	FLORIDA STATE UNIV	F G HALL	GSFC	E A SMITH	NAG 5-2447	3396
39	FLORIDA STATE UNIV	D E WICKLAND	HQ	J CHANTON	NAGW 3855	3411
39	UNIV OF FLORIDA	R E MURPHY	HQ	C S HOLLING	NAGW 2524	3479
39	UNIV OF FLORIDA	D E WICKLAND	HQ	C S HOLLING	NAGW 3698	3484
39	UNIV OF MIAMI	H K RAMAPRIYAN	GSFC	R H EVANS	NAG 5-1788	3523
39	UNIV OF SO FLORIDA	M BALTUCK	HQ	K L CARDER	NGT 00-030-306	3566
39	UNIV OF GEORGIA	R H THOMAS	HQ	T MOTE	NAGW 4573	3750
39	UNIV OF GEORGIA	D K RUSSELL	HQ	R HODSON	NGT 00-070-345	3753
39	UNIV OF HAWAII-MANOA	J MAZZURCO	ARC	E A GRASER	NAG 2-758	3757
39	UNIV OF HAWAII-MANOA	F HASLER	GSFC	P J MOUGINIS-MARK	NAG 5-2695	3778
39	UNIV OF HAWAII-MANOA	M BALTUCK	HQ	P MOUGINIS-MARK	NAGW 2468	3798
39	UNIV OF HAWAII-MANOA	D M BUTLER	HQ	D M ISHII	NAGW 3812	3823
39	UNIV OF HAWAII-MANOA	G ASRAR	HQ	M BEVIS	NAGW 4697	3835
39	UNIV OF HAWAII-MANOA	W LAU	GSFC	R LUKAS	NAS 5-31722	3839
39	UNIV OF HAWAII-MANOA	M BALTUCK	HQ	F JIN	NGT 00-030-312	3845
39	NORTHWESTERN UNIV	R H THOMAS	HQ	G E BIRCHFIELD	NAGW 2695	3910
39	UNIV OF CHICAGO	R H THOMAS	HQ	D MACAYEAL	NAGW 2588	3984
39	UNIV OF CHICAGO	M BALTUCK	HQ	D R MCAYEAL	NGT 00-030-323	4014
39	INDIANA U-BLOOMINGTN	A C JANETOS	HQ	E E MORAN	NGT 00-030-248	4149
39	PURDUE UNIVERSITY	D E WICKLAND	HQ	D LANDGREBE	NAGW 3924	4197
39	PURDUE UNIVERSITY	V C VANDERBILT	ARC	L L BIEHL	NCC 2-5038	4204
39	UNIV OF NOTRE DAME	A C JANETOS	HQ	R G CARLTON	NGT 00-030-250	4246
39	UNIV OF IOWA	G ASRAR	HQ	W F KRAJEWSKI	NGT 00-030-160	4340
39	UNIV OF KANSAS	F G HALL	GSFC	S P GOGINENI	NAG 5-2344	4363
39	UNIV OF KANSAS	F G HALL	GSFC	P M RICH	NAG 5-2358	4364
39	UNIV OF KANSAS	R H THOMAS	HQ	S COGINENI	NAGW 3346	4370
39	UNIV OF KANSAS	R H THOMAS	HQ	S P GOGINENI	NAGW 3700	4371
39	UNIV OF KANSAS	A J TUYUHOV	HQ	K P PRICE	NAGW 3810	4372
39	UNIV OF KANSAS	D M BUTLER	HQ	M E JAKUBAUSKAS	NGT 00-030-062	4380
39	UNIV OF KANSAS	G ASRAR	HQ	C TSATSOULIS	NGT 00-030-189	4382
39	LA ST U&A&M COL-BRGE	G ASRAR	HQ	K G HENDERSON	NGT 00-030-183	4444
39	SOUTHEASTERN LA UNIV	W M KNOTT	KSC	R A SEIGEL	NAG10-131	4463
39	SO UNIV & A&M COL-BR	K POIMBOEUF	KSC	I MIRSHAMS	NAG10-149	4472
39	TULANE UNIVERSITY	J S THEON	HQ	R G WATTS	NGT 00-030-262	4485
39	UNIV OF MAINE-ORONO	F G HALL	GSFC	S M GOLTZ	NAG 5-2590	4502
39	UNIV OF MAINE-ORONO	D E WICKLAND	HQ	G M KING	NAGW 3746	4503
39	JOHNS HOPKINS UNIV	E HALL	GSFC	J KOU	NAG 5-2128	4544
39	JOHNS HOPKINS UNIV	G ASRAR	HQ	G FEELEY-HARNIK	NGT 00-030-209	4631
39	UNIV MARYLAND-COL PK	B N HOLBEN	GSFC	S D PRINCE	NAG 5-1471	4690
39	UNIV MARYLAND-COL PK	A J KRUEGER	GSFC	C C SCHNETZLER	NAG 5-1971	4697
39	UNIV MARYLAND-COL PK	F HALL	GSFC	R D HUDSON	NAG 5-2117	4704
39	UNIV MARYLAND-COL PK	F G HALL	GSFC	S N GOWARD	NAG 5-2293	4706
39	UNIV MARYLAND-COL PK	F G HALL	GSFC	C L WALTHALL	NAG 5-2308	4708
39	UNIV MARYLAND-COL PK	E MIDDLETON	GSFC	J SULLIVAN	NAG 5-2339	4709
39	UNIV MARYLAND-COL PK	D WILLIAMS	GSFC	J TOWNSHEND	NAG 5-2370	4715
39	UNIV MARYLAND-COL PK	K J RANSON	GSFC	J TOWNSHEND	NAG 5-2396	4719
39	UNIV MARYLAND-COL PK	C J TUCKER	GSFC	S D PRINCE	NAG 5-2820	4739
39	UNIV MARYLAND-COL PK	J IRONS	GSFC	C A RUSSELL	NAG 5-2856	4740
39	UNIV MARYLAND-COL PK	D L WILLIAMS	GSFC	W LAWRENCE	NAG 5-2986	4747
39	UNIV MARYLAND-COL PK	D E WICKLAND	HQ	S N GOWARD	NAGW 1152	4752
39	UNIV MARYLAND-COL PK	G ASRAR	HQ	S D PRINCE	NAGW 1967	4759
39	UNIV MARYLAND-COL PK	R H WARING	HQ	J R TOWNSHEND	NAGW 2723	4767

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39	UNIV MARYLAND-COL PK	D E WICKLAND	HQ	C L WALTHALL	NAGW 3193	4774
39	UNIV MARYLAND-COL PK	M E MAIDEN	HQ	J TOWNSHEND	NAGW 3235	4776
39	UNIV MARYLAND-COL PK	D M BUTLER	HQ	M KEARNEY	NAGW 3758	4787
39	UNIV MARYLAND-COL PK	M E MAIDEN	HQ	J R TOWNSHEND	NAGW 3771	4788
39	UNIV MARYLAND-COL PK	D E WICKLAND	HQ	S N GOWARD	NAGW 4188	4795
39	UNIV MARYLAND-COL PK	D E WICKLAND	HQ	J R TOWNSHEND	NAGW 4206	4796
39	UNIV MARYLAND-COL PK	R H THOMAS	HQ	M FAHNESTOCK	NAGW 4285	4799
39	UNIV MARYLAND-COL PK	D E WICKLAND	HQ	R DUBAYAH	NAGW 4554	4803
39	UNIV MARYLAND-COL PK	D E WICKLAND	HQ	E VERMOTE	NAGW 4661	4807
39	UNIV MARYLAND-COL PK	M E MAIDEN	HQ	J TOWNSHEND	NAGW 4782	4813
39	UNIV MARYLAND-COL PK	M E MAIDEN	HQ	J TOWNSHEND	NAGW 4790	4814
39	UNIV MARYLAND-COL PK	H OSEROFF	GSFC	C JUSTICE	NAS 5-31365	4820
39	UNIV MARYLAND-COL PK	A KRUEGER	GSFC	C C SCHNETZLER	NCC 5-86	4839
39	UNIV MARYLAND-COL PK	G ASRAR	HQ	A C SOFFER	NGT 00-030-130	4849
39	UNIV MARYLAND-COL PK	G ASRAR	HQ	S D PRINCE	NGT 00-030-168	4850
39	UNIV MARYLAND-COL PK	G ASRAR	HQ	J R TOWNSHEND	NGT 00-030-201	4851
39	UNIV MARYLAND-COL PK	J S THEON	HQ	S NIGAM	NGT 00-030-276	4853
39	UNIV MARYLAND-COL PK	A C JANETOS	HQ	J TOWNSHEND	NGT 00-030-331	4854
39	U OF MD-BALT. COUNTY	F G HALL	GSFC	T W FORESMAN	NAG 5-2379	4876
39	U OF MD-BALT. COUNTY	L M STUART	GSFC	T W FORESMAN	NAG 5-2407	4877
39	U OF MD-BALT. COUNTY	M A PINE	HQ	T FOREMAN	NAGW 4419	4884
39	U OF MD-BALT. COUNTY	E R KREINS	GSFC	L L STROW	NAS 5-31378	4885
39	CLARK UNIVERSITY	M R HELFERT	HQ	R KASPERSON	NAGW 3187	4948
39	CLARK UNIVERSITY	G ASRAR	HQ	J R EASTMAN	NGT 00-030-179	4949
39	HARVARD UNIVERSITY	F G HALL	GSFC	S C WOF SY	NAG 5-2253	4967
39	HARVARD UNIVERSITY	A C JANETOS	HQ	S C WOF SY	NAGW 3082	4991
39	HARVARD UNIVERSITY	D M BUTLER	HQ	S L BASSOW	NGT 00-030-044	5009
39	HARVARD UNIVERSITY	G ASRAR	HQ	M S MCELROY	NGT 00-030-182	5013
39	HARVARD UNIVERSITY	G ASRAR	HQ	F A BAZZAZ	NGT 00-030-195	5015
39	MASS INST OF TECH	R E MURPHY	HQ	D ENTEKHABI	NAGW 2942	5181
39	MASS INST OF TECH	R E MURPHY	HQ	D ENTEKHABI	NAGW 3808	5191
39	MASS INST OF TECH	R A SCHIFFER	HQ	D ENTEKHABI	NAGW 4163	5197
39	MASS INST OF TECH	M Y WEI	HQ	D ENTEKHABI	NAGW 4164	5198
39	MASS INST OF TECH	D E WICKLAND	HQ	D ENTEKHABI	NAGW 4508	5204
39	MASS INST OF TECH	M Y WEI	HQ	E ELTAHR	NAGW 4707	5207
39	MASS INST OF TECH	M Y WEI	HQ	D ENTEKHABI	NAGW 4750	5208
39	MASS INST OF TECH	M Y WEI	HQ	H HEMOND	NAGW 4778	5210
39	MASS INST OF TECH	W LAU	GSFC	P EAGLESON	NAS 5-31721	5218
39	MASS INST OF TECH	G SOFFEN	GSFC	T HERRING	NAS 5-33017	5221
39	MASS INST OF TECH	G ASRAR	HQ	A M MACDONALD	NGT 00-030-151	5245
39	UNIV OF MASS-AMHERST	G ASRAR	HQ	J D ISHAM	NGT 00-030-149	5311
39	MICHIGAN TECH UNIV	G ASRAR	HQ	A N PILANT	NGT 00-030-128	5370
39	UNIV MICH-ANN ARBOR	H K RAMAPRIYAN	GSFC	A W ENGLAND	NAG 5-1781	5405
39	UNIV MICH-ANN ARBOR	F HASLER	GSFC	R JOHNSON	NAG 5-2876	5423
39	UNIV MICH-ANN ARBOR	G ASRAR	HQ	F ULABY	NAGW 2151	5442
39	UNIV MICH-ANN ARBOR	R E MURPHY	HQ	A W ENGLAND	NAGW 3430	5451
39	UNIV MICH-ANN ARBOR	D E WICKLAND	HQ	F T ULABY	NAGW 4179	5460
39	UNIV MICH-ANN ARBOR	M Y WEI	HQ	F T ULABY	NAGW 4180	5461
39	UNIV MICH-ANN ARBOR	D E WICKLAND	HQ	K SARABANDI	NAGW 4555	5468
39	UNIV MICH-ANN ARBOR	J RICHARDS	GSFC	S ATREYA	NAS 5-32361	5480
39	UNIV MICH-ANN ARBOR	D M BUTLER	HQ	W KUHN	NGT 00-030-208	5494
39	UNIV MICH-ANN ARBOR	G ASRAR	HQ	P J SAMSON	NGT 00-030-219	5495
39	UNIV MICH-ANN ARBOR	A C JANETOS	HQ	J A TEERI	NGT 00-030-258	5496
39	WAYNE STATE UNIV	F G HALL	GSFC	N S GOEL	NAG 5-2237	5528
39	WAYNE STATE UNIV	D E WICKLAND	HQ	N S GOEL	NAGW 3260	5529
39	U MINN-MNPLS-ST PAUL	F HASLER	GSFC	T E BURK	NAG 5-2698	5554
39	U MINN-MNPLS-ST PAUL	G ASRAR	HQ	E F GEORGIOU	NGT 00-030-213	5589
39	U MINN-MNPLS-ST PAUL	G ASRAR	HQ	M B DAVIS	NGT 00-030-320	5590
39	ST LOUIS UNIVERSITY	G A SOFFEN	GSFC	R PASKEN	NGT 5-10	5661
39	UNIV MO-COLUMBIA	R H THOMAS	HQ	C DAVIS	NAGW 3864	5672

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39	WASHINGTON UNIVERSTY	D E SMITH	GSFC	R J PHILLIPS	NAG 5-2246	5695
39	ROCKY MOUNTAIN COLL.	D SIX	MSFC	J LYMAN	NAG 8-1213	5752
39	UNIV OF MONTANA	P J SELLERS	GSFC	R E HUNT	NAG 5-2065	5753
39	UNIV OF MONTANA	F G HALL	GSFC	S W RUNNING	NAG 5-2297	5754
39	UNIV OF MONTANA	R E MURPHY	HQ	R NEMANI	NAGW 3151	5756
39	UNIV OF MONTANA	D E WICKLAND	HQ	S W RUNNING	NAGW 4234	5757
39	UNIV OF MONTANA	H OSEROFF	GSFC	S W RUNNING	NAS 5-31368	5759
39	UNIV OF MONTANA	G ASRAR	HQ	S W RUNNING	NGT 00-030-216	5761
39	UNIV NEBRASKA-LINCLN	F G HALL	GSFC	D E JELINSKI	NAG 5-2331	5769
39	UNIV NEBRASKA-LINCLN	F G HALL	GSFC	S B VERMA	NAG 5-2585	5770
39	UNIV NEBRASKA-LINCLN	W B KRABILL	GSFC	K C KUIVINAN	NAG 5-5024	5772
39	UNIV NEBRASKA-LINCLN	R H THOMAS	HQ	B L HANSEN	NAGW 3106	5776
39	UNIV NEBRASKA-LINCLN	M R HELFERT	HQ	D RUNDQUIST	NAGW 3262	5777
39	UNIV NEBRASKA-LINCLN	A J TUYAHOV	HQ	J W MERCHANT	NAGW 3940	5778
39	UNIV NEBRASKA-LINCLN	E LUCIER	HQ	D GALE	NAGW 3984	5779
39	UNIV NEBRASKA-LINCLN	G ASRAR	HQ	T L MOTE	NGT 00-030-127	5783
39	UNIV NEVADA-DRI	M E MAIDEN	HQ	K C MCGUIRE	NAGW 4214	5797
39	UNIV NEVADA-DRI	J S THEON	HQ	R WHARTONJR	NGT 00-030-286	5799
39	DARTMOUTH COLLEGE	R H THOMAS	HQ	K C JEZEK	NAGW 1838	5820
39	UNIV NEW HAMP-DURHAM	F G HALL	GSFC	P M CRILL	NAG 5-2289	5849
39	UNIV NEW HAMP-DURHAM	F G HALL	GSFC	R C HARRISS	NAG 5-2290	5850
39	UNIV NEW HAMP-DURHAM	D E WICKLAND	HQ	B N ROCK	NAGW 1245	5863
39	UNIV NEW HAMP-DURHAM	S TILLFORD	HQ	B MOORE	NAGW 2294	5866
39	UNIV NEW HAMP-DURHAM	R E MURPHY	HQ	B MOORE	NAGW 2669	5869
39	UNIV NEW HAMP-DURHAM	A C JANETOS	HQ	B N ROCK	NAGW 2741	5871
39	UNIV NEW HAMP-DURHAM	A C JANETOS	HQ	D L SKOLE	NAGW 2749	5872
39	UNIV NEW HAMP-DURHAM	M M AVERNER	HQ	M E HINES	NAGW 2771	5873
39	UNIV NEW HAMP-DURHAM	A C JANETOS	HQ	J ABER	NAGW 3194	5875
39	UNIV NEW HAMP-DURHAM	D E WICKLAND	HQ	P M CRILL	NAGW 3774	5884
39	UNIV NEW HAMP-DURHAM	D E WICKLAND	HQ	D BARTLETT	NAGW 4204	5886
39	UNIV NEW HAMP-DURHAM	D E WICKLAND	HQ	C J VOROSMARTY	NAGW 4416	5887
39	UNIV NEW HAMP-DURHAM	M Y WEI	HQ	B MOORE, 111	NAGW 4663	5890
39	UNIV NEW HAMP-DURHAM	M Y WEI	HQ	B MOORE	NAGW 4706	5892
39	UNIV NEW HAMP-DURHAM	D E WICKLAND	HQ	M E MARTIN	NAGW 4783	5893
39	UNIV NEW HAMP-DURHAM	T BRAKE	GSFC	J ABER	NAS 5-31379	5896
39	UNIV NEW HAMP-DURHAM	D M BUTLER	HQ	A D NOBRE	NGT 00-030-059	5900
39	UNIV NEW HAMP-DURHAM	G ASRAR	HQ	W MCDOWELL	NGT 00-030-196	5901
39	UNIV NEW HAMP-DURHAM	A C JANETOS	HQ	J D ABER	NGT 00-030-317	5902
39	PRINCETON UNIVERSITY	S HAKKINEN	GSFC	G L MELLOR	NAG 5-1556	5927
39	PRINCETON UNIVERSITY	E T ENGMAN	GSFC	E WOOD	NAG 5-1628	5928
39	PRINCETON UNIVERSITY	F G HALL	GSFC	E WOOD	NAG 5-2326	5936
39	PRINCETON UNIVERSITY	D E WICKLAND	HQ	S W PACALA	NAGW 3741	5966
39	PRINCETON UNIVERSITY	G ASRAR	HQ	S A LEVIN	NAGW 4688	5968
39	PRINCETON UNIVERSITY	W LAU	GSFC	E WOOD	NAS 5-31719	5970
39	PRINCETON UNIVERSITY	D M BUTLER	HQ	D S LIN	NGT 00-030-049	5973
39	PRINCETON UNIVERSITY	G ASRAR	HQ	S G PHILANDER	NGT 00-030-197	5974
39	RUTGERS ST U-PISCTWY	R H THOMAS	HQ	D A ROBINSON	NAGW 3568	5994
39	RUTGERS ST U-PISCTWY	G ASRAR	HQ	D A ROBINSON	NGT 00-030-164	5996
39	RUTGERS ST U-N BRNSK	D M BUTLER	HQ	M G HUGHES	NGT 00-030-063	6010
39	NEW MEX ST U-LAS CR	R S NOCK	GSFC	J E HALLIGAN	NAS 5-31125	6059
39	UNIV OF NEW MEXICO	A KAHN	HQ	T M BUDGE	NASW 4683	6087
39	UNIV OF NEW MEXICO	B L WHITE	HQ	T L COLEMAN	NCCW 87	6088
39	CITY U OF NY CTY COL	D TRAVIS	GSFC	L P JONES	NCC 5-74	6109
39	COLUMBIA UNIVERSITY	R H THOMAS	HQ	D G MARTINSON	NAGW 4589	6194
39	COLUMBIA UNIVERSITY	L D TRAVIS	GSFC	C E ROSENWEIG	NCC 5-61	6202
39	COLUMBIA UNIVERSITY	D M BUTLER	HQ	K G HARRISON	NGT 00-030-081	6205
39	COLUMBIA UNIVERSITY	G ASRAR	HQ	R BELL	NGT 00-030-166	6207
39	COLUMBIA UNIVERSITY	G ASRAR	HQ	D M PETEET	NGT 00-030-177	6209
39	COLUMBIA UNIVERSITY	G ASRAR	HQ	R G FAIRBANKS	NGT 00-030-185	6210
39	COLUMBIA UNIVERSITY	A C JANETOS	HQ	P N FROELICH	NGT 00-030-278	6214

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39	COLUMBIA UNIVERSITY	M BALTUCK	HQ	T TAKAHASHI	NGT 00-030-337	6216
39	COOPER UNION	V C VANDERBILT	ARC	F L FONTAINE	NCC 2-5101	6221
39	CORNELL UNIVERSITY	M BALTUCK	HQ	B ISACKS	NAGW 2638	6280
39	CORNELL UNIVERSITY	C B PILCHER	HQ	J VEVERKA	NAGW 3320	6288
39	CORNELL UNIVERSITY	W LAU	GSFC	W BRUTSAET	NAS 5-31723	6303
39	CORNELL UNIVERSITY	D M BUTLER	HQ	R J QUALLS	NGT 00-030-065	6307
39	CORNELL UNIVERSITY	J S THEON	HQ	W BRUTSAERT	NGT 00-030-279	6308
39	STATE UNIV NY-ALBANY	F G HALL	GSFC	D B FITZJARRALD	NAG 5-2242	6416
39	STATE UNIV NY-ALBANY	A C JANETOS	HQ	D R FITZJARRALD	NGT 00-030-340	6427
39	STATE U NY-BINGHAMTN	G ASRAR	HQ	N S GOEL	NAGW 2699	6433
39	STATE U NY-STONY BRK	M J KURYLO	HQ	P VARANASI	NAGW 1238	6469
39	STATE U NY-STONY BRK	W LAU	GSFC	M GELLER	NAS 5-31720	6490
39	STATE U NY-STONY BRK	G ASRAR	HQ	A M WALLACE	NGT 00-030-146	6494
39	SYRACUSE UNIVERSITY	G ASRAR	HQ	B J WILSEY	NGT 00-030-124	6511
39	UNIV OF ROCHESTER	V R THORNE	HQ	M J UTELL	NAGW 4599	6523
39	DUKE UNIVERSITY	D R CAHOON	LARC	E S KASISCHKE	NAG 1-1592	6536
39	DUKE UNIVERSITY	D E WICKLAND	HQ	E KASISOHKE	NAGW 4483	6547
39	DUKE UNIVERSITY	D M BUTLER	HQ	A E HARTLEY	NGT 00-030-069	6550
39	DUKE UNIVERSITY	D M BUTLER	HQ	A F CROSS	NGT 00-030-077	6551
39	DUKE UNIVERSITY	G ASRAR	HQ	W H SCHLESINGER	NGT 00-030-199	6552
39	DUKE UNIVERSITY	A C JANETOS	HQ	N L CHRISTENSEN JR.	NGT 00-030-253	6554
39	DUKE UNIVERSITY	A C JANETOS	HQ	W H SCHLESINGER	NGT 00-030-302	6556
39	DUKE UNIVERSITY	A C JANETOS	HQ	R RICHTER	NGT 00-030-305	6557
39	DUKE UNIVERSITY	D E WICKLAND	HQ	B STRAIN	NGT 00-030-333	6558
39	EAST CAROLINA UNIV	D E WICKLAND	HQ	Y WANG	NAGW 4505	6565
39	NO CAR A&T STATE U	R L YANG	LARC	G A UZOCHUKWU	NAG 1-1454	6579
39	NO CAROLINA STATE U	G ASRAR	HQ	C C SPAUR	NGT 00-030-117	6639
39	UNIV N CAR-CHPL HILL	D E WICKLAND	HQ	C S MARTENS	NAGW 1455	6662
39	UNIV N CAR-CHPL HILL	D E WICKLAND	HQ	C S MARTENS	NAGW 3681	6665
39	UNIV OF NORTH DAKOTA	F HASLER	GSFC	C A WOOD	NAG 5-2696	6684
39	CENTRAL ST UNIV-OHIO	B L WHITE	HQ	D J LOVE	NAGW 4077	6796
39	OHIO STATE UNIV	W B KRABILL	GSFC	K C JEZEK	NAG 5-684	6916
39	OHIO STATE UNIV	W B KRABILL	WFF	G HAMILTON	NAG 5-5037	6927
39	OHIO STATE UNIV	R H THOMAS	HQ	K JEZEK	NAGW 2644	6934
39	OHIO STATE UNIV	R H THOMAS	HQ	D H BROMWICH	NAGW 2718	6935
39	OHIO STATE UNIV	R H THOMAS	HQ	D H BROMWICH	NAGW 3677	6939
39	OHIO STATE UNIV	R H THOMAS	HQ	L THOMPSON	NAGW 3933	6941
39	OHIO STATE UNIV	R H THOMAS	HQ	K JEZEK	NAGW 4215	6943
39	OHIO STATE UNIV	M E MAIDEN	HQ	K C JEZEK	NAGW 4744	6949
39	OHIO UNIVERSITY	B MARTIN	KSC	F C HAGERMAN	NGT 00-050-863	6976
39	UNIV OF CINCINNATI	A C JANETOS	HQ	S ISLAM	NGT 00-030-321	7055
39	UNIV OKLAHOMA-NORMAN	A S MCGEE	HQ	M MORRISSEY	NAGW 4551	7140
39	OREGON STATE UNIV	F G HALL	GSFC	L MAHRT	NAG 5-2300	7158
39	OREGON STATE UNIV	F G HALL	GSFC	D MARKS	NAG 5-2301	7159
39	OREGON STATE UNIV	F G HALL	GSFC	R H CUENCA	NAG 5-2377	7160
39	OREGON STATE UNIV	D ADAMEC	HQ	P T STRUB	NAGW 2475	7163
39	OREGON STATE UNIV	M Y WEI	HQ	E C WEYINIRE	NAGW 2707	7164
39	OREGON STATE UNIV	D E WICKLAND	HQ	D O WALLIN	NAGW 3745	7177
39	OREGON STATE UNIV	D E WICKLAND	HQ	B J YODER	NAGW 3870	7178
39	OREGON STATE UNIV	D E WICKLAND	HQ	M H UNSWORTH	NAGW 4436	7181
39	OREGON STATE UNIV	M Y WEI	HQ	E C WAYMIRE	NAGW 4714	7184
39	OREGON STATE UNIV	G ASRAR	HQ	P SOLLINS	NGT 00-030-203	7191
39	OREGON STATE UNIV	A C JANETOS	HQ	J B KAUFMAN	NGT 00-030-249	7192
39	PENN STATE U-UNIV PK	G ASRAR	HQ	T N CARLSON	NAGW 2647	7364
39	PENN STATE U-UNIV PK	R A SCHIFFER	HQ	R G NAJJAR	NAGW 3929	7378
39	PENN STATE U-UNIV PK	M Y WEI	HQ	T N CARLSON	NAGW 4250	7380
39	PENN STATE U-UNIV PK	M Y WEI	HQ	C J DUFFY	NAGW 4401	7382
39	PENN STATE U-UNIV PK	G ASRAR	HQ	K L O'BRIEN	NGT 00-030-152	7408
39	PENN STATE U-UNIV PK	J S THEON	HQ	D LAMB	NGT 00-030-280	7409
39	UNIV OF RHODE ISLAND	M A PINE	HQ	L M CARTER	NAGW 4632	7561

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39	UNIV OF RHODE ISLAND	Y ENLOE	GSFC	P CORNILLON	NCC 5-123	7562
39	U. OF S.C.- COLUMBIA	M R HELFERT	HQ	J JENSEN	NAGW 3169	7609
39	U. OF S.C.- COLUMBIA	C	SSC	J R JENSEN	NAG13-27	7612
39	SO DAKOTA SCHL MINES	T GULL	GSFC	S MCCOLLOH	NAG 5-2950	7622
39	SO DAKOTA SCHL MINES	T BRAKE	GSFC	R WELCH	NAS 5-31718	7630
39	RICE UNIVERSITY	D E WICKLAND	HQ	R L SASS	NAGW 4635	7822
39	RICE UNIVERSITY	D E WICKLAND	HQ	R L SASS	NAGW 4685	7823
39	TEXAS A&M UNIVERSITY	G ASRAR	HQ	J B VALDES	NAGW 2427	7905
39	TEXAS A&M UNIVERSITY	M R HALFERT	HQ	J GIARDINO	NAGW 3186	7908
39	TEXAS A&M UNIVERSITY	M Y WEI	HQ	I RODRIGUEZ-ITURBE	NAGW 4171	7913
39	TEXAS A&M UNIVERSITY	M Y WEI	HQ	J B VALDES	NAGW 4189	7914
39	TEXAS A&M UNIVERSITY	M Y WEI	HQ	I RODRIGUEZ-ITURBE	NAGW 4766	7915
39	TEXAS A&M UNIVERSITY	J S THEON	HQ	J B VALDES	NGT 00-030-287	7923
39	TEXAS A&M UNIVERSITY	D RUSSELL	HQ	M DREW	NGT 00-070-387	7937
39	UNIV HOUSTON-CL LAKE	N G ROBERTSON	JSC	B FITZMAURICE	NAG 9-788	8045
39	UNIV TEXAS-ARLINGTON	D E WICKLAND	HQ	A K FUNG	NAGW 3091	8055
39	UNIV TEXAS-ARLINGTON	K J RANSON	HQ	D P GIBBS	NAGW 3421	8056
39	UNIV TEXAS-AUSTIN	A J ANDERSON	HQ	B TAPLEY	NAGW 2615	8127
39	UNIV TEXAS-AUSTIN	R E MURPHY	HQ	C R WILSON	NAGW 3131	8135
39	UNIV TEXAS-AUSTIN	D E WICKLAND	HQ	M M CRAWFORD	NAGW 3743	8138
39	UNIV TEXAS-AUSTIN	M Y WEI	HQ	J S FAMIGLIETTI	NAGW 4087	8145
39	UNIV TEXAS-AUSTIN	G SOFFE	GSFC	B SCHUTZ	NAS 5-33021	8157
39	UNIV TEXAS-AUSTIN	G ASRAR	HQ	V NUTH	NGT 00-030-001	8164
39	UNIV TEXAS-AUSTIN	G ASRAR	HQ	A SLUYTER	NGT 00-030-129	8165
39	UNIV TEXAS-AUSTIN	G ASRAR	HQ	C PARMESEAN	NGT 00-030-158	8166
39	UNIV TEXAS-DALLAS	C J POLLOCK	MSFC	J H HOFFMAN	NAS 8-39692	8202
39	UNIV TEXAS-EL PASO	M MATEU	HQ	S A STARKS	NCCW 89	8218
39	UNIV TEXAS-S ANTONIO	J C SAAER	KSC	M D DESAI	NAG10-155	8236
39	UNIV OF UTAH	F G HALL	GSFC	J EHLERINGER	NAG 5-2241	8259
39	UTAH STATE UNIV	E T ENGMAN	GSFC	C BINGHAM	NAG 5-2043	8277
39	WEBER STATE COL	F SIX	MSFC	D M VAUGHN	NAG 8-214	8306
39	CHRISTPHR NEWPORT U	D E WICKLAND	HQ	G J WHITING	NAGW 3736	8320
39	NORFOLK STATE UNIV	R HATHAWAY	LARC	S R CHAUDURY	NCC 1-200	8403
39	UNIV OF VIRGINIA	D L WILLIAMS	GSFC	H H SHUGART	NAG 5-1018	8512
39	UNIV OF VIRGINIA	STOCKEY	GSFC	M GARSTANG	NAG 5-1961	8514
39	UNIV OF VIRGINIA	F G HALL	GSFC	H H SHUGART	NAG 5-2295	8518
39	UNIV OF VIRGINIA	D E WICKLAND	HQ	H SHUGART	NAGW 4588	8545
39	UNIV OF VIRGINIA	G ASRAR	HQ	M A LEFSKY	NGT 00-030-157	8559
39	UNIV OF VIRGINIA	J S THEON	HQ	G HORNBERGER	NGT 00-030-241	8560
39	UNIV OF VIRGINIA	F C OWENS	HQ	M GARSTANG	NGT 00-050-722	8563
39	UNIV OF VIRGINIA	F C OWENS	HQ	A L MILLS	NGT 00-050-750	8565
39	NORTHWEST INDIAN COL	A HATCH	ARC	R LORENCE	NAGW 3622	8706
39	UNIV OF WASHINGTON	F G HALL	GSFC	D P LETTENMAIER	NAG 5-2294	8732
39	UNIV OF WASHINGTON	C J TUCKER	GSFC	J B ADAMS	NAG 5-2821	8740
39	UNIV OF WASHINGTON	F HASLER	GSFC	N UNTERSTEINER	NAG 5-2878	8741
39	UNIV OF WASHINGTON	M J KURYLO	HQ	P D QUAY	NAGW 844	8755
39	UNIV OF WASHINGTON	G ASRAR	HQ	D P LETTERMAIER	NAGW 2556	8767
39	UNIV OF WASHINGTON	R E MURPHY	HQ	J E RICHEY	NAGW 2652	8771
39	UNIV OF WASHINGTON	D F WICKLAND	HQ	J B ADAMS	NAGW 3195	8778
39	UNIV OF WASHINGTON	J A KAYE	HQ	J HOLLEN	NAGW 3794	8793
39	UNIV OF WASHINGTON	R H THOMAS	HQ	R COLONY	NAGW 4382	8801
39	UNIV OF WASHINGTON	D E WICKLAND	HQ	J E RICHEY	NAGW 4444	8803
39	UNIV OF WASHINGTON	D E WICKLAND	HQ	J CASTLE	NAGW 4565	8805
39	UNIV OF WASHINGTON	M Y WEI	HQ	D P LETTENMAIER	NAGW 4712	8807
39	UNIV OF WASHINGTON	G ASRAR	HQ	L J CARLSON	NGT 00-030-116	8831
39	UNIV OF WASHINGTON	G ASRAR	HQ	E RISKIN	NGT 00-030-178	8834
39	UNIV OF WASHINGTON	J S THEON	HQ	N UNTERSTEINER	NGT 00-030-282	8836
39	UNIV OF WASHINGTON	R A SCHIFFER	HQ	P V HOBBS	NGT 00-030-335	8839
39	UNIV OF WASHINGTON	A C JANETOS	HQ	D P LETTENMAIER	NGT 00-030-343	8841
39	WEST VIRGINIA UNIV	A S MCGEE	HQ	F CALZONETTI	NAGW 4464	8888

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FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
39	UNIV WISC-MADISON	A ARKING	GSFC	D R JOHNSON	NAG 5-1330	8940
39	UNIV WISC-MADISON	F G HALL	GSFC	S T GOWER	NAG 5-2601	8957
39	UNIV WISC-MADISON	N LAL	GSFC	J W PERCIVAL	NAG 5-2694	8961
39	UNIV WISC-MADISON	F HASLER	GSFC	G DIAK	NAG 5-2877	8968
39	UNIV WISC-MADISON	G ASRAR	HQ	J M NORMAN	NAGW 2536	8988
39	UNIV WISC-MADISON	J C DODGE	HQ	W P MENZEL	NAGW 2973	8996
39	UNIV WISC-MADISON	D M BUTLER	HQ	W L SMITH	NAGW 3732	9003
39	UNIV WISC-MADISON	J C DODGE	HQ	P MENZEL	NAGW 3804	9004
39	UNIV WISC-MADISON	M Y WEI	HQ	G R DIAK	NAGW 4138	9017
39	UNIV WISC-MADISON	D E WICKLAND	HQ	S T GOWER	NAGW 4181	9018
39	UNIV WISC-MADISON	E KREINS	GSFC	W L SMITH	NAS 5-31377	9032
39	UNIV WISC-MADISON	G SOFFEN	GSFC	C BENTLEY	NAS 5-33015	9035
39	UNIV WISC-MADISON	G ASRAR	HQ	R G WAGNER	NGT 00-030-113	9043
39	UNIV OF WYOMING	F G HALL	GSFC	R D KELLY	NAG 5-2240	9072
39	UNIV OF WYOMING	R H THOMAS	HQ	T R PARISH	NAGW 2666	9079
39	UNIV OF WYOMING	A S MCGEE	HQ	W K SMITH	NAGW 4384	9082
39	U PUERTO RICO MED SC	JOYCE	SSC	NORAT	NAG13-29	9087
39	U PUERTO RICO MED SC	D RUSSELL	HQ	J NORAT	NGT 00-070-391	9088
39	U PUERTO RICO-MAYAGZ	W E ESAIAS	GSFC	J M LOPEZ	NAG 5-2909	9091
39	U PUERTO RICO-MAYAGZ	A T JOYCE	SSC	L L RODRIGUEZ	NAG13-17	9098
39	U PUERTO RICO-MAYAGZ	M MATEU	HQ	R F SEIN	NCCW 88	9100
39	U PUERTO RICO-MAYAGZ	A C JANETOS	HQ	J CORREDOR	NGT 00-030-272	9101
39	U PUERTO RICO-RIO PI	B L WHITE	HQ	B R WEINER	NAGW 4059	9119
39	U PUERTO RICO-RIO PI	A T JOYCE	SSC	N FLETCHER	NAG13-18	9120
39	U PUERTO RICO-RIO PI	A JOYCE	SSC	A D CRUZ	NGT 00-070-239	9122
41	AUBURN UNIV-AUBURN	W R WATSON	LARC	M J CROCKER	NAG 1-1467	1024
41	AUBURN UNIV-AUBURN	C LAWRENCE	LERC	G T FLOWERS	NAG 3-1507	1026
41	AUBURN UNIV-AUBURN	R H ESKRIDGE	MSFC	R J HARTFIELD	NAG 8-1017	1030
41	AUBURN UNIV-AUBURN	R G KVATERNIK	LARC	G T FLOWERS	NGT 1-52120	1050
41	TUSKEGEE UNIVERSITY	S O KIELGARD	LARC	D SREE	NAG 1-1549	1059
41	TUSKEGEE UNIVERSITY	L SCHILLING	DFRC	S F ALI	NAG 2-4006	1060
41	TUSKEGEE UNIVERSITY	B MCMAHON	MSFC	D MAHDUZ	NAG 8-1126	1065
41	TUSKEGEE UNIVERSITY	J D COLLINS	KSC	N VAHDAT	NAG10-166	1070
41	TUSKEGEE UNIVERSITY	P FAUGHNAN	KSC	H A AGLAN	NAG10-168	1072
41	TUSKEGEE UNIVERSITY	G PITALO	SSC	E SHEPPARD	NAG13-33	1074
41	TUSKEGEE UNIVERSITY	D K RUSSELL	HQ	E SHEPPARD	NGT 00-090-281	1075
41	UNIV ALA-HUNTSVILLE	B H NERREN	MSFC	G L WORKMAN	NAG 8-1071	1133
41	UNIV ALA-HUNTSVILLE	R H COUNTS	MSFC	LANDRUM	NAG 8-1097	1136
41	UNIV ALA-HUNTSVILLE	M H CARPENTER	LARC	T J CHUNG	NGT 1-52114	1198
41	UNIV ALA-TUSCALOOSA	S GARG	LERC	K S KRISHNAKUMAR	NAG 3-1564	1202
41	UNIV ALA-TUSCALOOSA	R F NIXON	MSFC	J A MARTIN	NAG 8-1026	1217
41	UNIV ALA-TUSCALOOSA	N S BROWN	MSFC	J A MARTIN	NAG 8-1045	1218
41	UNIV ALA-TUSCALOOSA	L EVANS	LARC	A KATZ	NGT 00-051-245	1230
41	UNIV ALA-TUSCALOOSA	C S BUTTRILL	LARC	G D LOCKETT	NGT 1-52103	1235
41	UNIV ALA-TUSCALOOSA	R A THOMPSON	LARC	C J TUCKER	NGT 1-52115	1236
41	ARIZONA STATE UNIV	J R DAGENHART	LARC	W S SARIC	NAG 1-937	1277
41	ARIZONA STATE UNIV	D M BUSHNELL	LARC	W S SARIC	NAG 1-1111	1279
41	ARIZONA STATE UNIV	C L STREETT	LARC	H L REED	NAG 1-1158	1280
41	ARIZONA STATE UNIV	I M GREGORY	LARC	D K SCHMIDT	NAG 1-1341	1281
41	ARIZONA STATE UNIV	T B GATSKI	LARC	R M SO	NAG 1-1399	1282
41	ARIZONA STATE UNIV	J HEEG	LARC	A CHATTOPADHYAY	NAG 1-1648	1284
41	ARIZONA STATE UNIV	T B GATSKI	LARC	R C SO	NAG 1-1722	1285
41	ARIZONA STATE UNIV	L TESSLER	LARC	E MADENCI	NAG 1-1731	1286
41	ARIZONA STATE UNIV	S KOTTAPALLI	ARC	A CHATTOPADHYAY	NAG 2-771	1287
41	ARIZONA STATE UNIV	T L GALLOWAY	ARC	V WELLS	NAG 2-882	1288
41	ARIZONA STATE UNIV	H MIURA	ARC	A CHATTOPADHYAY	NAG 2-908	1289
41	ARIZONA STATE UNIV	D R SCHLEICHER	ARC	V L WELLS	NAG 2-918	1290
41	ARIZONA STATE UNIV	T A EDWARDS	ARC	A CHATTOPADHYAY	NCA 2-778	1334
41	ARIZONA STATE UNIV	J R DAGENHART	LARC	W S SARIC	NCC 1-194	1335
41	ARIZONA STATE UNIV	S B KOTTAPALLI	ARC	A CHATTOPADHYAY	NCC 2-795	1337

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41	ARIZONA STATE UNIV	E TU	ARC	A CHATTOPADHYAY	NCC 2-5064	1338
41	ARIZONA STATE UNIV	E TU	ARC	A CHATTOPADHYAY	NCC 2-5150	1340
41	ARIZONA STATE UNIV	F H SCHITZ	ARC	V L WELLS	NGT 2-52204	1344
41	UNIV OF ARIZONA	C L STREETT	LARC	H F FASEL	NAG 1-1422	1361
41	UNIV OF ARIZONA	K B PASCHAL	LARC	I J WYGNANSKI	NAG 1-1611	1362
41	UNIV OF ARIZONA	C M DARDEN	LARC	S C CROW	NAG 1-1629	1364
41	UNIV OF ARIZONA	J H STARNES	LARC	E MADENCI	NAG 1-1652	1365
41	UNIV OF ARIZONA	S DAVIS	ARC	K Y FUNG	NAG 2-847	1370
41	UNIV OF ARIZONA	L J HEIDELBERG	LERC	E KERSCHEN	NAG 3-1442	1378
41	UNIV OF ARIZONA	L S HULTGREEN	LERC	E J KERSCHEN	NAG 3-1524	1381
41	UNIV OF ARIZONA	L J HEIDELBERG	LERC	E J KERSCHEN	NAG 3-1769	1383
41	UNIV OF ARIZONA	T D SWANSON	GSFC	K R SRIDHAR	NAG 5-1572	1388
41	UNIV OF ARIZONA	M M JUROTICH	GSFC	R L THOMPSON	NAS 5-31289	1531
41	UNIV OF ARIZONA	R E BACH	ARC	E K PARKS	NCC 2-329	1536
41	UNIV OF ARIZONA	G S SEIDEL	HQ	K RAMOHALLI	NGT 00-010-020	1542
41	UNIV OF ARIZONA	V BITTINGEN	HQ	D C LYNCH	NGT 00-010-035	1543
41	UNIV ARKANSAS-LTL RK	ST.CYR	SSC	K HUDSON	NAG13-31	1589
41	CALIF INST OF TECH	T S GATES	LARC	W G KNAUSS	NAG 1-1203	1601
41	CALIF INST OF TECH	R C ROGERS	LARC	H G HORNUNG	NAG 1-1209	1602
41	CALIF INST OF TECH	M J BRENNER	ARC	J C DOYLE	NAG 2-792	1604
41	CALIF INST OF TECH	J H STARNES	LARC	W G KNAUSS	NSG-1483	1737
41	CAL POLY ST U-S LUIS	R J RAY	ARC	T W CARPENTER	NAG 2-778	1738
41	CAL POLY ST U-S LUIS	M MADISON	ARC	J G LOCASCIO	NAG 2-932	1740
41	CAL POLY ST U-S LUIS	R RAY	DFRC	T W CARPENTER	NAG 4-101	1741
41	CAL POLY ST U-S LUIS	A H BOWERS	DFRC	T W CARPENTER	NAG 4-102	1742
41	CAL POLY ST U-S LUIS	K MCALISTER	ARC	J TSO	NCA 2-811	1744
41	CAL POLY ST U-S LUIS	P T SODERMAN	ARC	J TSO	NCA 2-816	1745
41	CAL POLY ST U-S LUIS	A H BOWERS	ARC	T W CARPENTER	NCC 2-748	1746
41	CAL POLY ST U-S LUIS	H N SWENSON	ARC	D J BIEZAD	NCC 2-775	1747
41	CAL POLY ST U-S LUIS	G C HILL	ARC	D J BIEZAD	NCC 2-800	1748
41	CAL POLY ST U-S LUIS	J R ROSS	ARC	R M CUMMINGS	NCC 2-813	1749
41	CAL POLY ST U-S LUIS	M B TISCHLER	ARC	D BIEZAD	NCC 2-833	1750
41	CAL POLY ST U-S LUIS	P A GELHAUSEN	ARC	D BIEZAD	NCC 2-834	1751
41	CAL POLY ST U-S LUIS	P A GELHAUSEN	ARC	D J BIEZAD	NCC 2-855	1752
41	CAL POLY ST U-S LUIS	J C ROSS	ARC	R M CUMMINGS	NCC 2-857	1753
41	CAL POLY ST U-S LUIS	A H BOWERS	DFRC	T W CARPENTER	NCC 2-4003	1755
41	CAL POLY ST U-S LUIS	D VORACEK	ARC	F KOLKAILAH	NCC 2-5031	1756
41	CAL POLY ST U-S LUIS	D VORACEK	DFRC	F A KOLKAILAH	NCC 2-5110	1757
41	CAL POLY ST U-S LUIS	G S SEIDEL	HQ	R M CUMMINGS	NGT 00-010-012	1758
41	CAL STATE U-L ANGLES	R A WAHLS	LARC	C C WU	NCC 1-174	1770
41	CAL STATE U-NRTHRDE	K GUPTA	ARC	P K RUSSELL	NCA 2-790	1777
41	CAL STATE U-NRTHRDE	A H BOWERS	ARC	S D SCHWARTZ	NCC 2-821	1779
41	LOYOLA MARYMOUNT U	K GUPTA	ARC	B OPPENHEIM	NAG 2-4007	1794
41	SAN DIEGO STATE UNIV	J ROSS	ARC	J KATZ	NCA 2-786	1805
41	SAN DIEGO STATE UNIV	J ROSS	ARC	J KATZ	NCC 2-5124	1806
41	SAN JOSE STATE UNIV	G S DEIWERT	ARC	R DESAUTEL	NCC 2-858	1852
41	SAN JOSE STATE UNIV	W C HORNE	ARC	N J MOURTOS	NCC 2-5063	1855
41	SANTA CLARA UNIV	B SRIDHAR	ARC	P K MENON	NCC 2-841	1876
41	SANTA CLARA UNIV	V H CHENG	ARC	P K MENON	NCC 2-5019	1877
41	SANTA CLARA UNIV	H MIURA	ARC	M D ARDEMA	NCC 2-5068	1878
41	SANTA CLARA UNIV	J V BOWLES	ARC	M D ARDEMA	NCC 2-5069	1879
41	STANFORD UNIVERSITY	J F BARTHELEMY	LARC	I M KROO	NAG 1-1558	1889
41	STANFORD UNIVERSITY	S K ROBINSON	LARC	S J KLINE	NAG 1-1610	1890
41	STANFORD UNIVERSITY	S K ROBINSON	LARC	P BRADSHAW	NAG 1-1614	1891
41	STANFORD UNIVERSITY	H MIURA	ARC	I KROO	NAG 2-640	1894
41	STANFORD UNIVERSITY	T A LASINSKI	ARC	L HESSELINK	NAG 2-701	1896
41	STANFORD UNIVERSITY	D VITAGLIANO	GSFC	J G TIMOTHY	NAS 5-29389	1948
41	STANFORD UNIVERSITY	D C REDA	ARC	R J MOFFAT	NCA 2-807	1956
41	STANFORD UNIVERSITY	S P SHARMA	ARC	D BERSHADER	NCA 2-812	1957
41	STANFORD UNIVERSITY	J A CAVOLOWSKY	ARC	R K HANSON	NCA 2-828	1958

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41	STANFORD UNIVERSITY	J A CAVOLOWSKY	ARC	R K HANSON	NCA 2-829	1959
41	STANFORD UNIVERSITY	P GOORJIAN	ARC	R W MACCORMACK	NCA 2-830	1960
41	STANFORD UNIVERSITY	C A SMITH	ARC	L ROBERTS	NCC 2-55	1961
41	STANFORD UNIVERSITY	B SRIDHAR	ARC	S M ROCK	NCC 2-844	1970
41	STANFORD UNIVERSITY	R E SUDRSA	ARC	S M ROCK	NCC 2-891	1972
41	STANFORD UNIVERSITY	D A JOHNSON	ARC	J EATON	NCC 2-5001	1975
41	STANFORD UNIVERSITY	C TUNG	ARC	D BERSHADER	NCC 2-5002	1976
41	STANFORD UNIVERSITY	R CHEN	ARC	S ROCK	NCC 2-5020	1977
41	STANFORD UNIVERSITY	K SHARIFF	ARC	B K YAKUB	NCC 2-5033	1980
41	STANFORD UNIVERSITY	H MIRUA	ARC	I KROO	NCC 2-5059	1982
41	STANFORD UNIVERSITY	S SHARMA	ARC	G S SPRINGER	NCC 2-5065	1983
41	STANFORD UNIVERSITY	D KWAK	ARC	B J CANTWELL	NCC 2-5070	1985
41	STANFORD UNIVERSITY	G S DEIWERT	ARC	B J CANTWELL	NCC 2-5071	1986
41	STANFORD UNIVERSITY	W J FEIEREISEN	ARC	D BAGANOFF	NCC 2-5072	1987
41	STANFORD UNIVERSITY	N N MANSOUR	ARC	P BRADSHAW	NCC 2-5089	1990
41	STANFORD UNIVERSITY	W R VAN DALSEM	ARC	L HESSELINK	NCC 2-5095	1991
41	STANFORD UNIVERSITY	R D MOSER	ARC	B J CANTWELL	NCC 2-5103	1993
41	STANFORD UNIVERSITY	R M HABERLE	ARC	G SPRINGER	NCC 2-5133	1998
41	STANFORD UNIVERSITY	D KWAK	ARC	B J CANTWELL	NCC 2-5145	2002
41	STANFORD UNIVERSITY	J ROSS	ARC	D BAGANOFF	NCC 2-5155	2003
41	STANFORD UNIVERSITY	G S SEIDEL	HQ	I KROO	NGT 00-010-018	2005
41	STANFORD UNIVERSITY	S GOLDSTEIN	JSC	R H CANNON	NGT 00-051-056	2017
41	STANFORD UNIVERSITY	M MOORE	ARC	B CANTWELL	NGT 00-051-308	2021
41	STANFORD UNIVERSITY	M MOORE	ARC	B CANTWELL	NGT 00-070-277	2026
41	STANFORD UNIVERSITY	D K RUSSELL	HQ	D BERSHADER	NGT 00-070-330	2028
41	STANFORD UNIVERSITY	D K RUSSELL	HQ	O KHATIB	NGT 00-070-348	2031
41	STANFORD UNIVERSITY	B HINE	ARC	R H CANNON	NGT 2-52207	2038
41	STANFORD UNIVERSITY	K SHARIFF	ARC	P W MAC CORMACK	NGT 2-52209	2040
41	UNIV CALIF-BERKELEY	R ALEMAN	GSFC	C W CARLSON	NAS 5-31283	2177
41	UNIV CALIF-BERKELEY	R DONNELLY	GSFC	S KAHN	NAS 5-31429	2178
41	UNIV CALIF-BERKELEY	J A CAVOLOWSKY	ARC	F C HURLBUT	NCA 2-757	2182
41	UNIV CALIF-BERKELEY	G S DEIWERT	ARC	M HOLT	NCC 2-5032	2193
41	UNIV CALIF-BERKELEY	T L HOLST	ARC	M HOLT	NCC 2-5035	2194
41	UNIV CALIF-DAVIS	J M BRANDON	LARC	C VANDAM	NAG 1-1572	2244
41	UNIV CALIF-DAVIS	B J BACON	LARC	R A HESS	NAG 1-1744	2245
41	UNIV CALIF-DAVIS	D T BERRY	ARC	R A HESS	NAG 2-654	2247
41	UNIV CALIF-DAVIS	M OMURA	ARC	M HAFEZ	NAG 2-927	2252
41	UNIV CALIF-DAVIS	C A SMITH	ARC	H DWYER	NAG 2-1014	2255
41	UNIV CALIF-DAVIS	K GUPTA	ARC	F O EKE	NAG 2-4003	2256
41	UNIV CALIF-DAVIS	F X CARADONNA	ARC	J J CHATTOT	NCA 2-837	2278
41	UNIV CALIF-DAVIS	L P YIP	LARC	C P VAN DAM	NCC 1-163	2279
41	UNIV CALIF-DAVIS	J H WHITEHEAD	LARC	C P VAN DAM	NCC 1-207	2280
41	UNIV CALIF-DAVIS	D KWAK	ARC	M HAFEZ	NCC 2-873	2284
41	UNIV CALIF-DAVIS	P A GELHAUSEN	ARC	M M HAFEZ	NCC 2-880	2285
41	UNIV CALIF-DAVIS	Y LIU	ARC	J CHATTOT	NCC 2-5004	2288
41	UNIV CALIF-DAVIS	R HICKS	ARC	M HAFEZ	NCC 2-5012	2289
41	UNIV CALIF-DAVIS	P A GELHAUSEN	ARC	M HAFEZ	NCC 2-5027	2290
41	UNIV CALIF-DAVIS	P A GELHAUSEN	ARC	C P VAN DAM	NCC 2-5042	2291
41	UNIV CALIF-DAVIS	S L LAWRENCE	ARC	J J CHATTOT	NCC 2-5043	2292
41	UNIV CALIF-DAVIS	E TU	ARC	M M HAFEZ	NCC 2-5049	2294
41	UNIV CALIF-DAVIS	E TU	ARC	M M HAFEZ	NCC 2-5050	2295
41	UNIV CALIF-DAVIS	E P DUQUE	ARC	C VAN DAM	NCC 2-5061	2297
41	UNIV CALIF-DAVIS	P BUNING	ARC	M HAFEZ	NCC 2-5085	2299
41	UNIV CALIF-DAVIS	E P DUQUE	ARC	C P VAN DAM	NCC 2-5137	2303
41	UNIV CALIF-IRVINE	J M SEINER	LARC	D PAPAMOSCHOV	NAG 1-1729	2319
41	UNIV CALIF-IRVINE	J D HOLDEMAN	LERC	G S SAMUELSEN	NAG 3-1110	2325
41	UNIV CALIF-IRVINE	R R TALINA	LERC	G S SAMUELSEN	NAG 3-1124	2326
41	UNIV CALIF-IRVINE	J D HOLDEMAN	LERC	G S SAMUELSEN	NCC 3-412	2348
41	UNIV CALIF-L ANGELES	H M ADELMAN	LARC	P P FRIEDMANN	NAG 1-833	2359
41	UNIV CALIF-L ANGELES	T B GATSKI	LARC	H O KREISS	NAG 1-1428	2363

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41	UNIV CALIF-L ANGELES	S A JACKLIN	ARC	P FRIEDMANN	NAG 2-477	2364
41	UNIV CALIF-L ANGELES	M J RUTKOWSKI	ARC	P P FRIEDMAN	NAG 2-835	2370
41	UNIV CALIF-L ANGELES	M MOORE	ARC	P P FRIEDMAN	NGT 00-051-173	2492
41	UNIV CALIF-SAN DIEGO	T B GATSKI	LARC	P A LIBBY	NAG 1-1193	2511
41	UNIV CALIF-SAN DIEGO	R C LAKE	LARC	J B KOSMATKA	NAG 1-1445	2513
41	UNIV CALIF-SAN DIEGO	J DRUMMOND	LARC	S SARKAR	NAG 1-1516	2514
41	UNIV CALIF-SAN DIEGO	W E ZORUMSKI	LARC	S SARKAR	NAG 1-1535	2515
41	UNIV CALIF-S BARBARA	J H STARNES	LARC	K T KEDWARD	NAG 1-1376	2648
41	COLORADO STATE UNIV	R J GUNDERMAN	LERC	V N BRINGI	NAS 3-26410	2813
41	UNIV COLORADO-BOLDR	C L STREETT	LARC	S BIRINGEN	NAG 1-1161	2838
41	UNIV COLORADO-BOLDR	W E ZORUMSKI	LARC	S BIRINGEN	NAG 1-1472	2844
41	UNIV COLORADO-BOLDR	J H STARNES	LARC	M M MIKULAS	NAG 1-1642	2850
41	UNIV COLORADO-BOLDR	M D RHODES	LARC	M MUKULAS	NAG 1-1700	2851
41	UNIV COLORADO-BOLDR	A C WOO	ARC	C FARHAT	NAG 2-827	2857
41	UNIV COLORADO-BOLDR	C C CHAMIS	LERC	C FILIPPA	NAG 3-1425	2868
41	UNIV COLORADO-BOLDR	S C CHANG	LERC	C Y CHOW	NAG 3-1566	2869
41	UNIV COLORADO-BOLDR	J W KAUFMAN	MSFC	J E HART	NAG 8-1077	2947
41	UNIV COLORADO-BOLDR	D KESSLER	JSC	R CULP	NAG 9-407	2952
41	UNIV COLORADO-BOLDR	J LANDERS	HQ	D LAWRENCE	NASW 4879	3056
41	UNIV COLORADO-BOLDR	T HOLST	ARC	S BIRINGEN	NCC 2-5014	3060
41	UNIV COLORADO-BOLDR	S KANT	GSFC	P AXELRAD	NCC 5-67	3064
41	UNIV COLORADO-BOLDR	R A GUALDONI	HQ	R R HANSEN	NCCW 37	3065
41	UNIV COLORADO-BOLDR	V BITTINGER	HQ	R SU	NGT 00-010-033	3066
41	UNIV COLORADO-BOLDR	S GOLDSTEIN	JSC	R CULP	NGT 00-050-872	3093
41	UNIV COLORADO-BOLDR	H ASHKENAS	JPL	G H BAM	NGT 00-050-887	3094
41	UNIV COLORADO-BOLDR	F SIX	MSFC	L D PETERSON	NGT 00-050-954	3101
41	UNIV COLORADO-BOLDR	E PRIOR	LARC	S BIRINGEN	NGT 00-050-985	3104
41	UNIV COLORADO-BOLDR	G SOFFEN	GSFC	D E SMITH	NGT 00-051-034	3105
41	UNIV COLORADO-BOLDR	C HIX	JPL	R R LEBEN	NGT 00-051-040	3106
41	UNIV COLORADO-BOLDR	G LESANE	HQ	R LEBEN	NGT 00-051-128	3108
41	UNIV COLORADO-BOLDR	G LESANE	HQ	G BORN	NGT 00-051-141	3110
41	UNIV COLORADO-BOLDR	B SWINFORD	MSFC	J N KOSTER	NGT 00-051-179	3111
41	UNIV COLORADO-BOLDR	G SOFFEN	GSFC	P AXELRAD	NGT 00-051-227	3114
41	UNIV COLORADO-BOLDR	G SOFFEN	GSFC	B M ARGROW	NGT 00-051-271	3116
41	UNIV COLORADO-BOLDR	D HOLLAND	HQ	G W MORGENTHALER	NGT 00-051-297	3120
41	UNIV COLORADO-BOLDR	G LESANE	HQ	P TODD	NGT 00-051-421	3126
41	UNIV COLORADO-BOLDR	F C OWENS	HQ	M W LUTTGES	NGT 00-070-242	3127
41	UNIV COLORADO-BOLDR	D K RUSSELL	HQ	G W ROSBOROUGH	NGT 00-070-266	3128
41	UNIV COLORADO-DENVER	R D JOSLIN	LARC	C LIU	NAG 1-1537	3137
41	UNIV COLORADO-DENVER	C H LIU	LARC	C LIU	NAG 1-1651	3138
41	YALE UNIVERSITY	C LEE	LERC	Y CHAI	NAG 3-1752	3176
41	UNIV OF DELAWARE	J P GYEKENYESI	LERC	T W CHOU	NAS 3-25791	3221
41	UNIV OF DELAWARE	G S SEIDEL	HQ	D J WILKINS	NGT 00-010-022	3223
41	GEORGE WASHINGTON U	H C NEEDLEMAN	GSFC	F BAGINSKI	NAG 5-697	3239
41	GEORGE WASHINGTON U	R L YANG	LARC		NAS 1-19699	3249
41	GEORGE WASHINGTON U	L R CLARK	LARC	H LIEBOWITZ	NCC 1-14	3250
41	GEORGE WASHINGTON U	R T BRIGHT	LARC	H LIEBOWITZ	NCC 1-24	3251
41	GEORGE WASHINGTON U	P C MURPHY	LARC	H LIEBOWITZ	NCC 1-29	3252
41	GEORGE WASHINGTON U	R L YANG	LARC	J L WHITESIDES	NCC 1-47	3253
41	GEORGE WASHINGTON U	E C WYNNE	LARC	R H TOLSON	NCC 1-208	3255
41	GEORGE WASHINGTON U	G S DISKIN	LARC	A D CUTLER	NCC 1-217	3256
41	EMBRY-RIDDLE AERO U	B J HOLMES	LARC	L W MOTREL	NCA 1-129	3326
41	EMBRY-RIDDLE AERO U	L CREDEUR	LARC	G W LOHR	NCC 1-66	3327
41	FLA INTERNATIONAL U	A M MITSKEVICH	KSC	M A CENTENO	NAG10-150	3336
41	FLORIDA A&M UNIV	D G FLETCHER	ARC	J A JOHNSON III	NAG 2-929	3343
41	FLORIDA A&M UNIV	A L JOHNS	LERC	A KROTHAPALLI	NAG 3-1663	3345
41	FLORIDA ATLANTIC U	J W POSEY	LARC	S A GLEGG	NAG 1-1202	3356
41	FLORIDA ATLANTIC U	J H STARNES	LARC	I ELISHAKOFF	NAG 1-1310	3357
41	FLORIDA ATLANTIC U	R A ORMISTON	ARC	G H GAONKAR	NAG 2-797	3358
41	FLORIDA ATLANTIC U	T H GUO	LERC	A DUYAR	NAG 3-1324	3361

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41	FLORIDA INST OF TECH	M J WALSH	LARC	C S SUBRAMANIAN	NAG 1-1541	3369
41	FLORIDA STATE UNIV	R A GOLUB	LARC	C K TAM	NAG 1-421	3381
41	FLORIDA STATE UNIV	T A ZANG	LARC	D A KOPRIVA	NAG 1-862	3382
41	FLORIDA STATE UNIV	J M SEINER	LARC	A KROTHAPALLI	NAG 1-1497	3384
41	FLORIDA STATE UNIV	D L HUFF	LERC	K W TAM	NAG 3-1267	3386
41	FLORIDA STATE UNIV	E A KREJSA	LERC	C K TAM	NAG 3-1683	3388
41	UNIV OF CENTRAL FLA	S K ROBINSON	LARC	L CHEW	NAG 1-1402	3421
41	UNIV OF CENTRAL FLA	T S BARTH	KSC	W W SWART	NAG10-101	3426
41	UNIV OF CENTRAL FLA	J HODGES	KSC	S DUTCZAK	NAG10-136	3436
41	UNIV OF CENTRAL FLA	R LEE	KSC	V H DESAI	NAG10-163	3442
41	UNIV OF FLORIDA	W L SELLERS	LARC	B F CARROL	NAG 1-1486	3457
41	UNIV OF FLORIDA	J H STARNES	LARC	R T HAFTKA	NAG 1-1669	3458
41	UNIV OF FLORIDA	L A BURKARDT	LERC	V P ROAN	NAG 3-1187	3464
41	UNIV OF FLORIDA	K TUCKER	MSFC	W SHYY	NAG 8-177	3470
41	CLARK ATLANTA UNIV	J H STARNES	LARC	A BADIR	NAG 1-1714	3577
41	CLARK ATLANTA UNIV	T S GATES	LARC	D R VEAZIE	NAG 1-1727	3578
41	CLARK ATLANTA UNIV	E M LEE-RAUSCH	LARC	J SINGH	NAG 1-1760	3579
41	CLARK ATLANTA UNIV	H D ROSS	LERC	Y D YEBOAH	NAG 3-1773	3582
41	GEORGIA INST OF TECH	J D MCMINN	LARC	A J CALISE	NAG 1-1451	3599
41	GEORGIA INST OF TECH	E G WAGGONER	LARC	R J ENGLAR	NAG 1-1517	3600
41	GEORGIA INST OF TECH	R P WESTON	LARC	D P SCHRAGE	NAG 1-1564	3601
41	GEORGIA INST OF TECH	G L GILES	LARC	D N MAVRIS	NAG 1-1662	3605
41	GEORGIA INST OF TECH	S E TANNER	LARC	K K AHUJA	NAG 1-1734	3606
41	GEORGIA INST OF TECH	T L HOST	ARC	L N SANKAR	NAG 2-869	3613
41	GEORGIA INST OF TECH	T L GALLOWAY	ARC	D P SCHRAGE	NAG 2-900	3615
41	GEORGIA INST OF TECH	E KREJSA	LERC	K K AHUJA	NAG 3-1066	3619
41	GEORGIA INST OF TECH	H D ROSS	LERC	S MENON	NAG 3-1610	3624
41	GEORGIA INST OF TECH	E A KREJSA	LERC	K K ATIUJA	NAG 3-1682	3627
41	GEORGIA INST OF TECH	W P PANNELL	GSFC	J R OLDS	NAG 8-1202	3643
41	GEORGIA INST OF TECH	L R CLARK	LARC	K AHUJA	NAS 1-19061	3662
41	GEORGIA INST OF TECH	C TUNG	ARC	J C WU	NCA 2-747	3667
41	GEORGIA INST OF TECH	T GALLOWAY	ARC	D P SCHRAGE	NCA 2-771	3668
41	GEORGIA INST OF TECH	R N CHEN	ARC	P J CALISE	NCC 2-922	3671
41	GEORGIA INST OF TECH	F CARADONNA	ARC	N L SANKAR	NCC 2-5141	3673
41	GEORGIA INST OF TECH	G S SEIDEL	HQ	D P SCHRAGE	NGT 00-010-007	3675
41	GEORGIA INST OF TECH	J T LYNCH	HQ	D SCHRAGE	NGT 00-051-101	3684
41	GEORGIA INST OF TECH	D K RUSSELL	HQ	W M HADDAD	NGT 00-070-315	3695
41	GEORGIA INST OF TECH	G L GILES	LARC	M R KIRBY	NGT 1-52111	3709
41	UNIV OF IDAHO	D V GALLOWAY	HQ	D H ATKINSON	NGT 00-010-003	3869
41	ILL INST OF TECH	M J WALSH	LARC	C E WARK	NAG 1-1532	3873
41	ILL INST OF TECH	R R MANKBADI	LERC	T C CORKE	NAG 3-1519	3874
41	ILL INST OF TECH	S P WILKINSON	LARC	T C CORKE	NCC 1-167	3875
41	NORTHWESTERN UNIV	T S GATES	LARC	L C BRINSON	NAG 1-1654	3884
41	UNIV OF CHICAGO	R YEE	ARC	R A LOEWINSTEIN	NAG 2-6001	3938
41	UNIV ILLINOIS-URBANA	M J WALSH	LARC	R J ADRIAN	NAG 1-1530	4045
41	UNIV ILLINOIS-URBANA	C L STREET	LARC	S BALACHANDAR	NAG 1-1583	4047
41	UNIV ILLINOIS-URBANA	W T KRAMER	ARC	C D WICKENSW	NAG 2-996	4059
41	UNIV ILLINOIS-URBANA	L FREUDINGER	DFRC	L BERGMAN	NAG 2-4001	4060
41	UNIV ILLINOIS-URBANA	J D HOLDEMAN	LERC	S P VANKA	NAG 3-1026	4061
41	UNIV ILLINOIS-URBANA	M G POTAPCZUK	LERC	M B BRAGG	NAG 3-1134	4062
41	UNIV ILLINOIS-URBANA	Y K CHOO	LERC	K D LEE	NAG 3-1148	4063
41	UNIV ILLINOIS-URBANA	J SHIN	LERC	M B BRAGG	NAG 3-1681	4070
41	UNIV ILLINOIS-URBANA	S E ROGERS	ARC	K D LEE	NCA 2-833	4100
41	UNIV ILLINOIS-URBANA	J SHIN	LERC	M S SELIG	NCC 3-408	4103
41	UNIV ILLINOIS-URBANA	F MONTEGANI	LERC	M B BRAGG	NGT 00-051-051	4111
41	IND U-PURDUE-INDAPLS	R A BLECH	LERC	A ECER	NAG 3-1577	4132
41	PURDUE UNIVERSITY	R J SILCOX	LARC	R J BERNHARD	NAG 1-58	4154
41	PURDUE UNIVERSITY	R C SCOTT	LARC	T A WEISSHAAR	NAG 1-157	4155
41	PURDUE UNIVERSITY	J W EDWARDS	LARC	H T YANG	NAG 1-372	4156
41	PURDUE UNIVERSITY	T OWENS	LARC	S P SCHNEIDER	NAG 1-1133	4157

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41	PURDUE UNIVERSITY	D L GRAY	LARC	S P SCHNEIDER	NAG 1-1201	4158
41	PURDUE UNIVERSITY	T S GATES	LARC	C T SUN	NAG 1-1366	4161
41	PURDUE UNIVERSITY	T B GATSKI	LARC	A BLAISDELL	NAG 1-1509	4163
41	PURDUE UNIVERSITY	S A RIZZI	LARC	J F DOYLE	NAG 1-1526	4164
41	PURDUE UNIVERSITY	J P WEIDNER	LARC	S N MURTHY	NAG 1-1601	4165
41	PURDUE UNIVERSITY	S P WILKINSON	LARC	S P SCHNEIDER	NAG 1-1607	4166
41	PURDUE UNIVERSITY	K R MENDOWS	LARC	A S LYRINTZIO	NAG 1-1660	4167
41	PURDUE UNIVERSITY	S A RIZZI	LARC	J F DOYLE	NAG 1-1749	4168
41	PURDUE UNIVERSITY	L L ERICKSON	ARC	J P SULLIVAN	NAG 2-854	4169
41	PURDUE UNIVERSITY	R J STEINKE	LERC	S N MURTHY	NAG 3-481	4171
41	PURDUE UNIVERSITY	G L STEFKO	LERC	M H WILLIAMS	NAG 3-499	4172
41	PURDUE UNIVERSITY	D HOYNIK	LERC	P S FLEETER	NAG 3-656	4173
41	PURDUE UNIVERSITY	L F SCHUMANN	LERC	S FLEETER	NAG 3-1207	4175
41	PURDUE UNIVERSITY	D N BOWDITCH	LERC	S N MURTHY	NAG 3-1291	4176
41	PURDUE UNIVERSITY	D H BUFFUM	LERC	S FLEETER	NAG 3-1730	4179
41	PURDUE UNIVERSITY	K J KACYNSKI	LERC	S H COLLICOTT	NAG 3-1766	4180
41	PURDUE UNIVERSITY	H D FUHRMAN	LARC	J R SULLIVAN	NAS 1-20270	4201
41	PURDUE UNIVERSITY	S S DAVIS	ARC	J SULLIVAN	NCC 2-5115	4205
41	PURDUE UNIVERSITY	G S SEIDEL	HQ	T A WEISSHAAR	NGT 00-010-004	4207
41	PURDUE UNIVERSITY	C HIX	JPL	J M LONGUSKI	NGT 00-051-129	4218
41	PURDUE UNIVERSITY	D K RUSSELL	HQ	R SKELTON	NGT 00-070-313	4221
41	PURDUE UNIVERSITY	K K GUPTA	DFRC	A E FRAZHO	NGT 4-52400	4224
41	UNIV OF NOTRE DAME	J SORIESKI	LARC	J E RENAUD	NAG 1-1561	4227
41	UNIV OF NOTRE DAME	L L ERICKSON	ARC	R C NELSON	NAG 2-905	4228
41	UNIV OF NOTRE DAME	J F GROENEWEG	LERC	H M ATASSI	NAG 3-732	4229
41	UNIV OF NOTRE DAME	D FISHER	ARC	R C NELSON	NCA 2-730	4240
41	UNIV OF NOTRE DAME	L VERNON	ARC	S M BATILL	NCA 2-753	4241
41	UNIV OF NOTRE DAME	L E PUTNAM	LARC	S M BATILL	NCC 1-177	4242
41	UNIV OF NOTRE DAME	D F FISHER	DFRC	R C NELSON	NCC 2-5056	4243
41	UNIV OF NOTRE DAME	D FISHER	DFRC	R C NELSON	NCC 2-5128	4244
41	IOWA STATE UNIV	T A EDWARDS	ARC	J C TANNEHILL	NAG 2-776	4256
41	IOWA STATE UNIV	K L SUDER	LERC	T H OKIISHI	NAG 3-1302	4259
41	IOWA STATE UNIV	M D HATHAWAY	LERC	T H OKIISHI	NAG 3-1427	4261
41	IOWA STATE UNIV	B A REICHERT	LERC	T H OKIISHI	NAG 3-1561	4263
41	IOWA STATE UNIV	E PRIOR	LARC	A ROTHMAYER	NGT 00-051-009	4288
41	IOWA STATE UNIV	D K RUSSELL	HQ	P LU	NGT 00-070-305	4292
41	IOWA STATE UNIV	D K RUSSELL	HQ	B PIERSON	NGT 00-070-347	4293
41	KANSAS STATE UNIV	R K GREIF	ARC	P J GORDER	NCC 2-871	4360
41	UNIV OF KANSAS	R J SILCOX	LARC	T W LIM	NAG 1-1735	4361
41	UNIV OF KANSAS	D L CLER	LARC	S FAROKHI	NCC 1-172	4376
41	UNIV OF KANSAS	J GERA	ARC	D R DOWNING	NCC 2-588	4377
41	UNIV OF KANSAS	E W AIKEN	ARC	D R DOWNING	NCC 2-805	4378
41	UNIV OF KANSAS	J M ABBOTT	LERC	R TAGHAVI	NCC 3-251	4379
41	WICHITA STATE UNIV	T K O'BRIEN	LARC	S J HOOPER	NAG 1-1488	4390
41	WICHITA STATE UNIV	G S BIDWELL	LERC	G W ZUMWALT	NAG 3-566	4392
41	WICHITA STATE UNIV	C S BIDWELL	LERC	D PAPADAKIS	NAG 3-1775	4394
41	WICHITA STATE UNIV	W E RICKS	LARC	H WILLIFORD	NCA 1-106	4395
41	WICHITA STATE UNIV	B J HOLMES	LARC	D R ELLIS	NCC 1-195	4397
41	WICHITA STATE UNIV	T H BOND	LERC	D R ELLIS	NCC 3-347	4398
41	LA ST U&A&M COL-BRGE	J R SCHWAB	LERC	S ACHARYA	NAG 3-1641	4422
41	SO UNIV & A&M COL-BR	M B TISCHLER	ARC	G S GREWAL	NAG 2-1006	4464
41	SO UNIV & A&M COL-BR	D F NOGA	LERC	D MOREMAN	NAG 3-1662	4466
41	SO UNIV & A&M COL-BR	I M BLANKSON	HQ	V T MONTGOMERY	NAGW 3882	4468
41	SO UNIV & A&M COL-BR	K THOMPSON	KSC	R M DIWAN	NAG10-127	4471
41	UNIV SOUTHWESTERN LA	K P KUNDU	LERC	N S WINOWICH	NAG 3-1733	4494
41	JOHNS HOPKINS UNIV	E I MADARAS	LARC	J W WAGNER	NAG 1-1740	4526
41	JOHNS HOPKINS UNIV	D VITABLANO	GSFC	W MOOS	NAS 5-30403	4624
41	MORGAN STATE UNIV	G S SEIDEL	HQ	C J SCOTT	NGT 00-010-005	4644
41	UNIV MARYLAND-COL PK	T A ZANG	LARC	U PIOMELLI	NAG 1-1089	4652
41	UNIV MARYLAND-COL PK	S BAUER	LARC	J D ANDERSON	NAG 1-1192	4653

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41	UNIV MARYLAND-COL PK	A KUMAR	LARC	M J LEWIS	NAG 1-1333	4655
41	UNIV MARYLAND-COL PK	M J WALSH	LARC	J M WALLACE	NAG 1-1528	4658
41	UNIV MARYLAND-COL PK	L M GREGORY	LARC	D K SCHMIDT	NAG 1-1540	4659
41	UNIV MARYLAND-COL PK	K S BRENTNER	LARC	J D BAEDER	NAG 1-1655	4662
41	UNIV MARYLAND-COL PK	D M BUSHNELL	LARC	J D ANDERSON	NAG 1-1730	4663
41	UNIV MARYLAND-COL PK	M B TISCHLER	ARC	R CELI	NAG 2-793	4667
41	UNIV MARYLAND-COL PK	M B TISCHLER	ARC	W S LEVINE	NAG 2-794	4668
41	UNIV MARYLAND-COL PK	S R KOTTAPALLI	ARC	I CHOPRA	NAG 2-889	4670
41	UNIV MARYLAND-COL PK	C KITAPLIOGLU	ARC	J D BAEDER	NAG 2-898	4671
41	UNIV MARYLAND-COL PK	M B TISCHLER	ARC	W S LEVINE	NAG 2-979	4672
41	UNIV MARYLAND-COL PK	T M SANDERS	LERC	A K GUPTA	NAG 3-1488	4676
41	UNIV MARYLAND-COL PK	S GARG	LERC	D K SCHMIDT	NAG 3-1575	4677
41	UNIV MARYLAND-COL PK	S GARG	LERC	D K SCHMIDT	NAG 3-1717	4678
41	UNIV MARYLAND-COL PK	D CROSBY	GSFC	S GLOECKLER	NAS 5-30370	4816
41	UNIV MARYLAND-COL PK	G S DEIWERT	ARC	M J LEWIS	NCA 2-624	4825
41	UNIV MARYLAND-COL PK	W G WARMBRODT	ARC	I CHOPRA	NCC 2-829	4826
41	UNIV MARYLAND-COL PK	P MOIN	ARC	J M WALLACE	NCC 2-5003	4827
41	UNIV MARYLAND-COL PK	R A GUALDONI	HQ	D L AKIN	NCCW 38	4844
41	UNIV MARYLAND-COL PK	D GLASCO	HQ	S W LEE	NGT 00-051-391	4864
41	BOSTON UNIVERSITY	G L MCANINCH	LARC	A D PIERCE	NAG 1-1580	4901
41	BOSTON UNIVERSITY	T B GATSKI	LARC	C G SPEZIALE	NAG 1-1712	4903
41	MASS INST OF TECH	J H STARNES	LARC	P A LAGACE	NAG 1-991	5035
41	MASS INST OF TECH	J M SEINER	LARC	I A WAITZ	NAG 1-1511	5039
41	MASS INST OF TECH	C H GERHOLD	LARC	I A WAITZ	NAG 1-1512	5040
41	MASS INST OF TECH	K R MEADOWS	LARC	R R ROSALES	NAG 1-1519	5041
41	MASS INST OF TECH	S K ROBINSON	LARC	K S BREYER	NAG 1-1525	5042
41	MASS INST OF TECH	C A POWELL	LARC	R J HANSMAN JR.	NAG 1-1531	5043
41	MASS INST OF TECH	S J MORRIS	LARC	R W SIMPSON	NAG 1-1577	5044
41	MASS INST OF TECH	K S BEY	LARC	J PERAIRE	NAG 1-1587	5045
41	MASS INST OF TECH	L L ERIKSON	ARC	M DRELA	NAG 2-853	5055
41	MASS INST OF TECH	W T KRAMER	ARC	A R ODONI	NAG 2-997	5058
41	MASS INST OF TECH	K GUPTA	DFRC	J PERAIRE	NAG 2-4002	5059
41	MASS INST OF TECH	R J GEENEN	GSFC	M DRELA	NAG 2-4008	5060
41	MASS INST OF TECH	J J ADAMCZYK	LERC	E E COVERT	NAG 3-660	5061
41	MASS INST OF TECH	M G POTAPCZUK	LERC	R J HANSMAN	NAG 3-666	5062
41	MASS INST OF TECH	J J ADAMCZYK	LERC	E M GREITZER	NAG 3-844	5064
41	MASS INST OF TECH	C DRUMMOND	LERC	C S TAN	NAG 3-953	5065
41	MASS INST OF TECH	A J STRAZISAR	LERC	A H EPSTEIN	NAG 3-1013	5066
41	MASS INST OF TECH	J J ADAMCZYK	LERC	C S TAN	NAG 3-1176	5067
41	MASS INST OF TECH	J D HEIDMANN	LERC	A H EPSTEIN	NAG 3-1214	5068
41	MASS INST OF TECH	G J SKOCH	LERC	E M GREITZER	NAG 3-1237	5069
41	MASS INST OF TECH	C K DRUMMOND	LERC	I A WAITZ	NAG 3-1364	5070
41	MASS INST OF TECH	M G POTAPCZUK	LERC	M DRELA	NAG 3-1443	5071
41	MASS INST OF TECH	C K DRUMMOND	LERC	A H EPSTEIN	NAG 3-1448	5072
41	MASS INST OF TECH	A J STRAZISAR	LERC	E M GREITZER	NAG 3-1513	5075
41	MASS INST OF TECH	C K DRUMMOND	LERC	C S TAN	NAG 3-1567	5076
41	MASS INST OF TECH	M MIZUKAMI	LERC	C S TAN	NAG 3-1591	5077
41	MASS INST OF TECH	R REDDY	LERC	C S TAN	NAG 3-1598	5078
41	MASS INST OF TECH	J J ADAMCZYK	LERC	C S TAN	NAG 3-1679	5081
41	MASS INST OF TECH	C C CHAMIS	LERC	H L MCMANUS	NAG 3-1760	5082
41	MASS INST OF TECH	M G POTAPCZUK	LERC	R J HANSMAN	NAG 3-1761	5083
41	MASS INST OF TECH	A STRAZISAR	LERC	A E EPSTEIN	NAG 3-1771	5084
41	MASS INST OF TECH	K K GUPTA	DFRC	J PERAIRE	NAG 4-100	5085
41	MASS INST OF TECH	D SICKOREZ	JSC	J L KERREBROCK	NAG 9-694	5146
41	MASS INST OF TECH	G ASRAR	HQ	Q HU	NAGW 4691	5206
41	MASS INST OF TECH	M Y WEI	HQ	D MCLAUGHLIN	NAGW 4762	5209
41	MASS INST OF TECH	G STOVER	LARC	E CRAWLEY	NAS 1-19622	5212
41	MASS INST OF TECH	R CHOCK	LERC	H L MC MANUS	NAS 3-27550	5213
41	MASS INST OF TECH	J HEEG	LARC	E F CRAWLEY	NCC 1-157	5230
41	MASS INST OF TECH	J BURKEN	DFRC	J D PADUANO	NCC 2-4001	5233

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41	MASS INST OF TECH	R T CHEN	ARC	N D HAM	NCC 2-5018	5234
41	MASS INST OF TECH	M J BRENNER	DFRC	J PADUANO	NCC 2-5116	5235
41	MASS INST OF TECH	S A APP	LERC	J L KERREBROCK	NCC 3-265	5237
41	MASS INST OF TECH	C J MAREK	LERC	I A WAITZ	NCC 3-307	5238
41	MASS INST OF TECH	J R DEBONIS	LERC	I A WAITZ	NCC 3-414	5239
41	MASS INST OF TECH	F R MORRELL	LARC	R W SIMPSON	NGL22-9640	5240
41	MASS INST OF TECH	G S SEIDEL	HQ	E M MURMAN	NGT 00-010-010	5242
41	MASS INST OF TECH	S GOLDSTEIN	JSC	D J NEWMAN	NGT 00-051-228	5254
41	TUFTS UNIVERSITY	M J WALSH	LARC	C ROGERS	NAG 1-1523	5272
41	TUFTS UNIVERSITY	J T KEGELMAN	LARC	C ROGERS	NAG 1-1685	5273
41	UNIV OF MASS-LOWELL	C L JOHNSON	MSFC	B W REINISCH	NAG 8-1055	5282
41	MICHIGAN STATE UNIV	L M WEINSTEIN	LARC	R E FALCO	NAG 1-1106	5342
41	MICHIGAN STATE UNIV	P H MIRICK	LARC	P M FITZSIMONS	NCC 1-175	5354
41	MICHIGAN TECH UNIV	K P KUNDU	LERC	S L YANG	NCC 3-406	5369
41	UNIV MICH-ANN ARBOR	R W GUY	LARC	T C ADAMSON	NAG 1-1290	5376
41	UNIV MICH-ANN ARBOR	K S BRENTNER	LARC	P L ROE	NAG 1-1514	5384
41	UNIV MICH-ANN ARBOR	R MACHIN	JSC	A GALLIMORE	NAG 9-709	5430
41	UNIV MICH-ANN ARBOR	G S SEIDEL	HQ	J G EISLEY	NGT 00-010-023	5491
41	UNIV MICH-ANN ARBOR	B HASTINGS	ARC	P ROE	NGT 00-050-931	5500
41	UNIV MICH-ANN ARBOR	F MONTEGANI	LERC	K G POWELL	NGT 00-051-235	5509
41	UNIV MICH-ANN ARBOR	L EVANS	LARC	A M WAAS	NGT 00-051-256	5510
41	UNIV MICH-ANN ARBOR	L EVANS	LARC	T C ANDERSON	NGT 00-051-260	5511
41	WAYNE STATE UNIV	L MAESTRELLO	LARC	P L CHOW	NAG 1-1175	5521
41	WAYNE STATE UNIV	R R TACINA	LERC	M C LAI	NAG 3-1140	5522
41	WAYNE STATE UNIV	R R TACINA	LERC	M C LAI	NAG 3-1703	5525
41	WESTERN MICHIGAN U	D E ASHPIS	LERC	D J DORNEY	NAG 3-1668	5531
41	WESTERN MICHIGAN U	J R SCHWAB	LERC	D J DORNEY	NAG 3-1671	5533
41	U MINN-MNPLS-ST PAUL	B J BACON	LARC	W L GARRARD	NAG 1-1380	5540
41	U MINN-MNPLS-ST PAUL	L R HUNT	LARC	G V CANDLER	NAG 1-1470	5541
41	U MINN-MNPLS-ST PAUL	K SUTTON	LARC	G V CANDLER	NAG 1-1498	5542
41	U MINN-MNPLS-ST PAUL	K R MEADOWS	LARC	A S LYRINTZIS	NAG 1-1605	5543
41	U MINN-MNPLS-ST PAUL	D J WING	LARC	P J STRYKOWSKI	NAG 1-1736	5544
41	U MINN-MNPLS-ST PAUL	J R SCHWAB	LERC	S V PATANKAR	NAG 3-1638	5549
41	U MINN-MNPLS-ST PAUL	R T CHEN	ARC	Y ZHAO	NCC 2-809	5582
41	U MINN-MNPLS-ST PAUL	R A SLATTERY	ARC	Y ZHAO	NCC 2-868	5583
41	U MINN-MNPLS-ST PAUL	N N MANSOUR	ARC	T S LUNDGREN	NCC 2-5017	5584
41	U MINN-MNPLS-ST PAUL	N N MANSOUR	ARC	T S LUNDGREN	NCC 2-5156	5585
41	U MINN-MNPLS-ST PAUL	H S LEE	LERC	S V PATANKAR	NCC 3-238	5586
41	U MINN-MNPLS-ST PAUL	M MOORE	ARC	A LYNNTZIS	NGT 00-051-169	5596
41	UNIV OF MINN-DULUTH	G S DEIWERT	ARC	G V CANDLER	NCA 2-819	5603
41	MISSISSIPPI STATE U	J W POSEY	LARC	D L WHITFIELD	NAG 1-1369	5610
41	MISSISSIPPI STATE U	D J BAKER	LARC	M RAIS-ROHANI	NAG 1-1571	5611
41	MISSISSIPPI STATE U	E B DEAN	LARC	M RAIS-ROHANI	NAG 1-1716	5612
41	MISSISSIPPI STATE U	D HOYNIK	LERC	D L WHITFIELD	NAG 3-767	5614
41	MISSISSIPPI STATE U	J M SANZ	LERC	D WHITFIELD	NAG 3-869	5615
41	MISSISSIPPI STATE U	G L STEFKO	LERC	D L WHITFIELD	NAG 3-983	5616
41	MISSISSIPPI STATE U	D L HUFF	LERC	J M JANUS	NAG 3-1228	5617
41	MISSISSIPPI STATE U	J P VERES	LERC	D L WHITFIELD	NAG 3-1357	5618
41	MISSISSIPPI STATE U	D L HUFF	LERC	J M JANUS	NAG 3-1699	5619
41	MISSISSIPPI STATE U	E R MCFARLAND	LERC	D L WHITFIELD	NAG 3-1712	5620
41	MISSISSIPPI STATE U	G S SEIDEL	HQ	J C MCWHORTER	NGT 00-010-011	5632
41	UNIV MO-ROLLA	C R MCCLINTON	LARC	D W RIGGINS	NAG 1-1189	5677
41	UNIV MO-ROLLA	R M BENNETT	LARC	F FINAISH	NAG 1-1482	5678
41	UNIV MO-ROLLA	J R PEGG	LARC	S N BALKRISHNAN	NAG 1-1728	5680
41	UNIV MO-ROLLA	D L HUFF	LERC	W EVERSON	NAG 3-1678	5681
41	UNIV MO-ROLLA	C MCCLINTON	LARC	D RIGGINS	NGT 00-051-338	5685
41	WASHINGTON UNIVERSTY	H M ADELMAN	LARC	D A PETERS	NAG 1-1373	5691
41	WASHINGTON UNIVERSTY	R A ORMISTON	ARC	D A PETERS	NAG 2-728	5692
41	MONTANA STATE UNIV	J LAUB	ARC	A DEMETRIADES	NCC 2-5009	5745
41	MONTANA STATE UNIV	J A LAUB	ARC	A DEMETRIADES	NGT 2-52202	5749

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41	UNIV NEBRASKA-LINCLN	K K GUPTA	ARC	C W MARTIN	NCA 2-762	5782
41	UNIV OF NEVADA-RENO	D P BENCZE	ARC	W C ROSE	NCC 2-507	5806
41	PRINCETON UNIVERSITY	J W FLETCHER	ARC	H C CURTISS	NAG 2-561	5913
41	PRINCETON UNIVERSITY	S E CLIFF	ARC	T J BAKER	NAG 2-928	5914
41	PRINCETON UNIVERSITY	R NIEDZWIECKI	LERC	F DRYER	NAG 3-1587	5921
41	PRINCETON UNIVERSITY	J S LING	LERC	P M CHAIKIN	NAG 3-1762	5924
41	PRINCETON UNIVERSITY	F R MORRELL	LARC	R F STENGEL	NGL31-1252	5972
41	RUTGERS ST U-PISCTWY	D H RUDY	LARC	R B PELZ	NAG 1-1559	5986
41	RUTGERS ST U-N BRNSK	T J COAKLEY	ARC	D D KNIGHT	NAG 2-798	6001
41	RUTGERS ST U-N BRNSK	G H KIDWELL	ARC	S AMAREL	NAG 2-817	6002
41	NM HIGHLANDS UNIV	J DEL FRATE	DFRC	G R GALLEGOS	NAG 2-4004	6022
41	NEW MEX ST U-LAS CR	K HENDERSON	JSC	G R PARKER	NAG 9-610	6050
41	NEW MEX ST U-LAS CR	D WILLIAMS	GSFC	UNAVAILABLE	NAS 5-30105	6058
41	NEW MEX ST U-LAS CR	W W WEST	WFF	K LANE	NAS 5-31688	6060
41	CITY U OF NY CTY COL	M G MACARAEG	LARC	A ACRIVOS	NAG 1-1159	6096
41	CITY U OF NY CTY COL	D M BUSHNELL	LARC	C WATKINS	NAG 1-1590	6097
41	CLARKSON UNIVERSITY	S O KJELGAARD	LARC	M N	NAG 1-1481	6114
41	CLARKSON UNIVERSITY	J M SEINER	LARC	M GLAUSER	NAG 1-1699	6115
41	CLARKSON UNIVERSITY	P HARNEY	DFRC	M N GLAUSER	NAG 2-724	6116
41	CLARKSON UNIVERSITY	C C CHAMIS	LERC	L MINNETYAN	NAG 3-1777	6119
41	CLARKSON UNIVERSITY	F C OWENS	HQ	G AHMADI	NGT 00-050-825	6127
41	CLARKSON UNIVERSITY	M MOORE	ARC	G AHMADI	NGT 00-051-314	6131
41	CLARKSON UNIVERSITY	W L SELLERS	LARC	M GLAUSER	NGT 1-52102	6135
41	CORNELL UNIVERSITY	D R HOAD	LARC	A R GEORGE	NAG 1-1396	6224
41	CORNELL UNIVERSITY	J P DRUMMOND	LARC	S B POPE	NAG 1-1542	6225
41	CORNELL UNIVERSITY	J M SEINER	LARC	J L LUMLEY	NAG 1-1543	6226
41	CORNELL UNIVERSITY	C KITAPLIOGLU	ARC	A R GEORGE	NAG 2-554	6228
41	CORNELL UNIVERSITY	F A NEWMAN	LERC	E L RESLER	NAG 3-1069	6234
41	CORNELL UNIVERSITY	L A POVINELLI	LERC	J LUMLEY	NAG 3-1570	6238
41	CORNELL UNIVERSITY	G S DEIWERT	ARC	I BOYD	NCA 2-820	6304
41	POLYTECHNIC U	W R HINGST	LERC	I M KALKHORAN	NAG 3-1378	6357
41	RENSSELAER POLY-NY	L P YIP	LARC	B E THOMPSON	NAG 1-1520	6367
41	RENSSELAER POLY-NY	T A LASINSKI	ARC	M S SHEPPARD	NAG 2-832	6368
41	RENSSELAER POLY-NY	L BERKE	LERC	P HAJELA	NAG 3-1196	6370
41	RENSSELAER POLY-NY	G S SEIDEL	HQ	G A GABRIELE	NGT 00-010-017	6394
41	RENSSELAER POLY-NY	F MONTEGANI	LERC	L N MYRABO	NGT 00-051-049	6396
41	RENSSELAER POLY-NY	E J PRIOR	LARC	Z RUSAK	NGT 00-051-113	6397
41	STATE U NY-BINGHAMTN	S A RIZZI	LARC	R N MILES	NAG 1-1406	6430
41	STATE UNIV NY-BUFFAL	G S SEIDEL	HQ	C L BLOEBAUM	NGT 00-010-019	6449
41	SYRACUSE UNIVERSITY	J P VERES	LERC	T Q DANG	NAG 3-1468	6504
41	SYRACUSE UNIVERSITY	D P MILLER	LERC	T Q DANG	NAG 3-1585	6505
41	SYRACUSE UNIVERSITY	D H RUDY	LARC	M CLARK	NAS 1-20478	6510
41	DUKE UNIVERSITY	S R COLE	LARC	E H DOWELL	NAG 1-1569	6534
41	DUKE UNIVERSITY	R J SILCOX	LARC	R L CLARK	NAG 1-1570	6535
41	DUKE UNIVERSITY	D HOYNIK	LERC	K HALL	NAG 3-1433	6538
41	NO CAR A&T STATE U	K J KACYNSKI	LERC	S CHANDRA	NAG 3-1734	6585
41	NO CAR A&T STATE U	R K BOGUE	DFRC	A HOMAIFAR	NCC 4-100	6589
41	NO CAROLINA STATE U	J E HARRIS	LARC	H A HASSAN	NAG 1-244	6599
41	NO CAROLINA STATE U	R E SMITH	LARC	D S MCRAE	NAG 1-1340	6604
41	NO CAROLINA STATE U	R J SILCOX	LARC	H T BANKS	NAG 1-1600	6606
41	NO CAROLINA STATE U	C G MILLER	LARC	J PERKINS	NAG 1-1663	6607
41	NO CAROLINA STATE U	J E HARRIS	LARC	H A HASSAN	NCC 1-22	6625
41	NO CAROLINA STATE U	E V ZOBY	LARC	F R DEJARNETTE	NCC 1-100	6626
41	NO CAROLINA STATE U	K SUTTON	LARC	H A HASSAN	NCC 1-112	6627
41	NO CAROLINA STATE U	K SUTTON	LARC	G V CANDLER	NCC 1-140	6628
41	NO CAROLINA STATE U	J S HILL	LARC	F R DEJARNETTE	NCC 1-141	6629
41	NO CAROLINA STATE U	L P YIP	LARC	J N PERKINS	NCC 1-154	6630
41	NO CAROLINA STATE U	P L COE	LARC	J N PERKINS	NCC 1-162	6631
41	NO CAROLINA STATE U	J A AL-SAAD	LARC	N CHOKANI	NCC 1-169	6632
41	NO CAROLINA STATE U	P A GNOFFO	LARC	G D WALBERG	NCC 1-170	6633

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41	NO CAROLINA STATE U	S P WILKINSON	LARC	N CHEKANI	NCC 1-183	6634
41	NO CAROLINA STATE U	L EVANS	LARC	D S MCRAE	NGT 00-051-189	6642
41	NO CAROLINA STATE U	L EVANS	LARC	F YUAN	NGT 00-051-248	6643
41	UNIV OF NORTH DAKOTA	S BRODY	HQ	J I GABRYNOWICZ	NAGW 4524	6686
41	CASE WESTERN RESERVE	J D SAUNDERS	LERC	E RESHOTKO	NAG 3-1130	6703
41	CASE WESTERN RESERVE	F A NEWMAN	LERC	F E MCCAUGHAN	NAG 3-1179	6705
41	CASE WESTERN RESERVE	C F LORENZO	LERC	S M PHILLIPS	NAG 3-1232	6708
41	CASE WESTERN RESERVE	W R HINGST	LERC	M MEHREGANY	NAG 3-1273	6709
41	CASE WESTERN RESERVE	J K LYTLE	LERC	I GREEBER	NAG 3-1541	6717
41	CASE WESTERN RESERVE	L A POVINELLI	LERC	E RESHOTKO	NCC 3-124	6732
41	CASE WESTERN RESERVE	J J ADAMCZYK	LERC	J R KADAMBF	NCC 3-263	6744
41	CASE WESTERN RESERVE	D LONGEDDY	HQ	P S T'IEN	NGT 00-051-414	6784
41	CENTRAL ST UNIV-OHIO	R R TACINA	LERC	C B OKHIO	NAG 3-1670	6793
41	CENTRAL ST UNIV-OHIO	C E COLE-HAMILTON	LERC	D A IKOMI	NAG 3-1787	6795
41	CLEVELAND STATE UNIV	K S CHUN	LERC	B GHORASHI	NAG 3-1010	6799
41	CLEVELAND STATE UNIV	D R HULL	LERC	S N TEWARI	NCC 3-111	6819
41	CLEVELAND STATE UNIV	W MORALES	LERC	E E GRAHAM	NCC 3-403	6853
41	CUYAHOGA COMMUNITY C	F H YARRIS	LERC	R L MOSS	NAG 3-1778	6863
41	CUYAHOGA COMMUNITY C	F H YARRIS	LERC	B L CANEPARI	NCC 3-185	6864
41	LORAIN CNTY COM COL	F H YARRIS	LERC	G PILLAINAYAGAM	NAG 3-1780	6883
41	LORAIN CNTY COM COL	F H YARRIS	LERC	J COLE	NCC 3-184	6885
41	OHIO STATE UNIV	M G MACARAEG	LARC	R J BODONYI	NAG 1-1555	6890
41	OHIO STATE UNIV	W T KRAMER	ARC	P J SMITH	NAG 2-995	6893
41	OHIO STATE UNIV	E A KREJSA	LERC	J N SCOTT	NAG 3-1058	6896
41	OHIO STATE UNIV	T P RATVASKY	LERC	G M GREGOREK	NAG 3-1574	6908
41	OHIO STATE UNIV	S GARG	LERC	H OZBAY	NAG 3-1723	6913
41	OHIO STATE UNIV	W A ORAN	HQ	H MOELLERING	NAGW 973	6931
41	OHIO STATE UNIV	K H ABBOTT	LARC	D D WOODS	NCC 1-209	6954
41	OHIO STATE UNIV	K CORKER	ARC	D D WOODS	NCC 2-592	6955
41	OHIO STATE UNIV	D A HOLLAND	HQ	M R FOSTER	NGT 00-051-072	6962
41	UNIV OF AKRON	S M ARNOLD	LERC	D N ROBINSON	NAG 3-379	6978
41	UNIV OF AKRON	S M ARNOLD	LERC	T P CHANG	NAG 3-901	6979
41	UNIV OF AKRON	S M ARNOLD	LERC	W K BINIENDA	NAG 3-1223	6984
41	UNIV OF AKRON	K J MELCHER	LERC	T T HARTLEY	NAG 3-1450	6990
41	UNIV OF AKRON	S M ARNOLD	LERC	A F SALEEB	NAG 3-1493	6992
41	UNIV OF AKRON	S M ARNOLD	LERC	H TAN	NAG 3-1551	6996
41	UNIV OF AKRON	S M ARNOLD	LERC	A F SALEEB	NAG 3-1746	6998
41	UNIV OF AKRON	S M ARNOLD	LERC	A F SALEEB	NAG 3-1747	6999
41	UNIV OF AKRON	M S LIOU	LERC	B P LEONARD	NCC 3-178	7003
41	UNIV OF AKRON	S M ARNOLD	LERC	A F SALEEB	NCC 3-368	7010
41	UNIV OF CINCINNATI	J H STARNES	LARC	G J SIMITSES	NAG 1-1280	7014
41	UNIV OF CINCINNATI	J J KORTE	LARC	S G RUBIN	NAG 1-1553	7016
41	UNIV OF CINCINNATI	J J ADAMCZYK	LERC	S G RUBIN	NAG 3-397	7017
41	UNIV OF CINCINNATI	C C CHAMIS	LERC	A H NAYFEH	NAG 3-1173	7019
41	UNIV OF CINCINNATI	L BERKE	LERC	A H NAYFEH	NAG 3-1174	7020
41	UNIV OF CINCINNATI	C C CHAMIS	LERC	A H NAYFEH	NAG 3-1175	7021
41	UNIV OF CINCINNATI	T J BENSON	LERC	S G RUBIN	NAG 3-1178	7022
41	UNIV OF CINCINNATI	J D SAUNDERS	LERC	A HAMED	NAG 3-1213	7024
41	UNIV OF CINCINNATI	D R REDDY	LERC	P D ORKWIS	NAG 3-1472	7026
41	UNIV OF CINCINNATI	C C CHAMIS	LERC	A H NAYFEH	NAG 3-1527	7027
41	UNIV OF CINCINNATI	G FOLLEN	LERC	B WALKER	NAG 3-1546	7028
41	UNIV OF CINCINNATI	S H GOLDSTEIN	JSC	T W WILLIAMS	NAG 9-717	7035
41	UNIV OF CINCINNATI	C HESS	JSC	T WILLIAMS	NAG 9-799	7037
41	UNIV OF CINCINNATI	L C FREUDINGER	ARC	S J SHELLEY	NCA 2-831	7043
41	UNIV OF CINCINNATI	P C MURPHY	LARC	B K WALKER	NCC 1-181	7044
41	UNIV OF CINCINNATI	H N SWENSON	ARC	G L SLATER	NCC 2-669	7045
41	UNIV OF CINCINNATI	D KWAK	ARC	K N GHIA	NCC 2-5096	7046
41	UNIV OF CINCINNATI	D L BULZAN	LERC	S JENG	NCC 3-282	7049
41	UNIV OF CINCINNATI	G S SEIDEL	HQ	A HAMED	NGT 00-010-021	7053
41	UNIV OF CINCINNATI	F SIX	MSFC	S M JENG	NGT 00-051-202	7059

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41	UNIV OF CINCINNATI	F MONTEGANI	LERC	B WALKER	NGT 00-051-320	7061
41	UNIV OF CINCINNATI	P K MCCONNAUGHEY	MSFC	K N GHIA	NGT 8-52801	7066
41	UNIV OF TOLEDO	M VARGAS	LERC	K J DEWITT	NAG 3-72	7073
41	UNIV OF TOLEDO	G L STEFKO	LERC	T G KEITH	NAG 3-742	7075
41	UNIV OF TOLEDO	G L STEFKO	LERC	T G KEITH	NAG 3-1068	7077
41	UNIV OF TOLEDO		LERC	T G KEITH JR	NAG 3-1137	7078
41	UNIV OF TOLEDO	R W CLAUS	LERC	T G KEITH	NAG 3-1219	7080
41	UNIV OF TOLEDO	D C JANETZKE	LERC	T G KEITH	NAG 3-1230	7081
41	UNIV OF TOLEDO	A P KURKOU	LERC	T G KEITH	NAG 3-1234	7082
41	UNIV OF TOLEDO	G L STEFKO	LERC	T G KEITH JR.	NAG 3-1449	7088
41	UNIV OF TOLEDO	G J FOLLEN	LERC	A AFJENT	NAG 3-1750	7095
41	UNIV OF TOLEDO	L H FISHBACH	LERC	K J DEWITT	NCC 3-193	7105
41	UNIV OF TOLEDO	G J FOLLEN	LERC	A A AFJEH	NCC 3-207	7106
41	UNIV OF TOLEDO	S M ARNOLD	LERC	T WILT	NCC 3-248	7108
41	UNIV OF TOLEDO	G L STEFKO	LERC	T G KEITH	NCC 3-332	7113
41	UNIV OF TOLEDO	J M LUCERO	LERC	T KEITH	NCC 3-388	7115
41	OKLAHOMA STATE UNIV	K K GUPTA	ARC	A ARENA	NCC 2-5021	7127
41	OKLAHOMA STATE UNIV	K K GUPTA	DFRC	A S ARENA	NCC 2-5105	7128
41	UNIV OKLAHOMA-NORMAN	M J LOGAN	LARC	D E SMITH	NAG 1-1643	7131
41	UNIV OKLAHOMA-NORMAN	R J GUNDERMAN	LERC	R K CRANE	NAS 3-26957	7141
41	OREGON STATE UNIV	J H STARNES	LARC	T C KENNEDY	NAG 1-1620	7156
41	UNIV OREGON-EUGENE	P A GNOFFO	LARC	C F HANSEN	NAG 1-1427	7200
41	CARNEGIE-MELLON UNIV	M D SALAS	LARC	S TA'ASAN	NAG 1-1666	7214
41	CARNEGIE-MELLON UNIV	W K ANDERSON	LARC	S TA'ASAN	NAG 1-1687	7215
41	CARNEGIE-MELLON UNIV	R J ROELKE	LERC	T I SHIH	NAG 3-929	7217
41	CARNEGIE-MELLON UNIV	W J CHYU	ARC	T I SHIH	NCC 2-845	7231
41	CARNEGIE-MELLON UNIV	W J CHYU	ARC	T I SHIH	NCC 2-5057	7232
41	DREXEL UNIVERSITY	R R TACINA	LERC	K J CHOI	NAG 3-1421	7254
41	LEHIGH UNIVERSITY	L A POVINELLI	LERC	J D WALKER	NAG 3-1578	7265
41	PENN STATE U-UNIV PK	J M SEINER	LARC	P J MORRIS	NAG 1-1047	7277
41	PENN STATE U-UNIV PK	J W POSEY	LARC	L N LONG	NAG 1-1367	7280
41	PENN STATE U-UNIV PK	L M WEINSTEIN	LARC	G S SETTLES	NAG 1-1412	7282
41	PENN STATE U-UNIV PK	W E ZORUMSKI	LARC	P J MORRIS	NAG 1-1479	7284
41	PENN STATE U-UNIV PK	G L MCANINCH	LARC	V W SPARROW	NAG 1-1638	7288
41	PENN STATE U-UNIV PK	R J BOYLE	LERC	B LAKSHMINARAYANA	NAG 3-555	7294
41	PENN STATE U-UNIV PK	P F PENKO	LERC	C L MERKLE	NAG 3-1020	7296
41	PENN STATE U-UNIV PK	P M SOCKOL	LERC	B LAKSHMINARAYANA	NAG 3-1168	7299
41	PENN STATE U-UNIV PK	A J STRAZISAR	LERC	B LAKSHMINARAYANA	NAG 3-1222	7300
41	PENN STATE U-UNIV PK	B H ANDERSON	LERC	H MCDONALD	NAG 3-1485	7303
41	PENN STATE U-UNIV PK	E A KREJSA	LERC	I S DAS	NAG 3-1563	7305
41	PENN STATE U-UNIV PK	P L MURTHY	LERC	A D BELEGUNDU	NAG 3-1590	7307
41	PENN STATE U-UNIV PK	E A KREJSA	LERC	I S DAS	NAG 3-1708	7309
41	PENN STATE U-UNIV PK	R BOYLE	LERC	B LAKSHMINARAYANA	NAG 3-1736	7311
41	PENN STATE U-UNIV PK	A STRAZIAR	LERC	B LAKSHMINARAYANA	NAG 3-1745	7312
41	PENN STATE U-UNIV PK	R H ANDERSON	LERC	D MCDONALD	NAG 3-1781	7313
41	PENN STATE U-UNIV PK	M ROCKER	MSFC	V YANG	NAG 8-136	7347
41	PENN STATE U-UNIV PK	J VARGAS	MSFC	R CORBIN	NAG 8-288	7349
41	PENN STATE U-UNIV PK	G A WILHOLD	MSFC	R J SANTORO	NAS 8-38862	7394
41	PENN STATE U-UNIV PK	L GRIFFIN	MSFC	B LAKSHMINARAYANA	NAS 8-38867	7395
41	PENN STATE U-UNIV PK	J BOWLES	ARC	G S DULIKRAVICH	NCA 2-769	7398
41	PENN STATE U-UNIV PK	H P TRINH	MSFC	R J SANTORO	NCC 8-46	7402
41	PENN STATE U-UNIV PK	G S SEIDEL	HQ	G S DULIKRAVICH	NGT 00-010-006	7404
41	PENN STATE U-UNIV PK	J T LYNCH	HQ	G KOODMANN	NGT 00-051-106	7417
41	PENN STATE U-UNIV PK	E PRIOR	LARC	L N LONG	NGT 00-051-118	7418
41	PENN STATE U-UNIV PK	M W NIXON	LARC	E C SMITH	NGT 1-52109	7433
41	BROWN UNIVERSITY	H L ATKINS	LARC	C W SHU	NAG 1-1145	7495
41	BROWN UNIVERSITY	T B GATSKI	LARC	L SIROVICH	NAG 1-1230	7496
41	BROWN UNIVERSITY	M D DAHL	LERC	J T LIU	NAG 3-1484	7498
41	CLEMSON UNIV-CLEMSON	M J SHUART	LARC	S B BIGGERS	NAG 1-1141	7568
41	CLEMSON UNIV-CLEMSON	G S SEIDEL	HQ	G M FADEL	NGT 00-010-008	7586

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41	SO DAKOTA SCHL MINES	G ASRAR	HQ	C JENKINS	NAGW 4708	7627
41	UNIV OF SOUTH DAKOTA	J M SKULTETY	DFRC	M M GRANAAS	NAG 2-492	7637
41	CHRISTIAN BROS COL	J P BUTAS	MSFC	L N SANTI	NAG 8-1024	7638
41	CHRISTIAN BROS COL	J P BUTAS	MSFC	L M SANTI	NAG 8-1132	7639
41	TENNESSEE STATE UNIV	R F LAWRENCE	LERC	D B ROGERS	NAG 3-1171	7647
41	TENNESSEE STATE UNIV	T GUO	LERC	M S ZEIN-SABATTO	NAG 3-1471	7648
41	UNIV TENNESSEE-KNOXV	C L BURLEY	LARC	J S STEINHOFF	NAG 1-1368	7674
41	UNIV TENNESSEE-KNOXV	R D JOSLIN	LARC	J M WU	NAG 1-1612	7676
41	UNIV TENNESSEE-KNOXV	L S KING	ARC	C F LO	NAG 2-881	7677
41	UNIV TENNESSEE-KNOXV	D L HUFF	LERC	J CARUTHERS	NAG 3-1516	7678
41	UNIV TENNESSEE-KNOXV	F SIX	MSFC	T D MCCAY	NGT 00-050-876	7700
41	UNIV TENNESSEE-KNOXV	F MONTEGANI	LERC	R J SCHULZ	NGT 00-051-048	7702
41	U OF TENN.-MEMPHIS	F CARADONNA	ARC	J STENNHOF	NCC 2-5144	7705
41	VANDERBILT UNIVERSTY	C C CHAMIS	LERC	T A CRUSE	NAG 3-1352	7709
41	VANDERBILT UNIVERSTY	G S SEIDEL	HQ	T A CRUSE	NGT 00-010-024	7730
41	PRAIRIE VIEW A&M U	E T MELEASON	LERC	I CHANG	NAG 3-1500	7768
41	RICE UNIVERSITY	M B TRACY	LARC	A J MEADE	NAG 1-1433	7783
41	RICE UNIVERSITY	P E HUNTER	HQ	J E DENNIS	NCCW 27	7826
41	TEXAS A&M UNIVERSITY	L C HARTUNG	LARC	L A CARLSON	NAG 1-1003	7846
41	TEXAS A&M UNIVERSITY	M F CARD	LARC	O W MICKS	NAG 1-1522	7850
41	TEXAS A&M UNIVERSITY	R L CAMPBELL	LARC	T A GALLY	NAG 1-1596	7851
41	TEXAS A&M UNIVERSITY	W L SELLERS, III	LARC	D K REDINIOTIS	NAG 1-1753	7853
41	TEXAS A&M UNIVERSITY	D E PAXSON	LERC	T SCHOBEIRI	NAG 3-1144	7857
41	TEXAS A&M UNIVERSITY	C C CHAMIS	LERC	J D WHITCOMB	NAG 3-1270	7858
41	TEXAS A&M UNIVERSITY	P E POINSATTE	LERC	J C HAN	NAG 3-1656	7864
41	TEXAS A&M UNIVERSITY	D E PAXSON	LERC	M T SCHOBEIRI	NAG 3-1789	7865
41	TEXAS A&M UNIVERSITY	C D SCOTT	JSC	L A CARLSON	NAG 9-680	7893
41	TEXAS A&M UNIVERSITY	J CANNON	MSFC	W CHILDS	NAS 8-37821	7917
41	TEXAS A&M UNIVERSITY	R E MEYERSON	JSC	O NICKS	NAS 9-18882	7918
41	TEXAS A&M UNIVERSITY	J H DEL FRATE	ARC	D T WARD	NCC 2-742	7920
41	TEXAS TECH UNIV	G MEYER	ARC	C F MARTIN	NAG 2-902	7964
41	TEXAS TECH UNIV	E UNGER	JSC	M C CHYUIS	NAG 9-800	7967
41	UNIV HOUSTON	J BURKE	JSC	B H JANSEN	NAG 9-544	7974
41	UNIV TEXAS-AUSTIN	G L MCANINCH	LARC	D T BLACKSTOCK	NAG 1-1204	8062
41	UNIV TEXAS-AUSTIN	W E ZORUMSKI	LARC	D S DOLLING	NAG 1-1471	8065
41	UNIV TEXAS-AUSTIN	G L MCANINCH	LARC	D T BLACKSTOCK	NAG 1-1615	8066
41	UNIV TEXAS-AUSTIN	D A HAMILTON	JSC	R R CRAIG	NAG 9-670	8100
41	UNIV TEXAS-AUSTIN	E L CHRISTIANSEN	JSC	E P FAHRENTHOLD	NAG 9-675	8102
41	UNIV TEXAS-AUSTIN	R CARPENTER	JSC	B E SCHUTZ	NAG 9-750	8106
41	UNIV TEXAS-AUSTIN	R STACHNIK	HQ	P J SHELLUS	NAGW 2970	8131
41	UNIV TEXAS-AUSTIN	J LEDIT	JSC	B E SCHULTZ	NCC 9-35	8163
41	UNIV TEXAS-AUSTIN	H ASHKENAS	JPL	B D TAPLEY	NGT 00-070-262	8185
41	UNIV TEX-BROWNSVILLE	G E MOSIER	GSFC	Z L XU	NAG 5-2210	8227
41	UNIV TEXAS-S ANTONIO	C C CHAMIS	LERC	L BOYCE	NAG 3-867	8231
41	BRIGHAM YOUNG UNIV	S L PADULA	LARC	R BALLING	NAG 1-1694	8241
41	BRIGHAM YOUNG UNIV	G S SEIDEL	HQ	C D SORENSEN	NGT 00-010-013	8245
41	UNIV OF UTAH	Z T APPLIN	LARC	R A DECKER	NAG 1-1232	8248
41	UTAH STATE UNIV	R M HABERLE	ARC	J CANTRELL	NAG 2-874	8273
41	COLLEGE OF WM & MARY	E PRIOR	LARC	R A ORWOLL	NGT 00-070-293	8350
41	HAMPTON UNIVERSITY	E C YATES	LARC	H HU	NAG 1-1170	8381
41	OLD DOMINION UNIV	S E MASSENBERG	LARC	S N TIWARI	NAG 1-363	8405
41	OLD DOMINION UNIV	J B MALONE	LARC	O A KANDIL	NAG 1-648	8407
41	OLD DOMINION UNIV	H E JONES	LARC	A C TAYLOR	NAG 1-1265	8418
41	OLD DOMINION UNIV	S A RIZZI	LARC	C MEI	NAG 1-1358	8420
41	OLD DOMINION UNIV	J M SEINER	LARC	S H TIWARI	NAG 1-1518	8427
41	OLD DOMINION UNIV	G S JONES	LARC	R L ASH	NAG 1-1552	8430
41	OLD DOMINION UNIV	M C FISCHER	LARC	S N TIWARI	NAG 1-1556	8431
41	OLD DOMINION UNIV	C J CANARDA	LARC	G HOU	NAG 1-1567	8432
41	OLD DOMINION UNIV	J L DILLON	LARC	O BAYSAL	NAG 1-1576	8433
41	OLD DOMINION UNIV	J H STARNES	LARC	N F KNIGHT	NAG 1-1588	8435

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41	OLD DOMINION UNIV	H L ATKINS	LARC	J H CASPER	NAG 1-1653	8437
41	OLD DOMINION UNIV	T L TURNER	LARC	C MEI	NAG 1-1684	8440
41	OLD DOMINION UNIV	J C LIN	LARC	D LANDMAN	NAG 1-1750	8445
41	OLD DOMINION UNIV	E J PRIOR	LARC		NAS 1-19858	8453
41	OLD DOMINION UNIV	R E SMITH JR.	LARC	S N TIWARI	NCC 1-68	8455
41	OLD DOMINION UNIV	S P WILKINSON	LARC	G V SELBY	NCC 1-180	8459
41	OLD DOMINION UNIV	V N VATSA	LARC	O BAYSAL	NCC 1-211	8460
41	OLD DOMINION UNIV	L EVANS	LARC	R L ASH	NGT 00-051-259	8474
41	UNIV OF VIRGINIA	G B NORTHAN	LARC	J C MCDANIEL	NAG 1-795	8491
41	UNIV OF VIRGINIA	J H STARNES	LARC	A K NOOR	NAG 1-1162	8495
41	UNIV OF VIRGINIA	R C ROGERS	LARC	J C MCDANIEL	NAG 1-1633	8499
41	UNIV OF VIRGINIA	S J SCOTTI	LARC	E A THORNTON	NAG 1-1678	8500
41	UNIV OF VIRGINIA	J M SEINER	LARC	J C MCDANIEL JR.	NAG 1-1721	8503
41	UNIV OF VIRGINIA	S M ARNOLD	LERC	M PINDERA	NAG 3-1377	8507
41	UNIV OF VIRGINIA	S R THOMAS	LERC	R H KRAUSS	NAG 3-1518	8509
41	UNIV OF VIRGINIA	C V ECKSTROM	LARC	G L CAHEN JR.	NAS 1-20301	8546
41	UNIV OF VIRGINIA	E PRIOR	LARC	J C MCDANIEL	NGT 00-050-897	8568
41	UNIV OF VIRGINIA	R R ANTCLIFF	LARC	E DERVIS	NGT 1-52116	8599
41	VIRGINIA POLY INST	J H STARNES JR.	LARC	R T HAFTKA	NAG 1-168	8602
41	VIRGINIA POLY INST	H M ADELMAN	LARC	R T HAFTKA	NAG 1-224	8603
41	VIRGINIA POLY INST	R J SILCOX	LARC	C R FULLER	NAG 1-390	8605
41	VIRGINIA POLY INST	J H STARNES JR	LARC	E R JOHNSON	NAG 1-537	8606
41	VIRGINIA POLY INST	J H STARNES	LARC	Z GURDAL	NAG 1-643	8607
41	VIRGINIA POLY INST	D H RUDY	LARC	R W WALTERS	NAG 1-776	8608
41	VIRGINIA POLY INST	P G COEN	LARC	B GROSSMAN	NAG 1-1160	8610
41	VIRGINIA POLY INST	J H STARNES	LARC	L LIBRESCU	NAG 1-1300	8613
41	VIRGINIA POLY INST	S K ROBINSON	LARC	R L SIMPSON	NAG 1-1303	8614
41	VIRGINIA POLY INST	G L FARLEY	LARC	J MORTON	NAG 1-1392	8617
41	VIRGINIA POLY INST	K H GOODRICH	LARC	E M CLIFF	NAG 1-1405	8618
41	VIRGINIA POLY INST	J SOBIESKI	LARC	R K KAPANIA	NAG 1-1411	8619
41	VIRGINIA POLY INST	J V FOSTER	LARC	W C DURHAM	NAG 1-1449	8620
41	VIRGINIA POLY INST	M D SALAS	LARC	B GROSSMAN	NAG 1-1466	8623
41	VIRGINIA POLY INST	G B NORTHAM	LARC	T DILLER	NAG 1-1538	8627
41	VIRGINIA POLY INST	T F BROOKS	LARC	W J DEVENPORT	NAG 1-1539	8628
41	VIRGINIA POLY INST	P A NEWMAN	LARC	B GROSSMAN	NAG 1-1562	8629
41	VIRGINIA POLY INST	M R WASZAK	LARC	M R ANDERSON	NAG 1-1573	8630
41	VIRGINIA POLY INST	H C LESTER	LARC	C R FULLER	NAG 1-1681	8637
41	VIRGINIA POLY INST	R WLEZIEN	LARC	J A SCHETZ	NAG 1-1682	8638
41	VIRGINIA POLY INST	S B GRAFTON	LARC	F H LUTZE	NAG 1-1737	8641
41	VIRGINIA POLY INST	P A GELHAUSEN	ARC	W H MASON	NAG 2-919	8642
41	VIRGINIA POLY INST	D L TWEEDT	LERC	W F NG	NAG 3-830	8643
41	VIRGINIA POLY INST	A K OWEN	LERC	W F OBRIEN	NAG 3-1521	8647
41	VIRGINIA POLY INST	R P WOODWARD	LERC	W NG	NAG 3-1539	8648
41	VIRGINIA POLY INST	A R OWEN	LERC	W F OBRIEN	NAG 3-1667	8651
41	VIRGINIA POLY INST	G P GURUSWAMY	ARC	R K KAPANIA	NCA 2-838	8658
41	VIRGINIA POLY INST	J V FOSTER	LARC	F H LUTZE	NCC 1-158	8659
41	VIRGINIA POLY INST	G P GURUSWAMY	ARC	R K KAPANIA	NCC 2-5036	8660
41	VIRGINIA POLY INST	G S DEIWERT	ARC	J A SCHETZ	NCC 2-5040	8661
41	VIRGINIA POLY INST	G P GURUSWAMY	ARC	R K KAPANIA	NCC 2-5097	8662
41	VIRGINIA POLY INST	G S SEIDEL	HQ	B GROSSMAN	NGT 00-010-025	8663
41	VIRGINIA POLY INST	E PRIOR	LARC	D P TELIONIS	NGT 00-050-978	8664
41	VIRGINIA POLY INST	E PRIOR	LARC	R T HAFTKA	NGT 00-051-174	8669
41	VIRGINIA POLY INST	J H STARNES JR.	LARC	M W HYER	NGT 1-52112	8687
41	UNIV OF WASHINGTON	J F BARTHELEMY	LARC	E LIVINE	NAG 1-1628	8710
41	UNIV OF WASHINGTON	W R HINGST	LERC	F B GESSNER	NAG 3-376	8718
41	UNIV OF WASHINGTON	G SKOCH	LERC	J J KELLER	NAG 3-1595	8719
41	UNIV OF WASHINGTON	B P WILLIS	LERC	D A RUSSELL	NAG 3-1748	8720
41	UNIV OF WASHINGTON	V MUKHOPADHYAY	LARC	M C BERG	NCC 1-156	8819
41	UNIV OF WASHINGTON	W VAN DALSEM	ARC	S EBERHARDT	NCC 2-5099	8821
41	UNIV OF WASHINGTON	W R VAN DALSEM	ARC	S EBERHARDT	NCC 2-5152	8822

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41	WASHINGTON ST UNIV	R A KENNELLY	ARC	R V WESTPHAL	NCC 2-5052	8871
41	WEST VIRGINIA UNIV	D E REUBUSH	LARC	J L LOTH	NAG 1-1584	8881
41	WEST VIRGINIA UNIV	A H BOWERS	ARC	M R NAPOLITANO	NCC 2-759	8889
41	U OF TURABO-PRTO RCO	M MATEU	HQ	B MARREO	NGT 00-090-157	9124
41	UNIV OF QUEENSLAND	G Y ANDERSON	LARC	R J STALKER	NAGW 674	9125
41	IMPERIAL C SCI & TEC	K GUPTA	ARC	H FORD	NAGW 3909	9129
41	SURREY UNIVERSITY	K K GUPTA	DFRC	H NOOSHIN	NAGW 4132	9130
41	UNIVERSITY OF LEEDS	R E SMITH	LARC	M I BLOOR	NAGW 3198	9131
41	UNIV OF MANCHESTER	F S COLLIER JR.	LARC	D I POLL	NAGW 3871	9132
41	UNIV OF WALES	K K GUPTA	ARC	O C ZIENKIEWICZ	NAGW 2127	9133
41	UNIV OF WALES	K S BEY	LARC	K MORGAN	NAGW 3290	9134
41	BENGAL ENGR. COLLEGE	K K GUPTA	ARC	S DASGUPTA	NAGW 4153	9136
41	DELFT UNIV OF TECH	J H STARNES	LARC	J ARBOCZ	NAGW 2736	9138
41	UNIV OF KARLSRUHE	H WRIGHT	HQ	V KUNDE	NASW 4685	9141
42	AUBURN UNIV-AUBURN	W A ORAN	HQ	R ASKEW	NAGW 1192	1034
42	UNIV ALA-HUNTSVILLE	J JOHNSON	MSFC	J C GREGORY	NAS 8-38428	1168
42	ARIZONA STATE UNIV	L KEFFER	HQ	H REED	NGT 00-010-027	1341
42	ARIZONA STATE UNIV	F C OWENS	HQ	H L REED	NGT 00-050-745	1343
42	UNIV OF ARIZONA	C J CAMARDA	LARC	E MADENCI	NAG 1-1686	1366
42	UNIV OF ARIZONA	D J FLOOD	LERC	P A FRANKEN	NAG 3-1499	1380
42	UNIV OF ARIZONA	J M HICKMAN	LERC	M V SYKES	NAG 3-1755	1382
42	UNIV OF ARIZONA	G A SOFFEN	GSFC	A MARATHAY	NGT 5-11	1582
42	CALIF INST OF TECH	D K RUSSELL	HQ	H G HOMUNG	NGT 00-070-372	1734
42	STANFORD UNIVERSITY	J GERVIN	GSFC	J TIMOTHY	NAS 5-30387	1950
42	STANFORD UNIVERSITY	B P HINE	ARC	R H CANNON	NCC 2-333	1963
42	STANFORD UNIVERSITY	G BRIGGS	ARC	B LUSIGNAN	NCC 2-5030	1979
42	STANFORD UNIVERSITY	L LEMKE	ARC	I KROO	NCC 2-5058	1981
42	STANFORD UNIVERSITY	R ARNO	ARC	G SPRINGER	NCC 2-5080	1988
42	STANFORD UNIVERSITY	G BRIGGS	ARC	B B LUSIGNAN	NCC 2-5109	1995
42	STANFORD UNIVERSITY	F C WITTEBORN	ARC	G SPRINGER	NCC 2-5117	1996
42	STANFORD UNIVERSITY	S P SHARMA	ARC	M A CAPPELLI	NCC 2-5138	2000
42	UNIV CALIF-DAVIS	K A LABEL	GSFC	D CASTANEDA	NAS 5-32959	2275
42	UNIV CALIF-L ANGELES	D D MOERDER	LARC	J L SPEYER	NAG 1-1256	2362
42	COLORADO STATE UNIV	J C KOLECKI	LERC	P J WILBUR	NAG 3-776	2792
42	UNIV COLORADO-BOLDR	J GARRISON	LARC	P AXELRAD	NAG 1-1738	2853
42	UNIV COLORADO-BOLDR	G HUNOLT	GSFC	R G BARRY	NAS 5-32392	3051
42	UNIV COLORADO-BOLDR	A B DOUGHERTY	HQ	L D PETERSON	NASW 4873	3055
42	UNIV COLORADO-BOLDR	F C OWENS	HQ	M M MIKULAS	NGT 00-050-709	3089
42	UNIV COLORADO-BOLDR	F C OWENS	HQ	G BORN	NGT 00-050-759	3091
42	UNIV COLORADO-BOLDR	J DURNING	GSFC	C BARTH	NGT 00-050-934	3100
42	UNIV COLORADO-BOLDR	A NOVOTING	HQ	R LEBEN	NGT 00-051-373	3121
42	GEORGE WASHINGTON U	L F ROWELL	LARC	R H TOLSON	NCC 1-104	3254
42	GEORGE WASHINGTON U	T E HUBER	GSFC	G FRIEDER	NCC 5-51	3257
42	FLORIDA INST OF TECH	D HOLLAND	HQ	T D OSWALT	NGT 00-051-086	3380
42	FLORIDA STATE UNIV	S R BREON	GSFC	S W VAN SCIVER	NAG 5-2879	3400
42	GEORGIA INST OF TECH	D D MOERDER	LARC	A J CALISE	NAG 1-1257	3593
42	GEORGIA INST OF TECH	J JUANG	LARC	C H CHUANG	NAG 1-1397	3595
42	GEORGIA INST OF TECH	D D MOERDER	LARC	D H HODGES	NAG 1-1435	3597
42	GEORGIA INST OF TECH	J M HANSON	MSFC	C H CHUENG	NAG 8-921	3638
42	GEORGIA INST OF TECH	F MONTEGANI	LERC	M P KAMAT	NGT 00-050-981	3681
42	UNIV ILLINOIS-URBANA	J M SANKOVIC	LERC	R L BURTON	NAG 3-1360	4065
42	UNIV ILLINOIS-URBANA	C H ELDRED	LARC	M C BIGGS	NGT 1-52104	4122
42	UNIV ILLINOIS-URBANA	G A SOFFEN	GSFC	G C PAPAN	NGT 5-12	4124
42	PURDUE UNIVERSITY	P A COOPER	LARC	R E SKELTON	NAG 1-1306	4159
42	UNIV OF NOTRE DAME	R M STUBBS	LERC	J M POWERS	NAG 3-1335	4230
42	UNIV OF NOTRE DAME	R M STUBBS	LERC	J M POWERS	NCC 3-325	4245
42	IOWA STATE UNIV	W T SUIT	LARC	B L PIERSON	NAG 1-1304	4253
42	IOWA STATE UNIV	D D MOERDER	LARC	B L PIERSON	NAG 1-1739	4254
42	WICHITA STATE UNIV	E PRIOR	LARC	M PAPADAKIS	NGT 00-050-984	4399
42	KENTUCKY STATE UNIV	G BRIGGS	ARC	J SCHAEFER	NCC 2-5131	4401

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42	UNIV OF KENTUCKY	G BRIGGS	ARC	J SCHAEFER	NCC 2-5087	4412
42	JOHNS HOPKINS UNIV	C KREBS	GSFC	D FORD	NAS 5-32865	4627
42	UNIV MARYLAND-COL PK	J E NEALY	LARC	M J LEWIS	NAG 1-1285	4654
42	UNIV MARYLAND-COL PK	L HOLCOMB	HQ	D AKIN	NAGW 2245	4764
42	UNIV MARYLAND-COL PK	D B LAVERY	HQ	D L AKIN	NAGW 4034	4792
42	UNIV MARYLAND-COL PK	S H MORGAN JR.	MSFC	H J PAIK	NAS 8-38137	4823
42	UNIV MARYLAND-COL PK	P L CROUSE	GSFC	D K SCHMIDT	NCC 5-85	4838
42	UNIV MARYLAND-COL PK	D LAVERY	HQ	D L AKIN	NCCW 80	4847
42	BRANDEIS UNIVERSITY	D HOLLAND	HQ	D H ROBERTS	NGT 00-051-078	4945
42	MASS INST OF TECH	L G CLARK	LARC	E CROWLEY	NAS 1-18690	5211
42	MASS INST OF TECH	K OGALVIE	GSFC	J LAZARUS	NAS 5-30550	5215
42	MASS INST OF TECH	D K RUSSELL	HQ	L OSGOOD	NGT 00-090-209	5260
42	MASS INST OF TECH	F M CURRAN	LERC	M MARTINEZ-SANCHEZ	NGT 3-52305	5268
42	MASS INST OF TECH	G A SOFFEN	GSFC	J L KERREBROCK	NGT 5-4	5269
42	UNIV OF MASS-AMHERST	D NAVA	HQ	J GOLDSTEIN	NAGW 4514	5307
42	UNIV MICH-ANN ARBOR	F SCHMIDT	GSFC	G R CARIGNAN	NAS 5-38096	5481
42	UNIV MICH-ANN ARBOR	J H KERR	MSFC	P M BANKS	NAS 8-39381	5483
42	UNIV MICH-ANN ARBOR	E J PRIOR	LARC	A M WAAS	NGT 00-050-977	5501
42	U MINN-MNPLS-ST PAUL	E S ARMSTRONG	LARC	G J BALAS	NAG 1-1254	5539
42	U MINN-MNPLS-ST PAUL	D WEST	GSFC	R HUMPHREYS	NAS 5-32670	5579
42	U MINN-MNPLS-ST PAUL	S BENNER	GSFC	M MARSHAK	NAS 5-32932	5580
42	U MINN-MNPLS-ST PAUL	M L KAISER	GSFC	P KELLOG	NAS 5-33048	5581
42	MISSISSIPPI STATE U	F C OWENS	HQ	K KOENIG	NGT 00-050-694	5633
42	UNIV MO-COLUMBIA	J M HICKMAN	LERC	C A KLUEVER	NAG 3-1581	5665
42	UNIV MO-COLUMBIA	J M HICKMAN	LERC	C A KLUEVER	NAG 3-1650	5666
42	UNIV MO-COLUMBIA	J M HICKMAN	LERC	C KLUEVEN	NAG 3-1731	5667
42	PRINCETON UNIVERSITY	P G MAGHAMI	LARC	M P MAN	NAG 1-1698	5912
42	NEW MEX ST U-LAS CR	M E NEIN	MSFC	J O BURNS	NAG 8-939	6048
42	UNIV OF NEW MEXICO	M E NEIN	MSFC	J T MCGRAW	NAG 8-940	6079
42	COLUMBIA UNIVERSITY	J N JUANG	LARC	R W LONGMAN	NAG 1-649	6137
42	CORNELL UNIVERSITY	F C OWENS	HQ	S B POPE	NGT 00-050-842	6311
42	CORNELL UNIVERSITY	C HICKS	JPL	S LIEBOVICH	NGT 00-051-394	6321
42	CORNELL UNIVERSITY	F C OWENS	HQ	M C KELLEY	NGT 00-070-219	6323
42	STATE UNIV NY-BUFFAL	T H STENGLE	GSFC	D J MOOK	NAG 5-2181	6444
42	NO CAR A&T STATE U	R C MONTGOMERY	LARC	E G ABU-SABA	NAG 1-997	6578
42	NO CAR A&T STATE U	J JUANG	LARC	M A WALDEN	NGT 1-52119	6597
42	NO CAROLINA STATE U	J JUANG	LARC	G K LEE	NAG 1-1283	6603
42	NO CAROLINA STATE U	L W TAYLOR	LARC	L SHARPE	NAG 1-1436	6605
42	NO CAROLINA STATE U	H W STONE	LARC	G D WALBERG	NCC 1-185	6635
42	NO CAROLINA STATE U	L F ROWELL	LARC	J R OLDS	NCC 1-201	6637
42	UNIV N CAR-CHARLOTTE	E S ARMSTRONG	LARC	Y P KAKAD	NAG 1-1414	6670
42	CENTRAL ST UNIV-OHIO	D E LACY	LERC	C B OKHIO	NAG 3-1517	6791
42	CLEVELAND STATE UNIV	J P GYEKENYESI	LERC	J H HEMANN	NAG 3-1216	6800
42	OHIO STATE UNIV	F M CURRAN	LERC	P J TURCHI	NAG 3-1465	6904
42	UNIV OF AKRON	L BERKE	LERC	T Y CHANG	NAG 3-1350	6986
42	UNIV OF CINCINNATI	P G MAGHAMI	LARC	T WILLIAMS	NAG 1-1418	7015
42	UNIV OF CINCINNATI	C HESS	JSC	T WILLIAMS	NAG 9-766	7036
42	UNIV OF CINCINNATI	F MONTEGANI	LERC	S G RUBIN	NGT 00-070-278	7064
42	UNIV OF TOLEDO	J K LYTLE	LERC	K J DEWITT	NAG 3-1165	7079
42	UNIV OF TOLEDO	S M ARNOLD	LERC	T G KEITH	NCC 3-120	7102
42	UNIV OF TOLEDO	R M STUBBS	LERC	K J DEWITT	NCC 3-171	7104
42	UNIV OF TOLEDO	R M STUBBS	LERC	K J DEWITT	NCC 3-229	7107
42	LEHIGH UNIVERSITY	J JUANG	LARC	M CHEW	NAG 1-1477	7264
42	PENN STATE U-UNIV PK	C M GRODSINSKY	LERC	A SINHA	NAG 3-1586	7306
42	PENN STATE U-UNIV PK	P B HALL	MSFC	L CHANG	NAG 8-1134	7353
42	PENN STATE U-UNIV PK	R DONNELLY	GSFC	F CORDORA	NAS 5-31787	7388
42	TENNESSEE STATE UNIV	H P FRISCH	GSFC	L KEEL	NAG 5-2109	7653
42	TEXAS TECH UNIV	F M CURRAN	LERC	E A O'HAIR	NAG 3-1172	7965
42	UNIV HOUSTON	K KRISHEN	JSC	F CHANG-DIAZ	NAG 9-759	7989
42	UNIV HOUSTON-CL LAKE	C SCOTT	JSC	M A ROB	NAG 9-769	8044

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42	UNIV TEXAS-AUSTIN	M L TINKER	MSFC	R R CRAIG JR.	NAG 8-1130	8094
42	UNIV TEXAS-AUSTIN	J REUTER	JSC	D TESAR	NAG 9-411	8096
42	UNIV TEXAS-AUSTIN	J T CHLADEK	JSC	D TESAR	NAG 9-809	8110
42	UNIV TEXAS-EL PASO	G L PACK	JSC	S A SPARKS	NAG 9-756	8213
42	UNIV TEXAS-EL PASO	J CARVAJAL	JSC	V KREINEVICH	NAG 9-757	8214
42	UNIV TEXAS-S ANTONIO	B L WHITE	HQ	L BOYCE	NAGW 4114	8235
42	UTAH STATE UNIV	M D VANEK	LARC	J ULWICK	NAS 1-20467	8296
42	UNIV OF VIRGINIA	M D RHODES	LARC	E A THORNTON	NGT 1-52110	8598
42	VIRGINIA POLY INST	S S WELCH	LARC	G INDEBETOUW	NAG 1-1363	8616
42	VIRGINIA POLY INST	C J CAMARDA	LARC	L LIBRESCU	NAG 1-1689	8640
42	YORK UNIVERSITY	J K KALINOWSKI	GSFC	J J CALDWELL	NAS 5-30294	9127
42	UNIV STUTT GART	F M CURRAN	LERC	H O SCHRADE	NAGW 1736	9140
43	AUBURN UNIV-AUBURN	D L BRITTON	LERC	B J TATARCHUK	NAG 3-1154	1025
43	TUSKEGEE UNIVERSITY	P FAUGHNAN	KSC	N VAHDAT	NAG10-167	1071
43	UNIV OF ARIZONA	D K RUSSELL	HQ	W RASMUSSEN	NGT 00-070-256	1580
43	CALIF INST OF TECH	G A ZIMMERK	LERC	G T SMEDLEY	NAS 3-27263	1706
43	STANFORD UNIVERSITY	G A ZIMMERLI	LERC	A P GAST	NAG 3-1652	1909
43	STANFORD UNIVERSITY	M L PUSEY	MSFC	R S FEIGELSON	NAG 8-920	1918
43	STANFORD UNIVERSITY	G A LESANE	HQ	G M HOMSY	NGT 00-051-344	2023
43	UNIV CALIF-DAVIS	D CAGLIOSTRO	ARC	B J MCCOY	NCC 2-5079	2298
43	UNIV CALIF-SAN DIEGO	D R SCHRYER	LARC	R K HERZ	NAG 1-1051	2510
43	UNIV CALIF-S BARBARA	G A LESANE	HQ	L G LEAL	NGT 00-051-342	2686
43	COLORADO SCH OF MINE	R FRIEDMAN	LERC	J T MCKINNON	NAG 3-1628	2779
43	UNIV COLORADO-BOLDR	J A SALZMAN	LERC	R H DAVIS	NAG 3-1389	2866
43	UNIV COLORADO-BOLDR	T Y MILLER	MSFC	R H DAVIS	NAG 8-945	2944
43	UNIV COLORADO-BOLDR	G CRESS	JSC	R CULP	NAG 9-768	2953
43	UNIV COLORADO-BOLDR		HQ	R DAVIS	NAGW 4591	3039
43	UNIV COLORADO-BOLDR	L SHAW	LERC	R H DAVIS	NGT 3-52306	3132
43	UNIV OF CONNECTICUT	F C OWENS	HQ	C S SUNG	NGT 00-070-214	3165
43	YALE UNIVERSITY	T Y MILLER	MSFC	M LOEWENBERG	NAG 8-1127	3186
43	UNIV OF DELAWARE	G A LESANE	HQ	E W KALER	NGT 00-051-347	3229
43	UNIV OF DELAWARE	G LESANE	HQ	A M LENHOFF	NGT 00-051-389	3230
43	FLORIDA INST OF TECH	W E LARSON	KSC	R G BARILE	NAG10-98	3374
43	FLORIDA STATE UNIV	P H RHODES	MSFC	B R LOCKE	NAG 8-1163	3404
43	UNIV OF CENTRAL FLA	A L BAIN	KSC	D L BLOCK	NAG10-123	3432
43	UNIV OF CENTRAL FLA	J RYAN	KSC	C A CLAUSEN	NAG10-162	3441
43	UNIV OF CENTRAL FLA	G J ALLEN	KSC	C A CLAMSEN	NAG10-169	3443
43	UNIV OF FLORIDA	B S SINGH	LERC	C W PARK	NAG 3-1635	3466
43	UNIV OF FLORIDA	P N PETERS	MSFC	T J ANDERSON	NCC 8-51	3508
43	UNIV OF FLORIDA	F MONTEGANI	LERC	R NARAYANAN	NGT 00-051-242	3515
43	UNIV OF FLORIDA	D GLASCO	HQ	R NARAYANAN	NGT 00-051-410	3517
43	UNIV OF SO FLORIDA	H L NGUYEN	LERC	S J BEN YING	NAG 3-1112	3551
43	CLARK ATLANTA UNIV	E MCGOWAN	DFRC	L MOETI	NAG 4-11	3583
43	ILL INST OF TECH	D K RUSSELL	HQ	K SMITH	NGT 00-090-273	3881
43	NORTHWESTERN UNIV	S A GOKOGLU	LERC	B J MATKOWSKY	NAG 3-1608	3891
43	SO ILL UNIV-CARBONDL	J E FINN	ARC	B A DEVANTIER	NCC 2-5122	3932
43	UNIV ILLINOIS-URBANA	M PUSEY	MSFC	E B VAN SWOL	NAG 8-976	4085
43	UNIV ILLINOIS-URBANA	B CARPENTER	HQ	F B VAN SWOL	NGT 00-051-064	4112
43	INDIANA U-BLOOMINGTN	V SCHEIDER	HQ	D P HANGARTER	NAGW 4730	4146
43	IOWA STATE UNIV	C K FINN	ARC	D K ROLLINS	NAG 2-909	4258
43	UNIV OF IOWA	D GLASCO	HQ	J M WIENCEK	NGT 00-051-412	4346
43	SO UNIV & A&M COL-BR	A J HATCH	ARC	D K TRIVEDI	NAG 2-1015	4465
43	TULANE UNIVERSITY	S GONDA	JSC	K O'CONNOR	NAG 9-733	4481
43	JOHNS HOPKINS UNIV	G LASANE	HQ	W M SALTZMAN	NGT 00-051-134	4634
43	JOHNS HOPKINS UNIV	D GLASCO	HQ	D SALTZMAN	NGT 00-051-413	4635
43	MASS INST OF TECH	S L LEHOCZKY	MSFC	R A BROWN	NAG 8-961	5135
43	MASS INST OF TECH	F R SZOFRAN	MSFC	R A BROWN	NAG 8-962	5136
43	UNIV OF MASS-AMHERST	W M KNOTT	KSC	K A COREY	NAG10-91	5308
43	MICHIGAN TECH UNIV	J E FINN	ARC	D W HAND	NAG 2-820	5359
43	MISSISSIPPI STATE U	C G UPTON	MSFC	W B HALL	NAG 8-936	5622

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43	UNIV SO MISSISSIPPI	G LESANE	HQ	L J MATHIAS	NGT 00-051-261	5650
43	WASHINGTON UNIVERSTY	E BARKER	HQ	B FOGLEY	NAGW 4795	5730
43	UNIV NEW HAMP-DURHAM	J M HOELL	LARC	R W TALBOT	NAG 1-1233	5839
43	UNIV NEW HAMP-DURHAM	G LESANE	HQ	P GRILL	NGT 00-051-144	5905
43	PRINCETON UNIVERSITY	R C DARTY	MSFC	D A SAVILLE	NAG 8-969	5950
43	PRINCETON UNIVERSITY	B CARPENTER	HQ	D A SAVILLE	NGT 00-051-073	5979
43	PRINCETON UNIVERSITY	G A LESANE	HQ	D A SAVILLE	NGT 00-051-343	5982
43	PRINCETON UNIVERSITY	L SHAW	LERC	W B RUSSEL	NGT 3-52301	5984
43	RUTGERS ST U-PISCTWY	G A LESANE	HQ	J M WIENCEK	NGT 00-051-352	5998
43	RUTGERS ST U-PISCTWY	G A LESANE	HQ	J M WIENCEK	NGT 00-051-353	5999
43	RUTGERS ST U-N BRNSK	D A HOLLAND	HQ	J M WIENCEK	NGT 00-051-150	6012
43	CLARKSON UNIVERSITY	R L THOMPSON	LERC	R S SUBRAMANIAN	NAG 3-1470	6118
43	SYRACUSE UNIVERSITY	H K NAHRA	LERC	A S SANGANI	NAG 3-1630	6506
43	NO CAROLINA STATE U	J E FINN	ARC	D F OLLIS	NAG 2-684	6609
43	CASE WESTERN RESERVE	G W HUNTER	LERC	C C LIU	NAG 3-1741	6720
43	CASE WESTERN RESERVE	J K SUTTER	LERC	E BAER	NCC 3-322	6757
43	CASE WESTERN RESERVE	G W HUNTER	LERC	C C LIU	NCC 3-378	6766
43	CLEVELAND STATE UNIV	S K RUTLEDGE	LERC	P D HAMBOURGER	NCC 3-19	6815
43	CLEVELAND STATE UNIV	F I HURWITZ	LERC	A H ANDRIST	NCC 3-63	6816
43	CLEVELAND STATE UNIV	K W STREET	LERC	D B SHAH	NCC 3-301	6836
43	CLEVELAND STATE UNIV	P R PROKOPIUS	LERC	G COULMAN	NCC 3-342	6847
43	UNIV OF CINCINNATI	T R BRUNEEL	HQ	L P COOPER	NGT 00-010-031	7054
43	PENN STATE U-UNIV PK	M STUCKER	MSFC	N J SALAMON	NAG 8-879	7350
43	PENN STATE U-UNIV PK	D K RUSSELL	HQ	J FRANGOS	NGT 00-070-328	7432
43	VANDERBILT UNIVERSTY	G L PELLETT	LARC	T M BROWN, III	NGT 1-52106	7738
43	HUSTON-TILLOTSON COL	P D FAUGHNAN	KSC	L J BAYE	NAG10-153	7755
43	UNIV HOUSTON	J B MCQUILLEN	LERC	A E DUKLER	NAG 3-510	7970
43	UNIV HOUSTON	K MILLER	JSC	R METCALF	NAG 9-674	7982
43	UNIV HOUSTON	F MONTEGANI	LERC	A E DUKLER	NGT 00-051-159	8000
43	HAMPTON UNIVERSITY	G B NORTHAM	LARC	J F AKYURTLU	NAG 1-1636	8383
43	OLD DOMINION UNIV	R M BAUCOM	LARC	J M MARCHELLO	NAG 1-1067	8413
43	UNIV OF VIRGINIA	J E FINN	ARC	M D LE VAN	NCC 2-5024	8555
43	UNIV OF VIRGINIA	M BURRELL	GSFC	L U LILLELEHET	NGT 00-051-094	8577
43	UNIV OF VIRGINIA	F C OWENS	HQ	J L HUDSON	NGT 00-070-173	8585
43	UNIV OF VIRGINIA	J E FINN	ARC	M D LEVAN	NGT 2-52203	8601
43	VIRGINIA POLY INST	E PRIOR	LARC	G L WILKES	NGT 00-051-117	8668
43	VIRGINIA POLY INST	D K RUSSELL	HQ	J L NOTTINGHAM	NGT 00-090-264	8685
43	UNIV OF WASHINGTON	J K ALEXANDER	HQ	E J DAVIS	NGT 00-051-001	8850
43	U PUERTO RICO-MAYAGZ	G ALLEN	KSC	N K MEHTA	NAG10-159	9097
44	STANFORD UNIVERSITY	D K RUSSELL	HQ	N LOZANO	NGT 00-090-259	2037
44	UNIV OF SOUTHERN CAL	F B BURCHAM	ARC	E A JONCKHEERE	NCC 2-4002	2767
44	COLORADO STATE UNIV	J K ALEXANDER	HQ	W Z SADEH	NGT 00-050-929	2831
44	COLORADO STATE UNIV	D K RUSSELL	HQ	W Z SADEH	NGT 00-070-373	2833
44	UNIV OF CENTRAL FLA	T I YANG	KSC	W F CARROLL	NAG10-128	3434
44	UNIV OF CENTRAL FLA	C L JENKINS	KSC	S S KUO	NAG10-158	3440
44	GEORGIA INST OF TECH	J LUCERO	LERC	O G MCGEE	NAG 3-1754	3629
44	UNIV ILLINOIS-URBANA	R HAMPTON	ARC	R H DODDS JR.	NCC 2-5126	4102
44	LA ST U&A&M COL-BRGE	E MASSEY	HQ	D D ADRIAN	NGT 00-051-215	4451
44	MASS INST OF TECH	G LESANE	HQ	D ENTEKHABI	NGT 00-051-158	5253
44	CITY U OF NY CTY COL	D K RUSSELL	HQ	A R BROWN	NGT 00-090-251	6112
44	NO CAROLINA STATE U	D K RUSSELL	HQ	W COLEMAN	NGT 00-090-270	6649
44	CLEVELAND STATE UNIV	J R ELLIS	LERC	J H HEMANN	NAG 3-1543	6806
44	CARNEGIE-MELLON UNIV	D B LAVERY	HQ	W L WHITTAKER	NAGW 3903	7227
44	PRAIRIE VIEW A&M U	K E HENDERSON	JSC	R RADHA	NAG 9-667	7774
44	TEXAS A&M UNIVERSITY	F C OWENS	HQ	P N ROSCHKE	NGT 00-070-221	7934
44	UNIV HOUSTON	K HENDERSON	JSC	L BELL	NAG 9-662	7980
44	OLD DOMINION UNIV	O O STORAASLI	LARC	D T NGUYEN	NAG 1-858	8409
44	OLD DOMINION UNIV	D K RUSSELL	HQ	N BROWN	NGT 00-090-279	8481
44	UNIV OF VIRGINIA	H D CARDEN	LARC	A K NOOR	NAG 1-1197	8497
44	UNIV OF VIRGINIA	F C OWENS	HQ	W D PILKEY	NGT 00-070-230	8587

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45	AUBURN UNIV-AUBURN	D K HALL	MSFC	S A MERRYMAN	NAG 8-1058	1033
45	AUBURN UNIV-AUBURN	E PRIOR	LARC	S RAO	NGT 00-050-974	1042
45	AUBURN UNIV-AUBURN	L EVANS	LARC	S M RAO	NGT 00-051-246	1046
45	TUSKEGEE UNIVERSITY	E J PENCIL	LERC	P K RAY	NAG 3-1582	1062
45	UNIV ALA-HUNTSVILLE	T EDGE	MSFC	F D HO	NAG 8-108	1115
45	UNIV ALA-TUSCALOOSA	D RUSSELL	HQ	G SINGLETON	NGT 00-090-285	1234
45	ARIZONA STATE UNIV	M C GILREATH	LARC	C A BALANIS	NAG 1-562	1276
45	ARIZONA STATE UNIV	G C BARBER	LARC	C A BALANIS	NAG 1-1082	1278
45	ARIZONA STATE UNIV	D G SHIVELY	LARC	J T ABERLE	NAG 1-1630	1283
45	UNIV OF ARIZONA	F C OWENS	HQ	J A REAGAN	NGT 00-050-704	1556
45	UNIV OF ARIZONA	J ALEXANDER	HQ	P N SLATER	NGT 00-050-920	1561
45	UNIV OF ARIZONA	E J PRIOR	LARC	J REAGAN	NGT 00-051-111	1565
45	UNIV OF ARIZONA	G SOFFEN	GSFC	R D SCHRIMPF	NGT 00-051-210	1570
45	UNIV ARKANSAS-LTL RK	A JOYCE	SSC	M K HUDSON	NGT 00-050-886	1592
45	UNIV ARKANSAS-LTL RK	A JOYCE	SSC	M K HUDSON	NGT 00-051-013	1593
45	UNIV ARKANSAS-LTL RK	A JOYCE	SSC	M K HUDSON	NGT 00-051-216	1594
45	CALIF INST OF TECH	F C OWENS	HQ	J C DOYLE	NGT 00-050-742	1716
45	CALIF INST OF TECH	H ASHKENAS	JPL	D RUFLEDGE	NGT 00-070-265	1731
45	CAL STATE U-L ANGLES	D K RUSSELL	HQ	M RANDLE	NGT 00-090-252	1773
45	SAN JOSE STATE UNIV	J HINES	ARC	A SINGH	NCC 2-5112	1863
45	STANFORD UNIVERSITY	C H SCHULBACH	ARC	M J FLYNN	NAG 2-842	1898
45	STANFORD UNIVERSITY	W J WAGNER	HQ	P H SCHERRER	NAGW 2502	1931
45	STANFORD UNIVERSITY	J WILLET	HQ	U S INAN	NAGW 4466	1942
45	STANFORD UNIVERSITY	F MONTEGANI	LERC	U INAN	NGT 00-050-680	2011
45	STANFORD UNIVERSITY	P HUNTER	HQ	G TYLER	NGT 00-070-249	2025
45	STANFORD UNIVERSITY	D K RUSSELL	HQ	L TYLER	NGT 00-070-340	2029
45	UNIV CALIF-BERKELEY	D HOLLAND	HQ	E HALLER	NGT 00-051-303	2236
45	UNIV CALIF-DAVIS	P GOORJIAN	ARC	A KNOESEN	NCA 2-780	2277
45	UNIV CALIF-DAVIS	P GOORJIAN	ARC	A KNOESEN	NCC 2-5154	2304
45	UNIV CALIF-IRVINE	J E DORBAND	GSFC	I D SHERSON	NAG 5-2561	2331
45	UNIV CALIF-IRVINE	D WATRING	MSFC	F G SHI	NAG 8-1082	2335
45	UNIV CALIF-IRVINE	D K RUSSELL	HQ	F HERMES	NGT 00-090-271	2358
45	COLORADO STATE UNIV	F C OWENS	HQ	M THOMPSON	NGT 00-050-848	2830
45	UNIV COLORADO-BOLDR	V C VANDERBILT	ARC	B J VAN ZEGHBROECK	NCC 2-5067	3061
45	UNIV COLORADO-BOLDR	F SIX	MSFC	R FREHLICH	NGT 00-051-206	3112
45	UNIV COLORADO-BOLDR	L EVANS	LARC	A MICHELSON	NGT 00-051-257	3115
45	UNIV COLORADO-BOLDR	A NOVOTNY	HQ	D M ETTER	NGT 00-051-398	3123
45	UNIV COLORADO-BOLDR	C HIX	JPL	R SIE	NGT 00-051-420	3125
45	UNIV COLORADO-BOLDR	J T LYNCH	HQ	C E FOSHA	NGT 00-070-291	3129
45	UNIV COLORADO-BOLDR	F MONTEGRANI	LERC	D G MEYER	NGT 00-070-301	3130
45	UNIV COLORADO-DENVER	D I SOLOWAY	LARC	J T BIALASIEWICZ	NAG 1-1444	3136
45	YALE UNIVERSITY	C HICKS	JPL	L J GUIDO	NGT 00-051-395	3201
45	UNIV OF DELAWARE	H LUM	ARC	D L MILLS	NAG 2-638	3206
45	UNIV OF DELAWARE	H ASHKERAS	JPL	K HUNSPERGER	NGT 00-050-889	3228
45	HOWARD UNIVERSITY	J A POWELL	LERC	G L HARRIS	NAG 3-1406	3264
45	HOWARD UNIVERSITY	J F SELLERS	LERC	J A MOMOH	NAG 3-1426	3265
45	HOWARD UNIVERSITY	D F NOGA	LERC		NAG 3-1661	3267
45	HOWARD UNIVERSITY	L A VITERNA	LERC	J A MOMOH	NAG 3-1675	3268
45	HOWARD UNIVERSITY	J J NAINIGER	LERC	J A MOMOH	NAG 3-1743	3271
45	HOWARD UNIVERSITY	A S BURGESS	GSFC	R CHOWDHARY	NAG 5-1049	3275
45	HOWARD UNIVERSITY	H ASHKENAS	JPL	J A MOMEH	NGT 00-050-973	3285
45	CATHOLIC UNIVERSITY	T PREMACK	GSFC	C C NGUYEN	NAG 5-780	3293
45	UNIV DIST COLUMBIA	C ALLEN	GSFC	S LAKEOU	NAG 5-2348	3314
45	FLORIDA INST OF TECH	L F LOLLAR	MSFC	R A MORRIS	NAS 8-39385	3378
45	UNIV OF CENTRAL FLA	J E HANLON	KSC	C G CHRISTODOULOU	NAG10-126	3433
45	UNIV OF FLORIDA	M EWERT	JSC	A DAMIJAN	NAG 9-783	3475
45	UNIV OF FLORIDA	M SCOTT	KSC	E M THOMSON	NAG10-135	3495
45	UNIV OF SO FLORIDA	S LITTLE	MSFC	S N BUSANSKY	NCC 8-31	3564
45	GEORGIA INST OF TECH	J H TUCKER	LARC	V K MADISSETTI	NAG 1-1624	3603
45	GEORGIA INST OF TECH	P S YEH	GSFC	M J SMITH	NAG 5-2187	3632

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45	GEORGIA INST OF TECH	J S THEON	HQ	A J GASIEWSKI	NAGW 4191	3653
45	GEORGIA INST OF TECH	L G CLARK	LARC	M D BLUE	NAS 1-14654	3660
45	GEORGIA INST OF TECH	J ALEXANDER	HQ	A J GASIEWSKI	NGT 00-050-903	3680
45	GEORGIA INST OF TECH	F SIX	MSFC	W T RHODES	NGT 00-051-042	3682
45	GEORGIA INST OF TECH	D K RUSSELL	HQ	R GERHARDT	NGT 00-070-356	3696
45	MERCER UNIV-CENTR O	D STILWELL	JSC	E M O'BRIEN	NAG 9-645	3722
45	MOREHOUSE COLLEGE	D K RUSSELL	HQ	D MARTIN	NGT 00-090-278	3724
45	SPELMAN COLLEGE	B WHITE	HQ	E FALCONER	NGT 00-090-003	3733
45	UNIV OF HAWAII-MANOA	D RUSSELL	HQ	J LASKAR	NGT 00-070-385	3852
45	UNIV ILLINOIS-CHICGO	A C WOO	ARC	K R UMASHANKAR	NAG 2-868	4031
45	UNIV ILLINOIS-URBANA	Y LIU	ARC	J E SCHUTT-AINE	NAG 2-823	4053
45	UNIV ILLINOIS-URBANA	A C WOO	ARC	W C CHEW	NAG 2-871	4056
45	UNIV ILLINOIS-URBANA	A J ZAMAN	LERC	S W LEE	NAG 3-1474	4067
45	UNIV ILLINOIS-URBANA	M MOORE	ARC	B W WAH	NGT 00-051-339	4114
45	INDIANA U-SOUTH BEND	P HUNTER	HQ	A ECER	NGT 00-051-172	4152
45	PURDUE UNIVERSITY	F MONTEGANI	LERC	J L GRAY	NGT 00-050-867	4213
45	PURDUE UNIVERSITY	J K ALEXANDER	HQ	H J SIEGEL	NGT 00-050-961	4215
45	PURDUE UNIVERSITY	D G RICKORES	JSC	A A MACISIAWSKI	NGT 9-2	4225
45	UNIV OF NOTRE DAME	R L BEXTEN	LERC	D J COSTELLO	NAG 3-1549	4232
45	IOWA STATE UNIV	M NAMKUNG	LARC	W L LORD	NAG 1-1129	4252
45	IOWA STATE UNIV	E PRIOR	LARC	W LORD	NGT 00-050-991	4287
45	IOWA STATE UNIV	G SOFFEN	GSFC	J P BASART	NGT 00-051-020	4289
45	UNIV OF KANSAS	F C OWENS	HQ	D HAVERKAMP	NGT 00-050-604	4385
45	UNIV OF KANSAS	G SOFFEN	GSFC	S P GOGINENI	NGT 00-051-021	4387
45	UNIV OF KANSAS	G LESANE	HQ	R K MOORE	NGT 00-051-123	4388
45	CAPITOL COLLEGE	D MENCHAN	GSFC	J JARRELL	NGT 00-090-063	4515
45	JOHNS HOPKINS UNIV	N NAMKUNG	LARC	S NATH	NAG 1-1673	4525
45	JOHNS HOPKINS UNIV	B ABSHIRE	GSFC	M DAVIDSON	NAG 5-2232	4548
45	MORGAN STATE UNIV	D K RUSSELL	HQ	E DELOATCH	NGT 00-090-272	4649
45	UNIV MARYLAND-COL PK	B MOTT	GSFC	A A ILIADIS	NAG 5-2340	4710
45	UNIV MARYLAND-COL PK	D M CORNWALL	GSFC	M DAGENAIS	NAG 5-2359	4712
45	UNIV MARYLAND-COL PK	G SOFFEN	GSFC	J JAJA	NGT 00-050-951	4859
45	UNIV MARYLAND-COL PK	G SOFFEN	GSFC	M DAGENAIS	NGT 00-051-017	4861
45	UNIV MD-EASTRN SHORE	D MENCHAN	GSFC	R E MULLER	NCA 5-99	4872
45	U OF MD-BALT. COUNTY	B D SEERY	GSFC	J M MORRIS	NAG 5-2194	4875
45	MASS INST OF TECH	M D KANKAM	LERC	S D UMANS	NAG 3-1510	5074
45	UNIV OF MASS-AMHERST	F C OWENS	HQ	K M LAU	NGT 00-050-828	5312
45	UNIV OF MASS-AMHERST	C HIX	JPL	R E MCINTOSH	NGT 00-051-277	5313
45	UNIV OF MASS-AMHERST	F C OWENS	HQ	K M LAU	NGT 00-070-234	5315
45	MICHIGAN STATE UNIV	C R MERCER	LERC	H J SCHOCK	NAG 3-1304	5345
45	UNIV MICH-ANN ARBOR	F B BECK	LARC	J L VOLAKIS	NAG 1-1478	5382
45	UNIV MICH-ANN ARBOR	A C WOO	ARC	J L VOLAKIS	NAG 2-866	5388
45	UNIV MICH-ANN ARBOR	S A ALTEROVITZ	LERC	P K BHATTACHARGA	NAG 3-988	5390
45	UNIV MICH-ANN ARBOR	S H WAY	GSFC	G R CARIGNAN	NAG 5-2918	5424
45	UNIV MICH-ANN ARBOR	A C WOO	ARC	J L VOLAKIS	NCA 2-839	5486
45	UNIV MICH-ANN ARBOR	F SIX	MSFC	B E GILCHRIST	NGT 00-051-166	5507
45	U MINN-MNPLS-ST PAUL	I G HANSEN	LERC	N MOHAN	NAG 3-1721	5550
45	UNIV MISS-UNIVERSITY	M W SUITS	MSFC	R HICKLING	NAS 8-39745	5645
45	UNIV NEBRASKA-LINCLN	D A JAWORSKE	LERC	J A WOOLLAM	NAG 3-95	5765
45	UNIV NEBRASKA-LINCLN	W A WHYTE	LERC	K SAYOOD	NAG 3-806	5766
45	UNIV NEBRASKA-LINCLN	P SHU YEH	GSFC	K SAYOOD	NAG 5-1612	5768
45	UNIV NEBRASKA-LINCLN	F MONTEGANI	LERC	K SAYOOD	NGT 00-070-280	5786
45	DARTMOUTH COLLEGE	F C OWENS	HQ	B SONNERUP	NGT 00-050-798	5835
45	PRINCETON UNIVERSITY	R SYNDER	MSFC	D SAVILLE	NAG 8-878	5949
45	NEW MEX INST MINING	R BLAKESLEE	MSFC	M BROOK	NAG 8-66	6033
45	NEW MEX ST U-LAS CR	N SCHULTZ	GSFC	A BAKER	NAS 5-32252	6061
45	NEW MEX ST U-LAS CR	G SOFFEN	GSFC	W P OSBORNE	NGT 00-050-898	6065
45	CITY U OF NY CTY COL	B S GOOD	LERC	R R ALFANO	NAG 3-1490	6099
45	CORNELL UNIVERSITY	F C OWENS	HQ	M C KELLEY	NGT 00-070-217	6322
45	CUNY-LAG'RDIA CMTY C	D K RUSSELL	HQ	C WATKINS	NGT 00-090-053	6332

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45	POLYTECHNIC U	F L PITTS	LARC	M L SHOOMAN	NAG 1-1272	6354
45	RENSSELAER POLY-NY	G SOFFEN	GSFC	H STEPHANON	NGT 00-070-272	6400
45	STATE U NY-BINGHAMTN	R C CULL	LERC	D C HOPKINS	NAG 3-1464	6432
45	STATE UNIV NY-BUFFAL	S DOMITZ	LERC	J R LAGHARI	NAG 3-1345	6441
45	UNIV OF ROCHESTER	J H GOEBEL	ARC	W J FORREST	NAG 2-975	6517
45	UNIV OF ROCHESTER	P GOORJIAN	ARC	G AGRAWAL	NCA 2-827	6525
45	UNIV OF ROCHESTER	P M GOORJIAN	ARC	G AGRAWAL	NCC 2-5149	6526
45	NO CAR A&T STATE U	I WEINBERG	LERC	W COLLY	NAG 3-976	6582
45	NO CAR A&T STATE U	D K RUSSELL	HQ	L SHARPE	NGT 00-090-256	6596
45	NO CAROLINA STATE U	D K RUSSELL	HQ	W ALEXANDER	NGT 00-070-344	6645
45	NO CAROLINA STATE U	D K RUSSELL	HQ	W E ALEXANDER	NGT 00-070-402	6646
45	NO DAKOTA STATE UNIV	J W HINES	ARC	D EWERT	NCC 2-5157	6680
45	CASE WESTERN RESERVE	A J RATAJ CZAK	LERC	S OSTRACH	NAG 3-886	6700
45	CASE WESTERN RESERVE	G BEHEIM	LERC	M TABIB-AZAR	NAG 3-1473	6712
45	CASE WESTERN RESERVE	L G MATUS	LERC	M MEHREGANY	NCC 3-253	6742
45	CASE WESTERN RESERVE	P G NEUDECK	LERC	M TABIB-AZAR	NCC 3-294	6752
45	CASE WESTERN RESERVE	R R KUNATH	LERC	D D SINGER	NCC 3-431	6770
45	CASE WESTERN RESERVE	D K RUSSELL	HQ	S PHILLIPS	NGT 00-070-351	6787
45	CASE WESTERN RESERVE	D K RUSSELL	HQ	S PHILIPS	NGT 00-070-407	6788
45	CLEVELAND STATE UNIV	I WEINBERG	LERC	C GORADIA	NAG 3-658	6797
45	CLEVELAND STATE UNIV	H KIM	LERC	P CHU	NAG 3-1379	6802
45	CLEVELAND STATE UNIV	I WEINBERG	LERC	C GORADIA	NAG 3-1692	6810
45	CLEVELAND STATE UNIV	J A KOBAK	LERC	G L KRAMERICH	NCC 3-163	6825
45	CLEVELAND STATE UNIV	J C DELAAT	LERC	F E VILLASECA	NCC 3-257	6832
45	JOHN CARROLL UNIV	G BEHEIM	LERC	K FRITSCH	NAG 3-571	6868
45	KENT STATE UNIV-KENT	D J BRINKER	LERC	C VARGAS-ABURTO	NAG 3-1710	6872
45	KENT STATE UNIV-KENT	A F HEPP	LERC	C VORGAS-ABURTO	NCC 3-394	6880
45	OHIO STATE UNIV	G C BARBER	LARC	E H NEWMAN	NAG 1-1058	6888
45	OHIO STATE UNIV	A C WOO	ARC	R LEE	NAG 2-870	6892
45	OHIO STATE UNIV	I WEINBERG	LERC	S A RINGEL	NAG 3-1461	6903
45	OHIO STATE UNIV	E RHO	LERC	W D BURNSIDE	NAG 3-1496	6905
45	OHIO STATE UNIV	E RHO	LERC	W D BURNSIDE	NAG 3-1497	6906
45	OHIO STATE UNIV	E RHO	LERC	P H PATHAK	NAG 3-1649	6911
45	OHIO STATE UNIV	R R KUNATH	LERC	W D BURNSIDE	NAG 3-26305	6950
45	OHIO STATE UNIV	J D WALKER	LERC	G J VALCO	NCC 3-341	6957
45	OHIO STATE UNIV	M C GILREATH	LARC	W D BURNSIDE	NSG-1498	6968
45	OHIO STATE UNIV	M C GILREATH	LARC	W D BURNSIDE	NSG-1613	6969
45	OHIO UNIVERSITY	F R MORRELL	LARC	R H MCFARLAND	NGR36-9017	6975
45	UNIV OF AKRON	G ADAUIOVSKY	LERC	S I HARIHARAN	NCC 3-283	7007
45	UNIV OF AKRON	F MONTEGANI	LERC	M ELBULUK	NGT 00-051-182	7012
45	UNIV OF CINCINNATI	D J LARKIN	LERC	A J STECKI	NAG 3-1555	7029
45	UNIV OF CINCINNATI	R R KUNATH	LERC	K P ROENKER	NAG 3-1757	7032
45	UNIV OF CINCINNATI	R R KUNATH	LERC	K P ROENKER	NCC 3-252	7048
45	UNIV OF CINCINNATI	F MONTEGANI	LERC	V J KAPOOR	NGT 00-051-234	7060
45	UNIV OF CINCINNATI	F C OWENS	HQ	S G RUBIN	NGT 00-070-168	7063
45	UNIV OF TOLEDO	J M BUDINGER	LERC	S C KWATRA	NAG 3-799	7076
45	UNIV OF TOLEDO	J A HAMLEY	LERC	T J STUART	NAG 3-1576	7092
45	UNIV OF TOLEDO	R E JONES	LERC	S C KWATRA	NAG 3-1718	7093
45	UNIV OF TOLEDO	V O HEINES	LERC	V J KAPOOR	NAG 3-1758	7096
45	UNIV OF TOLEDO	R O LEE	LERC	K F LEE	NCC 3-126	7103
45	UNIV OF TOLEDO	R A MENU	LERC	K J DE WITT	NCC 3-260	7109
45	OKLAHOMA STATE UNIV	R HANN	LERC	A DOMINEK	NAG 3-1785	7124
45	UNIV OKLAHOMA-NORMAN	M LUTHER	HQ	P J MCCANN	NGT 00-030-308	7142
45	BUCKNELL UNIVERSITY	J K DORBAND	GSFC	M F ABURDENA	NAG 5-2934	7211
45	CARNEGIE-MELLON UNIV	V C OWENS	HQ	T KANADE	NGT 00-050-559	7233
45	CARNEGIE-MELLON UNIV	E J PRIOR	LARC	T KANADE	NGT 00-050-990	7236
45	CARNEGIE-MELLON UNIV	C HIX	JPL	R SIMMONS	NGT 00-051-039	7239
45	CARNEGIE-MELLON UNIV	F SIX	MSFC	E KROTKOV	NGT 00-051-045	7240
45	CARNEGIE-MELLON UNIV	S GOLDSTEIN	JSC	B V KUMAR	NGT 00-051-231	7242
45	DREXEL UNIVERSITY	D I SOLOWAY	LARC	S GRAY	NCC 1-171	7259

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45	DREXEL UNIVERSITY	R R KUNATH	LERC	A S DARYOUSH	NCC 3-149	7260
45	DREXEL UNIVERSITY	R KUNATH	LERC	A S DARYOUSH	NCC 3-363	7261
45	PENN STATE U-UNIV PK	F B BECK	LARC	R LUEBBERS	NAG 1-1646	7289
45	PENN STATE U-UNIV PK	A C WOO	ARC	R J LUEBBERS	NAG 2-867	7292
45	UNIV OF PENNSYLVANIA	C HICKS	JPL	N H FARHAT	NGT 00-051-393	7446
45	UNIV OF PITTSBURGH	G E SCHWARZE	LERC	W R WIESERMAN	NAG 3-945	7450
45	UNIV OF PITTSBURGH	R C CULL	LERC	G L KUSIC	NAG 3-1545	7453
45	UNIV OF PITTSBURGH	R C CULL	LERC	G KUSIC	NAG 3-1691	7455
45	CLEMSON UNIV-CLEMSON	L D STATON	LARC	E G BAXA	NAG 1-1634	7570
45	CLEMSON UNIV-CLEMSON	D J DAVIS	GSFC	W B LING, III	NAG 5-3053	7575
45	CLEMSON UNIV-CLEMSON	T BENNETT	GSFC	A S COLLINS	NAS 5-32462	7584
45	CLEMSON UNIV-CLEMSON	E PRIOR	LARC	E G BAXA	NGT 00-050-975	7588
45	CLEMSON UNIV-CLEMSON	D K RUSSELL	HQ	J S LASSER	NGT 00-090-253	7596
45	TENNESSEE STATE UNIV	D K RUSSELL	HQ	D ROGERS	NGT 00-090-274	7663
45	UNIV TENNESSEE-KNOXV	M D KANKAM	LERC	B K BOSE	NAG 3-1707	7681
45	VANDERBILT UNIVERSTY	G I JOHNSTON	HQ	A M STRAUSS	NAGW 2030	7718
45	PRAIRIE VIEW A&M U	G D ARNDT	JSC	C L TOLLIVER	NAG 9-318	7770
45	PRAIRIE VIEW A&M U	G D ARNDT	JSC	J FOSTER	NAG 9-763	7775
45	RICE UNIVERSITY	C HESS	JSC	I D WALKER	NAG 9-740	7805
45	TEXAS A&M UNIVERSITY	K MILLER	JSC	J SEYED-YAGOOBI	NAG 9-730	7895
45	TEXAS A&M UNIVERSITY	D BELLANGER	JSC	M EHSANI	NAG 9-751	7897
45	TEXAS A&M UNIVERSITY	C LIVINGSTON	HQ	F R BEST	NAGW 1194	7903
45	TEXAS A&M UNIVERSITY	D K RUSSELL	HQ	K CHANG	NGT 00-070-304	7936
45	TEXAS A&M UNIVERSITY	D K RUSSELL	HQ	D TURNER	NGT 00-090-276	7943
45	TEXAS SOUTHERN UNIV	B J BRAGG	JSC	A R CHOWDHURY	NAG 9-781	7958
45	TEXAS TECH UNIV	F L PITTS	LARC	T F TROST	NAG 1-1510	7961
45	TEXAS TECH UNIV	C K GARY	ARC	J F WALKUP	NAG 2-878	7962
45	TEXAS TECH UNIV	E J PENCIL	LERC	M KRISTIANSEN	NAG 3-1672	7966
45	UNIV HOUSTON	J W SUNKEL	JSC	L S SHIEH	NAG 9-380	7972
45	UNIV HOUSTON	J W SUNKEL	JSC	L S SHIEH	NAG 9-746	7988
45	UNIV TEXAS-ARLINGTON	F C OWENS	HQ	A K FUNG	NGT 00-050-844	8059
45	UNIV TEXAS-AUSTIN	A J ZAMAN	LERC	H LING	NAG 3-1589	8074
45	UNIV TEXAS-AUSTIN	K BAKER	JSC	A C BOVIK	NAG 9-666	8099
45	UNIV TEXAS-AUSTIN	A J ZAMAN	LERC	H LING	NCC 3-273	8161
45	UNIV TEXAS-AUSTIN	D K RUSSELL	HQ	J CAMBELL	NGT 00-070-338	8186
45	UNIV TEXAS-AUSTIN	D K RUSSELL	HQ	S REED	NGT 00-090-249	8189
45	CHRISTPHR NEWPORT U	S G JURCZYK	LARC	R F HODSON	NAG 1-1439	8317
45	CHRISTPHR NEWPORT U	R S ROGOWSKI	LARC	A M BUONCRISTIANI	NAG 1-1443	8318
45	OLD DOMINION UNIV	P J HAYES	LARC	W STOUGHTON	NCC 1-136	8457
45	OLD DOMINION UNIV	J T LYNCH	HQ	A DHARAMSI	NGT 00-051-103	8468
45	OLD DOMINION UNIV	L EVANS	LARC	K H SCHOENBACH	NGT 00-051-188	8471
45	OLD DOMINION UNIV	J T LYNCH	HQ	S ALBIN	NGT 00-070-307	8477
45	OLD DOMINION UNIV	D K RUSSELL	HQ	S ALBIN	NGT 00-070-308	8478
45	UNIV OF VIRGINIA	J A NCADOO	LARC	E TOWE	NCC 1-197	8552
45	UNIV OF VIRGINIA	F C OWENS	HQ	S H JONES	NGT 00-050-647	8561
45	UNIV OF VIRGINIA	F C OWENS	HQ	T W CROWE	NGT 00-050-725	8564
45	UNIV OF VIRGINIA	F C OWENS	HQ	A W LICHTENBERGER	NGT 00-050-820	8566
45	UNIV OF VIRGINIA	J T LYNCH	HQ	N NANDHAKUMAR	NGT 00-051-055	8574
45	UNIV OF VIRGINIA	G LASANE	HQ	E TOWE	NGT 00-051-068	8576
45	UNIV OF VIRGINIA	D HOLLAND	HQ	T W CROWE	NGT 00-051-326	8582
45	UNIV OF VIRGINIA	C HICKS	JPL	T W CROWE	NGT 00-051-396	8584
45	UNIV OF VIRGINIA	D K RUSSELL	HQ	E TOWE	NGT 00-070-336	8590
45	VIRGINIA POLY INST	R S ROGOWSKI	LARC	R O CLAUS	NAG 1-1508	8626
45	VIRGINIA POLY INST	B A MANNERS	LERC	F C LEE	NAG 3-1349	8646
45	VIRGINIA POLY INST	C L PARSONS	GSFC	G S BROWN	NAG 5-659	8652
45	VIRGINIA POLY INST	J M JAGIELSKI	GSFC	F C LEE	NAS 5-31442	8657
45	VIRGINIA POLY INST	D K RUSSELL	HQ	T POON	NGT 00-070-318	8674
45	UNIV OF WASHINGTON	M Y WEI	HQ	L TSANG	NAGW 4251	8798
45	UNIV OF WASHINGTON	J K ALEXANDER	HQ	R WEST	NGT 00-050-812	8847
45	MARQUETTE UNIVERSITY	J HINES	ARC	D C JEUTTER	NCC 2-5108	8915

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45	UNIV WISC-MADISON	L M TAYLOR	LERC	T A LIPO	NAG 3-1447	8933
45	UNIV WISC-MADISON	J O LARIMER	ARC	B E SALEH	NCC 2-780	9040
45	U PUERTO RICO-MAYAGZ	A JOYCE	SSC	R E VASQUEZ	NGT 00-051-340	9103
45	U PUERTO RICO-MAYAGZ	D K RUSSELL	HQ	R E VASQUEZ	NGT 00-070-208	9104
45	U PUERTO RICO-MAYAGZ	D K RUSSELL	HQ	R VASQUEZ	NGT 00-070-362	9113
46	AUBURN UNIV-AUBURN	B G PENN	MSFC	D W MACKOWSKI	NAG 8-977	1029
46	AUBURN UNIV-AUBURN	J VARGAS	MSFC	R M JENKINS	NCC 8-67	1038
46	AUBURN UNIV-AUBURN	F C OWENS	HQ	M J CROCKER	NGT 00-050-402	1041
46	AUBURN UNIV-AUBURN	D K RUSSEL	HQ	G T FLOWERS	NGT 00-070-312	1047
46	AUBURN UNIV-AUBURN	D K RUSSELL	HQ	S C SINHA	NGT 00-070-384	1048
46	UNIV ALA-HUNTSVILLE	D O FRAZIER	MSFC	R J HUNG	NCC 8-38	1179
46	UNIV ALA-HUNTSVILLE	F C OWENS	HQ	Z MUSIELAK	NGT 00-050-701	1183
46	UNIV ALA-HUNTSVILLE	E MASSEY	HQ	C W HAWK	NGT 00-051-371	1188
46	UNIV ALA-HUNTSVILLE	F S SIX	MSFC	G KARR	NGT 00-070-240	1190
46	UNIV ALA-HUNTSVILLE	D K RUSSELL	HQ	L RUSSELL	NGT 00-090-248	1195
46	UNIV ALA-HUNTSVILLE	J J HUTT	MSFC	D FEIKEMA	NGT 8-52804	1199
46	UNIV ALA-TUSCALOOSA	J VARGOS	MSFC	R W WHITAKER	NAG 8-988	1215
46	UNIV ALA-TUSCALOOSA	J VARGAS	MSFC	J PARKER	NAG 8-1025	1216
46	UNIV ALA-TUSCALOOSA	F E LEDBETTER	MSFC	A L HIGHSMITH	NAG 8-1059	1219
46	UNIV ALA-TUSCALOOSA	F SIX	HQ	L T WORTZ	NGT 00-070-302	1231
46	UNIV ALA-TUSCALOOSA	D K RUSSELL	HQ	J K PARKER	NGT 00-070-379	1232
46	ARIZONA STATE UNIV	E TU	ARC	A CHATTOPADHYAY	NCC 2-5127	1339
46	UNIV OF ARIZONA	A TESSLER	LARC	E MADENCI	NAG 1-1626	1363
46	UNIV OF ARIZONA	G A LESANE	HQ	C F CHEN	NGT 00-051-363	1579
46	UNIV OF ARIZONA	D K RUSSELL	HQ	A ORTEGA	NGT 00-070-403	1581
46	CAL STATE U-LG BEACH	R J SILOX	LARC	S HUNT	NAG 1-1697	1765
46	SAN FRAN STATE UNIV	G M MULENBURG	ARC	P PFAELZER	NCC 2-5107	1820
46	STANFORD UNIVERSITY	L M CARNEY	LERC	M A CAPPELLI	NAG 3-1040	1906
46	STANFORD UNIVERSITY	K S CHUN	LERC	R K HANSON	NAG 3-1185	1907
46	STANFORD UNIVERSITY	H NELSON	ARC	D NELSON	NCA 2-767	1954
46	STANFORD UNIVERSITY	M INOUE	ARC	P MOIN	NCC 2-460	1964
46	STANFORD UNIVERSITY	R MANCINI	ARC	D V NELSON	NCC 2-879	1971
46	STANFORD UNIVERSITY	R T WHALEN	ARC	D R CARTER	NCC 2-5121	1997
46	STANFORD UNIVERSITY	J C ROSS	ARC	P BRADSHAW	NCC 2-5140	2001
46	STANFORD UNIVERSITY	M MOORE	ARC	R J MOFFAT	NGT 00-051-028	2016
46	STANFORD UNIVERSITY	F MONTEGANI	LERC	M CAPPELLI	NGT 00-051-238	2019
46	STANFORD UNIVERSITY	S HARADON	HQ	P SEGALL	NGT 00-051-341	2022
46	STANFORD UNIVERSITY	D K RUSSELL	HQ	J POWELL	NGT 00-070-361	2032
46	STANFORD UNIVERSITY	D K RUSSELL	HQ	L LEIFER	NGT 00-070-405	2034
46	STANFORD UNIVERSITY	B HINE	ARC	L LEIFER	NGT 2-52208	2039
46	UNIV CALIF-BERKELEY	B S SINGH	LERC	V P CAREY	NAG 3-1633	2052
46	UNIV CALIF-BERKELEY	S R ELLIS	ARC	H KAZERAONI	NCC 2-909	2192
46	UNIV CALIF-BERKELEY	P HUNTER	HQ	M HOLT	NGT 00-051-030	2225
46	UNIV CALIF-BERKELEY	G LESANE	HQ	A C FERNANDEZ-PELLO	NGT 00-051-268	2231
46	UNIV CALIF-BERKELEY	G LESANE	HQ	R KRAM	NGT 00-051-416	2240
46	UNIV CALIF-BERKELEY	D K RUSSELL	HQ	M HOLT	NGT 00-070-309	2241
46	UNIV CALIF-BERKELEY	D K RUSSELL	HQ	F HURLEUT	NGT 00-070-310	2242
46	UNIV CALIF-DAVIS	K J WEILAND	LERC	R C ALDREDGE	NAG 3-1558	2257
46	UNIV CALIF-DAVIS	F CARADONNA	ARC	M M HAFEZ	NCA 2-737	2276
46	UNIV CALIF-DAVIS	J B HAGGARD	LERC	B D SHAW	NCC 3-245	2305
46	UNIV CALIF-DAVIS	F P CHIARAMONTE	LERC	B D SHAW	NCC 3-353	2306
46	UNIV CALIF-IRVINE	H D ROSS	LERC	S E ELGHOBASHI	NAG 3-1605	2327
46	UNIV CALIF-L ANGELES	R L THOMPSON	LERC	R E KELLY	NAG 3-1456	2374
46	UNIV CALIF-L ANGELES	R FRIEDMAN	LERC	G E APOSTOLAKIS	NAS 3-25975	2474
46	UNIV CALIF-SAN DIEGO	K W BAKER	LERC	K O LUND	NAG 3-1243	2523
46	UNIV CALIF-SAN DIEGO	H D ROSS	LERC	F A WILLIAMS	NAG 3-1248	2524
46	UNIV CALIF-SAN DIEGO	H D ROSS	LERC	F A WILLIAMS	NAG 3-1689	2525
46	UNIV CALIF-SAN DIEGO	O MEHMER	LERC	J B KOSMATKA	NCC 3-309	2620
46	UNIV CALIF-S BARBARA	S M ARNOLD	LERC	F A LECKIE	NAG 3-894	2650
46	UNIV OF SOUTHERN CAL	K J WEILAND	LERC	P D RONNEY	NAG 3-1523	2733

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46	UNIV OF SOUTHERN CAL	S C OLSON	LERC	P D RONNEY	NAG 3-1611	2734
46	UNIV OF SOUTHERN CAL	H D ROSS	LERC	F N EGOLFOPOULOS	NAG 3-1615	2735
46	UNIV OF SOUTHERN CAL	B S SINGH	LERC	P D RONNEY	NAG 3-1653	2738
46	UNIV OF SOUTHERN CAL	B C CARPENTER	HQ	S S SADHAL	NAGW 3378	2753
46	UNIV OF SOUTHERN CAL	G A LESANE	HQ	P D RONNEY	NGT 00-051-358	2771
46	COLORADO STATE UNIV	D A HOPKINS	LERC	P R HEYLIGER	NAG 3-1520	2794
46	COLORADO STATE UNIV	J GALOFARO	LERC	P J WILBUR	NAG 3-1700	2795
46	COLORADO STATE UNIV	G I JOHNSTON	HQ	M E CRISWELL	NAGW 2069	2806
46	UNIV COLORADO-BOLDR	G L GILES	LARC	K C PARK	NAG 1-756	2836
46	UNIV COLORADO-BOLDR	W H PROSSER	LARC	W P RODGERS	NAG 1-1390	2841
46	UNIV COLORADO-BOLDR	R E GILLIAN	LARC	C FARHAT	NAG 1-1391	2842
46	UNIV COLORADO-BOLDR	H G BUSH	LARC	M M MIKULAS	NAG 1-1483	2845
46	UNIV COLORADO-BOLDR	H G BUSH	LARC	L D PETERSON	NAG 1-1490	2846
46	UNIV COLORADO-BOLDR	R FRIEDMAN	LERC	M C BRANCH	NAG 3-1257	2864
46	UNIV COLORADO-BOLDR	H D ROSS	LERC	J R HERTZBERG	NAG 3-1616	2871
46	UNIV COLORADO-BOLDR	R FRIEDMAN	LERC	M C BRANCH	NAG 3-1685	2872
46	UNIV OF CONNECTICUT	A D FREED	LERC	E H JORDAN	NAG 3-1258	3158
46	YALE UNIVERSITY	D P STOCKER	LERC	A GOMEZ	NAG 3-1259	3172
46	YALE UNIVERSITY	H D ROSS	LERC	M D SMOOKE	NAG 3-1625	3173
46	YALE UNIVERSITY	D STOCKER	LERC	A GOMEZ	NAG 3-1688	3175
46	HOWARD UNIVERSITY	D F NOGA	LERC	R REISS	NAG 3-1445	3266
46	HOWARD UNIVERSITY	T W KERSLAKE	LERC	E K GLAKPE	NAG 3-1676	3269
46	FLA INTERNATIONAL U	K LAWLESS	MSFC	P L ROMINE	NAG 8-1154	3333
46	FLORIDA STATE UNIV	Y C CHO	ARC	L LOURENCO	NAG 2-809	3385
46	FLORIDA STATE UNIV	F SIX	MSFC	T N KRISHNAMURTI	NGT 00-070-258	3418
46	UNIV OF CENTRAL FLA	R M DAVIS	KSC	E A MOSLEKY	NAG10-117	3427
46	UNIV OF FLORIDA	K P KUNDU	LERC	N S WINOWICH	NAG 3-1340	3465
46	GEORGIA INST OF TECH	J T WANG	LARC	S N ATLURI	NAG 1-1319	3594
46	GEORGIA INST OF TECH	R L THOMPSON	LERC	G P NEITZEL	NAG 3-1454	3620
46	GEORGIA INST OF TECH	J P SKARDA	LERC	M K SMITH	NAG 3-1455	3621
46	GEORGIA INST OF TECH	J M LUCERO	LERC	O G MCGEE	NAG 3-1571	3623
46	GEORGIA INST OF TECH	M NEIN	MSFC	J C HANDLEY	NAG 8-1137	3639
46	GEORGIA INST OF TECH	G C FRALICK	LERC	L J FORNEY	NCC 3-302	3674
46	GEORGIA INST OF TECH	D A HOLLAND	HQ	G P NEITZEL	NGT 00-051-088	3683
46	GEORGIA INST OF TECH	J T LYNCH	HQ	KEMPER	NGT 00-051-102	3685
46	GEORGIA INST OF TECH	F T LYNCH	HQ	K A CUNEFARE	NGT 00-051-115	3687
46	GEORGIA INST OF TECH	F MONTEGANI	LERC	D L MCDOWELL	NGT 00-051-178	3689
46	GEORGIA INST OF TECH	G LESANE	HQ	G P NEITZEL	NGT 00-051-266	3692
46	GEORGIA INST OF TECH	G A LESANE	HQ	M K SMITH	NGT 00-051-346	3693
46	GEORGIA INST OF TECH	D K RUSSELL	HQ	W J WEPFER	NGT 00-070-254	3694
46	GEORGIA INST OF TECH	D K RUSSELL	HQ	J LASKER	NGT 00-070-408	3699
46	GEORGIA INST OF TECH	R CAIMI	KSC	H LIPKIN	NGT10-52602	3710
46	UNIV OF HAWAII-MANOA	A TESSLER	LARC	H R RIGGS	NAG 1-1487	3755
46	NORTHWESTERN UNIV	H D ROSS	LERC	M MATALON	NAG 3-1604	3890
46	NORTHWESTERN UNIV	S GOLDSTEIN	JSC	J E COLGATE	NGT 00-051-233	3924
46	NORTHWESTERN UNIV	G A LESANE	HQ	S C BANKOFF	NGT 00-051-349	3926
46	UNIV ILLINOIS-CHICGO	A W BURNER JR.	LARC	S S CHA	NAG 1-1594	4030
46	UNIV ILLINOIS-CHICGO	D L BULZAN	LERC	S K AGGARWAL	NAG 3-796	4032
46	UNIV ILLINOIS-CHICGO	R F HANDSCHUH	LERC	F L LITVIN	NAG 3-1469	4034
46	UNIV ILLINOIS-CHICGO	R F HANDSCHUH	LERC	F L LITVIN	NAG 3-1607	4035
46	UNIV ILLINOIS-CHICGO	H D ROSS	LERC	M Y CHOI	NAG 3-1631	4036
46	UNIV ILLINOIS-CHICGO	D P TOWNSEND	LERC	F L LITVIN	NAG 3-1753	4038
46	UNIV ILLINOIS-CHICGO	N G ROBERTSON	JSC	K M HURLBERT	NAG 9-764	4040
46	UNIV ILLINOIS-CHICGO	L SHAW	LERC	C MEGARIDIS	NGT 3-52300	4042
46	UNIV ILLINOIS-URBANA	K O ZAMAN	LERC	M B BRAGG	NAG 3-1374	4066
46	UNIV ILLINOIS-URBANA	M J VALCO	LERC	R P LUCHT	NAG 3-1552	4068
46	UNIV ILLINOIS-URBANA	G A LESANE	HQ	A J PEARLSTEIN	NGT 00-051-360	4115
46	UNIV ILLINOIS-URBANA	G LESANE	HQ	A J PEARLSTEIN	NGT 00-051-392	4117
46	UNIV ILLINOIS-URBANA	P HUNTER	HQ	S P VANKA	NGT 00-070-292	4119
46	UNIV ILLINOIS-URBANA	D K RUSSELL	HQ	R B HABER	NGT 00-070-374	4120

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46	UNIV ILLINOIS-URBANA	L SHAW	LERC	M B BRAGG	NGT 3-52308	4123
46	PURDUE UNIVERSITY	J T WANG	LARC	C T SUN	NAG 1-1323	4160
46	PURDUE UNIVERSITY	F C OWENS	HQ	J S BOLTON	NGT 00-050-711	4210
46	PURDUE UNIVERSITY	F C OWENS	HQ	B HILLBERRY	NGT 00-050-717	4211
46	PURDUE UNIVERSITY	F MONTEGANI	LERC	S FLEETER	NGT 00-070-279	4220
46	PURDUE UNIVERSITY	D K RUSSELL	HQ	J E BRAUN	NGT 00-070-378	4222
46	IOWA STATE UNIV	D P MILLER	LERC	J H OLIVER	NAG 3-1318	4260
46	IOWA STATE UNIV	S A THORP	LERC	J H OLIVER	NAG 3-1481	4262
46	IOWA STATE UNIV	D P MILLER	LERC	J H OLIVER	NAG 3-1786	4264
46	IOWA STATE UNIV	F C OWENS	HQ	R H FLETCHER	NGT 00-050-633	4283
46	IOWA STATE UNIV	F SIX	MSFC	A FLATAU	NGT 00-050-882	4285
46	IOWA STATE UNIV	F MONTEGANI	LERC	R H PLETCHER	NGT 00-050-949	4286
46	IOWA STATE UNIV	F SIX	MSFC	J E BERNARD	NGT 00-051-205	4290
46	IOWA STATE UNIV	L EVANS	LARC	A FLATAU	NGT 00-051-254	4291
46	UNIV OF IOWA	D STOCKER	LERC	L D CHEN	NAG 3-1592	4296
46	UNIV OF IOWA	E PRIOR	LARC	J S ARORA	NGT 00-050-976	4343
46	KANSAS STATE UNIV	J C NEWMAN	LARC	D V SWENSON	NAG 1-1503	4351
46	UNIV OF KANSAS	R E GAUGLER	LERC	S FAROKHI	NAG 3-1194	4362
46	WICHITA STATE UNIV	D L DIETRICH	LERC	D N KOERT	NAG 3-1694	4393
46	UNIV OF KENTUCKY	K W BAKES	LERC	L L CHOW	NAG 3-1251	4405
46	UNIV OF KENTUCKY	K W BAKER	LERC	L C CHOW	NAG 3-1588	4406
46	MCNEESE STATE UNIV.	C M GRODSINSKY	LERC	R D HAMPTON	NCC 3-365	4460
46	TULANE UNIVERSITY	F C OWENS	HQ	E E MICHAELIDES	NGT 00-050-695	4486
46	UNIV OF NEW ORLEANS	A JOYCE	SSC	E P RUSSO	NGT 00-051-317	4492
46	UNIV MARYLAND-COL PK	J M HOUSNER	LARC	S W LEE	NAG 1-1627	4661
46	UNIV MARYLAND-COL PK	R F BEACH	LERC	J A KIRK	NAG 3-1763	4679
46	UNIV MARYLAND-COL PK	J M VRANISH	GSFC	L W TSAI	NAG 5-2004	4700
46	UNIV MARYLAND-COL PK	G SOFFEN	GSFC	K E HEROLD	NGT 00-050-926	4858
46	U OF MD-BALT. COUNTY	G A SOFFEN	GSFC	C WEIDEMANN	NAG 5-2880	4880
46	BOSTON UNIVERSITY	F SIX	MSFC	T G BIFANO	NGT 00-050-878	4939
46	HARVARD UNIVERSITY	F CHIARAMONTE	LERC	G MCKINLEY	NAG 3-1385	4960
46	MASS INST OF TECH	T W ROBERTS	LARC	A T PATERA	NAG 1-1613	5047
46	MASS INST OF TECH	H A ALDRIDGE	LARC	S DUBROWSKY	NAG 1-1637	5048
46	MASS INST OF TECH	M M BRIGHT	LERC	J D PADUANO	NAG 3-1457	5073
46	MASS INST OF TECH	H ROSS	LERC	S HOCHGREB	NAG 3-1640	5079
46	MASS INST OF TECH	L S N	LERC	I A WALTZ	NAG 3-1664	5080
46	MASS INST OF TECH	L LI	JSC	J K SALISBURY	NAG 9-678	5145
46	MASS INST OF TECH	A B DOUGHERTY	HQ	W SEERING	NASW 4870	5228
46	MASS INST OF TECH	V BITTINGER	HQ	E F CRAWLEY	NGT 00-010-032	5243
46	TUFTS UNIVERSITY	F MONTEGANI	LERC	A SAIGAL	NGT 00-050-943	5278
46	UNIV OF MASS-AMHERST	D G LEWICKI	LERC	K DANAI	NAG 3-1458	5287
46	UNIV OF MASS-AMHERST	D LEVINE	GSFC	C SWIFT	NAS 5-31757	5309
46	WORCESTER POLY INST	D M STOAKLEY	LARC	C A BROWN	NAG 1-1476	5328
46	WORCESTER POLY INST	J A TANNER	LARC	C A BROWN	NAG 1-1606	5329
46	WORCESTER POLY INST	E PRIOR	LARC	C A BROWN	NGT 00-051-107	5335
46	MICHIGAN STATE UNIV	A TESSLER	LARC	R C AVERILL	NAG 1-1591	5343
46	MICHIGAN STATE UNIV	K Q ZAMAN	LERC	J F FOSS	NAG 3-1459	5346
46	MICHIGAN STATE UNIV	H D ROSS	LERC	I S WICHMAN	NAG 3-1626	5347
46	UNIV MICH-ANN ARBOR	W E HOWELL	LARC	R D ERVIN	NAG 1-1410	5380
46	UNIV MICH-ANN ARBOR	J A PLATT	LERC	H MERTE	NAG 3-1310	5393
46	UNIV MICH-ANN ARBOR	D A JACQMIN	LERC	G TRYGGVASON	NAG 3-1317	5394
46	UNIV MICH-ANN ARBOR	F P CHIARAMONTE	LERC	H MERTE	NAG 3-1684	5399
46	UNIV MICH-ANN ARBOR	F P CHIARAMONTE	LERC	H MERTE	NAS 3-25812	5473
46	UNIV MICH-ANN ARBOR	J K ALEXANDER	HQ	H MERTE	NGT 00-050-928	5499
46	UNIV MICH-ANN ARBOR	D A HOLLAND	HQ	G TRYGGVASON	NGT 00-051-070	5503
46	WAYNE STATE UNIV	P S GREENBERG	LERC	J C KU	NAG 3-1265	5523
46	WAYNE STATE UNIV	P S GREENBERG	LERC	J KU	NAG 3-1729	5526
46	WESTERN MICHIGAN U	G C FRALICK	LERC	C S CHO	NAG 3-1669	5532
46	U MINN-MNPLS-ST PAUL	F F SIMON	LERC	T W SIMON	NAG 3-1249	5547
46	U MINN-MNPLS-ST PAUL	C J SARMIENTO	LERC	J V HEBERLEIN	NAG 3-1332	5548

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46	U MINN-MNPLS-ST PAUL	F F SIMON	LERC	T W SIMON	NAG 3-1732	5551
46	U MINN-MNPLS-ST PAUL	F C OWENS	HQ	E P FENDER	NGT 00-050-830	5594
46	JACKSON STATE UNIV	M D RHODES	LARC	W V BREWER	NAG 1-1125	5604
46	MISSISSIPPI STATE U	D GLASCO	HQ	W G STEELE	NGT 00-050-950	5634
46	MISSISSIPPI STATE U	D K RUSSELL	HQ	D MARCUM	NGT 00-070-367	5635
46	UNIV MISS-UNIVERSITY	M BETHEA	LERC	S SINHA	NAG 3-1642	5643
46	UNIV MO-KANSAS CITY	L SHAW	LERC	G D GUTE	NGT 3-52303	5689
46	WASHINGTON UNIVERSTY	J J MCMAHON	JSC	B SZABO	NAG 9-622	5699
46	WASHINGTON UNIVERSTY	D K RUSSELL	HQ	D PETERS	NGT 00-090-250	5737
46	PRINCETON UNIVERSITY	D P STOCKER	LERC	C K LAW	NAG 3-1182	5917
46	PRINCETON UNIVERSITY	K J WEILAND	LERC	P D RONNEY	NAG 3-1242	5919
46	RUTGERS ST U-PISCTWY	R L THOMPSON	LERC	A ZEBIB	NAG 3-1453	5988
46	NEW MEX ST U-LAS CR	H ASKHENAS	JPL	R D COLBAUGH	NGT 00-070-288	6067
46	CITY U OF NY CTY COL	F M SULZMAN	HQ	S COWIN	NAGW 3860	6104
46	CLARKSON UNIVERSITY	F C OWENS	HQ	M GLAUSER	NGT 00-050-839	6128
46	CLARKSON UNIVERSITY	B SWINFORD	MSFC	G AHMADI	NGT 00-051-130	6129
46	CLARKSON UNIVERSITY	R WHITE	HQ	S P LIN	NGT 00-051-142	6130
46	CLARKSON UNIVERSITY	G A LESANE	HQ	F M CARLSON	NGT 00-051-354	6133
46	CLARKSON UNIVERSITY	G A LESANE	HQ	F M CARLSON	NGT 00-051-362	6134
46	CLARKSON UNIVERSITY	E J COX	DFRC	M GLAUSER	NGT 4-72400	6136
46	CORNELL UNIVERSITY	J C NEWMAN	LARC	A R INGRAFFEA	NAG 1-1184	6222
46	CORNELL UNIVERSITY	J C NEWMAN	LARC	A R INGRAFFEA	NAG 1-1311	6223
46	CORNELL UNIVERSITY	J K ALEXANDER	HQ	C T AVEDISIAN	NGT 00-050-912	6313
46	RENSSELAER POLY-NY	J T WANG	LERC	J FISH	NAG 1-1356	6365
46	RENSSELAER POLY-NY	J A PLATT	LERC	P C WAYNER	NAG 3-1399	6371
46	ROCHESTER INST TECH	D K RUSSELL	HQ	D TUTT	NGT 00-090-280	6411
46	STATE U NY-BINGHAMTN	D E BREWE	LERC	D C SUN	NAG 3-1316	6431
46	STATE UNIV NY-BUFFAL	J P DRUMMOND	LARC	P GIBI	NAG 1-1122	6436
46	STATE UNIV NY-BUFFAL	B S SINGH	LERC	J TSAMOPOULOS	NAG 3-1620	6443
46	STATE UNIV NY-BUFFAL	D K RUSSELL	HQ	D J MOOK	NGT 00-070-333	6451
46	SYRACUSE UNIVERSITY	E J PRIOR	LARC	E F SPINA	NGT 00-051-171	6512
46	DUKE UNIVERSITY	E PRIOR	LARC	L N VIRGIN	NGT 00-050-989	6559
46	DUKE UNIVERSITY	E PRIOR	LARC	D B BLISS	NGT 00-051-105	6560
46	DUKE UNIVERSITY	M MOORE	ARC	D B BLISS	NGT 00-051-310	6561
46	NO CAR A&T STATE U	J C NEWMAN JR.	LARC	K N SHIVAKUMAR	NAG 1-1754	6581
46	NO CAR A&T STATE U	R D VANNUCCI	LERC	V S AVVA	NAG 3-1452	6584
46	UNIV N CAR-CHARLOTTE	M S JASTER	GSFC	P H DEHOFF	NAG 5-2038	6671
46	CASE WESTERN RESERVE	C H LIEBERT	LERC	A DYBBS	NAG 3-686	6695
46	CASE WESTERN RESERVE	H D ROSS	LERC	J S TIEN	NAG 3-1212	6707
46	CASE WESTERN RESERVE	S V PEPPER	LERC	J M PRAHL	NCC 3-30	6728
46	CASE WESTERN RESERVE	R W VERNON	LERC	Y KAMOTANI	NCC 3-140	6734
46	CASE WESTERN RESERVE	H D ROSS	LERC	J S T' IEN	NCC 3-206	6738
46	CASE WESTERN RESERVE	C LAWRENCE	LERC	W NEWMAN	NCC 3-278	6748
46	CASE WESTERN RESERVE	B M STEINETZ	LERC	J PRAHL	NCC 3-280	6749
46	CASE WESTERN RESERVE	J I TELESMA	LERC	R L MULLEN	NCC 3-331	6758
46	CASE WESTERN RESERVE	H D ROSS	LERC	J S T' IEN	NCC 3-337	6759
46	CASE WESTERN RESERVE	H D ROSS	LERC	J S TIEN	NCC 3-350	6761
46	CASE WESTERN RESERVE	W R JONES	LERC	J M PRAHL	NCC 3-409	6769
46	CASE WESTERN RESERVE	F C OWENS	HQ	R D QUINN	NGT 00-050-588	6772
46	CASE WESTERN RESERVE	F C OWENS	HQ	J S T' IEN	NGT 00-050-862	6773
46	CASE WESTERN RESERVE	F MONTEGANI	LERC	F E MCCAUGHAN	NGT 00-050-948	6775
46	CASE WESTERN RESERVE	D A HOLLAND	HQ	J S TIEN	NGT 00-051-087	6777
46	CASE WESTERN RESERVE	G LESANE	HQ	F E MCCAUGHAN	NGT 00-051-143	6778
46	CASE WESTERN RESERVE	F MONTEGANI	LERC	V KAMOTANI	NGT 00-051-168	6779
46	CASE WESTERN RESERVE	B SWINFORD	MSFC	R D QUINN	NGT 00-051-194	6780
46	CASE WESTERN RESERVE	F MONTEGANI	LERC	I GREBER	NGT 00-051-236	6781
46	CLEVELAND STATE UNIV	C M TOLBERT	LERC	M IBRAHIMI	NAG 3-1756	6813
46	CLEVELAND STATE UNIV	W R JONES JR.	LERC	D J ANTHAN	NCC 3-336	6845
46	CLEVELAND STATE UNIV	N N NEMETH	LERC	S F DUFFY	NCC 3-415	6854
46	CLEVELAND STATE UNIV	J M MULLINS	LERC	D L KRAMEVICH	NCC 3-433	6856

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46	LORAIN CNTY COM COL	T GLASGOW	LERC	D PILLAINAYAGAM	NAG 3-1788	6884
46	LORAIN CNTY COM COL	T K GLASGOW	LERC	J TOMSIC	NCC 3-226	6886
46	OHIO STATE UNIV	K Q ZAMAN	LERC	M SAMIMY	NAG 3-764	6894
46	OHIO STATE UNIV	K O ZAMAN	LERC	M SAMIMY	NAG 3-1724	6914
46	OHIO STATE UNIV	T T MOCKLER	LERC	R N CHRISTENSEN	NCC 3-434	6958
46	OHIO STATE UNIV	F MONTEGANI	LERC	M SAMIMY	NGT 00-050-945	6961
46	OHIO STATE UNIV	F MONTEGANI	LERC	K ISHII	NGT 00-051-193	6963
46	OHIO STATE UNIV	F MONTEGANI	LERC	R SINGH	NGT 00-051-237	6964
46	OHIO STATE UNIV	D K RUSSELL	HQ	S KORPELA	NGT 00-070-349	6967
46	OHIO UNIVERSITY	T H FOX	MSFC	R D IRWIN	NAG 8-1041	6972
46	UNIV OF AKRON	G BOBULA	LERC	M J BRAUN	NAG 3-969	6980
46	UNIV OF AKRON	H H COE	LERC	M SAVAGE	NAG 3-1047	6981
46	UNIV OF AKRON	A D LIANG	LERC	M J BRAUN	NAG 3-1361	6987
46	UNIV OF AKRON	J F WALKER	LERC	M J BRAUN	NAG 3-1366	6988
46	UNIV OF AKRON	J J ZAKRAJSEK	LERC	F K CHOY	NAG 3-1376	6989
46	UNIV OF AKRON	B B CHOI	LERC	Y J LIN	NAG 3-1544	6994
46	UNIV OF AKRON	J F WALKER	LERC	M J BRAUN	NAG 3-1547	6995
46	UNIV OF CINCINNATI	K W BAKER	LERC	F M GERNER	NAG 3-1392	7025
46	UNIV OF CINCINNATI	K W BAKER	LERC	M J KAZMIERCZAK	NAG 3-1706	7031
46	UNIV OF CINCINNATI	L C FREUDINGER	ARC	R J ALLEMANG	NCA 2-734	7042
46	UNIV OF DAYTON	R G FORMAN	JSC	J P GALLAGHER	NAG 9-600	7069
46	UNIV OF DAYTON	D A HOLLAND	HQ	K P HALLINAN	NGT 00-051-089	7071
46	UNIV OF DAYTON	F SIX	MSFC	T J KELLY	NGT 00-051-207	7072
46	UNIV OF TOLEDO	K Q ZAMAN	LERC	K J DEWITT	NAG 3-1338	7085
46	UNIV OF TOLEDO	J F WALKER	LERC	T G KEITH	NAG 3-1370	7086
46	UNIV OF TOLEDO	I WEINBERG	LERC	T G KEITH	NAG 3-1466	7089
46	UNIV OF TOLEDO	K Q ZUMAN	LERC	K DE WITT	NAG 3-1550	7091
46	UNIV OF TOLEDO	R L FUSARO	LERC	T G KEITH	NCC 3-279	7110
46	UNIV OF TOLEDO	F F SIMON	LERC	K J DEWITT	NCC 3-288	7111
46	UNIV OF TOLEDO	D E BREWE	LERC	T G KEITH	NCC 3-291	7112
46	WRIGHT STATE UNIV	D A HOPKINS	LERC	R GRANDHI	NAG 3-1489	7119
46	UNIV OKLAHOMA-NORMAN	H D ROSS	LERC	A K AGRAWAL	NAG 3-1594	7132
46	UNIV OKLAHOMA-NORMAN	E PRIOR	LARC	R A KLINE	NGT 00-051-110	7144
46	CARNEGIE-MELLON UNIV	H L NGUYEN	LERC	J I RAMOS	NAG 3-1009	7218
46	CARNEGIE-MELLON UNIV	K C CIVINSKAS	LERC	T I-P SHIH	NAG 3-1727	7221
46	CARNEGIE-MELLON UNIV	L A KIEFLING	MSFC	J H GRIFFIN	NAS 8-38348	7229
46	DREXEL UNIVERSITY	B M STEINETZ	LERC	F K KO	NAG 3-1059	7252
46	LEHIGH UNIVERSITY	R J SKARDA	LERC	A LIAKOPOULOS	NAG 3-1632	7266
46	LEHIGH UNIVERSITY	D K RUSSELL	HQ	J RICLES	NGT 00-070-346	7270
46	PENN STATE U-UNIV PK	B PALASZEWSKI	LERC	S R TURNS	NAG 3-1044	7297
46	PENN STATE U-UNIV PK	J F WALKER	LERC	M CARPINO	NAG 3-1052	7298
46	PENN STATE U-UNIV PK	K Q ZAMAN	LERC	P J MORRIS	NAG 3-1492	7304
46	PENN STATE U-UNIV PK	C F LORENZO	LERC	A RAY	NAG 3-1673	7308
46	PENN STATE U-UNIV PK	S SCHNEIDER	LERC	C L MERKLE	NAG 3-1735	7310
46	PENN STATE U-UNIV PK	P B HALL	MSFC	L CHANG	NAG 8-1067	7352
46	PENN STATE U-UNIV PK	J LANDERS	HQ	L E CROSS	NASW 4878	7397
46	PENN STATE U-UNIV PK	F C OWENS	HQ	A RAY	NGT 00-050-706	7412
46	PENN STATE U-UNIV PK	F SIX	MSFC	C L MERKLE	NGT 00-050-884	7414
46	PENN STATE U-UNIV PK	M MOORE	ARC	G S SETTLES	NGT 00-050-952	7415
46	PENN STATE U-UNIV PK	F SIX	MSFC	V YANG	NGT 00-051-119	7419
46	PENN STATE U-UNIV PK	F SIX	MSFC	D A SANTAVICCA	NGT 00-051-165	7422
46	PENN STATE U-UNIV PK	F SIX	MSFC	R J SANTORO	NGT 00-051-203	7423
46	PENN STATE U-UNIV PK	F SIX	MSFC	R J SANFORO	NGT 00-070-257	7430
46	PENN STATE U-UNIV PK	B N BHAT	MSFC	A KULKARNI	NGT 8-52800	7434
46	UNIV OF PENNSYLVANIA	F C OWENS	HQ	R P PAUL	NGT 00-050-729	7445
46	UNIV OF PENNSYLVANIA	D K RUSSELL	HQ	V KUMAR	NGT 00-070-359	7447
46	UNIV OF PITTSBURGH	D L NG	LERC	C C HWANG	NAG 3-1439	7452
46	UNIV OF PITTSBURGH	D E BREWE	LERC	M M KHONSARI	NAG 3-1583	7454
46	BROWN UNIVERSITY	D RUSSELL	HQ	G E KARNIADAKIS	NGT 00-070-370	7542
46	TENNESSEE TECH U	F C OWENS	HQ	S HAN	NGT 00-050-731	7666

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46	UNIVRSITY OF MEMPHIS	F B OSWALD	LERC	H H LIN	NAG 3-961	7667
46	UNIVRSITY OF MEMPHIS	T L HARDY	LERC	J I HOCHSTEIN	NAG 3-1530	7668
46	UNIVRSITY OF MEMPHIS	N AVAILABLE	LERC	H H LIN	NAG 3-1686	7669
46	UNIV TENNESSEE-KNOXV	W W HANKINS	LARC	R V DUBEY	NAG 1-1008	7673
46	UNIV TENNESSEE-KNOXV	R H ESKRIDGE	MSFC	S M JENG	NAG 8-132	7682
46	VANDERBILT UNIVERSTY	R A MILLER	LERC	T A CRUSE	NCC 3-187	7729
46	VANDERBILT UNIVERSTY	F SIX	MSFC	E GARCIA	NGT 00-050-883	7732
46	VANDERBILT UNIVERSTY	F MONTEGANI	LERC	R PITZ	NGT 00-050-946	7733
46	VANDERBILT UNIVERSTY	F SIX	MSFC	E GARCIA	NGT 00-051-044	7734
46	VANDERBILT UNIVERSTY	F MONTEGANI	LERC	T A CRUSE	NGT 00-051-053	7735
46	VANDERBILT UNIVERSTY	H WAITES	MSFC	D GARCIA	NGT 8-52809	7739
46	LAMAR UNIVERSITY	M HOY	JSC	W E SIMON	NAG 9-620	7757
46	LAMAR UNIVERSITY	L MONFORD	JSC	V D NGUYEN	NAG 9-639	7758
46	LAMAR UNIVERSITY	M HOY	JSC	W E SIMON	NAG 9-640	7759
46	RICE UNIVERSITY	L QUIOCHO	JSC	D H JOHNSON	NAG 9-461	7801
46	RICE UNIVERSITY	C H LIN	JSC	E V BARRERA	NAG 9-628	7802
46	RICE UNIVERSITY	C H LIN	JSC	B RAMASWAMY	NAG 9-747	7806
46	RICE UNIVERSITY	S GOLDSSTEIN	JSC	B AAZHANG	NGT 00-051-050	7831
46	RICE UNIVERSITY	S GOLDSSTEIN	JSC	A J MEADE JR	NGT 00-051-230	7834
46	RICE UNIVERSITY	D K RUSSELL	HQ	A MEADE	NGT 00-070-353	7838
46	TEXAS A&M UNIVERSITY	J R REEDER	LARC	J D WHITCOMB	NAG 1-1324	7848
46	TEXAS A&M UNIVERSITY	C E HARRIS	LARC	D H ALLEN	NAG 1-1407	7849
46	TEXAS A&M UNIVERSITY	J M HOUSNER	LARC	A KURDILA	NAG 1-1618	7852
46	TEXAS A&M UNIVERSITY	R C HENDRICKS	LERC	D W CHILDS	NAG 3-181	7854
46	TEXAS A&M UNIVERSITY	A F KASCAK	LERC	A B PALAZZOLO	NAG 3-763	7855
46	TEXAS A&M UNIVERSITY	A F KASCAK	LERC	A B PALAZZOLO	NAG 3-891	7856
46	TEXAS A&M UNIVERSITY	J F WALKER	LERC	L SAN ANDRES	NAG 3-1434	7860
46	TEXAS A&M UNIVERSITY	J K LYTIE	LERC	J A CATON	NAG 3-1512	7861
46	TEXAS A&M UNIVERSITY	A F KASCAK	LERC	A B PALAZZOLO	NAG 3-1542	7862
46	TEXAS A&M UNIVERSITY	H G GIBSON	MSFC	D CHILDS	NAG 8-294	7878
46	TEXAS A&M UNIVERSITY	J VARGAS	MSFC	A B PALAZZOLO	NAG 8-989	7881
46	TEXAS A&M UNIVERSITY	L G MUNFORD	JSC	R C REDFIELD	NAG 9-566	7888
46	TEXAS A&M UNIVERSITY	L MONFORD	JSC	L J EVERETT	NAG 9-629	7889
46	TEXAS A&M UNIVERSITY	D A HAMILTON	JSC	S MIDTURI	NAG 9-668	7891
46	TEXAS A&M UNIVERSITY	S GOLDSTEIN	JSC	J S YAGOOBI	NGT 00-051-232	7930
46	TEXAS A&M UNIVERSITY	F MONTEGANI	LERC	M J ANDREWS	NGT 00-051-244	7931
46	TEXAS A&M UNIV SYSTM	B L COMPOLI	LERC	T M SCHOBIRI	NAG 3-1256	7946
46	UNIV HOUSTON	L OTHON	JSC	P NANUA	NAG 9-672	7981
46	UNIV HOUSTON	S GOLDSTEIN	JSC	F HUSSAIN	NGT 00-050-875	7997
46	UNIV HOUSTON	M MOORE	ARC	F HUSSAIN	NGT 00-051-022	7998
46	UNIV TEXAS-AUSTIN	J C NEWMAN JR.	LARC	M E MEAR	NAG 1-1121	8061
46	UNIV TEXAS-AUSTIN	R J NOWAK	LARC	D E WILSON	NAG 1-1364	8063
46	UNIV TEXAS-AUSTIN	J MARMOLEJO	JSC	K BALL	NAG 9-679	8103
46	UNIV TEXAS-AUSTIN	E CHRISTIANSEN	JSC	E P FAHRENTHOLD	NAG 9-744	8104
46	UNIV TEXAS-AUSTIN	C LIN	JSC	K R DILLER	NAG 9-841	8114
46	UNIV TEXAS-AUSTIN	M MOORE	ARC	M G PANDY	NGT 00-051-025	8176
46	UNIV TEXAS-AUSTIN	F C OWENS	HQ	D TESAR	NGT 00-070-222	8183
46	UNIV TEXAS-AUSTIN	S GOLDSTEIN	JSC	R E BARR	NGT 00-070-252	8184
46	UNIV TEXAS-EL PASO	R A ROCHA	JSC	C M FERREGUT	NAG 9-483	8211
46	UNIV TEXAS-EL PASO	D K RUSSELL	HQ	C FERREGUT	NGT 00-070-354	8223
46	UTAH STATE UNIV	M S LAKE	LARC	S L FOLKMAN	NAG 1-19418	8294
46	COLLEGE OF WM & MARY	R S ROGOWSKI	LARC	D KISHONI	NAG 1-1574	8331
46	COLLEGE OF WM & MARY	J A TANNER	LARC	C M ANDERSON	NCC 1-40	8341
46	COLLEGE OF WM & MARY	E PRIOR	LARC	R ORWELL	NGT 00-051-008	8347
46	OLD DOMINION UNIV	J M HOUSNER	LARC	C MEI	NAG 1-1431	8423
46	OLD DOMINION UNIV	A TESSLER	LARC	N KNIGHT	NAG 1-1505	8426
46	OLD DOMINION UNIV	M J WALSH	LARC	T AMER	NAG 1-1603	8436
46	OLD DOMINION UNIV	R K NORWOOD	LARC	M A AMINPOUR	NAG 1-1670	8438
46	OLD DOMINION UNIV	F C OWENS	HQ	G V SELBY	NGT 00-050-716	8464
46	OLD DOMINION UNIV	E PRIOR	LARC	A O DEMUREH	NGT 00-050-980	8465

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46	OLD DOMINION UNIV	E J PRIOR	LARC	R PROBHAKARAN	NGT 00-050-987	8467
46	OLD DOMINION UNIV	J T LYNCH	HQ	S TIWARI	NGT 00-051-164	8470
46	OLD DOMINION UNIV	L EVANS	LARC	A C TAYLOR	NGT 00-051-247	8472
46	OLD DOMINION UNIV	E J PRIOR	LARC	J HUANG	NGT 00-070-300	8476
46	UNIV OF VIRGINIA	J A TANNER	LARC	A K NOOR	NAG 1-1180	8496
46	UNIV OF VIRGINIA	G V BROWN	LERC	P E ALLAIRE	NAG 3-1334	8506
46	UNIV OF VIRGINIA	J A SALZMAN	LERC	H HAJ-HARIRI	NAG 3-1396	8508
46	UNIV OF VIRGINIA	J DECKER	GSFC	E THORNTON	NAG 5-2924	8520
46	UNIV OF VIRGINIA	S M ARNOLD	LERC	M J PINDERA	NAS 3-26571	8547
46	UNIV OF VIRGINIA	F C OWENS	HQ	G LAUFER	NGT 00-050-714	8562
46	UNIV OF VIRGINIA	F MONTEGANI	LERC	C R KNOSPE	NGT 00-050-941	8571
46	UNIV OF VIRGINIA	F MONTEGANI	LERC	H HAJ-HARIRI	NGT 00-051-243	8581
46	UNIV OF VIRGINIA	J T LYNCH	LARC	H HAJ-HARIRI	NGT 00-070-294	8589
46	VIRGINIA POLY INST	C C POE	LARC	K L REIFSNIDER	NAG 1-1282	8612
46	VIRGINIA POLY INST	C J CAMARDA	LARC	E P SCOTT	NAG 1-1507	8625
46	VIRGINIA POLY INST	C E HARRIS	LARC	C W SMITH	NAG 1-1622	8634
46	VIRGINIA POLY INST	C H GERHOLD	LARC	R H THOMAS	NAG 1-1657	8636
46	VIRGINIA POLY INST	K H LYLE	LARC	C R FULLER	NAG 1-1683	8639
46	VIRGINIA POLY INST	G A BOBULA	LERC	W F O'BRIEN	NAG 3-1266	8644
46	VIRGINIA POLY INST	S M GENG	LERC	A A KORNHAUSER	NAG 3-1285	8645
46	VIRGINIA POLY INST	E PRIOR	LARC	J R MAHN	NGT 00-051-108	8666
46	VIRGINIA POLY INST	E PRIOR	LARC	D A DILLARD	NGT 00-051-116	8667
46	VIRGINIA POLY INST	L EVANS	LARC	E P SCOTT	NGT 00-051-249	8670
46	VIRGINIA POLY INST	E J PRIOR	LARC	U VANDSBORGER	NGT 00-070-269	8672
46	VIRGINIA POLY INST	E PRIOR	LARC	L A ROC	NGT 00-070-298	8673
46	VIRGINIA POLY INST	D K RUSSELL	HQ	W NG	NGT 00-070-395	8675
46	VIRGINIA POLY INST	R L YANG	LARC	C R FULLER	NGT 00-070-399	8676
46	VIRGINIA POLY INST	L SHAW	LERC	U VANDSBURGER	NGT 3-52304	8688
46	UNIV OF WASHINGTON	J C NEWMAN JR.	LARC	I M FYFE	NAG 1-1586	8709
46	UNIV OF WASHINGTON	D HOMAN	JSC	B HANNAFORD	NAG 9-784	8753
46	UNIV OF WASHINGTON	G C MISENER	HQ	B HANNAFORD	NASW 4914	8816
46	WASHINGTON ST UNIV	F P CHIARAMONTE	LERC	J N CHUNG	NAG 3-1387	8860
46	WASHINGTON ST UNIV	J ALEXANDER	HQ	J N CHONG	NGT 00-050-904	8872
46	WASHINGTON ST UNIV	J T LYNCH	HQ	C PEZESHKI	NGT 00-051-027	8873
46	WEST VIRGINIA UNIV	F C OWENS	HQ	S N DWIVEDI	NGT 00-050-697	8892
46	WEST VIRGINIA UNIV	F C OWENS	HQ	S N DWIVEDI	NGT 00-050-752	8893
46	WEST VIRGINIA UNIV	E MASSEY	HQ	D W LYONS	NGT 00-051-098	8894
46	WEST VIRGINIA UNIV	F SIX	MSFC	D LYONS	NGT 00-051-200	8895
46	WEST VIRGINIA UNIV	F SIX	MSFC	S N DWIVEDI	NGT 00-070-255	8897
46	WEST VIRGINIA UNIV	F SIX	MSFC	L E BANTA	NGT 8-52808	8898
46	UNIV WISC-MILWAUKEE	J A PLATT	LERC	S H CHAN	NAG 3-1381	9059
46	U PUERTO RICO-MAYAGZ	L G HORTA	LARC	L SUAREZ	NAG 1-1496	9089
46	UNIV OF WALES	J H STARNES	LARC	F W WILLIAMS	NCCW 2	9135
47	ALABAMA A&M UNIV	T GLASGOW	LERC	R B LAL	NAG 3-1429	1001
47	AUBURN UNIV-AUBURN	F SIX	MSFC	B Z JANG	NGT 00-051-043	1043
47	UNIV ALA-BIRMINGHAM	F SIX	MSFC	B ANDREWS	NGT 00-050-877	1093
47	UNIV ALA-BIRMINGHAM	D A HOLLAND	HQ	R ANDREWS	NGT 00-051-080	1096
47	UNIV ALA-HUNTSVILLE	J L JONES	LARC	J GREGORY	NAG 1-1228	1098
47	UNIV ALA-HUNTSVILLE	R P WHITTEN	HQ	G R KARR	NAGW 812	1141
47	UNIV ALA-HUNTSVILLE	M B ROBINSON	MSFC	G WORKMAN	NCC 8-19	1175
47	UNIV ALA-TUSCALOOSA	F E LEDBETTER III	MSFC	A L HIGHSMITH	NCC 8-23	1227
47	UNIV ALA-TUSCALOOSA	P A CURRERERI	MSFC	D M STEFANESCU	NCC 8-57	1229
47	UNIV OF ARIZONA	T K GLASGOW	LERC	C F CHEN	NAG 3-1268	1376
47	UNIV OF ARIZONA	A CHAIT	LERC	D R POIRIER	NAG 3-1446	1379
47	UNIV OF ARIZONA	P H RHODES	MSFC	J C BAYGENTS	NAG 8-948	1421
47	UNIV OF ARIZONA	F C OWENS	HQ	B FABES	NGT 00-050-737	1557
47	CALIF INST OF TECH	P ROGERS	HQ	E STOLPER	NAGW 4026	1690
47	SAN JOSE STATE UNIV	D B LEISER	ARC	G SELVADURAY	NAG 2-848	1821
47	SAN JOSE STATE UNIV	W C LOMAX	ARC	G SELVADURAY	NAG 2-966	1823
47	SAN JOSE STATE UNIV	S R RICCIITIELLO	ARC	R N ANDERSON	NCC 2-3	1835

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47	UNIV CALIF-BERKELEY	T L PANONTIN	ARC	R O RITCHIE	NAG 2-917	2049
47	UNIV CALIF-BERKELEY	D CAGLIOSTRO	ARC	D W FUERSTENAU	NCC 2-5139	2198
47	UNIV CALIF-BERKELEY	D CAGLIOSTRO	ARC	D W FUERSTENAU	NCC 2-5161	2199
47	UNIV CALIF-DAVIS	D CAGLIOSTRO	ARC	Z MUNIR	NCC 2-5090	2301
47	UNIV CALIF-IRVINE	W D BREWER	LARC	E J LAVERNIA	NAG 1-1619	2317
47	UNIV CALIF-L ANGELES	R HOLANDA	LERC	R F BUNSHAH	NAG 3-451	2371
47	UNIV CALIF-L ANGELES	R D NORBE	LERC	A J ARDELL	NAG 3-1325	2372
47	UNIV CALIF-L ANGELES	J GLASGOW	LERC	D DURIAN	NAG 3-1419	2373
47	UNIV CALIF-S BARBARA	D J RASKY	ARC	F MILESTEIN	NAG 2-930	2649
47	UNIV CALIF-S BARBARA	T L PANONTI	ARC	M R SHANABARGER	NCC 2-63	2676
47	UNIV OF SOUTHERN CAL	A CHAIT	LERC	E MEIBURG	NAG 3-1619	2736
47	UNIV OF SOUTHERN CAL	A CHAIT	LERC	T MAXWORTHY	NAG 3-1621	2737
47	COLORADO SCH OF MINE	T K GLASGOW	LERC	D READY	NAG 3-1409	2778
47	COLORADO SCH OF MINE	S GOKOGLU	LERC	J J MOORE	NAG 3-1698	2780
47	COLORADO SCH OF MINE	T K GLASGOW	LERC	J J MOORE	NCC 3-215	2781
47	COLORADO SCH OF MINE	E S NELSON	LERC	J J MOORE	NCC 3-289	2782
47	UNIV COLORADO-BOLDR	J P DOWNEY	MSFC	W B KRANTZ	NAG 8-1062	2946
47	UNIV COLORADO-BOLDR	G E HALL	MSFC	S STURE	NAS 8-38779	3054
47	UNIV COLORADO-BOLDR	F P CHIARAMONTE	LERC	J KOSTER	NCC 3-210	3062
47	UNIV COLORADO-BOLDR	H C DEGROH	LERC	P D WEIDMAN	NCC 3-272	3063
47	UNIV OF CONNECTICUT	J C NEWMAN	LARC	A J MCEVILY	NAG 1-1382	3157
47	UNIV OF CONNECTICUT	J P BARRENGER	LERC	E JORDAN	NAS 3-26619	3161
47	YALE UNIVERSITY	D REISS	MSFC	R E APFEL	NAG 8-947	3185
47	UNIV OF DELAWARE	W C JACKSON	LARC	T CHOU	NAG 1-1383	3205
47	FLORIDA A&M UNIV	D M ROYSTER	LARC	P N KALU	NAG 1-1696	3341
47	FLORIDA ATLANTIC U	A CHAIT	LERC	C T TSAI	NAG 3-1314	3360
47	FLORIDA ATLANTIC U	R V MINER	LERC	S M LIPKA	NAG 3-1435	3362
47	FLORIDA ATLANTIC U	A CHAIT	LERC	C TSAI	NAG 3-1738	3363
47	FLORIDA STATE UNIV	T K GLASGOW	LERC	J VINALS	NAG 3-1284	3387
47	FLORIDA STATE UNIV	L JETER	MSFC	M BIRD	NAS 8-40632	3414
47	UNIV OF CENTRAL FLA	J C BARNES	LARC	B CHAI	NAG 1-1502	3422
47	UNIV OF CENTRAL FLA	R LEE	KSC	D V DESAI	NAG10-121	3431
47	UNIV OF FLORIDA	W C JACKSON	LARC	B V SANKAR	NAG 1-1226	3454
47	UNIV OF FLORIDA	G J SANTORO	LERC	G J ABBACHIAN	NAG 3-1096	3462
47	UNIV OF FLORIDA	L R PURVES	GSFC	T J ANDERSON	NAG 5-2614	3467
47	UNIV OF FLORIDA	M F VOLZ	MSFC	M J KAUFMAN	NAG 8-946	3472
47	UNIV OF FLORIDA	J R WATKINS	MSFC	R ABBASCHIAN	NAS 8-40592	3499
47	UNIV OF FLORIDA	D A WATRING	MSFC	R NARAYANAN	NCC 8-20	3506
47	UNIV OF FLORIDA	D K RUSSELL	HQ	M J KAUFMAN	NGT 00-070-282	3519
47	CLARK ATLANTA UNIV	R J HARWELL	MSFC	E A MINTZ	NAG 8-1136	3584
47	GEORGIA INST OF TECH	R S PIASCIK	LARC	A SAXENA	NAG 1-1582	3602
47	GEORGIA INST OF TECH	A VARY	LERC	R A GERHARDT	NAG 3-1559	3622
47	GEORGIA INST OF TECH	M D BETHEA	LERC	A M GOKHALE	NAG 3-1651	3625
47	GEORGIA INST OF TECH	E G WINTUCKY	LERC	D N HILL	NAG 3-1665	3626
47	GEORGIA INST OF TECH	M J PATTERSON	LERC	W L OHLINGER	NAG 3-1744	3628
47	GEORGIA INST OF TECH	M GREGG	MSFC	W O WINES	NAG 8-243	3637
47	GEORGIA INST OF TECH	M J PATTERSON	LERC	D L OHLINGER	NAS 3-27561	3665
47	GEORGIA INST OF TECH	F C OWENS	HQ	J D MUZZY	NGT 00-050-705	3678
47	GEORGIA INST OF TECH	E PRIOR	LARC	A SAXENA	NGT 00-051-112	3686
47	GEORGIA INST OF TECH	F MONTEGANI	LERC	D N HILL	NGT 00-051-192	3690
47	UNIV OF IDAHO	T A WALLACE	LARC	F H FROES	NAG 1-1693	3861
47	NORTHWESTERN UNIV	A CHAIT	LERC	S H DAVIS	NAG 3-747	3887
47	NORTHWESTERN UNIV	A CHAIT	LERC	M G WORSTER	NAG 3-1405	3888
47	NORTHWESTERN UNIV	T K GLASGOW	LERC	P W VORHEES	NAG 3-1417	3889
47	NORTHWESTERN UNIV	A CHART	LERC	S H DAVIS	NAG 3-1737	3894
47	NORTHWESTERN UNIV	J P DOWNEY	MSFC	J M TORKELSON	NAG 8-1061	3907
47	NORTHWESTERN UNIV	R R BOWMAN	LERC	D E BOSS	NAS 3-26810	3918
47	UNIV OF CHICAGO	J L JONES	LARC	A T TUZZOLINO	NAS 1-20251	4010
47	UNIV ILLINOIS-CHICGO	N N NEMETH	LERC	A CHUDNOVSKY	NAG 3-1034	4033
47	UNIV ILLINOIS-URBANA	H G NELSON	ARC	I M ROBERTSON	NAG 2-852	4054

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47	UNIV ILLINOIS-URBANA	A CHAIT	LERC	J A DANTZIG	NAG 3-1637	4069
47	UNIV ILLINOIS-URBANA	A VARY	LERC	H L REIS	NAG 3-1687	4071
47	PURDUE UNIVERSITY	J R REAGAN	LERC	H MINDLIN	NAG 3-1629	4178
47	PURDUE UNIVERSITY	D ELLIS	LERC	R TAYLOR	NAS 3-26940	4202
47	UNIV OF NOTRE DAME	K A WHITE	LERC	A VARMA	NAG 3-1644	4233
47	UNIV OF NOTRE DAME	E C ETHRIDGE	MSFC	P J MCGINN	NAG 8-1064	4236
47	UNIV OF IOWA	H C DEGROH	LERC	C BECKERMAN	NCC 3-290	4339
47	KANSAS STATE UNIV	H G MAAHS	LARC	P M SHERWOOD	NCC 1-161	4359
47	UNIV OF KANSAS	A S MCGEE	HQ	D R DOWNING	NAGW 4515	4375
47	WICHITA STATE UNIV	H B DEXTER	LARC	G BRINKMAN	NCC 1-187	4396
47	SO UNIV & A&M COL-BR	G FICHTL	MSFC	R DIWAN	NAG 8-252	4467
47	JOHNS HOPKINS UNIV	S S WELCH	LARC	P R SHUSTER	NAG 1-1595	4524
47	UNIV MARYLAND-COL PK	A D FREED	LERC	H W HASLACH	NAG 3-1321	4674
47	MASS INST OF TECH	D E BOWLES	LARC	H L MCMANUS	NAG 1-1463	5038
47	MASS INST OF TECH	B CARPENTER	HQ	J SZEKELY	NGT 00-051-069	5251
47	MASS INST OF TECH	D A HOLLAND	HQ	P CEBE	NGT 00-051-136	5252
47	NORTHEASTERN UNIV	A VARY	LERC	H N HASEMI	NAG 3-1129	5271
47	WORCESTER POLY INST	F C OWENS	HQ	R D SISSON	NGT 00-050-827	5334
47	MICHIGAN TECH UNIV	A CHAIT	LERC	A HELLAWELL	NAG 3-1462	5361
47	MICHIGAN TECH UNIV	T GLASGOW	LERC	A HELLAWELL	NAG 3-1659	5362
47	UNIV MICH-ANN ARBOR	W D BREWER	LARC	A GHOSH	NAG 1-1317	5378
47	UNIV MICH-ANN ARBOR	R T BHATT	LERC	J W HOLMES	NAS 3-27141	5474
47	UNIV MICH-ANN ARBOR	R ROGERS	LERC	G TRYGGVASON	NCC 3-355	5488
47	UNIV MICH-ANN ARBOR	N P BANSAL	LERC	R M LAINE	NCC 3-381	5489
47	UNIV MICH-ANN ARBOR	F SIX	MSFC	D C MARTIN	NGT 00-051-120	5504
47	UNIV MICH-ANN ARBOR	D G SOCKORES	JSC	A B SCHULTZ	NGT 9-3	5519
47	ST LOUIS UNIVERSITY	C DELLACORTE	LERC	P A BENOY	NCC 3-330	5659
47	UNIV MO-COLUMBIA	W M DUVAL	LERC	S K LOYALKA	NAG 3-1420	5663
47	WASHINGTON UNIVERSTY	L A TEICHMAN	LARC	E ZINNER	NAG 1-1174	5690
47	WASHINGTON UNIVERSTY	H G NELSON	ARC	S M SASTRY	NAG 2-865	5693
47	WASHINGTON UNIVERSTY	E C ETHRIDGE	MSFC	K F KELTON	NCC 8-49	5732
47	PRINCETON UNIVERSITY	T K GLASGOW	LERC	P M CHAIKIN	NAG 3-1158	5916
47	PRINCETON UNIVERSITY	M CASTRO-CEDANO	LERC	I GLASSMAN	NAG 3-1418	5920
47	PRINCETON UNIVERSITY	T K GLASGOW	LERC	P M CHAIKIN	NAG 3-1614	5922
47	NEW MEX ST U-LAS CR	A VARY	LERC	V K CHOO	NAG 3-1328	6038
47	CLARKSON UNIVERSITY	L R PURVES	GSFC	W R WILCOX	NAG 5-1809	6121
47	CLARKSON UNIVERSITY	J P DOWNEY	MSFC	L L REGEL	NAG 8-1063	6124
47	POLYTECHNIC U	E C ETHRIDGE	MSFC	S ARNOLD	NAG 8-1060	6360
47	RENSSELAER POLY-NY	A CHAIT	LERC	J D COLE	NAG 3-1413	6373
47	RENSSELAER POLY-NY	E A WINSA	LERC	M E GLICKSMAN	NAS 3-25368	6388
47	RENSSELAER POLY-NY	F MONTEGANI	LERC	M E GLICKSMAN	NGT 00-051-241	6399
47	STATE UNIV NY-ALBANY	D C GILLIES	MSFC	M DUDLEY	NAG 8-891	6418
47	STATE UNIV NY-BUFFAL	B GROSS	LERC	R C WETHERHOLD	NAG 3-862	6440
47	ST U NY COL-ONEONTA	R G CLINTON	MSFC	K MAHANTA	NAG 8-1121	6495
47	NO CAR A&T STATE U	C C POE JR.	LARC	K N SHIVAKUMAR	NAG 1-1604	6580
47	NO CAR A&T STATE U	R V MINER	LERC	G J FILATOVS	NAG 3-1432	6583
47	NO CAROLINA STATE U	C C POE	LARC	C M PASTORE	NAG 1-1212	6601
47	NO CAROLINA STATE U	L A TEICHMAN	LARC	D P GRIFFIS	NAG 1-1214	6602
47	NO CAROLINA STATE U	G B NORTHAM	LARC	E M AFIFY	NAG 1-1733	6608
47	NO CAROLINA STATE U	J K ALEXANDER	HQ	K J BACHMANN	NAGW 2865	6619
47	NO DAKOTA STATE UNIV	A CHAIT	LERC	D A KURTZE	NAG 3-1603	6677
47	NO DAKOTA STATE UNIV	F SIX	MSFC	P HAMMOND	NAG 8-1007	6678
47	NO DAKOTA STATE UNIV	A S MCGEE	HQ	P BOUDJOUK	NAGW 4629	6679
47	BALDWIN-WALLACE COL	A F RATAJCZAK	LERC	J GROSE	NAG 3-1528	6688
47	CASE WESTERN RESERVE	J A POWELL	LERC	P PIROUZ	NAG 3-758	6696
47	CASE WESTERN RESERVE	B GROSS	LERC	R BALLARINI	NAG 3-856	6699
47	CASE WESTERN RESERVE	A CHAIT	LERC	A J DAHM	NAG 3-1412	6711
47	CASE WESTERN RESERVE	R L THOMPSON	LERC	S OSTRACH	NAG 3-1538	6716
47	CASE WESTERN RESERVE	H R GRAY	LERC	G M MICHAL	NCC 3-94	6730
47	CASE WESTERN RESERVE	S R LEVINE	LERC	W S WILLIAMS	NCC 3-139	6733

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47	CASE WESTERN RESERVE	H R GRAY	LERC	G M MICHAL	NCC 3-144	6736
47	CASE WESTERN RESERVE	T K GLASGOW	LERC	J A MANN	NCC 3-166	6737
47	CASE WESTERN RESERVE	D R HULL	LERC	K P LAGERLOF	NCC 3-236	6739
47	CASE WESTERN RESERVE	J A DICARLO	LERC	K D LAGERLOFF	NCC 3-244	6740
47	CASE WESTERN RESERVE	T K GLASGOW	LERC	J J LEWANDOWSKI	NCC 3-250	6741
47	CASE WESTERN RESERVE	T K GLASGOW	LERC	W S WILLIAMS	NCC 3-254	6743
47	CASE WESTERN RESERVE	T K GLASGOW	LERC	J A MANN	NCC 3-266	6745
47	CASE WESTERN RESERVE	T K GLASGOW	LERC	J A MANN	NCC 3-269	6746
47	CASE WESTERN RESERVE	A CHAIT	LERC	V K PINES	NCC 3-275	6747
47	CASE WESTERN RESERVE	M D BETHEA	LERC	F I MERAT	NCC 3-292	6750
47	CASE WESTERN RESERVE	T K GLASGOW	LERC	D MATTHIESEN	NCC 3-293	6751
47	CASE WESTERN RESERVE	M V NATHAL	LERC	R M AIKEN	NCC 3-295	6753
47	CASE WESTERN RESERVE	K K DE GROH	LERC	J F WALLACE	NCC 3-296	6754
47	CASE WESTERN RESERVE	R T BHATT	LERC	D L FEKE	NCC 3-298	6755
47	CASE WESTERN RESERVE	M BETHEA	LERC	F L MERAT	NCC 3-313	6756
47	CASE WESTERN RESERVE	I L KRAINSLEY	LERC	Y WANG	NCC 3-352	6762
47	CASE WESTERN RESERVE	J A DICARLO	LERC	A SAYIR	NCC 3-372	6764
47	CASE WESTERN RESERVE	R V MINER	LERC	G M MICHAL	NCC 3-384	6767
47	CASE WESTERN RESERVE	S LEVINE	LERC	J CAWLEY	NCC 3-404	6768
47	CASE WESTERN RESERVE	G A LESANE	HQ	D H MATTHIESEN	NGT 00-051-357	6782
47	CASE WESTERN RESERVE	G A LESANE	HQ	D MATTHIESEN	NGT 00-051-361	6783
47	CLEVELAND STATE UNIV	J FERRANTE	LERC	H SCHLOSSER	NAG 3-1313	6801
47	CLEVELAND STATE UNIV	J M SAVINO	LERC	A PINTZ	NCC 3-77	6817
47	CLEVELAND STATE UNIV	J P GYEKENYESI	LERC	J H HEMANN	NCC 3-81	6818
47	CLEVELAND STATE UNIV	H R GRAY	LERC	S N TEWARI	NCC 3-119	6820
47	CLEVELAND STATE UNIV	S R LEVINE	LERC	J H HEMANN	NCC 3-138	6822
47	CLEVELAND STATE UNIV	M D BETHEA	LERC	S N TEWARI	NCC 3-142	6823
47	CLEVELAND STATE UNIV	C E LOWELL	LERC	S N TEWARI	NCC 3-190	6826
47	CLEVELAND STATE UNIV	L A GREENBAUER-SENG	LERC	S N TEWARI	NCC 3-205	6829
47	CLEVELAND STATE UNIV	D R HULL	LERC	S N TEWARI	NCC 3-228	6830
47	CLEVELAND STATE UNIV	T K GLASGOW	LERC	S N TEWARI	NCC 3-242	6831
47	CLEVELAND STATE UNIV	L A GREENBAUER-SENG	LERC	S N TEWARI	NCC 3-285	6833
47	CLEVELAND STATE UNIV	R R BOWMAN	LERC	S N TEWARI	NCC 3-287	6834
47	CLEVELAND STATE UNIV	A CHAIT	LERC	S TEWARI	NCC 3-299	6835
47	CLEVELAND STATE UNIV	G BAAKLINI	LERC	J HEMANN	NCC 3-303	6837
47	CLEVELAND STATE UNIV	G Y BAAKLINI	LERC	J HEMANN	NCC 3-304	6838
47	CLEVELAND STATE UNIV	N NEMETH	LERC	S DUFFY	NCC 3-305	6839
47	CLEVELAND STATE UNIV	N NEMETH	LERC	J HEMANN	NCC 3-306	6840
47	CLEVELAND STATE UNIV	N NEMETH	LERC	S DUFFY	NCC 3-310	6841
47	CLEVELAND STATE UNIV	A VARY	LERC	J HEMANN	NCC 3-316	6842
47	CLEVELAND STATE UNIV	N NEMETH	LERC	J HEMANN	NCC 3-328	6843
47	CLEVELAND STATE UNIV	G Y BAAKLINI	LERC	J H HEMANN	NCC 3-334	6844
47	CLEVELAND STATE UNIV	F HURWITZ	LERC	J HEMANN	NCC 3-367	6848
47	CLEVELAND STATE UNIV	R V MINER	LERC	S N TEWARI	NCC 3-393	6851
47	CLEVELAND STATE UNIV	T K GLASGOW	LERC	S N TEWARI	NCC 3-428	6855
47	KENT STATE UNIV-KENT	N D PILTCH	LERC	C VARGAS-ABURTO	NCC 3-189	6876
47	OHIO STATE UNIV	W D BREWER	LARC	G S DAEHN	NAG 1-1357	6889
47	OHIO STATE UNIV	A CHAIT	LERC	S A KORPELA	NAG 3-1308	6898
47	OHIO STATE UNIV	A CHAIT	LERC	S TANVEER	NAG 3-1415	6899
47	OHIO STATE UNIV	T K GLASGOW	LERC	P K DUTTA	NAG 3-1416	6900
47	OHIO STATE UNIV	T K GLASGOW	LERC	D G STROUD	NAG 3-1437	6901
47	OHIO STATE UNIV	A CHAIT	LERC	P K GUPTA	NAG 3-1602	6909
47	OHIO STATE UNIV	G Y BAAKLINI	LERC	S I ROKHLIN	NAG 3-1716	6912
47	OHIO STATE UNIV	C RUSSELL	MSFC	V SABRAMANIAM	NAS 8-39930	6953
47	UNIV OF AKRON	K J BOWLES	LERC	R K EBY	NAG 3-1289	6985
47	UNIV OF AKRON	G D ROBERTS	LERC	F N KELLEY	NAG 3-1498	6993
47	UNIV OF AKRON	G D ROBERTS	LERC	W K BINIERDA	NAG 3-1553	6997
47	UNIV OF AKRON	C H CHUANG	LERC	F W HARRIS	NAS 3-27318	7000
47	UNIV OF AKRON	G P ROBERTS	LERC	G W YOUNG	NCC 3-104	7001
47	UNIV OF AKRON	G D ROBERTS	LERC	W K BINIENDA	NCC 3-188	7004

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47	UNIV OF AKRON	B N ROSENTHAL	LERC	C BATUR	NCC 3-209	7005
47	UNIV OF AKRON	L A GREENBUER-SENG	LERC	H M CHEUNG	NCC 3-314	7008
47	UNIV OF AKRON	F C OWENS	HQ	R K EBY	NGT 00-070-235	7013
47	UNIV OF CINCINNATI	R V MINER	LERC	V K VASUDEVAN	NAG 3-1596	7030
47	UNIV OF CINCINNATI	F C OWENS	HQ	N GAYARAMAN	NGT 00-050-712	7057
47	UNIV OF CINCINNATI	F MONTEGANI	LERC	R Y LIN	NGT 00-050-982	7058
47	UNIV OF TOLEDO	A VARRY	LERC	K CIOS	NAG 3-1422	7087
47	UNIV OF TOLEDO	A VARY	LERC	K CIOS	NAG 3-1728	7094
47	WRIGHT STATE UNIV	N S JACOBSON	LERC	G M MEHROTRA	NAG 3-1233	7118
47	UNIV OF TULSA	W J BRINDUEY	LERC	E F RYBICKI	NCC 3-338	7148
47	CARNEGIE-MELLON UNIV	F C OWENS	HQ	A W THOMPSON	NGT 00-050-823	7234
47	DREXEL UNIVERSITY	D J ROTH	LERC	M A EL-SHERIF	NAG 3-1347	7253
47	PENN STATE U-UNIV PK	C L LACH	LARC	R P MARTUKANITZ	NAG 1-1554	7286
47	PENN STATE U-UNIV PK	R L DEWITT	LERC	R M GERMAN	NAG 3-1287	7301
47	PENN STATE U-UNIV PK	A VARY	LERC	J L ROSE	NAG 3-1365	7302
47	PENN STATE U-UNIV PK	B F QUIGLEY	HQ	R E TRESSLER	NAGW 1381	7357
47	PENN STATE U-UNIV PK	F SIX	MSFC	P R HOWELL	NGT 00-051-204	7424
47	CLEMSON UNIV-CLEMSON	S A WISE	LARC	G H HAERTLING	NAG 1-1108	7567
47	CLEMSON UNIV-CLEMSON	W E MILLER	LARC	G H HAERTLING	NAG 1-1301	7569
47	CLEMSON UNIV-CLEMSON	G L FARLEY	LARC	J M KENNEDY	NCC 1-127	7585
47	U. OF S.C.- COLUMBIA	C E HARRIS	LARC	M SUTTON	NAG 1-1489	7606
47	U. OF S.C.- COLUMBIA	R S PIASCIK	LARC	M SUTTON	NAG 1-1664	7607
47	FISK UNIVERSITY	J DOWNEY	MSFC	D O HENDERSON	NAG 8-1066	7641
47	TENNESSEE STATE UNIV	F E ROBERTS	MSFC	D K CHAUDHUN	NAG 8-1018	7658
47	UNIV TENNESSEE-KNOXV	W S JOHNSON	LARC	M S MADHUKAR	NAG 1-1566	7675
47	UNIV TENNESSEE-KNOXV	R D NOEBE	LERC	B F OLIVER	NAG 3-1697	7680
47	UNIV TENNESSEE-KNOXV	J P DOWNEY	MSFC	S D ALEXANDRATES	NAG 8-1065	7683
47	VANDERBILT UNIVERSTY	J L JONES	LARC	D L KINSER	NAG 1-1464	7706
47	VANDERBILT UNIVERSTY	M B ROBINSON	MSFC	R J BAYVZICK	NAG 8-1087	7713
47	VANDERBILT UNIVERSTY	G LESANE	HQ	R J BAYUZICK	NGT 00-051-267	7736
47	VANDERBILT UNIVERSTY	G A LESANE	HQ	R J BAYUZICK	NGT 00-051-356	7737
47	LAMAR UNIVERSITY	G ECORD	JSC	V NGUYEN	NAG 9-698	7763
47	TEXAS A&M UNIVERSITY	C LAWRENCE	LERC	A B PALLAZZOLO	NAG 3-1556	7863
47	TEXAS A&M UNIVERSITY	I S SMITH	GSFC	T W STRGANAC	NAG 5-673	7867
47	TEXAS A&M UNIVERSITY	W L CASTNER	JSC	J HERRERA	NAG 9-395	7886
47	TEXAS SOUTHERN UNIV	D HENNINGER	JSC	R WILSON	NAG 9-423	7952
47	UNIV TEXAS-AUSTIN	E CHRISTIANSEN	JSC	C YEW	NAG 9-661	8098
47	UNIV TEXAS-EL PASO	A C NUNES	MSFC	J C MCCLURE	NAG 8-1056	8208
47	UNIV TEXAS-EL PASO	S L KOONTZ	JSC	L E MURR	NAG 9-481	8210
47	UNIV TEXAS-EL PASO	A C NUNES	MSFC	J C MCCLURE	NAG 8-39602	8216
47	UNIV TEXAS-EL PASO	F C OWENS	HQ	J MCCLURE	NGT 00-070-245	8219
47	UNIV TEXAS-EL PASO	F SIX	MSFC	J C MCCLURE	NGT 00-070-297	8220
47	UNIV TEXAS-EL PASO	D K RUSSELL	HQ	L E MURR	NGT 00-070-343	8221
47	UNIV TEXAS-EL PASO	D K RUSSELL	HQ	R ARROWOOD	NGT 00-070-406	8224
47	UNIV OF UTAH	J R REEDER	LARC	S R SWANSON	NAG 1-1379	8250
47	CHRISTPHR NEWPORT U	F ALLAMBY	LARC	R SELIM	NAG 1-1242	8316
47	GEORGE MASON UNIV	L R PURVES	GSFC	E D COLE	NAG 5-2320	8360
47	LONGWOOD COLLEGE	A L FRIPP	LARC	P G BARBER	NAG 1-627	8394
47	NORFOLK STATE UNIV	M A MEADOR	LERC	L MATTIX	NAG 3-1371	8401
47	OLD DOMINION UNIV	R A OUTLAW	LERC	R L ASH	NAG 1-1140	8415
47	UNIV OF VIRGINIA	D L DICUS	LARC	R P GANGLOFF	NAG 1-745	8490
47	UNIV OF VIRGINIA	I O CLARK	LARC	W A JESSER	NAG 1-1680	8501
47	UNIV OF VIRGINIA	J A HINKLEY	LARC	B L FARMER	NAG 1-1723	8504
47	UNIV OF VIRGINIA	R V MINER	LERC	M J PINDERA	NAG 3-1319	8505
47	UNIV OF VIRGINIA	S L VENNERI	HQ	H N WADLEY	NAGW 1692	8527
47	UNIV OF VIRGINIA	D W PETRASEK	LERC	D M ELZEY	NAG 3-27418	8548
47	UNIV OF VIRGINIA	G LESANE	HQ	P W VOORHEES	NGT 00-051-390	8583
47	UNIV OF VIRGINIA	D K RUSSELL	HQ	W A JESSER	NGT 00-070-404	8593
47	UNIV OF VIRGINIA	T T BALES	LARC	L P TROEGER	NGT 1-52117	8600
47	VIRGINIA POLY INST	D R TENNEY	LARC	F W STEPHENSON	NAG 1-343	8604

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47	VIRGINIA POLY INST	S A WISE	LARC	E P SCOTT	NAG 1-1500	8624
47	VIRGINIA POLY INST	W S JOHNSON	LARC	K L REIFSNIDER	NAG 1-1608	8632
47	VIRGINIA POLY INST	G C FRALICK	LERC	S B DESU	NAG 3-1562	8649
47	VIRGINIA POLY INST	H A WILL	LERC	T E DILLER	NAG 3-1643	8650
47	VIRGINIA POLY INST	A VARY	LERC	E G HENNEKE	NAS 3-26827	8656
47	WASHINGTON ST UNIV	S G BAILEY	LERC	L OLSEN	NAG 3-1742	8862
47	WEST VIRGINIA UNIV	C C POE	LARC	T L NORMAN	NAG 1-1381	8880
47	UNIV WISC-MADISON	L E MOORE	MSFC	D S STONE	NAG 8-1023	8976
47	UNIV WISC-MADISON	D A HOLLAND	HQ	R F COOPER	NGT 00-051-067	9048
47	UNIV WISC-MADISON	D A HOLLAND	HQ	J PEREPEZKO	NGT 00-051-133	9050
47	UNIV WISC-MADISON	D HOLLAND	HQ	J H PEREPEZKO	NGT 00-051-190	9052
47	UNIV WISC-MADISON	G LESANE	HQ	J H BOOSKE	NGT 00-051-263	9054
47	UNIV WISC-MADISON	G A LESANE	HQ	D R SMITH	NGT 00-051-364	9055
47	UNIV OF WYOMING	N J JOHNSTON	LARC	D F ADAMS	NAG 1-1294	9068
49	AUBURN UNIV-AUBURN	A J JUHASZ	LERC	S A MERRYMAN	NAG 3-1767	1027
49	AUBURN UNIV-AUBURN	J E HENGEL	MSFC	W A FOSTER	NAG 8-923	1028
49	UNIV ALA-HUNTSVILLE	J CARLISLE	MSFC	J O DIMMOCK	NAG 8-1028	1129
49	UNIV ALA-HUNTSVILLE	J CARLISLE	MSFC	B J SCHROER	NAG 8-1029	1130
49	UNIV ALA-HUNTSVILLE	R E DOTSON	MSFC	G R HOUGH	NCC 8-28	1178
49	UNIV ALA-HUNTSVILLE	D K RUSSELL	HQ	P FARRINGTON	NGT 00-070-368	1193
49	UNIV ALA-HUNTSVILLE	F C OWENS	HQ	L M FREEMAN	NGT 1-2099	1196
49	UNIV ALA-HUNTSVILLE	A S MCGEE	HQ	G R KARR	NGT 1-8021	1197
49	UNIV ALA-TUSCALOOSA	R A WEIR	MSFC	T HASKEW	NAG 8-240	1213
49	UNIV ALASKA-FAIRBANKS	A S MCGEE	HQ	J G HAWKINS	NAGW 4235	1264
49	ARIZONA STATE UNIV	N PELLIS	JSC	B TOWE	NAG 9-815	1303
49	ARIZONA STATE UNIV	A S MCGEE	HQ	V L WELLS	NAGW 4288	1328
49	NORTHERN ARIZONA UNIV	D M COOPER	ARC	L E JOHNSON	NAG 2-6003	1347
49	NORTHERN ARIZONA UNIV	Y B FREEMAN	HQ	C N HOLLAND	NGT 00-090-028	1360
49	UNIV OF ARIZONA	B F QUIGLEY	HQ	S C CROW	NAGW 1332	1435
49	UNIV OF ARIZONA	A S MCGEE	HQ	K RAMAHALLI	NAGW 4248	1516
49	CALIF INST OF TECH	A S MCGEE	HQ	C MERKEL	NGT 00-060-009	1730
49	CALIF INST OF TECH	A S MCGEE	HQ	A L ALBEE	NGT 5-3790	1736
49	CAL POLY ST U-S LUIS	A S MCGEE	HQ	R VAN-T RIET	NAGW 4287	1743
49	CAL STATE U-L ANGELES	B WHITE	HQ	M RANDLE	NGT 00-090-051	1771
49	CAL STATE U-L ANGELES	B WHITE	HQ	R LANDIS	NGT 00-090-064	1772
49	CAL STATE U-NRTHRIDGE	M S MARGOLIS	HQ	C MORNING	NGT 00-090-032	1780
49	CAL STATE U-NRTHRIDGE	B WHITE	HQ	M MACIAS	NGT 00-090-055	1781
49	D-Q UNIVERSITY	B L WHITE	HQ	A LOUFAS	NGT 00-090-054	1787
49	HARVEY MUDD COLLEGE	M L HINES	ARC	J ROSENBERG	NCC 2-5098	1792
49	SAN FRAN STATE UNIV	G M MULENBURG	ARC	P PFAELZER	NCC 2-5037	1816
49	STANFORD UNIVERSITY	B W WEBBON	ARC	M PATE-CORNELL	NAG 2-980	1905
49	STANFORD UNIVERSITY	A S MCGEE	HQ	D BERSHADER	NGT 5-20412	2041
49	UNIV CALIF-BERKELEY	G MEYER	ARC	S S SASTRY	NAG 2-243	2045
49	UNIV CALIF-BERKELEY	S OLSON	LERC	A C FERNANDEZ-PELLO	NAG 3-1252	2051
49	UNIV CALIF-IRVINE	H D ROSS	LERC	W A SIRIGNANO	NAG 3-627	2324
49	UNIV CALIF-IRVINE	L H LI	JSC	G L LONG	NAG 9-725	2336
49	UNIV CALIF-IRVINE	N S JACOBSON	LERC	G S SAMUELSON	NAS 3-27094	2347
49	UNIV CALIF-IRVINE	R A DEMOCH	JPL	R D NELSON	NCC 7-3	2349
49	UNIV CALIF-L ANGELES	A S MCGEE	HQ	R X MEYER	NAGW 4254	2464
49	UNIV CALIF-L ANGELES	K W ILIFF	ARC	A V BALAKRISHNAN	NCC 2-374	2480
49	UNIV CALIF-SAN DIEGO	H D ROSS	LERC	F A WILLIAMS	NAG 3-1081	2522
49	UNIV CALIF-SAN DIEGO	L D CAUDILL	HQ	P M CHAU	NASW 4507	2613
49	UNIV CALIF-SAN DIEGO	H D ROSS	LERC	F A WILLIAMS	NCC 3-407	2621
49	UNIV CALIF-SAN DIEGO	C HIX	JPL	A M SCHNEIDER	NGT 00-051-274	2627
49	UNIV CALIF-SAN DIEGO	D K RUSSELL	HQ	A SCHNEIDER	NGT 00-070-317	2628
49	UNIV CALIF-S CRUZ	D K RUSSELL	HQ	R HUGHEY	NGT 00-070-337	2724
49	UNIV OF SOUTHERN CALIF	E A PALMER	ARC	D L DAMOS	NCC 2-910	2766
49	UNIV COLORADO-BOLDR	W K BELVIN	LARC	K C PARK	NAG 1-1200	2839
49	UNIV COLORADO-BOLDR	J A SALZMAN	LERC	R H DAVIS	NAG 3-1277	2865
49	UNIV COLORADO-BOLDR	S KENT	GSFC	G BORN	NAG 5-2332	2895

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49	UNIV COLORADO-BOLDR	A P BUKLEY	MSFC	M J BALAS	NAG 8-244	2941
49	UNIV COLORADO-BOLDR	S STOYANOF	MSFC	W ROGERS	NAG 8-1135	2950
49	UNIV COLORADO-BOLDR	M S HIRSCHBEIN	HQ	G W MORGANTHALER	NAGW 1388	2962
49	UNIV COLORADO-BOLDR	E A PALMER	ARC	P G POLSON	NCC 2-904	3059
49	UNIV OF DENVER	J B MCQUILLEN	LERC	J KIM	NAG 3-1609	3141
49	UNIV STHN COLORADO	R A JACOBSEN	ARC	W R DUNN	NCC 2-373	3154
49	UNIV STHN COLORADO	L W DOTY	ARC	W R DUNN	NCC 2-609	3155
49	UNIV OF CONNECTICUT	A PATTERSON-HINE	ARC	K R PATTIPATI	NCC 2-5123	3162
49	UNIV OF CONNECTICUT	N MINNIFIELD	GSFC	C ROYCHOUDHURI	NCC 5-64	3163
49	UNIV OF DELAWARE	K A LOGSDON	LERC	A P ALLAN	NCC 3-429	3222
49	GALLAUDET UNIVERSITY	M MARGOLIS	HQ	NISSEN	NGT 00-090-013	3232
49	GEORGE WASHINGTON U	R L YANG	LARC	J L WHITESIDES	NAG 1-1353	3237
49	GEORGE WASHINGTON U	W POLAND JR	GSFC	H J HELGERT	NSG-5109	3260
49	HOWARD UNIVERSITY	A GOODSON	GSFC	T L GILL	NAG 5-995	3273
49	HOWARD UNIVERSITY	A S MCGEE	HQ	J B HALPERN	NGT 00-060-011	3286
49	AMERICAN UNIVERSITY	B D SEERY	GSFC	R B KAY	NAG 5-1319	3288
49	EMBRY-RIDDLE AERO U	A S MCGEE	HQ	J G LADESIC	NAGW 4295	3325
49	FLORIDA A&M UNIV	M S PLECITY	LERC	J L EARLY	NAG 3-1494	3344
49	FLORIDA A&M UNIV	A S MCGEE	HQ	P HOLLIS	NAGW 4316	3349
49	FLORIDA A&M UNIV	Y B FREEMAN	HQ	W TOLIVER	NGT 00-090-015	3351
49	FLORIDA A&M UNIV	L WARREN	HQ	F S HUMPHRIES	NGT 00-090-030	3352
49	FLORIDA ATLANTIC U	J S LITT	LERC	A DUYAR	NAG 3-1198	3359
49	UNIV OF CENTRAL FLA	J KOLF	DFRC	D GUCKENBERGER	NAG 2-4005	3423
49	UNIV OF CENTRAL FLA	A S MCGEE	HQ	R JOHNSON	NAGW 4292	3424
49	UNIV OF CENTRAL FLA	D GLASCO	HQ	A L ARMACOST	NGT 00-051-099	3444
49	UNIV OF CENTRAL FLA	A S MCGEE	HQ	L A ANDERSON	NGT 00-060-002	3446
49	UNIV OF CENTRAL FLA	B WHITE	HQ	J SMITH	NGT 00-090-046	3447
49	UNIV OF CENTRAL FLA	B WHITE	HQ	S RICE	NGT 00-090-059	3448
49	UNIV OF CENTRAL FLA	J M MACKALL	HQ	J A SMITH	NGT 00-090-159	3451
49	UNIV OF FLORIDA	R L YANG	LARC	A JD	NAG 1-1394	3455
49	UNIV OF FLORIDA	F SIX	MSFC	N FITZ-COY	NAG 8-280	3471
49	UNIV OF FLORIDA	A S MCGEE	HQ	G NEVILL	NAGW 4255	3487
49	UNIV OF FLORIDA	J BEAN	MSFC	J R THORNTON	NASW 4676	3500
49	UNIV OF FLORIDA	S J SCOTTI	LARC	R T HAFTKA	NCC 1-216	3503
49	UNIV OF FLORIDA	S LITTLE	MSFC	J R THORTON	NCC 8-32	3507
49	UNIV OF MIAMI	R WALES	GSFC	O BROWN	NAS 5-30694	3539
49	UNIV OF SO FLORIDA	B WHITE	HQ	R E HERRING	NAGW 3050	3554
49	UNIV OF SO FLORIDA	B WHITE	HQ	J O'SHIELDS	NGT 00-090-048	3571
49	UNIV OF SO FLORIDA	B L WHITE	HQ	J A O'SHIELDS	NGT 00-090-060	3572
49	GEORGIA INST OF TECH	H C VYKUKAL	ARC	L H OLSON	NAG 2-806	3612
49	GEORGIA INST OF TECH	M G POTAPCZUK	LERC	L N SANKAR	NAG 3-768	3617
49	GEORGIA INST OF TECH	M P PROCTOR	LERC	R F SALANT	NAG 3-974	3618
49	GEORGIA INST OF TECH	A S MCGEE	HQ	J BRAZELL	NAGW 4332	3656
49	GEORGIA INST OF TECH	A S MCGEE	HQ	D P SCHRAGE	NAGW 4337	3657
49	GEORGIA INST OF TECH	E A PALMER	ARC	C M MITCHELL	NCC 2-824	3670
49	MOREHOUSE COLLEGE	Y FREEMAN	HQ	W JACKSON	NGT 00-090-025	3723
49	SAVANNAH STATE COL	M S PLECITY	LERC	A KALU	NCC 3-362	3730
49	SPELMAN COLLEGE	B WHITE	HQ	E FALCONER	NGT 00-090-049	3734
49	UNIV OF HAWAII-MANOA	J C MORAKIS	GSFC	S LIN	NAG 5-931	3758
49	UNIV OF HAWAII-MANOA	W H MILLER	GSFC	S LIN	NAG 5-2613	3774
49	UNIV OF HAWAII SYSTM	W H MILLER	GSFC	S LIN	NAG 5-2938	3856
49	UNIV OF IDAHO	A S MCGEE	HQ	L A STAUFFER	NAGW 4276	3864
49	UNIV OF IDAHO	H LUM	ARC	D H ATKINSON	NCC 2-5006	3868
49	UNIV ILLINOIS-URBANA	T L PANONTIN	ARC	R	NCC 2-5022	4101
49	PURDUE UNIVERSITY	Y R HICKS	LERC	N M LAURENDEAU	NAG 3-1038	4174
49	PURDUE UNIVERSITY	A S MCGEE	HQ	T A WEISSHAAR	NAGW 4297	4199
49	UNIV OF NOTRE DAME	J B MCQUILLEN	LERC	M J MCCREADY	NAG 3-1398	4231
49	UNIV OF NOTRE DAME	W H MILLER	GSFC	D COSTELLO	NAG 5-557	4234
49	UNIV OF NOTRE DAME	A S MCGEE	HQ	S BATILL	NAGW 4315	4239
49	IOWA STATE UNIV	A S MCGEE	HQ	L K SEVERSIKE	NAGW 4237	4280

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40	KANSAS STATE UNIV	A S MCGEE	HQ	A COGLEY	NAGW 4291	4356
40	UNIV OF KANSAS	A S MCGEE	HQ	J ROSKAN	NAGW 4239	4374
40	WICHITA STATE UNIV	E B DEAN	LARC	A S MASUD	NAG 1-1649	4391
40	LA ST U&A&M COL-BRGE	JOYCE	SSC	J CRUISE	NGT13-52701	4454
40	LA ST U&A&M COL-BRGE	JOYCE	SSC	L ROUSE JR.	NGT13-52703	4455
40	LA ST U&A&M COL-BRGE	JOYCE	SSC	W HUDNALL	NGT13-72701	4456
40	LOUISIANA TECH UNIV	JOYCE	SSC	E CALLEN JR.	NGT13-52700	4459
40	SO UNIV & A&M COL-BR	A S MCGEE	HQ	E HILDRETH	NGT 00-060-004	4474
40	UNIV OF NEW ORLEANS	JOYCE	SSC	E RUSSO	NGT13-52702	4493
40	XAVIER UNIV-LA	L WARREN	HQ	G W BAKER	NGT 00-090-004	4500
40	UNIV OF MAINE-ORONO	A S MCGEE	HQ	D J DWYER	NAGW 4410	4505
40	BOWIE STATE COLLEGE	D MENCHEN	GSFC	J LANGDON	NAG 5-2941	4509
40	CAPITOL COLLEGE	MENCHAN	GSFC	D DRESNER	NAG 5-2942	4514
40	JOHNS HOPKINS UNIV	M GARRISON	GSFC	B LE	NCC 5-124	4630
40	MORGAN STATE UNIV	D MENCHAN	GSFC	C WHITE	NAG 5-2945	4640
40	MORGAN STATE UNIV	D MENCHAN	GSFC	C WHITE	NCA 5-105	4642
40	MORGAN STATE UNIV	D RUSSELL	HQ	E DELOATCH	NGT 00-090-042	4645
40	UNIV MARYLAND-COL PK	D J HEI	GSFC	E E MILLER	NAG 5-2648	4731
40	UNIV MARYLAND-COL PK	S M WANDER	HQ	M J LEWIS	NAGW 3715	4785
40	UNIV MARYLAND-COL PK	A S MCGEE	HQ	M LEWIS	NAGW 4347	4800
40	UNIV MARYLAND-COL PK	R W LAUVER	LERC	R W GAMMON	NAS 3-25370	4815
40	UNIV MARYLAND-COL PK	A S MCGEE	HQ	H R BOROSON	NGT 00-060-006	4865
40	UNIV MD-EASTRN SHORE	B WHITE	HQ	B ANDERSON	NGT 00-090-045	4873
40	BOSTON UNIVERSITY	J C HARDIN	LARC	M S HOWE	NAG 1-1888	4902
40	MASS INST OF TECH	J KOLAROV	LARC	S DUBOWSKY	NAG 1-801	5034
40	MASS INST OF TECH	D S MILLAR	LARC	I A WAITZ	NAG 1-1602	5046
40	MASS INST OF TECH	W BELVIN	LARC	E F CRAWLEY	NAG 1-1717	5049
40	MASS INST OF TECH	K CORKER	ARC	R J HANSMAN	NAG 2-716	5053
40	MASS INST OF TECH	M J GERALD-YAMASAKI	ARC	R HAIMES	NAG 2-884	5057
40	MASS INST OF TECH	R M SULLIVAN	MSFC	H L MCMANUS	NAG 8-295	5131
40	MASS INST OF TECH	G I JOHNSTON	HQ	E F CRAWLEY	NAGW 1335	5153
40	MASS INST OF TECH	E W BULL	HQ	E F CRAWLEY	NAGW 2014	5166
40	MASS INST OF TECH	A S MCGEE	HQ	S WEISS	NAGW 4427	5202
40	WORCESTER POLY INST	A S MCGEE	HQ	D OLINGER	NAGW 4257	5330
40	WORCESTER POLY INST	A S MCGEE	HQ	H JOHARI	NAGW 4290	5331
40	MICHIGAN STATE UNIV	K R SACKSTEDER	LERC	A ATREYA	NAG 3-1271	5344
40	MICHIGAN STATE UNIV	C R MERCER	LERC	H J SCHUCK	NAG 3-1779	5349
40	UNIV MICH-ANN ARBOR	D STOCKER	LERC	G M FAETH	NAG 3-1245	5392
40	UNIV MICH-ANN ARBOR	K R SACKSTEDER	LERC	A ATREYA	NAG 3-1460	5395
40	UNIV MICH-ANN ARBOR	J S SOVEY	LERC	A D GALLIMORE	NAG 3-1572	5397
40	UNIV MICH-ANN ARBOR	J E BROOKER	LERC	J F DRISCOLL	NAG 3-1639	5398
40	UNIV MICH-ANN ARBOR	S C HARTMAN	HQ	F T ULABY	NAGW 1334	5432
40	UNIV MICH-ANN ARBOR	A S MCGEE	HQ	J EISLEY	NAGW 4240	5462
40	UNIV MICH-ANN ARBOR	R HOWARD	HQ	T KILLEEN	NASW 5008	5485
40	UNIV MICH-ANN ARBOR	G JOHNSTON	HQ	F T ULABY	NGT 00-010-028	5492
40	UNIV MICH-ANN ARBOR	F C OWENS	HQ	D J WEINTRAUB	NGT23-5802	5520
40	U MINN-MNPLS-ST PAUL	A S MCGEE	HQ	A VANO	NAGW 4302	5575
40	JACKSON STATE UNIV	B L WHITE	HQ	A K MOHAMED	NAGW 4092	5605
40	MISSISSIPPI STATE U	W H MILLER	GSFC	W J EBEL	NAG 5-2006	5621
40	MISSISSIPPI STATE U	K R SACKSTEDER	LERC	R A ALTENKIRCH	NAS 3-23901	5627
40	MISSISSIPPI STATE U	K R SACKSTEDER	LERC	R A ALTENKIRCH	NCC 3-354	5630
40	UNIV MISS-UNIVERSITY	A S MCGEE	HQ	M R DINGERSON	NAGW 4458	5644
40	UNIV SO MISSISSIPPI	A S MCGEE	HQ	J E MILLER	NGT 00-060-003	5651
40	UNIV MO-COLUMBIA	S S PAI	LERC	G D GUTE	NAG 3-1477	5664
40	UNIV MO-COLUMBIA	B W WEBBON	ARC	S S NAIR	NCC 2-823	5675
40	UNIV NEBRASKA-LINCLN	L KEFFER	HQ	R E BALLINGER	NAGW 4414	5780
40	DARTMOUTH COLLEGE	M M MELLOTT	HQ	C G FESEN	NAGW 2656	5821
40	DARTMOUTH COLLEGE	E A SCHMIDT	GSFC	C G FESEN	NAS 5-38056	5833
40	PRINCETON UNIVERSITY	J B HAGGARD	LERC	F L DRYER	NAG 3-1231	5918
40	PRINCETON UNIVERSITY	K SACKSTEDER	LERC	C K LAW	NAG 3-1713	5923

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49	NM HIGHLANDS UNIV	D RUSSELL	HQ	B TAYLOR	NGT 00-090-284	6029
49	NEW MEX ST U-LAS CR	D WILSON	GSFC	F CARDEN	NAG 5-1491	6039
49	UNIV OF ALBUQUERQUE	W H MILLER	GSFC	K CAMERON	NAG 5-2285	6073
49	UNIV OF NEW MEXICO	K M PEECOOK	LERC	M S EL-GENK	NAG 3-1346	6074
49	UNIV OF NEW MEXICO	P YEH	GSFC	J VENBRUX	NAG 5-2166	6075
49	UNIV OF NEW MEXICO	P YEH	GSFC	K CAMERON	NAG 5-2190	6076
49	UNIV OF NEW MEXICO	W H MILLER	GSFC	S WHITAKER	NAG 5-2191	6077
49	UNIV OF NEW MEXICO	W H MILLER	GSFC	G K MAKI	NAG 5-2609	6078
49	UNIV OF NEW MEXICO	V BITTINGER	HQ	G K MAKI	NGT 00-010-029	6089
49	UNIV OF NEW MEXICO	B WHITE	HQ	M LEE	NGT 00-090-052	6092
49	UNIV OF NEW MEXICO	O A GUTIERREZ	HQ	M LEE	NGT32-4770	6094
49	CLARKSON UNIVERSITY	J KU	GSFC	N T OBOT	NAG 5-2471	6122
49	CLARKSON UNIVERSITY	G A LESANE	HQ	D K AIDUN	NGT 00-051-345	6132
49	POLYTECHNIC U	R G SEASHOLTZ	LERC	M V OTUGEN	NAG 3-1301	6356
49	RENSSELAER POLY-NY	R F LAWRENCE	LARC	N BURNETT	NAG 3-544	6369
49	RENSSELAER POLY-NY	J B MCQUILLEN	LERC	R T LAHEY	NAG 3-1400	6372
49	RENSSELAER POLY-NY	M D MONTEMERLO	HQ	G N SARIDIS	NAGW 1333	6381
49	RENSSELAER POLY-NY	R J HAYDUK	HQ	A DESROCHERS	NGT 00-010-000	6393
49	RENSSELAER POLY-NY	F SIX	MSFC	M E GLICKSMAN	NGT 8-52802	6407
49	ROCHESTER INST TECH	J A HEMMINGER	LERC	A OGUT	NAG 3-1153	6408
49	STATE UNIV NY-BUFFAL	J L ROGERS	LARC	C L BLEEBAUM	NAG 1-1599	6438
49	STATE UNIV NY-BUFFAL	E J PRIOR	LARC	V SHALIN	NGT 00-050-992	6450
49	STATE U NY-STONY BRK	A KURKOV	LERC	H S DHADWALL	NAG 3-1526	6454
49	SYRACUSE UNIVERSITY	S WANDER	HQ	E F SPINA	NAGW 3713	6509
49	SYRACUSE UNIVERSITY	D K RUSSELL	HQ	T DENG	NGT 00-070-380	6513
49	UNION COLLEGE	A T NETTLES	MSFC	R B BUCINELL	NAG 8-1144	6514
49	UNIV OF ROCHESTER	E MASSEY	HQ	T BROWN	NGT 00-051-109	6529
49	DUKE UNIVERSITY	A S MCGEE	HQ	F H COCKS	NAGW 4299	6545
49	FAYETTEVILLE STATE U	B WHITE	HQ	L EDWARDS	NGT 00-090-040	6572
49	NO CAR A&T STATE U	J RUF	MSFC	K JONES	NAG 8-1142	6586
49	NO CAR A&T STATE U	A J HATCH	ARC	H L MARTIN	NGT 2-52201	6598
49	NO CAROLINA STATE U	S M WANDER	HQ	F R DEJARNETTE	NAGW 1331	6618
49	NO CAROLINA STATE U	V BITTINGER	HQ	F R DEJARNETTE	NGT 00-010-030	6638
49	SHAW UNIVERSITY	B WHITE	HQ	M CLAYTON	NGT 00-090-041	6654
49	BALDWIN-WALLACE COL	S M NUSSBAUM	LERC	R L WALLIS	NCC 3-425	6692
49	CASE WESTERN RESERVE	R F LAWRENCE	LERC	M E BOULDING	NAG 3-406	6694
49	CASE WESTERN RESERVE	D A HOPKINS	ARC	D T DAVY	NAG 3-1027	6701
49	CASE WESTERN RESERVE	J A SALZMAN	LERC	J S T'EN	NAG 3-1046	6702
49	CASE WESTERN RESERVE	G R HALFORD	LERC	S S MANSON	NAG 3-1303	6710
49	CASE WESTERN RESERVE	A D PLINE	LERC	S OSTRACH	NAS 3-25973	6725
49	CLEVELAND STATE UNIV	R C TEW	LERC	M B IBRAHIM	NAG 3-955	6798
49	CUYAHOGA COMMUNITY C	L RHODES	LERC	L NIRO	NAG 3-313	6859
49	OHIO STATE UNIV	C A STEARNS	LERC	A K DOMINEK	NAG 3-1108	6897
49	OHIO STATE UNIV	A S MCGEE	HQ	G M GREGOREK	NAGW 4275	6944
49	OHIO UNIVERSITY	R M HUESCHEN	LARC	F VAN GRAAS	NAG 1-1423	6970
49	OHIO UNIVERSITY	A P BUKLEY	MSFC	R D IRWIN	NAG 8-217	6971
49	OHIO UNIVERSITY	R J SCHERTLER	LERC	H KRUSE	NCC 3-430	6974
49	UNIV OF AKRON	C F LORENZO	LERC	T T HARTLEY	NAG 3-1491	6991
49	UNIV OF AKRON	G R HALFORD	LERC	D C BUCHTHAL	NCC 3-375	7011
49	UNIV OF CINCINNATI	G BEHEIM	LERC	J T BOYD	NAG 3-1774	7034
49	UNIV OF CINCINNATI	S C HARTMAN	HQ	L M GALES	NAGW 1407	7038
49	UNIV OF CINCINNATI	A S MCGEE	HQ	L COOPER	NAGW 4304	7041
49	UNIV OF CINCINNATI	J F ZAKRAJSEK	LERC	P DHAWAN	NCC 3-308	7050
49	UNIV OF CINCINNATI	E T SCHWARTZ	HQ	G J SIMITSES	NGT 00-010-014	7052
49	UNIV OF DAYTON	W D MORRIS	LARC	C E EBELING	NAG 1-1327	7067
49	UNIV OF TOLEDO	P L MURTHY	LERC	S K MITAL	NAG 3-1264	7083
49	UNIV OF TOLEDO	G G SADLER	LERC	W L SCHELLER II	NCC 3-333	7114
49	UNIV OF TULSA	J FISHER	ARC	M ABRAHAM	NCC 2-5151	7147
49	CARNEGIE-MELLON UNIV	D LAVERY	HQ	T KANADE	NAGW 1175	7224
49	CARNEGIE-MELLON UNIV	D LAVERY	HQ	R WHITTAKER	NAGW 2998	7225

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FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
49	CARNEGIE-MELLON UNIV	D B LAVERN	HQ	W L WHITTAKER	NAGW 3863	7226
49	CARNEGIE-MELLON UNIV	J K ALEXANDER	HQ	B MOREL	NGT 00-050-995	7237
49	LINCOLN UNIV-PA	Y B FREEMAN	HQ	W WILLIAMS	NGT 00-090-020	7273
49	PENN STATE U-UNIV PK	V L METCALF	LARC	S D SOMMERFELDT	NAG 1-1557	7287
49	PENN STATE U-UNIV PK	E E VANLANDINGHAM	HQ	C L MERKLE	NAGW 1356	7356
49	PENN STATE U-UNIV PK	A S MCGEE	HQ	R G MELTON	NAGW 4309	7381
49	PENN STATE U-UNIV PK	G A WILHOLD	MSFC	C C MERKLE	NAS 8-38861	7393
49	PENN STATE U-UNIV PK	R J HARWELL	MSFC	K K KUO	NAS 8-39945	7396
49	PENN STATE U-UNIV PK	V BITTINGER	HQ	C MERKLE	NGT 00-010-034	7405
49	PENN STATE U-UNIV PK	W CAMP	KSC	C A BERNECKER	NGT 00-051-226	7425
49	UNIV OF RHODE ISLAND	L C MARTIN	LERC	O J GREGORY	NAG 3-1428	7548
49	CLEMSON UNIV-CLEMSON	E PRIOR	LARC	D DINGER	NGT 00-051-195	7589
49	U. OF S.C.- COLUMBIA	A S MCGEE	HQ	M COLGAN	NAGW 4610	7611
49	SO DAKOTA SCHL MINES	C WOOLLEY	JSC	T S ARNESON	NCC 9-24	7632
49	TENNESSEE STATE UNIV	L BERKE	LERC	C ONWVBIXO	NAG 3-1479	7649
49	TENNESSEE STATE UNIV	J E BOYD	LERC	D B ROGERS	NAG 3-1647	7650
49	TENNESSEE STATE UNIV	J BOYD	LERC	B ROGERS	NAG 3-1709	7651
49	VANDERBILT UNIVERSTY	G C HORNER	LARC	E GARCIA	NAG 1-1484	7707
49	VANDERBILT UNIVERSTY	A S MCGEE	HQ	T A CRUSE	NAGW 4252	7725
49	LAMAR UNIVERSITY	M EWERT	JSC	W E SIMON	NAG 9-839	7766
49	PRAIRIE VIEW A&M U	M DIOQU	JSC	T N FOGARTY	NAG 9-659	7773
49	RICE UNIVERSITY	S GOLDSTEIN	JSC	A MEADE JR.	NAG 9-719	7804
49	RICE UNIVERSITY	S GOLDSTEIN	JSC	I D WALKER	NGT 00-070-251	7837
49	TEXAS A&M UNIVERSITY	R M HUESCHEN	LARC	J H PAINTER	NAG 1-1066	7847
49	TEXAS A&M UNIVERSITY	S M STEVENSON	LERC	W E BOLCH	NAG 3-1326	7859
49	TEXAS A&M UNIVERSITY	J CHITWOOD	GSFC	F LITTLE	NAG 5-2221	7875
49	TEXAS A&M UNIVERSITY	J W SUNKEL	JSC	A G CARLOS	NAG 9-491	7887
49	TEXAS A&M UNIVERSITY	S H GOLDSTEIN	JSC	G L COTE	NAG 9-716	7894
49	TEXAS A&M UNIVERSITY	K M HURLBERT	JSC	F R BEST	NAG 9-787	7898
49	TEXAS A&M UNIVERSITY	N PELLIS	JSC	G COTE	NAG 9-821	7901
49	TEXAS A&M UNIVERSITY	F C OWENS	HQ	A PARLOS	NGT 00-050-733	7925
49	TEXAS A&M UNIVERSITY	F C OWENS	HQ	A G PARLOS	NGT 00-070-185	7933
49	TEXAS A&M UNIVERSITY	S GOLDSTEIN	JSC	F R BEST	NGT 00-070-248	7935
49	TEXAS A&M UNIVERSITY	A S MCGEE	HQ	W A HYMAN	NGT44-1800	7945
49	TEXAS TECH UNIV	G MEYER	ARC	C F MARTIN	NAG 2-899	7963
49	UNIV HOUSTON	A S MCGEE	HQ	R B BANNEROT	NGT44-5803	8004
49	U TEX-PAN AM-EDNBURG	B WHITE	HQ	W SHOCKLEY	NGT 00-090-043	8018
49	UNIV TEXAS-ARLINGTON	S WANDER	HQ	D R WILSON	NAGW 3714	8057
49	UNIV TEXAS-AUSTIN	F F SIMON	LERC	M E CRAWFORD	NAG 3-864	8072
49	UNIV TEXAS-AUSTIN	G K KLUTE	JSC	M G PANDY	NAG 9-671	8101
49	UNIV TEXAS-AUSTIN	N TENGLER	JSC	R R CRAIG JR.	NAG 9-829	8112
49	UNIV TEXAS-AUSTIN	A S MCGEE	HQ	W FOWLER	NAGW 4249	8147
49	UNIV TEXAS-AUSTIN	A S MCGEE	HQ	S NICHOLS	NAGW 4350	8150
49	UNIV TEXAS-AUSTIN	R J HAYDUK	HQ	G F CAREY	NGT 00-070-111	8182
49	UNIV TEXAS-S ANTONIO	B WHITE	HQ	M BERRIOZABAL	NAGW 3573	8234
49	UNIV TEXAS-S ANTONIO	B WHITE	HQ	L VALERDE	NGT 00-090-047	8237
49	BRIGHAM YOUNG UNIV	B W WEBBON	ARC	P CARTER	NAG 2-883	8242
49	UTAH STATE UNIV	A S MCGEE	HQ	F REDD	NAGW 4298	8290
49	HAMPTON UNIVERSITY	M A JONES	HQ	A A ADEYIGA	NAGW 4322	8388
49	HAMPTON UNIVERSITY	A S MCGEE	HQ	J W SPENCER	NGT47-20800	8393
49	NORFOLK STATE UNIV	J E GARDNER	LARC	J A JACOBS	NAG 1-1432	8396
49	NORFOLK STATE UNIV	S STOVALL-ALEXANDER	HQ	J S SHAY	NGT 00-090-160	8404
49	OLD DOMINION UNIV	N J GROOM	LARC	C P BRITCHER	NAG 1-1056	8412
49	OLD DOMINION UNIV	A S MCGEE	HQ	R ASH	NAGW 4339	8451
49	OLD DOMINION UNIV	A S MCGEE	HQ	S N TIWARI	NGT47-3029	8484
49	UNIV OF VIRGINIA	A R WIETING	LARC	E A THORNTON	NAG 1-1013	8492
49	UNIV OF VIRGINIA	H A ROELANT	LARC	J B DUGAN	NCC 1-210	8553
49	UNIV OF VIRGINIA	S L VENNERI	HQ	A K NOOR	NCCW 11	8558
49	UNIV OF VIRGINIA	J ALEXANDER	HQ	R BARAGIOLA	NGT 00-050-905	8569
49	UNIV OF VIRGINIA	J ALEXANDER	HQ	R A BARAGIOLA	NGT 00-050-906	8570

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49	UNIV OF VIRGINIA	E J PRIOR	LARC	E A THORNTON	NGT 00-051-114	8578
49	UNIV OF VIRGINIA	A NOVOTNY	HQ	J J DORNING	NGT 00-051-221	8580
49	VIRGINIA POLY INST	W J STROUD	LARC	E NIKOLAIDIS	NAG 1-1458	8622
49	VIRGINIA POLY INST	A S MCGEE	HQ	A JAKUBOWSKI	NAGW 4241	8653
49	VIRGINIA POLY INST	A S MCGEE	HQ	W H MASON	NAGW 4289	8654
49	UNIV OF WASHINGTON	A S MCGEE	HQ	A P BRUCKNER	NAGW 4253	8799
49	WEST VIRGINIA UNIV	A S MCGEE	HQ	R L MCCONNELL	NAGW 4286	8886
49	WEST VIRGINIA UNIV	A S MCGEE	HQ	T NORMAN	NAGW 4321	8887
49	UNIV WISC-MADISON	N J GROOM	LARC	H GUCKEL	NAG 1-1568	8924
49	UNIV WISC-MADISON	B M CARPENTER	HQ	S KOU	NAGW 3004	8997
49	UNIV WISC-MADISON	A S MCGEE	HQ	E G LOVELL	NAGW 4293	9021
49	UNIV WISC-MILWAUKEE	A S MCGEE	HQ	G MOORE	NAGW 4344	9063
49	U PUERTO RICO-MAYAGZ	JOYCE	SSC	J MORELOCK	NGT13-72700	9115
49	ISRAEL INST OF TECH	S R ELLIS	HQ	A J GRUNWALD	NCCW 45	9137
51	ALABAMA A&M UNIV	H MATSOS	MSFC	J JOHNSON	NAG 8-198	1006
51	ALABAMA A&M UNIV	D S NACHTWEY	JSC	P KALE	NAG 9-246	1016
51	ALABAMA A&M UNIV	R L SAUER	JSC	M G TADROS	NAG 9-758	1017
51	ALABAMA A&M UNIV	R C RUFF	MSFC	R B LAL	NAS 8-36634	1018
51	MILES COLLEGE	M A JONES	HQ	C JONES	NAGW 4323	1052
51	UNIV ALA-BIRMINGHAM	A VILLAMIL	HQ	C E BUGG	NAGW 813	1080
51	UNIV ALA-BIRMINGHAM	R C DARTY	MSFC	L DELUCAS	NAS 8-36611	1087
51	UNIV ALA-HUNTSVILLE	B ANDERSON	MSFC	J WRIGHT	NAG 8-297	1118
51	UNIV ALA-TUSCALOOSA	L WANG	JSC	R E SMITH	NAG 9-625	1221
51	ARIZONA STATE UNIV	J D RUMMEL	HQ	R E BLANKENSHIP	NAGW 1395	1308
51	UNIV OF ARIZONA	W E HINDS	ARC	B L MCNAUGHTON	NAG 2-949	1373
51	UNIV OF ARIZONA	C F SAMS	JSC	S O KESSLER	NAG 9-442	1423
51	UNIV OF ARIZONA	T W HALSTEAD	HQ	M E TISCHLER	NAGW 3197	1483
51	UNIV OF ARIZONA	W M KNOTT	KSC	M T TISCHLER	NAG10-134	1526
51	UNIV OF ARIZONA	S R GONDA	JSC	D W SAMMONS	NAS 9-18433	1535
51	U ARKANSAS MAIN-FAYE	C P MCKAY	ARC	T A KRAL	NCC 2-5026	1599
51	CALIF INST OF TECH	W E HINDS	ARC	B CHAPMAN	NAG 2-943	1606
51	SAN DIEGO STATE UNIV	T W HALSTEAD	HQ	D RAYLE	NAGW 3865	1802
51	SAN JOSE STATE UNIV	M L CORCORAN	ARC	R A FOX	NCC 2-449	1840
51	SAN JOSE STATE UNIV	M L CORCORAN	ARC	R A FOX	NCC 2-723	1846
51	SAN JOSE STATE UNIV	C M WINGET	ARC	D C HOLLEY	NCC 2-779	1848
51	SAN JOSE STATE UNIV	S M HING	ARC	D C HOLLEY	NCC 2-822	1850
51	SANTA CLARA UNIV	J D RUMMEL	HQ	H P KLEIN	NAGW 2378	1873
51	STANFORD UNIVERSITY	M M AVERNER	HQ	P VITOUSEK	NAGW 1068	1921
51	STANFORD UNIVERSITY	M D ROSS	ARC	M W FELDMAN	NCC 2-778	1969
51	STANFORD UNIVERSITY	R GRYMES	ARC	R SCHIMKE	NCC 2-5066	1984
51	UNIV CALIF-BERKELEY	E M HOLTON	ARC	F H WILT	NAG 2-572	2046
51	UNIV CALIF-BERKELEY	T W HALSTEAD	HQ	L FELDMAN	NAGW 3605	2139
51	UNIV CALIF-BERKELEY	A NOVOTNY	HQ	M K FIRESTONE	NGT 00-051-222	2230
51	UNIV CALIF-BERKELEY	G LESANE	HQ	L FELDMAN	NGT 00-051-280	2233
51	UNIV CALIF-DAVIS	J P CONNOLLY	ARC	C A FULLER	NAG 2-587	2246
51	UNIV CALIF-DAVIS	C E WADE	ARC	J M HOROWITZ	NAG 2-788	2248
51	UNIV CALIF-DAVIS	J VERNIKOS	ARC	C A FULLER	NAG 2-801	2250
51	UNIV CALIF-DAVIS	C M WINGET	ARC	J VERNIKOS	NAG 2-840	2251
51	UNIV CALIF-DAVIS	W E HINDS	ARC	C A FULLER	NAG 2-944	2253
51	UNIV CALIF-DAVIS	C M WINGET	ARC	T M HOBAN-HIGGINS	NAG 2-983	2254
51	UNIV CALIF-DAVIS	D A REISS-BUBENHEIM	ARC	C A FULLER	NCC 2-886	2286
51	UNIV CALIF-IRVINE	A D MANDEL	ARC	K M BALDWIN	NAG 2-555	2320
51	UNIV CALIF-IRVINE	W E HINDS	ARC	K M BALDWIN	NAG 2-942	2321
51	UNIV CALIF-L ANGELES	C M WINGET	ARC	V R EDGERTON	NAG 2-717	2367
51	UNIV CALIF-L ANGELES	N PELLIS	JSC	E DIRKSEN	NAG 9-814	2403
51	UNIV CALIF-L ANGELES	M MEYER	HQ	D JACOBS	NAGW 4223	2462
51	UNIV CALIF-L ANGELES	A PLAZA	JSC	R EGGERTON	NAS 9-18773	2476
51	UNIV CALIF-L ANGELES	J P CONNOLLY	ARC	V R EDGERTON	NCC 2-535	2481
51	UNIV CALIF-RIVERSIDE	M MEYER	HQ	C SWITZER	NAGW 4184	2506
51	UNIV CALIF-RIVERSIDE	R KING	MSFC	A MCPHERSON	NAS 8-39763	2507

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51	UNIV CALIF-RIVERSIDE	R KING	MSFC	A MCPHERSON	NCC 8-80	2508
51	UNIV CALIF-SAN DIEGO	J P CONNOLLY	ARC	S FOWLER	NAG 2-653	2517
51	UNIV CALIF-SAN DIEGO	C M WINGET	ARC	S BODINE-FOWLER	NAG 2-714	2518
51	UNIV CALIF-SAN DIEGO	W E HINDS	ARC	L L BRUNTON	NAG 2-977	2521
51	UNIV CALIF-SAN DIEGO	R J WHITE	HQ	J B WEST	NAGW 897	2559
51	UNIV CALIF-SAN DIEGO	J D RUMMEL	HQ	G ARRHENIUS	NAGW 1031	2560
51	UNIV CALIF-SAN DIEGO	V THORNE	HQ	J A FRANGOS	NAGW 4548	2602
51	UNIV CALIF-SAN DIEGO	D A REISS-BUBENHEIM	ARC	S C BODINE-FOWLER	NCC 2-888	2619
51	UNIV CALIF-SAN FRAN	C E WADE	ARC	I A REID	NAG 2-779	2629
51	UNIV CALIF-SAN FRAN	C M WINGET	ARC	M HUGHES-FULFORD	NAG 2-981	2630
51	UNIV CALIF-SAN FRAN	N PELLIS	JSC	B BHATNAGAR	NAG 9-812	2633
51	UNIV CALIF-SAN FRAN	T W HALSTEAD	HQ	M H FULFORD	NAGW 1244	2634
51	UNIV CALIF-SAN FRAN	V ELLERBE	JSC	C CANN	NAS 9-18769	2638
51	UNIV CALIF-SAN FRAN	S B ARNAUD	ARC	E M HOLTON	NCC 2-589	2641
51	UNIV CALIF-SAN FRAN	E M HOLTON	ARC	C E CANN	NCC 2-597	2642
51	UNIV CALIF-SAN FRAN	E M HOLTON	ARC	R K GLOBUS	NCC 2-846	2645
51	UNIV CALIF-S CRUZ	L I HOCHSTEIN	ARC	R A BOGOMOLNI	NCC 2-5143	2721
51	UNIV SAN FRANCISCO	C M WINGET	ARC	E V BENTON	NCC 2-893	2730
51	UNIV COLORADO-BOLDR	A D SHIELDS	GSFC	P TODD	NAG 8-1165	2951
51	U CONN HLTH CTR-FARM	T W HALSTEAD	HQ	D W ROWE	NAGW 3332	3156
51	UNIV OF CONNECTICUT	M MEYER	HQ	J P GOGARTEN	NAGW 4572	3160
51	YALE UNIVERSITY	W E HINDS	ARC	H S KESHISHIAN	NAG 2-948	3170
51	YALE UNIVERSITY	R D MACELROY	ARC	A W GALSTON	NCC 2-726	3192
51	UNIV OF DELAWARE	R SNYDER	MSFC	A LENHOFF	NAG 8-1038	3211
51	FLORIDA INST OF TECH	B MARTIN	KSC	R C WEIGEL	NGT 00-050-967	3379
51	FLORIDA STATE UNIV	O THIELE	GSFC	P S SMITH	NAG 5-2719	3399
51	FLORIDA STATE UNIV	M MEYER	HQ	E I FRIEDMANN	NAGW 4044	3413
51	UNIV OF FLORIDA	C M WINGET	ARC	T WRONSKI	NCC 2-825	3504
51	UNIV OF MIAMI	W C PATZERT	HQ	H C GRABER	NAGW 2672	3533
51	UNIV OF SO FLORIDA	C M WINGET	ARC	T SHIMIZU	NAG 2-1000	3550
51	UNIV OF SO FLORIDA	G SPAULDING	JSC	J L BECKER	NAG 9-648	3552
51	UNIV OF SO FLORIDA	W M KNOTT	KSC	K A FLANNING	NAG10-130	3560
51	GEORGIA INST OF TECH	D K RUSSELL	HQ	P EDMONDS	NGT 00-070-363	3697
51	GEORGIA STATE UNIV	P X CALLAHAN	ARC	D M RUMBAUGH	NAG 2-438	3714
51	MOREHOUSE SCHOOL MED	J D ATKINSON	JSC	G L SANFORD	NAG 9-852	3728
51	UNIV OF IDAHO	D A REIS-BUBENHEIM	ARC	M E DESANTIS	NCC 2-862	3866
51	NORTHWESTERN UNIV	T W HALSTEAD	HQ	R S DECKER	NAGW 3615	3914
51	UNIV OF CHICAGO	W E HINDS	ARC	K A ESSER	NAG 2-1008	3937
51	UNIV ILLINOIS-URBANA	S M HING	ARC	P C HARRISON	NAG 2-863	4055
51	UNIV ILLINOIS-URBANA	J D RUMMEL	HQ	C R WOESE	NAGW 2554	4092
51	IND U-PURDUE-INDAPLS	C M WINGET	ARC	W E ROBERTS	NAG 2-756	4131
51	IND U-PURDUE-INDAPLS	E M HOLTON	ARC	W E ROBERTS	NCC 2-594	4134
51	INDIANA U-BLOOMINGTN	D A REISS-BUBENHIEM	ARC	J R ALBERTS	NCC 2-870	4147
51	PURDUE UNIVERSITY	C M WINGET	ARC	P Y HESTER	NAG 2-1001	4170
51	PURDUE UNIVERSITY	L KARR	MSFC	J MORRE	NAG 8-1147	4188
51	PURDUE UNIVERSITY	T W HALSTEAD	HQ	C MITCHELL	NAGW 3843	4195
51	PURDUE UNIVERSITY	W M KNOTT	KSC	M OKOS	NAG10-112	4200
51	KANSAS STATE UNIV	C M WINGET	ARC	G W CONRAD	NAG 2-1005	4352
51	KANSAS STATE UNIV	F SIX	MSFC	B S SPOONER	NAG 8-1124	4353
51	KANSAS STATE UNIV	R J WHITE	HQ	B S SPOONER	NAGW 2328	4355
51	UNIV OF LOUISVILLE	J P CONNOLLY	ARC	G SONNENFELD	NAG 2-707	4414
51	UNIV OF LOUISVILLE	T W HALSTEAD	HQ	G SONNENFELD	NAGW 4031	4416
51	LA ST U&A&M COL-BRGE	T W HALSTEAD	HQ	M MUSGRAVE	NAGW 3759	4436
51	LA ST U&A&M COL-BRGE	W KNOTT	JSC	M E MUSGRAVE	NAG10-75	4440
51	TULANE UNIVERSITY	C M WINGET	ARC	C D FERMIN	NAG 2-999	4478
51	TULANE UNIVERSITY	N PELLIS	JSC	K O'CONNER	NAG 9-826	4482
51	TULANE UNIVERSITY	L I HOCHSTEIN	ARC	E J JOHNSON	NCC 2-5011	4484
51	UNIV SOUTHWESTERN LA	T W HALSTEAD	HQ	K H HASENSTEIN	NAGW 3565	4496
51	BOWDOIN COLLEGE	T W HALSTEAD	HQ	C R PHILLIPS	NAGW 1719	4501
51	JOHNS HOPKINS UNIV	G SPAULDING	JSC	W M SALTZMAN	NAG 9-654	4568

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51	JOHNS HOPKINS UNIV	D L TOMKO	ARC	L B MINOR	NCC 2-5081	4629
51	UNIV MARYLAND-COL PK	M L CORCORAN	ARC	A N POPPER	NAG 2-787	4666
51	UNIV MARYLAND-COL PK	J K ALEXANDER	HQ	J A REGGIA	NAGW 2805	4769
51	BOSTON UNIVERSITY	W E HINDS	ARC	S KANDARIAN	NAG 2-1013	4904
51	BRANDEIS UNIVERSITY	F R SULZMAN	HQ	J R LACKNER	NAGW 4065	4941
51	HARVARD UNIVERSITY	E M HOLTON	ARC	A GOLDBERG	NAG 2-704	4956
51	HARVARD UNIVERSITY	R D MACELROY	ARC	R MITCHELL	NAG 2-843	4958
51	HARVARD UNIVERSITY	D K RUSSELL	HQ	L BUELL	NGT 00-090-172	5031
51	HARVARD UNIVERSITY	D K RUSSELL	HQ	L BUELL	NGT 00-090-254	5032
51	MASS INST OF TECH	D L PIERSON	JSC	A L DEMAIN	NAG 9-602	5143
51	MASS INST OF TECH	G SPAULDING	JSC	L E FREED	NAG 9-655	5144
51	MASS INST OF TECH	D R PELLIS	JSC	D E FREED	NAG 9-836	5147
51	MASS INST OF TECH	M BALTUCK	HQ	L H ROYDEN	NAGW 1951	5163
51	MASS INST OF TECH	J D RUMMEL	HQ	A RICH	NAGW 2341	5174
51	MASS INST OF TECH	S SAWYER	JSC	C M OMAN	NAS 9-19217	5226
51	UNIV OF MASS-AMHERST	J D RUMMELT	HQ	L MARGOLIS	NAGW 1989	5301
51	MICHIGAN TECH UNIV	M MOORE	ARC	W C KERFOOT	NGT 00-051-024	5373
51	UNIV MICH-ANN ARBOR	G SPAULDING	HQ	B PALSSON	NAG 9-652	5429
51	UNIV MICH-ANN ARBOR	M M AVERNER	HQ	B O PALSSON	NAGW 2608	5447
51	UNIV MICH-ANN ARBOR	T W HALSTEAD	HQ	P B KAUFMAN	NAGW 3789	5455
51	UNIV MICH-ANN ARBOR	D A REISS-BUBENHEIM	ARC	K I CLARK	NCC 2-856	5487
51	BEMIDJI STATE UNIV	C YANG	JSC	A L LINDGREN	NAG 9-623	5535
51	UNIV MISS-MEDL CNTR	M L CORCORAN	ARC	J D DICKMAN	NAG 2-786	5638
51	UNIV MISS-MEDL CNTR	D A REISS-BUBENHEIM	ARC	R B JOHNSON	NCC 2-863	5641
51	ST LOUIS UNIVERSITY	E M HOLTON	ARC	N C PARTRIDGE	NAG 2-454	5655
51	ST LOUIS UNIVERSITY	E M HOLTON	ARC	N C PARTRIDGE	NAG 2-888	5656
51	ST LOUIS UNIVERSITY	D A REISS-BUBENHEIM	ARC	N C PARTRIDGE	NCC 2-884	5658
51	WASHINGTON UNIVERSTY	W E HINDS	ARC	S M HIGHSTEIN	NAG 2-945	5694
51	WASHINGTON UNIVERSTY	G SPAULDING	GSFC	D W SCHARP	NAG 9-653	5700
51	WASHINGTON UNIVERSTY	T W HALSTEAD	HQ	B G PICKARD	NAGW 3046	5714
51	CREIGHTON UNIVERSITY	C M WINGET	ARC	B FRITZSCH	NAG 2-1003	5762
51	CREIGHTON UNIVERSITY	D A REISS-BUBENHEIM	ARC	B FRITZSCH	NCC 2-861	5763
51	UNIV NEB-OMAHA	F SIX	MSFC	J RASLER	NAG 8-221	5788
51	ROWAN COLL OF N.J.	F SIX	MSFC	V BROWN	NAG 8-995	5985
51	UNIV MED & DENT NJ	W E HINDS	ARC	R S KOWAKOWSKI	NAG 2-950	6020
51	UNIV MED & DENT NJ	W E HINDS	ARC	R S NOWAKOWSKI	NAG 2-973	6021
51	CITY U OF NY CTY COL	T W HALSTEAD	HQ	M P SCHREIBMAN	NAGW 1704	6103
51	CLARKSON UNIVERSITY	W ORAN	HQ	W R WILCOX	NAGW 976	6125
51	COLUMBIA UNIVERSITY	C M WINGET	ARC	D J WOLGEMUTH	NAG 2-987	6139
51	CORNELL UNIVERSITY	T TRI	JSC	R W LANGHANS	NAG 9-715	6259
51	CORNELL UNIVERSITY	T W HALSTEAD	HQ	R WAYNE	NAGW 3341	6289
51	CORNELL UNIVERSITY	R WHITE	HQ	R W ZOBEL	NGT 00-051-075	6315
51	MT SINAI SCH OF MED	C M WINGET	ARC	B COHEN	NAG 2-706	6335
51	MT SINAI SCH OF MED	D L TOMKO	ARC	B COHEN	NAG 2-804	6336
51	MT SINAI SCH OF MED	E M HOLTON	ARC	R J MAJESKA	NAG 2-895	6337
51	MT SINAI SCH OF MED	W E HINDS	ARC	G R HOLSTEIN	NAG 2-946	6338
51	MT SINAI SCH OF MED	N PELLIS	JSC	A MARTIN	NAG 9-816	6341
51	MT SINAI SCH OF MED	S SAWYER	JSC	B COHEN	NAS 9-19252	6342
51	NEW YORK UNIVERSITY	M L CORCORAN	ARC	R R LLINAS	NAG 2-662	6345
51	NEW YORK UNIVERSITY	W E HINDS	ARC	K D WALTON	NAG 2-951	6346
51	NEW YORK UNIVERSITY	W E HINDS	ARC	K D WALTON	NAG 2-978	6347
51	RENSSELAER POLY-NY	D C GILLIES	MSFC	A G OSTROGORSKY	NAG 8-952	6379
51	STATE UNIV NY-BUFFAL	N G ROBERTSON	JSC	L C SHACKELFORD	NAG 9-762	6446
51	STATE UNIV NY-BUFFAL	T W HALSTEAD	HQ	M A BISSON	NAGW 3630	6447
51	STATE UNIV NY-BUFFAL	F M SULZMAN	HQ	L E FARHI	NAGW 3937	6448
51	STATE U NY-STONY BRK	W M KNOT	KSC	A D KRICKORIAN	NAG10-70	6487
51	DUKE UNIVERSITY	C M WINGET	ARC	P ANDERSON	NAG 2-1002	6537
51	DUKE UNIVERSITY	N PELLIS	JSC	W E KRAUS	NAG 9-810	6542
51	EAST CAROLINA UNIV	C M WINGET	ARC	H W BURDEN	NCC 2-810	6566
51	EAST CAROLINA UNIV	D A REISS-BUBENHEIM	ARC	R H RENEGAR	NCC 2-864	6567

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51	EAST CAROLINA UNIV	D A REISS-BUBENHEIM	ARC	H W BURDEN	NCC 2-866	6568
51	UNIV N CAR-CHPL HILL	F M SULZMAN	HQ	M YAMAUCHI	NAGW 3946	6667
51	WAKE FOREST UNIV	T W HALSTEAD	HQ	G MUDAY	NAGW 4052	6672
51	CASE WESTERN RESERVE	D L HARM	JSC	R J LEIGH	NAG 9-571	6722
51	KENYON COLLEGE	T W HALSTEAD	HQ	K L EDWARDS	NAGW 2143	6882
51	MIAMI UNIVERSITY	T W HALSTEAD	HQ	J KISS	NAGW 3783	6887
51	OHIO STATE UNIV	T W HALSTEAD	HQ	F D FISK	NAGW 3594	6937
51	OHIO STATE UNIV	T W HALSTEAD	HQ	M L EVANS	NAGW 3730	6940
51	OHIO STATE UNIV	T W HALSTEAD	HQ	R HANGARTEN	NAGW 3982	6942
51	OHIO STATE UNIV	F C OWENS	HQ	F D SACK	NGT 00-050-868	6960
51	OHIO STATE UNIV	G LESANE	HQ	F SACK	NGT 00-051-281	6966
51	UNIV OF CINCINNATI	G LESANE	HQ	S A KHAN	NGT 00-051-367	7062
51	OREGON HLTH SCNCS U	T W HALSTEAD	HQ	M DANILCHIK	NAGW 3798	7152
51	OREGON HLTH SCNCS U	D A REISS-BUBENHEIM	ARC	D A MCCARRON	NCC 2-934	7153
51	OREGON STATE UNIV	T W HALSTEAD	HQ	T LOMAX	NAGW 3716	7175
51	PENN STATE U-UNIV PK	R C DARTY	MSFC	W C HYMER	NAG 8-953	7351
51	PENN STATE U-UNIV PK	T W HALSTEAD	HQ	D J COSGROVE	NAGW 3333	7371
51	PENN STATE U-UNIV PK	T W HALSTEAD	HQ	J A FRANGOS	NAGW 3358	7372
51	PENN STATE U-UNIV PK	C M WINGET	ARC	W C HYMER	NCC 2-370	7399
51	UNIV OF PITTSBURGH	J VILLARREAL	JSC	T H MONK	NAS 9-18404	7476
51	UNIV OF RHODE ISLAND	M MEYER	HQ	D DES MARAIS	NAGW 4045	7558
51	UNIV TENNESSEE-KNOXV	T W HALSTEAD	HQ	B V CONGER	NAGW 3141	7690
51	U OF TENN.-MEMPHIS	W E HINDS	ARC	A T ICHIKI	NAG 2-494	7704
51	BAYLOR COL OF MED	A D MANDEL	ARC	C P ALFREY	NAG 2-500	7740
51	BAYLOR COL OF MED	D FEEDBACK	JSC	A LEBLANC	NAG 9-754	7741
51	BAYLOR COL OF MED	J K ALEXANDER	HQ	J I MULHOLLAND	NAGW 2862	7742
51	RICE UNIVERSITY	T W HALSTEAD	HQ	J BRAAM	NAGW 3139	7816
51	TEXAS A&M UNIVERSITY	D HENNINGER	JSC	M DREW	NAG 9-669	7892
51	TEXAS A&M UNIVERSITY	F C OWENS	HQ	E RYKIEL	NGT 00-050-690	7924
51	UNIV HOUSTON	W A ORAN	HQ	C W CHU	NAGW 977	7993
51	UNIV HOUSTON	J D RUMMEL	HQ	G E FOX	NAGW 2108	7994
51	U TEX MED BRANCH-GAL	M D ROSS	ARC	A A PERACHIO	NAG 2-26	8005
51	U TEX MED BRANCH-GAL	J P CONNOLLY	ARC	M J CORREIA	NAG 2-446	8006
51	U TEX MED BRANCH-GAL	M L CORCORAN	ARC	S L COCHRAN	NAG 2-780	8007
51	U TEX MED BRANCH-GAL	H LANE	JSC	R WOLFE	NAS 9-18967	8009
51	U TEX HLTH SC CTR-SA	C M WINGET	ARC	M L WIDERHOLD	NAG 2-730	8010
51	U TEX HLTH SC CTR-SA	W E HINDS	ARC	M L WIEDERHOLD	NAG 2-952	8011
51	U TEX SW MED CTR-DA	W E HINDS	ARC	S T BRADY	NAG 2-962	8024
51	U TEX HLTH SC CTR-HU	D PELLIS	JSC	D EOFINGER	NAG 9-834	8034
51	U TEX HLTH SC CTR-HU	F M SULZMAN	HQ	F W BOOTH	NAGW 3908	8035
51	U TEX HLTH SC CTR-HU	C M WINGET	ARC	P J DUKE	NCC 2-423	8037
51	U TEX HLTH SC CTR-HU	C M WINGET	ARC	P J DUKE	NCC 2-876	8038
51	U NO.TX HLTH SCI CTR	N PELLIS	JSC	D DIMITRIJEVICH	NAG 9-813	8053
51	UNIV TEXAS-AUSTIN	G SPAULDING	JSC	R M BROWN	NAG 9-397	8095
51	UNIV TEXAS-AUSTIN	K DEMEL	JSC	R E BARR	NAG 9-805	8108
51	UNIV TEXAS-AUSTIN	T W HALSTEAD	HQ	S J ROUX	NAGW 1519	8116
51	UNIV TEXAS-AUSTIN	W M KNOTT	KSC	R M BROWN JR.	NAG10-143	8154
51	UNIV TEXAS-AUSTIN	G LESANE	HQ	B G SANDERS	NGT 00-051-365	8181
51	UNIV TEXAS-S ANTONIO	R A GRYMES	ARC	A O MARTINEZ	NAG 2-819	8230
51	UNIV TEXAS-S ANTONIO	D K RUSSELL	HQ	L WILLIAMS	NGT 00-090-261	8240
51	UTAH STATE UNIV	W M KNOTT	KSC	E E HOOD	NAG10-140	8293
51	UTAH STATE UNIV	A A GONZALES	ARC	G BINGHAM	NAS 2-13859	8297
51	UTAH STATE UNIV	R D MACELROY	ARC	F B SALISBURY	NCC 2-139	8299
51	UNIV. OF VERMONT	T W HALSTEAD	HQ	P M LINTILHAC	NAGW 3604	8312
51	E VA MED SC-HMPTN RD	C M WINGET	ARC	D B SPANGENBERG	NAG 2-787	8354
51	GEORGE MASON UNIV	L I HOCHSTEIN	ARC	H MOROWITZ	NAG 2-907	8356
51	GEORGE MASON UNIV	S CHANG	ARC	H MOROWITZ	NCA 2-487	8371
51	OLD DOMINION UNIV	W M KNOTT	KSC	F P DAY	NAG10-110	8452
51	VIRGINIA COMNWLTH U	S M FURTNEY	JSC	D L ECKBERG	NAG 9-412	8691
51	UNIV OF WASHINGTON	C F SAMS	JSC	P VERDUGO	NAG 9-604	8749

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51	UNIV OF WASHINGTON	T W HALSTEAD	HQ	R E CLELAND	NAGW 3755	8792
51	UNIV OF WASHINGTON	W M KNOTT	KSC	R E CLELAND	NAG10-77	8809
51	UNIV OF WASHINGTON	G LESANE	HQ	S S CARLSON	NGT 00-051-279	8854
51	WASHINGTON ST UNIV	T W HALSTEAD	HQ	N G LEWIS	NAGW 3672	8865
51	WASHINGTON ST UNIV	T W HALSTEAD	HQ	B W POOVAIAH	NAGW 3807	8866
51	WASHINGTON ST UNIV	W M KNOTT	KSC	N G LEWIS	NAG10-164	8869
51	MARSHALL UNIVERSITY	W E HINDS	ARC	W B RHOTEN	NAG 2-967	8878
51	MARSHALL UNIVERSITY	T W HALSTEAD	HQ	M HARRISON	NAGW 3859	8879
51	MARQUETTE UNIVERSITY	S B ARNAUD	ARC	R H FITTS	NAG 2-212	8907
51	MED COL OF WISC	A D MANDEL	ARC	D A RILEY	NAG 2-552	8916
51	MED COL OF WISC	C M WINGET	ARC	D A RILEY	NAG 2-633	8917
51	MED COL OF WISC	W E HINDS	ARC	D A RILEY	NAG 2-956	8918
51	UNIV WISC-MADISON	E M HOLTON	ARC	E SCHULTZ	NAG 2-671	8926
51	UNIV WISC-MADISON	R BALLARD	ARC	A C VAILAS	NAG 2-769	8927
51	UNIV WISC-MADISON	C M WINGET	ARC	B C WENTWORTH	NAG 2-1009	8930
51	UNIV WISC-MADISON	V CEVENINI	HQ	J G BOLLINGER	NAGW 975	8979
51	UNIV WISC-MADISON	T W HALSTEAD	HQ	E SCHULTZ	NAGW 3987	9013
51	UNIV WISC-MADISON	M M AVERNER	HQ	T W TIBBITTS	NAGW 4022	9014
51	UNIV WISC-MADISON	T W HALSTEAD	HQ	P MASSON	NAGW 4053	9015
51	UNIV WISC-MADISON	E M HOLTON	ARC	A C VAILAS	NCC 2-619	9039
51	UNIV WISC-MILWAUKEE	G SPAULDING	JSC	P I LELKES	NAG 9-651	9061
51	UNIV WISC-MILWAUKEE	J D RUMMEL	HQ	K NEALSON	NAGW 3270	9062
51	UNIV WISC-MILWAUKEE	D HOLLAND	HQ	P I LELKES	NGT 00-051-265	9066
51	U PUERTO RICO-RIO PI	F SIX	MSFC	R LUGO-ESCHENWALD	NAG 8-260	9118
51	U PUERTO RICO-RIO PI	D K RUSSELL	HQ	G TORANZOS	NGT 00-070-393	9123
54	ALABAMA A&M UNIV	R WALKER	MSFC	C LOWE	NAG 8-1039	1011
54	ALABAMA A&M UNIV	W LOVE	MSFC	T COLEMAN	NAG 8-1109	1012
54	OAKWOOD COLLEGE	F SIX	MSFC	A PAUL	NAG 8-997	1053
54	UNIV ALA-HUNTSVILLE	C M WINGET	ARC	M L LEWIS	NAG 2-985	1100
54	ARKANSAS STATE UNIV	W ST. CYR	SSC	P SHERMAN	NAG13-30	1584
54	CAL STATE U-FRESNO	D L PETERSON	ARC	J F PARIS	NAG 2-802	1762
54	SIERRA COLLEGE	A HUSAIN	NMO	M DOBECK	NAG 7-1	1882
54	UNIV CALIF-BERKELEY	D L PETERSON	ARC	R C SPEAR	NCC 2-5102	2196
54	UNIV CALIF-DAVIS	D L PETERSON	ARC	R K WASHINO	NCC 2-860	2283
54	UNIV CALIF-DAVIS	V C VANDERBILT	ARC	S USTIN	NCC 2-5134	2302
54	UNIV CALIF-S CRUZ	J S THEON	HQ	D SMITH	NAGW 4213	2710
54	UNIV OF NORTHERN COL	F SIX	MSFC	C JACKSON	NAG 8-227	3152
54	UNIV OF CONNECTICUT	M M AVERNER	HQ	S PACALS	NAGW 2088	3159
54	GEORGE WASHINGTON U	P O'NEILL	GSFC	N CHAUHAN	NAG 5-2325	3241
54	HOWARD UNIVERSITY	J D RUMMEL	HQ	D W SCHWARTMAN	NAGW 2931	3280
54	FLORIDA ATLANTIC U	L MACDOWELL	KSC	S M LIPKA	NAG10-104	3366
54	FLORIDA INST OF TECH	W M KNOTT	KSC	C R BOSTATER	NAG10-151	3376
54	UNIV OF CENTRAL FLA	W M KNOTT	KSC	B C MADSEN	NAG10-152	3439
54	CLARK ATLANTA UNIV	A CHOW	MSFC	T BAI	NAG 8-1140	3585
54	CLARK ATLANTA UNIV	K POIMBOEUF	KSC	S RODRIGUEZ-EATON	NAG10-170	3588
54	GEORGIA INST OF TECH	J D RUMMEL	HQ	D E CANFIELD	NAGW 3117	3648
54	DILLARD UNIVERSITY	F SIX	MSFC	G ROCHON	NAG 8-1010	4419
54	SO UNIV & A&M COL-BR	R LEE	KSC	R DIWAN	NAG10-171	4473
54	U OF MD CEN EN ES ST	G A SOFFEN	GSFC	S W SEAGLE	NAG 5-2042	4516
54	SE MISSOURI STATE U	F SIX	MSFC	D PROBET	NAG 8-993	5662
54	MONTANA STATE UNIV	J D RUMMEL	HQ	D M WARD	NAGW 2764	5743
54	UNIV NEVADA-DRI	J D RUMMEL	HQ	R A WHARTON	NAGW 1947	5795
54	UNIV NEW HAMP-DURHAM	M M AVERNER	HQ	R HARRISS	NAGW 1726	5864
54	PRINCETON UNIVERSITY	M M AVERNER	HQ	S A LEVIN	NAGW 3124	5962
54	DUKE UNIVERSITY	M POWELL	JSC	W GERTH	NCC 9-42	6549
54	DREXEL UNIVERSITY	F ROBERTSON	MSFC	D PERKEY	NAG 8-298	7256
54	VANDERBILT UNIVERSTY	M A SHEPANEC	HQ	M GOLDFARB	NAGW 4723	7726
54	LAMAR UNIVERSITY	D M HOY	JSC	K LI	NAG 9-696	7761
54	LAMAR UNIVERSITY	D M HOY	JSC	K LI	NAG 9-697	7762
54	PRAIRIE VIEW A&M U	J CONNOLLY	JSC	R RADHARKRISHMAN	NAG 9-778	7777

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54	TEXAS A&M UNIVERSITY	-	JSC	L R HOZZNER	NAG 9-642	7890
54	TEXAS SOUTHERN UNIV	D HENNINGER	JSC	R F WILSON	NAG 9-765	7956
54	UNIV TEXAS-AUSTIN	J D RUMMEL	HQ	E R PIANKA	NAGW 2815	8128
54	UNIV TEXAS-EL PASO	D L PETERSON	ARC	S A STARKS	NAG 2-670	8204
54	OLD DOMINION UNIV	J A BENSON	LARC	R L BEDENBAUGH	NAG 1-1551	8429
54	NORTHWEST INDIAN COL	F SIX	MSFC	D BURNS	NAG 8-1000	8705
54	WESTERN WASHINGTON U	F SIX	MSFC	D ENGELATON	NAG 8-213	8874
54	UNIV WISC-MADISON	W KNOTT	KSC	H SCHATTEN	NAG10-64	9024
54	UNIV OF WYOMING	J K ALEXANDER	HQ	W K SMITH	NAGW 2808	9080
54	U PUERTO RICO MED SC	A T JOYCE	SSC	J NORAT	NAG13-19	9086
55	UNIV CALIF-DAVIS	R D MACELROY	ARC	R C HUFFAKER	NCC 2-99	2281
55	UNIV CALIF-L ANGELES	W M KNOTT	KSC	W L BERRY	NAG10-52	2472
55	UNIV CALIF-RIVERSIDE	H ASHKENAS	JPL	O A CHADWICK	NGT 00-070-261	2509
55	COLORADO STATE UNIV	D L HENNINGER	JSC	W L LINDSAY	NAG 9-576	2804
55	COLORADO STATE UNIV	W M KNOTT	KSC	A S REDDY	NAG10-148	2811
55	UNIV OF DELAWARE	S GOLDSTEIN	JSC	D L SPARKS	NGT 00-050-871	3227
55	UNIV OF FLORIDA	W M KNOTT	KSC	R DARNELL	NAG10-133	3494
55	UNIV OF FLORIDA	W M KNOTT	KSC	R J FERL	NAG10-145	3496
55	UNIV OF FLORIDA	W CAMP	KSC	D J CANTLIFFE	NGT 00-050-968	3513
55	UNIV OF FLORIDA	W MARTIN	KSC	R L DARNELL	NGT 00-051-218	3514
55	GEORGIA INST OF TECH	J SAGER	KSC	S M MURPHY	NGT10-52603	3711
55	LA ST U&A&M COL-BRGE	W M KNOTT	KSC	M E MUSGRAVE	NAG10-139	4441
55	LA ST U&A&M COL-BRGE	B MARTIN	KSC	M E MUSGRAVE	NGT 00-051-097	4447
55	HARVARD UNIVERSITY	J SAGER	KSC	M J HULLER	NGT10-52601	5033
55	UNIV OF MASS-AMHERST	G LESANE	HQ	K A COREY	NGT 00-051-282	5314
55	MICHIGAN STATE UNIV	F C OWENS	HQ	K L POFF	NGT 00-050-791	5356
55	RUTGERS ST U-N BRNSK	M M AVERNER	HQ	H W JANES	NAGW 4109	6007
55	RUTGERS ST U-N BRNSK	R D MACELROY	ARC	H W JANES	NCA 2-664	6008
55	CORNELL UNIVERSITY	J MAZZURCO	ARC	J M DUXBURY	NAG 2-742	6230
55	CORNELL UNIVERSITY	K HENDERSON	JSC	D LANGHANS	NAG 9-849	6260
55	CORNELL UNIVERSITY	G SOFFEN	GSFC	W BRUTSAERT	NGT 00-051-211	6317
55	NEW YORK UNIVERSITY	M M AVERNER	HQ	T VOLK	NAGW 4125	6351
55	STATE U NY-STONY BRK	W M KNOTT	KSC	A D DRIKORIAN	NAG10-146	6488
55	PEMBROKE STATE UNIV	D K RUSSELL	HQ	D BASKET	NGT 00-090-269	6652
55	OREGON STATE UNIV	J ALEXANDER	HQ	R WARING	NGT 00-050-914	7195
55	UNIV TENNESSEE-KNOXV	W M KNOTT	KSC	B V CONGER	NAG10-138	7697
55	TEXAS A&M UNIVERSITY	S GOLDSTEIN	JSC	L R HOSSNER	NGT 00-051-229	7929
55	TEXAS SOUTHERN UNIV	D BARTA	JSC	O A JEJLOWO	NAG 9-712	7954
55	UNIV TEXAS-AUSTIN	R WHITE	HQ	S ROUX	NGT 00-051-065	8177
55	UTAH STATE UNIV	G C JAHNS	ARC	F B SALISBURY	NCC 2-831	8300
55	UTAH STATE UNIV	G BINGHAM	ARC	G BINGHAM	NCC 2-5039	8301
55	UTAH STATE UNIV	A C MCCORMACK	ARC	B BUGBEE	NCC 2-5075	8302
55	UNIV WISC-MADISON	R D MACELROY	ARC	TIBBITTS	NAG 2-838	8928
55	UNIV WISC-MADISON	J ALEXANDER	HQ	T TIBBITTS	NGT 00-050-956	9046
56	UNIV ALA-BIRMINGHAM	D LONGEDDY	HQ	L J DELUCAS	NAGW 4041	1084
56	SAN JOSE STATE UNIV	V SCHNEIDER	HQ	R A FOX	NAGW 4480	1827
56	SONOMA STATE UNIV	A R HARGENS	ARC	W L BODA, PH.D.	NCC 2-930	1888
56	STANFORD UNIVERSITY	R WHALEN	ARC	S A NAPEL	NCC 2-5088	1989
56	UNIV CALIF-DAVIS	N PELLIS	JSC	D J DURZAN	NAG 9-825	2266
56	UNIV CALIF-L ANGELES	J W FISCHER	ARC	V MANOUSIOUTHAKIS	NAG 2-822	2369
56	UNIV CALIF-L ANGELES	R E GRINDELAND	ARC	V R EDGERTON	NCC 2-869	2484
56	UNIV CALIF-L ANGELES	M MOORE	ARC	V R EDGERTON	NGT 00-051-175	2493
56	UNIV CALIF-L ANGELES	G LESANE	HQ	C A FULLER	NGT 00-051-417	2495
56	UNIV CALIF-SAN DIEGO	J B CHARLES	JSC	J B WEST	NAG 9-271	2556
56	UNIV CALIF-SAN DIEGO	R D RODRIGUES	ARC	A R HARGENS	NCC 2-852	2618
56	UNIV CALIF-SAN FRAN	V S SCHNEIDER	JSC	H K GENANT	NAG 9-603	2631
56	UNIV CALIF-SAN FRAN	L TAGGART	JSC	N E LANE	NAG 9-689	2632
56	UNIV CALIF-SAN FRAN	V SCHNEIDER	HQ	R K GIBBUS	NAGW 4625	2636
56	UNIV CALIF-SAN FRAN	J VERNIKOS	ARC	M F DALLMAN	NCC 2-764	2643
56	UNIV SAN FRANCISCO	F SULZMAN	HQ	E U BENTON	NAGW 4154	2729

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56	COLORADO STATE UNIV	D MORRISON	JSC	J METT	NAG 9-583	2805
56	COLORADO STATE UNIV	F M SULZMAN	HQ	J T LETT	NAGW 3957	2809
56	COLORADO STATE UNIV	G LESANE	HQ	R W GOTSHALL	NGT 00-051-419	2832
56	U COL HLTH SCI CTR	C F SAMS	JSC	R T MEEHAN	NAG 9-612	2834
56	FLORIDA INST OF TECH	B WILLIAMS	KSC	A M DHOPLE	NAG10-106	3375
56	UNIV OF FLORIDA	R J WHITE	HQ	R R GRAMS	NAGW 3570	3483
56	UNIV OF FLORIDA	I D LONG	KSC	R J MELKER	NAS10-11880	3502
56	MOREHOUSE SCHOOL MED	R BILICA	JSC	W SULLIVAN	NAG 9-547	3725
56	MOREHOUSE SCHOOL MED	C SAMS	JSC	G L SANFORD	NAG 9-644	3726
56	MOREHOUSE SCHOOL MED	B L WHITE	HQ	G L SANFORD	NCCW 83	3729
56	UNIV OF GEORGIA	S GOLDSTEIN	KSC	G A DUDLEY	NGT 00-051-199	3752
56	NORTHWESTERN UNIV	C E WADE	ARC	F W TUREK	NAG 2-774	3885
56	NORTHWESTERN UNIV	V THORNE	HQ	B W PETERSON	NAGW 4008	3916
56	IOWA STATE UNIV	N R PELLIS	JSC	C A HEATH	NAG 9-827	4276
56	UNIV OF IOWA	N PELLIS	JSC	D W MURHAMMER	NAG 9-824	4318
56	UNIV OF KENTUCKY	F M SULZMAN	HQ	C F KNAPP	NAGW 3786	4409
56	UNIV OF LOUISVILLE	C F SAMS	JSC	G SONNENFELD	NAG 9-617	4415
56	LA ST U&A&M COL-BRGE	H LANE	JSC	G A BRAY	NAG 9-714	4427
56	JOHNS HOPKINS UNIV	M D ROSS	ARC	G M MCKHANN	NAG 2-935	4527
56	JOHNS HOPKINS UNIV	J K ALEXANDER	HQ	M J SHELHAMER	NAGW 2874	4585
56	JOHNS HOPKINS UNIV	F M SULZMAN	HQ	L SCHULTHEIS	NAGW 4198	4609
56	UNIV MARYLAND-COL PK	T R BRUNEEL	HQ	N DECLARIS	NAGW 4226	4797
56	U OF MD-BALT. COUNTY	F M SULZMAN	HQ	E K BALCER-KUBICZEK	NAGW 4392	4882
56	HARVARD UNIVERSITY	A R HARGENS	ARC	S F VATNER	NCC 2-875	5004
56	HARVARD UNIVERSITY	S GOLDSTEIN	JSC	D INGBER	NGT 00-050-874	5022
56	MASS INST OF TECH	F M SULZMAN	HQ	L R YOUNG	NAGW 3958	5196
56	MASS INST OF TECH	D L TOMKO	ARC	C WALL	NGT 2-52206	5267
56	UNIV. MASS-WORCESTER	N PELLIS	JSC	P J QUESENBERRY	NAG 9-819	5279
56	UNIV. MASS-WORCESTER	N PELLIS	JSC	F M STEWART	NAG 9-820	5280
56	UNIV MICH-ANN ARBOR	L PUTCHA	JSC	G L AMIDON	NAG 9-465	5428
56	ST LOUIS UNIVERSITY	R WHITE	HQ	N C PARTRIDGE	NGT 00-051-145	5660
56	UNIV MO-COLUMBIA	R JUDAY	JSC	J KNAPP	NAG 9-711	5670
56	MONTANA STATE UNIV	R L SAUER	JSC	G A MCFETERS	NAG 9-505	5741
56	PRINCETON UNIVERSITY	R WHITE	HQ	C GROSS	NGT 00-051-140	5980
56	U OF MED&DEN OF NJ	K NEWKIRK	JSC	P STEIN	NAS 9-17276	6017
56	UNIV MED & DENT NJ	C M WINGET	ARC	R A PARISI	NAG 2-940	6019
56	UNIV OF NEW MEXICO	S M FORTNEY	JSC	M L RIEDESEL	NAG 9-401	6080
56	COLUMBIA UNIVERSITY	W E HINDS	ARC	B V WORGUL	NAG 2-965	6138
56	COLUMBIA UNIVERSITY	D MORRISON	JSC	B V WORGUL	NAG 9-529	6169
56	COLUMBIA UNIVERSITY	F M SULZMAN	HQ	B V WORGUL	NAGW 4208	6190
56	MT SINAI SCH OF MED	W E HINDS	ARC	G R HOLSTEIN	NAG 2-968	6339
56	STATE UNIV NY-BUFFAL	C M WINGET	ARC	J A KRASNEY	NAG 2-947	6439
56	UNIV OF ROCHESTER	D L TOMKO	ARC	G D PAIGE	NCA 2-618	6524
56	DUKE UNIVERSITY	M R POWELL	JSC	R D VANN	NAG 9-134	6541
56	CASE WESTERN RESERVE	C M WINGET	ARC	K P STROHL	NAG 2-941	6693
56	DREXEL UNIVERSITY	J S LING	LERC	S DUBIN VMD	NAG 3-1715	7255
56	PA ST U-HERSHEY MED	V THORNE	HQ	L I SINOWAY	NAGW 4400	7274
56	PA ST U-HERSHEY MED	D K RUSSELL	HQ	W SEVERS	NGT 00-070-327	7275
56	PENN STATE U-UNIV PK	F M SULZMAN	HQ	J A FRANGOS	NAGW 3853	7377
56	UNIV OF PENNSYLVANIA	J M WALIGORA	JSC	C J LAMBERTSEN	NAG 9-597	7439
56	UNIV OF PENNSYLVANIA	R J WHITE	HQ	C J LAMBERTSEN	NAGW 3628	7442
56	UNIV OF PENNSYLVANIA	J R GOODIN	KSC	N I BODLER	NAG10-122	7444
56	UNIV OF PITTSBURGH	L WORTHINGTON	HQ	R LAPORTE	NAGW 4489	7475
56	BENEDICT COLLEGE	F SIX	MSFC	L LOWE	NAG 8-259	7564
56	MEHARRY MEDICAL COL	J D ATKINSON	JSC	J WILSON	NAG 9-780	7644
56	MEHARRY MEDICAL COL	D K RUSSELL	HQ	S E ADUNYAH	NGT 00-070-388	7645
56	VANDERBILT UNIVERSTY	P A WHITSON	JSC	D ROBERTSON	NAG 9-563	7716
56	VANDERBILT UNIVERSTY	R H OTT	HQ	T G WANG	NAGW 1707	7717
56	VANDERBILT UNIVERSTY	F M SULZMAN	HQ	I BIAGGIONI	NAGW 3854	7723
56	VANDERBILT UNIVERSTY	F M SULZMAN	HQ	D ROBERTSON	NAGW 3873	7724

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56	VANDERBILT UNIVERSTY	S SAWYER	JSC	D ROBERTSON	NAS 9-19196	7727
56	VANDERBILT UNIVERSTY	J VERNIKOS	ARC	D M ROBERTSON	NCC 2-696	7728
56	BAYLOR COL OF MED	V THORNE	HQ	A LEBLANC	NAGW 4437	7743
56	BAYLOR COL OF MED	H LANE	JSC	C ALFREY	NAS 9-14662	7744
56	BAYLOR COL OF MED	F BOOKER	JSC	C P ALFREY	NAS 9-18024	7745
56	BAYLOR COL OF MED	D MORRISON	JSC	M Z ATASSI	NAS 9-18065	7746
56	BAYLOR COL OF MED	B LEVITAN	JSC	A LEBLANC	NAS 9-18076	7747
56	BAYLOR COL OF MED	A L PLAZA	JSC	A D LEBLANC	NAS 9-18952	7748
56	BAYLOR COL OF MED	C M BUNTIN	JSC	A LEBLANC	NAS 9-19404	7749
56	BAYLOR COL OF MED	J B HENDERSON	JSC	M E DEBAKEY	NCC 9-23	7750
56	BAYLOR COL OF MED	D FEEBACK	JSC	H LANE	NCC 9-29	7751
56	BAYLOR UNIVERSITY	L TAGGART	JSC	A LEBLANC	NAG 9-708	7752
56	TEXAS COL OSTEO MED	S M FORTNEY	JSC	P B RAVEN	NAG 9-611	7948
56	UNIV HOUSTON	R JUDAY	JSC	D S LOSHIN	NAG 9-516	7973
56	U TEX MED BRANCH-GAL	F M SULZMAN	HQ	C A STUART	NAGW 4032	8008
56	U TEX HLTH SC CTR-SA	E L DUKE	DFRC	J D LEGLER	NAG 4-13	8012
56	U TEX SW MED CTR-DA	P A WHITSON	JSC	C Y PAK	NAG 9-152	8025
56	U TEX SW MED CTR-DA	S M FORTNEY	JSC	J C BUCKEY	NAG 9-492	8026
56	U TEX SW MED CTR-DA	R J WHITE	HQ	C G BLOMQVIST	NAGW 3582	8027
56	U TEX SW MED CTR-DA	W YOUNG	JSC	G BLOMQVIST	NAS 9-16044	8028
56	U TEX SW MED CTR-DA	C M BUNTIN	JSC	G BLOMQVIST	NAS 9-18139	8029
56	U TEX SW MED CTR-DA	J CARDENAS	JSC	J BUCKEY	NAS 9-19190	8030
56	U TEX SW MED CTR-DA	S SAWYER	JSC	G BLOMQVIST	NAS 9-19203	8031
56	U TX ANDERSON CANCER	G SPAULDING	JSC	N R PELLIS	NAG 9-664	8032
56	U TEX HLTH SC CTR-HU	T T GOODWIN	JSC	P C JOHNSON	NAG 9-888	8033
56	U TEX HLTH SC CTR-HU	M POWELL	JSC	B BUTLER	NCC 9-20	8039
56	UNIV OF VIRGINIA	N PELLIS	JSC	L K CHUNG, PH.D	NAG 9-823	8524
56	VIRGINIA COMNWLTH U	J SAMOS	LARC	J L PATTERSON	NAG 1-895	8689
56	VIRGINIA COMNWLTH U	S SAWYER	JSC	D L ECKBERG	NAS 9-19219	8693
56	UNIV OF WASHINGTON	D L HARM	JSC	D E PARKER	NAG 9-703	8751
56	WEST VIRGINIA UNIV	R E GRINDELAND	ARC	W T STAUBER	NAG 2-590	8883
56	MARQUETTE UNIVERSITY	C M WINGET	ARC	R H FITTS	NAG 2-636	8908
56	UNIV WISC-MADISON	R E GRINDELAND	ARC	A C VAILAS	NAG 2-568	8925
59	ALABAMA A&M UNIV	J L RANDALL	MSFC	R KALE	NAG 8-97	1002
59	MILES COLLEGE	F SIX	MSFC	S K BASHAR	NAG 8-1115	1051
59	UNIV ALA-BIRMINGHAM	J ROGERS	GSFC	L J DELUCAS	NAG 8-1146	1076
59	NAVAJO COMMUNITY COL	F SULZMAN	HQ	A KUSLIKIS	NAGW 4236	1346
59	UNIV OF ARIZONA	A R HARGERS	ARC	C M TIPTON	NAG 2-392	1369
59	UNIV OF ARIZONA	R WHITE	HQ	C M TIPTON	NGT 00-051-092	1564
59	SAN DIEGO STATE UNIV	T K SCOTT	HQ	D L RAYLE	NAGW 4435	1803
59	SAN FRAN STATE UNIV	G C CARLE	ARC	J B ORENBERG	NCC 2-808	1813
59	SAN JOSE STATE UNIV	P X CALLAHAN	ARC	D C HOLLEY	NCC 2-5158	1871
59	STANFORD UNIVERSITY	M KLISS	ARC	G M HOMSY	NCC 2-5104	1994
59	UNIV CALIF-BERKELEY	T K SCOTT	HQ	L J FELDMAN	NAGW 4473	2162
59	UNIV CALIF-DAVIS	S M HING	ARC	C A FULLER	NAG 2-795	2249
59	UNIV CALIF-DAVIS	F SULZMAN	HQ	C A FULLER	NAGW 4390	2270
59	UNIV CALIF-DAVIS	V SCHNEIDER	HQ	D M MURAKAMI	NAGW 4552	2271
59	UNIV CALIF-DAVIS	J HINES	ARC	R L SMITH	NCC 2-5054	2296
59	UNIV CALIF-IRVINE	F SULZMAN	HQ	R E PURDY	NAGW 4415	2344
59	UNIV CALIF-IRVINE	T K SCOTT	HQ	G R ADAMS	NAGW 4471	2345
59	UNIV CALIF-L ANGELES	A L LEE	JSC	C MARKHAM	NAS 9-19400	2477
59	UNIV CALIF-L ANGELES	A R HARGENS	ARC	P S COWINGS	NCC 2-804	2482
59	UNIV CALIF-SAN DIEGO	R J WHITE	HQ	S L MILLER	NAGW 2881	2576
59	UNIV CALIF-SAN DIEGO	F SULZMAN	HQ	G K PRISK	NAGW 4372	2599
59	UNIV CALIF-SAN DIEGO	C M BUNTIN	JSC	J B WEST	NAS 9-16037	2610
59	UNIV CALIF-SAN DIEGO	V ELLERBE	JSC	J B WEST	NAS 9-18764	2611
59	UNIV CALIF-SAN DIEGO	S SAWYER	JSC	J B WEST	NAS 9-19209	2612
59	UNIV CALIF-SAN FRAN	F M SULZMAN	HQ	L H LUTZE-MANN	NAGW 4386	2635
59	UNIV CALIF-SAN FRAN	K E NEWKIRK	JSC	C D ARMAUD	NAS 9-16227	2637
59	UNIV CALIF-SAN FRAN	J VILLARREAL	JSC	D KANAS	NAS 9-19411	2639

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59	COLORADO STATE UNIV	K NEWKIRK	JSC	M J FETTMAN	NAS 9-18735	2815
59	COLORADO STATE UNIV	R A GRYMES	ARC	R W PHILLIPS	NCC 2-907	2817
59	U COL HLTH SCI CTR	J H STOKLOSA	HQ	R T MEEHAN	NAGW 3850	2835
59	UNIV COLORADO-BOLDR	W A ORAN	HQ	M LUTTGES	NAGW 1197	2960
59	UNIV COLORADO-BOLDR	G SCHMIDT	HQ	W F RAMIREZ	NAGW 4585	3037
59	GEORGE WASHINGTON U	F SULZMAN	HQ	J LOGSDON	NAGW 2498	3244
59	GEORGE WASHINGTON U	T K SCOTT	HQ	S HUANG	NAGW 4516	3247
59	GEORGE WASHINGTON U	V R THORNE	HQ	H R HERTZFELD	NAGW 4646	3248
59	GEORGETOWN UNIV	F M SULZMAN	HQ	M MOSCOVITCH	NAGW 4395	3262
59	GEORGETOWN UNIV	F M SULZMAN	HQ	T J JORGENSEN	NAGW 4396	3263
59	FLORIDA A&M UNIV	M MARGOLIS	HQ	K REDDA	NGT10-40900	3355
59	FLORIDA INST OF TECH	T K SCOTT	HQ	C E HELMSTETTER	NAGW 4503	3373
59	UNIV OF CENTRAL FLA	J SAGER	KSC	R W JOHNSON	NAG10-147	3438
59	UNIV OF FLORIDA	M AVERNER	HQ	R R NARAYANAN	NAGW 4363	3490
59	UNIV OF SO FLORIDA	D K RUSSELL	HQ	D V LIM	NGT 00-070-375	3570
59	UNIV OF WEST FLORIDA	W PALOSKI	JSC	F GUEDRY	NCC 9-37	3575
59	MOREHOUSE SCHOOL MED	J D ATKINSON	JSC	W W SULLIVAN	NAG 9-782	3727
59	WAYCROSS COLLEGE	M AVERNER	HQ	J A NIENOW	NAGW 4364	3754
59	UNIV OF CHICAGO	I D BROWNE	JSC	S R SUTTON	NAG 9-106	3967
59	INDIANA U-BLOOMINGTN	V THORNE	HQ	R L DUNCAN	NAGW 4638	4145
59	PURDUE UNIVERSITY	R J WHITE	HQ	C A MITCHELL	NAGW 2329	4189
59	UNIV OF IOWA	F SULZMAN	HQ	A K JOHNSON	NAGW 4358	4331
59	KANSAS STATE UNIV	T K SCOTT	HQ	G W CONRAD	NAGW 4491	4357
59	KANSAS STATE UNIV	W M KNOTT	KSC	J A GUIKEMA	NAG10-142	4358
59	LA ST U&A&M COL-BRGE	J HINES	ARC	M C MURPHY	NCC 2-5055	4442
59	SO UNIV & A&M COL-BR	G C FOGLEMAN	HQ	A A SULEIMAN	NAGW 4481	4470
59	TULANE UNIVERSITY	S GOLDSTEIN	JSC	F FIGUEROA	NAG 9-720	4480
59	TULANE UNIVERSITY	T W HALSTEAD	HQ	C D FERMIN	NAGW 1516	4483
59	UNIV MARYLAND-COL PK	G LESANE	HQ	R SAGDEEV	NCCW 69	4846
59	U OF MD-BALT. COUNTY	F M SULZMAN	HQ	B M RABIN	NAGW 4394	4883
59	BRANDEIS UNIVERSITY	F SULZMAN	HQ	J R LACKNER	NAGW 4374	4942
59	BRANDEIS UNIVERSITY	F SULZMAN	HQ	J R LACKNER	NAGW 4375	4943
59	BRANDEIS UNIVERSITY	V SCHNEIDER	HQ	J R LACKNER	NAGW 4733	4944
59	MASS INST OF TECH	R J WHITE	HQ	R J COHEN	NAGW 3927	5193
59	MASS INST OF TECH	R J WHITE	HQ	C M OMAN	NAGW 4333	5199
59	MASS INST OF TECH	R J WHITE	HQ	D J NEWMAN	NAGW 4336	5200
59	MASS INST OF TECH	M BUNTIN	JSC	L R YOUNG	NAS 9-18523	5224
59	MASS INST OF TECH	K NEWKIRK	JSC	L R YOUNG	NAS 9-18734	5225
59	UNIV OF MASS-LOWELL	L KURR	MSFC	D KIRSCHINGER	NAG 8-1145	5283
59	GRAND VALLEY ST UNI	F SIX	MSFC	W A CHREN	NAG 8-226	5339
59	UNIV MICH-ANN ARBOR	G C FOGLEMAN	HQ	K NAJAFI	NAGW 4494	5467
59	BEMIDJI STATE UNIV	V THORPE	HQ	A L LINDGREN	NAGW 4199	5536
59	U MINN-MNPLS-ST PAUL	J STOKLOSA	HQ	V S KOSCHEYEV	NAGW 4784	5576
59	UNIV MISS-MEDL CNTR	F SULZMAN	HQ	D E ANGELAKI	NAGW 4377	5639
59	UNIV MISS-MEDL CNTR	T K SCOTT	HQ	J I DICKMAN	NAGW 4507	5640
59	ST LOUIS UNIVERSITY	T K SCOTT	HQ	N I PATRIDGE	NAGW 4549	5657
59	WASHINGTON UNIVERSTY	J BERGSTRALH	HQ	R E ARVIDSON	NAGW 4679	5729
59	UNIV NEB-MED CNTR	F SULZMAN	HQ	K G CORNISH	NAGW 4362	5787
59	PRINCETON UNIVERSITY	S SAWYER	GSFC	T SHORES	NAS 8-19324	5971
59	STEVENS INST OF TECH	G SCHMIDT	HQ	D M DONSKOY	NAGW 4586	6015
59	U OF MED&DEN OF NJ	J VILLARREAL	JSC	T P STEIN	NAS 9-18775	6018
59	NM HIGHLANDS UNIV	J SAGER	KSC	B TAYLOR	NAG10-161	6026
59	NEW MEX ST U-LAS CR	G C FOGLEMAN	HQ	G A EICEMAN	NAGW 4558	6057
59	UNIV OF NEW MEXICO	J SAGER	KSC	G LOPEZ	NAG10-160	6085
59	COLUMBIA UNIVERSITY	C YANG	JSC	D J BRENNER	NAG 9-821	6170
59	COLUMBIA UNIVERSITY	T HALSTEAD	HQ	D J WOLGEMUTH	NAGW 1579	6173
59	COLUMBIA UNIVERSITY	T K SCOTT	HQ	W J WOLGEMUTH	NAGW 4462	6192
59	CORNELL UNIVERSITY	J SAGER	KSC	L ALBRIGHT	NGT10-52600	6327
59	STATE UNIV NY-ALBANY	C M BUNTIN	JSC	L FARHI	NAS 9-16042	6424
59	STATE U NY-STONY BRK	T HALSTEAD	HQ	A D KRICKORIAN	NAGW 1529	6470

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59	UNIV OF ROCHESTER	R J WHITE	HQ	T W CLARKSON	NAGW 2356	6520
59	DUKE UNIVERSITY	F SULZMAN	HQ	R D VANN	NAGW 4417	6546
59	EAST CAROLINA UNIV	J H STOKLOSA	HQ	D M TERRIAN	NAGW 2927	6564
59	SHAW UNIVERSITY	D K RUSSELL	HQ	L CLAYTON	NGT 00-090-257	6655
59	UNIV N CAR-CHPL HILL	W M KNOTT	KSC	T SCOTT	NAG10-144	6668
59	CASE WESTERN RESERVE	F SULZMAN	HQ	M L SMITH	NAGW 4398	6724
59	OHIO STATE UNIV	J L GOODING	JSC	P K GALLAGER	NAG 9-707	6930
59	OHIO STATE UNIV	T K SCOTT	HQ	F D SACK	NAGW 4472	6945
59	OHIO STATE UNIV	T K SCOTT	HQ	M L EVANS	NAGW 4522	6946
59	OHIO STATE UNIV	J M ORASANU	ARC	P J SMITH	NCC 2-830	6956
59	OHIO UNIVERSITY	J M ORASANU	ARC	C E MCCOY	NCC 2-827	6973
59	WRIGHT STATE UNIV	F D EVANS	HQ	S MOHLER	NGT36-24790	7120
59	OR.GRAD INST SCI&TEC	L S STONE	HQ	M PAVEL	NAG 2-931	7149
59	DREXEL UNIVERSITY	R A SCHIFFER	HQ	D R BROOKE	NAGW 3738	7258
59	PENN STATE U-UNIV PK	F SULZMAN	HQ	P R CAVANAGH	NAGW 4421	7383
59	UNIV OF PENNSYLVANIA	N PELLIS	JSC	P S AYYASWAMY	NAG 9-817	7440
59	UNIV OF PENNSYLVANIA	F SULZMAN	HQ	C J LAMBERTSEN	NAGW 4359	7443
59	PRAIRIE VIEW A&M U	R E ECKEL KAMP	JSC	J LI	NAG 9-777	7776
59	RICE UNIVERSITY	C HESS	JSC	I D WALKER	NAG 9-845	7810
59	TEXAS SOUTHERN UNIV	C T BOURLAND	JSC	S M AHMED	NAG 9-325	7951
59	TEXAS WOMANS UNIV	J MAIDA	JSC	S HASSON	NAG 9-738	7969
59	UNIV HOUSTON	G R COULTER	HQ	I WOLINSKY	NAGW 3191	7995
59	U TEX HLTH SC CTR-HU	V SCHNEIDER	HQ	B D BUTLER	NAGW 4479	8036
59	UNIV HOUSTON-CL LAKE	M POWELL	JSC	R S CHHIKARA	NAG 9-802	8046
59	UNIV OF NORTH TEXAS	D K RUSSELL	HQ	P B RAVEN	NGT 00-070-409	8052
59	UNIV TEXAS-AUSTIN	J BLOOMBERG	JSC	L D ABRAHAM	NAG 9-804	8107
59	UNIV TEXAS-AUSTIN	J H STOKLOSA	HQ	R L HELMREICH	NAGW 3781	8139
59	UNIV TEXAS-AUSTIN	V SCHNEIDER	HQ	R L HELMREICH	NAGW 4561	8151
59	UNIV TEXAS-DALLAS	K NEWKIRK	JSC	J BUCKEY	NAS 9-18736	8203
59	UNIV OF UTAH	R J WHITE	HQ	M T SHARP	NAGW 4338	8265
59	UNIV OF UTAH	R D MACELROY	ARC	J S LIGHTLY	NCC 2-851	8267
59	UNIV OF UTAH	J W FISHER	ARC	D R WESTENSKOW	NCC 2-890	8268
59	UTAH STATE UNIV	M AVERNER	HQ	B G BUGBEE	NAGW 4365	8291
59	UNIV. OF VERMONT	A S MCGEE	HQ	T KELLER	NGT 00-060-012	8314
59	E VA MED SC-HMPTN RD	W M KNOTT	KSC	D SPANGENBERG	NAG10-178	8355
59	VIRGINIA COMNWLTU	W J YOUNG	JSC	D L ECKBERG	NAS 9-16046	8692
59	UNIV OF WASHINGTON	F SULZMAN	HQ	D E PARKER	NAGW 4393	8802
59	WASHINGTON ST UNIV	R SAUER	JSC	R J BULL	NAG 9-545	8863
59	MARQUETTE UNIVERSITY	R SULZMAN	HQ	R H FITTS	NAGW 4376	8913
59	MARQUETTE UNIVERSITY	V ELLERBEE	JSC	R H FITTS	NAS 9-18768	8914
59	UNIV WISC-MILWAUKEE	M KLISS	ARC	N A DUFFIE	NCC 2-5153	9064
59	UNIV. OF WAIKATO	L S STONE	ARC	J A PERRONE	NAGW 4127	9139
61	SO ILL UNIV-CARBONDL	G LESANE	HQ	D L MOLFESE	NGT 00-051-366	3934
61	UNIV MO-COLUMBIA	T W HALSTEAD	HQ	T JONES	NAGW 3910	5673
61	VILLANOVA UNIVERSITY	R REMINGTON	ARC	C L FOLK	NCA 2-797	7493
61	BROWN UNIVERSITY	B KANKI	ARC	P LIEBERMAN	NCA 2-796	7527
62	UNIV CALIF-SAN DIEGO	K H OLSON	ARC	E L HUTCHINS	NAG 2-873	2519
62	UNIV CALIF-SAN DIEGO	E A PALMER	ARC	D A NORMAN	NCC 2-591	2615
62	UNIV OF SOUTHERN CAL	B G KANKI	ARC	J C TAYLOR	NCC 2-812	2765
62	GEORGIA INST OF TECH	J M ORASANU	ARC	K J KNOESPEL	NCC 2-933	3672
62	UNIV ILLINOIS-CHICGO	K M CORKER	ARC	L J SKITKA	NCC 2-837	4041
62	OHIO STATE UNIV	L EVANS	LARC	T E NYGREN	NGT 00-051-255	6965
62	UNIV TEXAS-AUSTIN	B G KANKI	ARC	R L HELMREICH	NCC 2-286	8158
69	CAL STATE U-HAYWARD	M M COHEN	ARC	A E STOPER	NCC 2-529	1759
69	SAN JOSE STATE UNIV	R K DISMUKES	ARC	K JORDAN	NCC 2-327	1839
69	SAN JOSE STATE UNIV	R K DISMUKES	ARC	K P JORDAN	NCC 2-798	1849
69	STANFORD UNIVERSITY	A J AHUMADA	ARC	B A WANDELL	NCC 2-307	1962
69	UNIV CALIF-BERKELEY	R B WELCH	ARC	L STARK	NCC 2-757	2189
69	UNIV CALIF-DAVIS	S M CASNER	ARC	R A HESS	NCC 2-819	2282
69	UNIV CALIF-L ANGELES	R COMSTOCK	LARC	M B STERMAN	NAG 1-1068	2360

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69	UNIV CALIF-L ANGELES	L C SHELTER	ARC	R GELMAN	NCC 2-826	2483
69	UNIV CALIF-S CRUZ	R B WELCH	ARC	B BRIDGEMAN	NCC 2-928	2717
69	UNIV COLORADO-BOLDR	M T PALMER	LARC	P G POLSON	NAG 1-1581	2849
69	CATHOLIC UNIVERSITY	A T POPE	LARC	R PARASURAMAN	NAG 1-1296	3292
69	UNIV OF MIAMI	R K DISMUKES	ARC	E L WIENER	NCC 2-843	3545
69	UNIV ILLINOIS-URBANA	S G HART	ARC	C D WICKENS	NAG 2-308	4051
69	UNIV ILLINOIS-URBANA	D C FOYLE	ARC	C D WICKENS	NAG 2-886	4057
69	U OF MD-BALT. COUNTY	J M ORASANU	ARC	C F MACKENZIE	NCC 2-921	4886
69	MASS INST OF TECH	K M CORKER	ARC	T B SHERIDAN	NAG 2-729	5054
69	MASS INST OF TECH	E M WENZEL	ARC	N I PURLACH	NCC 2-771	5232
69	NEW YORK UNIVERSITY	A T POPE	LARC	E R JOHN	NAG 1-1448	6344
69	STATE UNIV NY-BUFFAL	K H ABBOTT	LARC	V L SHALIN	NAG 1-1342	6437
69	OHIO STATE UNIV	J V LEBACQZ	ARC	C E BILLINGS	NAG 2-810	6891
69	OR.GRAD INST SCI&TEC	A J AHUMADA	ARC	M PAVEL	NCC 2-811	7150
69	OREGON STATE UNIV	K M CORKER	ARC	K H FUNK II	NAG 2-875	7157
69	CARNEGIE-MELLON UNIV	R W REWINGTON	ARC	B E JOHN	NAG 2-634	7216
69	PENN STATE U-UNIV PK	A T POPE	LARC	M J RAY	NAG 1-1441	7283
69	PENN STATE U-UNIV PK	E PRIOR	LARC	W J RAY	NGT 00-070-299	7431
69	BROWN UNIVERSITY	B KANKI	ARC	P LIEBERMAN	NCC 2-5041	7528
69	U TEX-PAN AM-EDNBURG	F MOUNT	JSC	V I ALVARADO	NAG 9-761	8016
69	UNIV OF UTAH	B KANKI	ARC	R DECKER	NCC 2-5007	8269
69	COLLEGE OF WM & MARY	A T POPE	LARC	P L DERKS	NCC 1-160	8346
69	OLD DOMINION UNIV	A T POPE	LARC	F G FREEMAN	NCC 1-176	8458
69	OLD DOMINION UNIV	E PRIOR	LARC	G COATES	NGT 00-050-986	8466
69	OLD DOMINION UNIV	A T POPE	LARC	N WILSON	NGT 1-52118	8483
69	UNIV OF VIRGINIA	M K KAISER	ARC	D PROFFITT	NCA 2-708	8549
69	UNIV OF VIRGINIA	M K KAISER	ARC	D R PROFFITT	NCC 2-925	8554
69	UNIV OF VIRGINIA	M K KAISER	ARC	D R	NCC 2-5074	8556
69	VIRGINIA POLY INST	A T POPE	LARC	H J CRAWFORD	NAG 1-1621	8633
69	VIRGINIA POLY INST	A T POPE	LARC	J L BURT	NGT 1-52107	8686
69	UNIV WISC-MADISON	E M WENZEL	ARC	F L WIGHTMAN	NCC 2-542	9038
72	CLEVELAND STATE UNIV	R C ALEXANDER	LERC	D T IANNONE	NAG 3-1705	6811
72	U. OF S.C.- COLUMBIA	C L HILL	SSC	D J COWEN	NAS13-449	7613
73	AUBURN UNIV-AUBURN	D K RUSSELL	HQ	J R HANSEN	NGT 00-070-398	1049
73	AMERICAN UNIVERSITY	R D LAUNIUS	HQ	H MC CURDY	NASW 4798	3289
75	OREGON STATE UNIV	D K RUSSELL	HQ	D BELLA	NGT 00-070-400	7197
76	NM HIGHLANDS UNIV	D RUSSELL	HQ	G SANCHEZ	NGT 00-090-237	6028
76	COLUMBIA UNIVERSITY	B L WHITE	HQ	G J LOPAZ	NAGW 4219	6191
76	TEXAS SOUTHERN UNIV	G JOHNSON	JSC	W W BARNETT	NAG 9-456	7953
79	UNIV OF FLORIDA	N MAYNARD	HQ	S SANDERSON	NAGW 4640	3491
79	UNIV NEW HAMP-DURHAM	N MAYNARD	HQ	D SKOLE	NAGW 4695	5891
79	NEW MEX ST U-LAS CR	D RUSSELL	HQ	V GHOO	NGT 00-070-341	6068
79	CASE WESTERN RESERVE	R L REAMES	LERC	D A KOLB	NCC 3-90	6729
79	CASE WESTERN RESERVE	R CLAPPER	LERC	D KOLB	NCC 3-371	6763
79	TEX A&M U-KINGSVILLE	L M ARMENDARIZ	JSC	J L KIMBALL	NAG 9-682	7947
79	UNIV TEXAS-AUSTIN	N MAYNARD	HQ	C WOOD	NAGW 4696	8152
79	UNIV OF VIRGINIA	D K RUSSELL	HQ	D BALL	NGT 00-070-365	8592
79	VIRGINIA POLY INST	P BACON	HQ	J LAPORTE	NGT 00-050-988	8665
79	VIRGINIA POLY INST	P BACON	HQ	J LAPORTE	NGT 00-051-278	8671
99	ALABAMA A&M UNIV	S MILLER	MSFC	D CRAWFORD	NAG 8-1192	1015
99	AUBURN UNIV-AUBURN	L J SMITH	MSFC	J OWEN	NAS 8-39131	1037
99	AUBURN UNIV-AUBURN	K FERNANDEZ	MSFC	H BURDG	NCC 8-69	1039
99	STILLMAN COLLEGE	B L WHITE	HQ	J WASHINGTON	NAGW 4406	1058
99	TRENHOLM ST TECH COL	P J SAKIMOTO	HQ	S C KAUSHNIK	NAGW 4030	1067
99	TUSKEGEE UNIVERSITY	S E MASSENBERG	HQ	W A HILL	NAGW 2940	1067
99	TUSKEGEE UNIVERSITY	S STOVALL-ALEXANDER	HQ	S JEELANI	NAGW 3472	1068
99	UNIV ALA-HUNTSVILLE	C R CHAPPELL	MSFC	A H YELLE	NAG 8-170	1119
99	UNIV ALA-HUNTSVILLE	J S EHMEN	MSFC	G R KARR	NAG 8-1122	1138
99	UNIV ALA-HUNTSVILLE	L J SMITH	MSFC	W W VAUGHAN	NAS 8-38606	1109
99	UNIV ALA-HUNTSVILLE	L KEFFER	HQ	J GREGORY	NCCW 57	1181

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99	UNIV ALA-HUNTSVILLE	E T SCHWARTZ	HQ	C A LUNDQUIST	NGT 00-040-010	1182
99	UNIV ALA-HUNTSVILLE	J BILBRO	MSFC	D FORK	NGT 8-52812	1200
99	UNIV ALA-TUSCALOOSA	D GALLAWAY	HQ	D W SUNAI	NAGW 3072	1222
99	UNIV ALA-TUSCALOOSA	M HENDERSON	HQ	D SUNAL	NAGW 4405	1224
99	UNIV ALA-TUSCALOOSA	D K RUSSELL	HQ	G SINGLETON	NGT 00-090-224	1233
99	UNIV ALASKA-ANCHORAG	J ROOT	HQ	J FREDERICKS	NCCW 42	1239
99	UNIV ALASKA-FAIRBNKS	E T SCHWARTZ	HQ	J G HAWKINS	NGT 00-040-022	1275
99	ARIZONA STATE UNIV	T KOSTLUK	HQ	P CHRISTENSEN	NAGW 4694	1332
99	NAVAJO COMMUNITY COL	B WHITE	HQ	T GORMAN-KEITH	NAGW 2732	1345
99	NORTHERN ARIZONA U	B L WHITE	HQ	A TANAKYOWMA	NAGW 3906	1355
99	UNIV OF ARIZONA	A J TUYAHOV	HQ	P SLATER	NAGW 896	1428
99	UNIV OF ARIZONA	J KREHBIEL	HQ	B SANDEL	NAGW 4593	1520
99	UNIV OF ARIZONA	E BARKER	HQ	J SCOTTI	NAGW 4789	1524
99	UNIV OF ARIZONA	G ASRAR	HQ	J A REAGAN	NGT 00-030-215	1548
99	UNIV OF ARIZONA	E T SCHWARTZ	HQ	E LEVY	NGT 00-040-006	1554
99	UNIV ARKANSAS-LTL RK	L KEFFER	HQ	G NORTHROP	NCCW 55	1590
99	UNIV ARKANSAS-LTL RK	E T SCHWARTZ	HQ	G M NORTHROP	NGT 00-040-036	1591
99	MT. SAN ANTONIO COLL	E L DUKE	DFRC	S ARENA	NAG 4-104	1600
99	CALIF INST OF TECH	J RAHE	HQ	Y YUNK	NAGW 4334	1697
99	CALIF INST OF TECH	D J RUSSELL	HQ	J HOPEFIELD	NGT 00-070-335	1733
99	CALIF INST OF TECH	D K RUSSELL	HQ	E ZUKOSKIN	NGT 00-090-175	1735
99	CAL POLY ST U-S LUIS	E L TU	ARC	R M CUMMINGS	NCC 2-924	1754
99	CAL STATE U-CHICO	D CONRAD	LERC	J WRIGHT	NAS 3-26127	1760
99	CAL STATE U-L ANGLES	D K RUSSELL	HQ	T J ADENIKA-MORROW	NAGW 4225	1769
99	CAL STATE U-NRTHRDGE	D K RUSSELL	HQ	S OPPENHEIMER	NGT 00-090-111	1782
99	D-Q UNIVERSITY	A HATCH	ARC	A LOUFAS	NAGW 3335	1786
99	FOOTHILL-DEANZA SYST	M A LANE	ARC	M CONWAY	NGT 2-1001	1789
99	FOOTHILL-DEANZA SYST	D L FENG-WOOD	ARC	M CONWAY	NGT 2-1002	1790
99	LOYOLA MARYMOUNT U	F SIX	MSFC	J SANNY	NAG 8-275	1795
99	NAT'L HISPANIC UNIV	M MATEU	HQ	PARKER	NAGW 4535	1796
99	NAT'L HISPANIC UNIV	E BUGNA	ARC	R PARKER	NGT 00-090-067	1797
99	SAN JOSE STATE UNIV	L A MILOV	ARC	S K GIBSON	NCA 2-555	1829
99	SANTA CLARA UNIV	L SHAWNEE	ARC	L MAHON	NAGW 4245	1874
99	STANFORD UNIVERSITY	D K RUSSELL	HQ	N LOZANO	NGT 00-090-112	2035
99	STANFORD UNIVERSITY	D K RUSSELL	HQ	N LOZANO	NGT 00-090-222	2036
99	UNIV CALIF-BERKELEY	F HASLER	GSFC	C CHRISTIAN	NAG 5-2875	2095
99	UNIV CALIF-BERKELEY	E BARKER	HQ	I DE PATER	NAGW 4796	2170
99	UNIV CALIF-BERKELEY	S R ELLIS	ARC	L STARK	NCC 2-86	2184
99	UNIV CALIF-BERKELEY	M MATEU	HQ	D GALLIGANI	NGT 00-090-039	2243
99	UNIV CALIF-DAVIS	L A POVINELLI	LERC	P HAFEZ	NAG 3-1783	2258
99	UNIV CALIF-DAVIS	R B WELCH	ARC	R B POST	NCC 2-905	2287
99	UNIV CALIF-DAVIS	D K RUSSELL	HQ	R CRIDDLE	NGT 00-090-153	2312
99	UNIV CALIF-DAVIS	D K RUSSELL	HQ	R CRIDDLE	NGT 00-090-240	2313
99	UNIV CALIF-IRVINE	D RUSSELL	HQ	F HERMES	NGT 00-090-071	2356
99	UNIV CALIF-IRVINE	D K RUSSELL	HQ	F HERMES	NGT 00-090-173	2357
99	UNIV CALIF-SAN DIEGO	E T SCHWARTZ	HQ	J ARNOLD	NGT 00-040-005	2623
99	UNIV CALIF-S BARBARA	A J TUYAHOV	HQ	J E ESTES	NAGW 1743	2656
99	UNIV OF SOUTHERN CAL	F E PENARANDA	HQ	R STARK	NASW 4680	2762
99	UNIV OF SOUTHERN CAL	G ASRAR	HQ	T DICKEY	NGT 00-030-180	2769
99	UNIV OF SOUTHERN CAL	D K RUSSELL	HQ	L YATES	NGT 00-090-142	2773
99	UNIV OF SOUTHERN CAL	D K RUSSELL	HQ	L YATES	NGT 00-090-171	2774
99	COLORADO STATE UNIV	K A SOUZA	ARC	G R COULTER	NCC 2-877	2816
99	UNIV COLORADO-BOLDR	J W KIERIER	HQ	R BYERLY	NAGW 1105	2956
99	UNIV COLORADO-BOLDR	M V PHELPS	HQ	J BENNETT	NAGW 3868	3012
99	UNIV COLORADO-BOLDR	E T SCHWARTZ	HQ	E R HANSEN	NGT 00-040-008	3087
99	UNIV OF HARTFORD	F SIX	MSFC	L NAGURNEY	NAG 8-274	3166
99	UNIV OF HARTFORD	L KEEFER	HQ	E MCDANIEL	NAGW 4463	3167
99	UNIV OF HARTFORD	E T SCHWARTZ	HQ	L S NAGURNEY	NGT 00-040-037	3168
99	YALE UNIVERSITY	C M LEE	LERC	L D PFETTERLE	NAG 3-996	3171
99	YALE UNIVERSITY	D K RUSSELL	HQ	R WEBER	NGT 00-090-113	3202

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99	UNIV OF DELAWARE	G ASRAR	HQ	J S GREENE	NGT 00-030-098	3224
99	UNIV OF DELAWARE	E T SCHWARTZ	HQ	N F NESS	NGT 00-040-023	3226
99	GALLAUDET UNIVERSITY	D MENCHEN	GSFC	NISSEN	NAG 5-2943	3231
99	GALLAUDET UNIVERSITY	D RUSSELL	HQ	G MCGAUGHRAN	NGT 00-090-057	3233
99	GALLAUDET UNIVERSITY	D RUSSELL	HQ	G MCGAUGHRAN	NGT 00-090-075	3234
99	GALLAUDET UNIVERSITY	D K RUSSELL	HQ	G MCGAUGHRAN	NGT 00-090-182	3235
99	GEORGE WASHINGTON U	E T SCHWARTZ	HQ	J M LOGSDON	NGT 00-040-056	3259
99	GEORGETOWN UNIV	S G TILFORD	HQ	R A SCRIBNER	NAGW 3202	3261
99	HOWARD UNIVERSITY	D MENCHAN	GSFC	M C WOODWARD	NAG 5-2944	3278
99	HOWARD UNIVERSITY	D MENCHAN	GSFC	M C WOODARD	NCA 5-107	3282
99	HOWARD UNIVERSITY	D V GALLAWAY	HQ	M W THOMPSON	NGT 00-010-002	3283
99	HOWARD UNIVERSITY	E T SCHWARTZ	HQ	J B HALPERN	NGT 00-040-024	3284
99	HOWARD UNIVERSITY	A S MCGEE	HQ	D N FAN	NGT 9-11060	3287
99	CATHOLIC UNIVERSITY	Y KONDO	GSFC	F C BRUHWEILER	NAG 5-3037	3306
99	UNIV DIST COLUMBIA	M S MARGOLIS	HQ	W R COLEMAN	NAGW 2216	3316
99	BETHUNE-COOKMAN COL	F SIX	MSFC	S A RAHMANI	NAG 8-991	3317
99	EDWARD WATERS COL	B WHITE	HQ	N SUNDURLINGAM	NAGW 3992	3321
99	EMBRY-RIDDLE AERO U	T M WALSH	LARC	D J GARLAND	NAG 1-1430	3322
99	EMBRY-RIDDLE AERO U	T M WALSH	LARC	J A WISE	NAG 1-1593	3323
99	FLA INTERNATIONAL U	M J LEON	ARC	C LEVY	NCC 2-917	3337
99	FLA INTERNATIONAL U	A KAHN	HQ	M A EBADIAN	NCCW 44	3338
99	FLA INTERNATIONAL U	D K RUSSELL	HQ	J NAVLAKHA	NGT 00-090-147	3339
99	FLA INTERNATIONAL U	D K RUSSELL	HQ	J NAVLAKHA	NGT 00-090-148	3340
99	FLORIDA A&M UNIV	J E BOYD	LERC	F S HUMPHRIES	NAG 3-1759	3346
99	FLORIDA A&M UNIV	S E MASSENBERG	HQ	J A JOHNSON	NAGW 2930	3348
99	FLORIDA A&M UNIV	B L WHITE	HQ	S PANCHOLY	NAGW 4653	3350
99	FLORIDA A&M UNIV	D K RUSSELL	HQ	H L WILLIAMS	NGT 00-090-107	3353
99	FLORIDA A&M UNIV	D K RUSSELL	HQ	E R TOSSIE	NGT 00-090-181	3354
99	FLORIDA ATLANTIC U	V CEVENINI	HQ	W GLENN	NAGW 2778	3365
99	FLORIDA ATLANTIC U	P ELFREY	KSC	E SKELLINGS	NAG10-108	3367
99	FLORIDA STATE UNIV	D K RUSSELL	HQ	T J HARRISON	NGT 00-090-108	3420
99	UNIV OF CENTRAL FLA	T S BARTH	KSC	W W SWART	NAG10-118	3428
99	UNIV OF CENTRAL FLA	J S BARTH	KSC	W W SWART	NAG10-119	3429
99	UNIV OF CENTRAL FLA	C DELAUNE	KSC	F GOMEZ	NAG10-120	3430
99	UNIV OF CENTRAL FLA	D K RUSSELL	HQ	J A SMITH	NGT 00-090-121	3449
99	UNIV OF CENTRAL FLA	D K RUSSELL	HQ	J SMITH	NGT 00-090-122	3450
99	UNIV OF CENTRAL FLA	D K RUSSELL	HQ	J SMITH	NGT 00-090-170	3452
99	UNIV OF FLORIDA	E RHODES	KSC	J DUFFY	NAG10-109	3493
99	UNIV OF FLORIDA	F N LIN	KSC	J F KLAUSNER	NAG10-177	3497
99	UNIV OF FLORIDA	L KEFFER	HQ	H CAMPINS	NGT 00-040-015	3509
99	UNIV OF MIAMI	D K RUSSELL	HQ	K Y FUNG	NGT 00-090-230	3547
99	UNIV OF SO FLORIDA	J K O MALLEY	KSC	R A CRANE	NAG10-76	3559
99	UNIV OF SO FLORIDA	D K RUSSELL	HQ	J O'SHIELDS	NGT 00-090-103	3573
99	CLARK ATLANTA UNIV	M S MARGOLIS	HQ	E A MINTZ	NAGW 2939	3586
99	CLARK ATLANTA UNIV	D K RUSSELL	HQ	I JENKINS	NGT 00-090-238	3590
99	GEORGIA INST OF TECH	R BAUER	LERC	D HOWARD	NAS 3-27361	3664
99	GEORGIA INST OF TECH	E T SCHWARTZ	HQ	D A PETERS	NGT 00-040-013	3677
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	M LIU	NGT 00-070-383	3698
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	L R HOWARD	NGT 00-090-080	3700
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	L R HOWARD	NGT 00-090-081	3701
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	L R HOWARD	NGT 00-090-082	3702
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	L HOWARD	NGT 00-090-167	3703
99	GEORGIA INST OF TECH	D RUSSELL	HQ	L HOWARD	NGT 00-090-199	3704
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	L HOWARD	NGT 00-090-200	3705
99	GEORGIA INST OF TECH	D RUSSELL	HQ	L HOWARD	NGT 00-090-201	3706
99	GEORGIA INST OF TECH	D K RUSSELL	HQ	L HOWARD	NGT 00-090-202	3707
99	GEORGIA SOUTHWTN COL	F SIX	MSFC	J P MANKER	NAG 8-271	3713
99	SPELMAN COLLEGE	D K RUSSELL	HQ	E FALCONER	NCCW 78	3732
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 00-090-072	3735
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 00-090-090	3736

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99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 00-090-092	3737
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 00-090-093	3738
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 00-090-094	3739
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 00-090-096	3740
99	SPELMAN COLLEGE	D K RUSSELL	HQ	E FALCONER	NGT 00-090-185	3741
99	SPELMAN COLLEGE	D K RUSSELL	HQ	E FALCONER	NGT 00-090-186	3742
99	SPELMAN COLLEGE	D RUSSELL	HQ	E FALCONER	NGT 00-090-187	3743
99	UNIV OF HAWAII-MANOA	J MCGARRY	GSFC	D HALL	NAS 5-32354	3840
99	UNIV OF HAWAII-MANOA	E T SCHWARTZ	HQ	P MOUGINIS-MARK	NGT 00-040-020	3846
99	UNIV OF IDAHO	L E LASHER	ARC	K H ATKINSON	NAG 2-6006	3863
99	UNIV OF IDAHO	M J LEON	ARC	D H ATKINSON	NCC 2-914	3867
99	UNIV OF IDAHO	L KEFFER	HQ	T ARMSTRONG	NGT 00-040-038	3870
99	DEPAUL UNIVERSITY	M V PHELPS	HQ	K MCHUGH	NAGW 4369	3872
99	ILL INST OF TECH	D RUSSELL	HQ	J ORNELAS	NGT 00-090-076	3876
99	ILL INST OF TECH	D RUSSELL	HQ	J ORNELAS	NGT 00-090-077	3877
99	ILL INST OF TECH	D RUSSELL	HQ	J ORNELAS	NGT 00-090-079	3878
99	ILL INST OF TECH	D K RUSSELL	HQ	J ORNELAS	NGT 00-090-146	3879
99	ILL INST OF TECH	D RUSSELL	HQ	J ORNELAS	NGT 00-090-179	3880
99	ILLINOIS WESLEYAN U.	F SIX	MSFC	U	NAG 8-268	3882
99	PARKS COL OF ST LU U	F SIX	MSFC	C E MONFORT	NAG 8-267	3929
99	UNIV ILLINOIS-URBANA	M M CONNORS	ARC	E DOUCHIN	NAG 2-666	4052
99	UNIV ILLINOIS-URBANA	N LAL	GSFC	M FOLK	NCC 5-106	4104
99	UNIV ILLINOIS-URBANA	G ASRAR	HQ	J W WEATHERLY	NGT 00-030-112	4105
99	UNIV ILLINOIS-URBANA	E T SCHWARTZ	HQ	K R SIVIER	NGT 00-040-017	4106
99	UNIV ILLINOIS-URBANA	D K RUSSELL	HQ	J E GIRVES	NGT 00-090-062	4121
99	WESTERN ILLINOIS U	D SIX	MSFC	L H TICHENOR	NAG 8-1207	4126
99	EARLHAM COLLEGE	F SIX	MSFC	R HIRELY	NAG 8-266	4128
99	PURDUE UNIVERSITY	E T SCHWARTZ	HQ	A F GRANDT	NGT 00-040-025	4208
99	PURDUE UNIVERSITY	D K RUSSELL	HQ	M MARTINEZ	NGT 00-090-138	4223
99	DRAKE UNIVERSITY	F SIX	MSFC	A MARSTON	NAG 8-264	4251
99	IOWA STATE UNIV	E SCHWARTZ	HQ	W J BYRD	NGT 00-040-018	4282
99	UNIV OF IOWA	J BERGSTRALH	HQ	W KURTH	NAGW 4668	4334
99	UNIV OF KANSAS	E T SCHWARTZ	HQ	D R DOWNING	NGT 00-040-026	4384
99	UNIV OF KENTUCKY	E SCHWARTZ	HQ	R HACKNEY	NGT 00-040-049	4413
99	WESTRN KENTUCKY UNIV	L KEFFER	HQ	R HACKNEY	NCCW 60	4418
99	LA ST U&A&M COL-BRGE	L KEFFER	HQ	J P WEFEL	NCCW 59	4443
99	LA ST U&A&M COL-BRGE	E T SCHWARTZ	HQ	J P WEFEL	NGT 00-040-039	4445
99	LA ST U&A&M COL-BRGE	D K RUSSELL	HQ	A STERLING	NGT 00-090-197	4452
99	LA ST U&A&M COL-BRGE	D K RUSSELL	HQ	A STERLING	NGT 00-090-198	4453
99	LOUISIANA TECH UNIV	D RUSSELL	HQ	J NELSON	NGT 00-090-195	4457
99	LOUISIANA TECH UNIV	D RUSSELL	HQ	F AKI	NGT 00-090-196	4458
99	SO UNIV & A&M COL-BR	D K RUSSELL	HQ	D BAGAYOKO	NGT 00-090-118	4475
99	SO UNIV & A&M COL-BR	D K RUSSELL	HQ	D BAGAYOKO	NGT 00-090-119	4476
99	TULANE UNIVERSITY	D K RUSSELL	HQ	S SULLIVAN	NGT 00-090-223	4487
99	UNIV OF NEW ORLEANS	F SIX	MSFC	J J HEGSETH	NAG 8-1116	4490
99	XAVIER UNIV-LA	D RUSSELL	HQ	E E EDUOK	NAGW 4628	4499
99	BOWIE STATE COLLEGE	C GOSIER	GSFC	O JACK	NCA 5-121	4511
99	BOWIE STATE COLLEGE	D K RUSSELL	HQ	N WAKIM	NCCW 79	4512
99	COPPIN STATE COLLEGE	B L WHITE	HQ	M E OWENS	NAGW 4101	4521
99	JOHNS HOPKINS UNIV	M E KICZA	HQ	S M KRIMIGIS	NAGW 4036	4604
99	JOHNS HOPKINS UNIV	E T SCHWARTZ	HQ	R C HENRY	NGT 00-040-004	4632
99	MORGAN STATE UNIV	B L WHITE	HQ	A A TEATE	NAGW 4093	4641
99	MORGAN STATE UNIV	D K RUSSELL	HQ	E DELOATCH	NGT 00-090-116	4646
99	MORGAN STATE UNIV	D K RUSSELL	HQ	E DELOATCH	NGT 00-090-117	4647
99	PRINCE GEO COM COL	D MENCHAN	GSFC	P A CUNNIFF	NGT 00-090-158	4650
99	UNIV MARYLAND-COL PK	V CEVENINI	HQ	J BARAS	NAGW 2777	4768
99	UNIV MARYLAND-COL PK	C B PILCHER	HQ	C S LIU	NAGW 4000	4790
99	UNIV MARYLAND-COL PK	M V PHELPS	HQ	R E LOPEZ	NAGW 4094	4794
99	UNIV MARYLAND-COL PK	J BERSTRALH	HQ	M F A'HEARN	NAGW 4662	4808
99	UNIV MARYLAND-COL PK	J LANDERS	HQ	H J PAIK	NASW 4885	4824

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FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
99	UNIV MARYLAND-COL PK	C TUNG	ARC	I CHOPRA	NCC 2-5160	4828
99	UNIV MARYLAND-COL PK	D K RUSSELL	HQ	M C RABENHORST	NGT 00-070-321	4867
99	UNIV MD-EASTRN SHORE	D MENCHEN	GSFC	R MULLER	NAG 5-2765	4871
99	U OF MD-BALT. COUNTY	D MENCHEN	GSFC	HIABROWSKI	NAG 5-2751	4878
99	U OF MD-BALT. COUNTY	G A SOFFEN	GSFC	C WEIDEMANN	NCC 5-91	4890
99	U OF MD-BALT. COUNTY	D K RUSSELL	HQ	E BAKER	NGT 00-090-137	4893
99	U OF MD-BALT. COUNTY	R LANG	LARC	F HRABOYSKI	NGT 00-090-155	4894
99	U OF MD-BALT. COUNTY	D K RUSSELL	HQ	E BAKER	NGT 00-090-180	4895
99	CLARK UNIVERSITY	A C JANETOS	HQ	R E KASPERSON	NGT 00-030-344	4950
99	MASS INST OF TECH	E W FERGUSON	HQ	D J NEWMAN	NAGW 4498	5203
99	MASS INST OF TECH	J LANDERS	HQ	E F CRAWLEY	NASW 4886	5229
99	MASS INST OF TECH	E T SCHWARTZ	HQ	L R YOUNGNGS	NGT 00-040-001	5250
99	MASS INST OF TECH	D HOLLAND	HQ	L W MCKNIGHT	NGT 00-051-407	5257
99	MASS INST OF TECH	D K RUSSELL	HQ	D WILSON	NGT 00-090-149	5258
99	MASS INST OF TECH	D K RUSSELL	HQ	J JACKSON	NGT 00-090-208	5259
99	MASS INST OF TECH	D K RUSSELL	HQ	J JACKSON	NGT 00-090-210	5261
99	MASS INST OF TECH	D K RUSSELL	HQ	J JACKSON	NGT 00-090-211	5262
99	MASS INST OF TECH	D K RUSSELL	HQ	J JACKSON	NGT 00-090-212	5263
99	MASS INST OF TECH	D K RUSSELL	HQ	D WILSON	NGT 00-090-213	5264
99	MASS INST OF TECH	D K RUSSELL	HQ	J JACKSON	NGT 00-090-231	5265
99	MASS INST OF TECH	D K RUSSELL	HQ	L OSGOOD	NGT 00-090-282	5266
99	TUFTS UNIVERSITY	M J LEON	ARC	C B ROGERS	NCC 2-918	5277
99	DELTA COLLEGE	M PHELPS	HQ	H ARMAN	NAGW 3208	5337
99	EASTRN MICHIGAN UNIV	D GALLAWAY	HQ	J BARNES	NAGW 3073	5338
99	MICHIGAN STATE UNIV	D K RUSSELL	HQ	M KEMP	NGT 00-070-316	5357
99	MICHIGAN TECH UNIV	J BERGSTRALH	HQ	A BORYSOW	NAGW 4566	5367
99	UNIV MICH-ANN ARBOR	J BERGSTRALH	HQ	W HARRIS	NAGW 4446	5465
99	UNIV MICH-ANN ARBOR	E BARKER	HQ	M COMBI	NAGW 4797	5471
99	UNIV MICH-ANN ARBOR	G ASRAR	HQ	L L GEZON	NGT 00-030-103	5493
99	UNIV MICH-ANN ARBOR	E T SCHWARTZ	HQ	R JOHNSON	NGT 00-040-007	5497
99	UNIV MICH-ANN ARBOR	D K RUSSELL	HQ	S GREGERMAN	NGT 00-090-207	5516
99	MANKATO STATE UNIV	F SIX	MSFC	J HAKKILA	NAG 8-192	5538
99	U MINN-MNPLS-ST PAUL	G ASRAR	HQ	R J WEBER	NGT 00-030-111	5588
99	U MINN-MNPLS-ST PAUL	E T SCHWARTZ	HQ	P W WEIBLER	NGT 00-040-027	5591
99	UNIV OF MINN-DULUTH	R ROMERO	LERC	T B HOLST	NAG 3-1367	5602
99	JACKSON STATE UNIV	B L WHITE	HQ	A MOHAMED	NAGW 4487	5606
99	JACKSON STATE UNIV	M MARGOLIS	HQ	R SULLIVAN	NGT 00-090-034	5609
99	UNIV MISS-UNIVERSITY	E T SCHWARTZ	HQ	M R DINGERSON	NGT 00-040-028	5646
99	UNIV SO MISSISSIPPI	F SIX	MSFC	D Y LOCHHEAD	NGT 8-52810	5654
99	WASHINGTON UNIVERSTY	E T SCHWARTZ	HQ	R E ARVIDSON	NGT 00-040-029	5733
99	FT. BELKNAP COLLEGE	M MATEU	HQ	A L BROCKIE	NAGW 4598	5739
99	MONTANA STATE UNIV	L KEFFER	HQ	W A HISCOCK	NCCW 58	5746
99	MONTANA STATE UNIV	E T SCHWARTZ	HQ	W A HISCOCK	NGT 00-040-041	5747
99	UNIV OF MONTANA	A C JANETOS	HQ	S RUNNING	NAGW 4511	5758
99	UNIV NEBRASKA-LINCLN	A J TUYAHOV	HQ	D C RUNDQUIST	NAGW 4574	5781
99	UNIV NEB-OMAHA	L KEFFER	HQ	B B BOWEN	NGT 00-040-051	5789
99	UNIV NEVADA-L VEGAS	E T SCHWARTZ	HQ	J V TARANIK	NGT 00-040-042	5803
99	DANIEL WEBSTER COLL.	D SIX	MSFC	D LOPEZ	NAG 8-1209	5808
99	UNIV NEW HAMP-DURHAM	E T SCHWARTZ	HQ	D S BARHETT	NGT 00-040-030	5903
99	NEW JERSEY INST TECH	F SIX	MSFC	S BAOHERI	NAG 8-1114	5909
99	PRINCETON UNIVERSITY	D K RUSSELL	HQ	P BOGUCKI	NGT 00-090-226	5983
99	STEVENS INST OF TECH	E T SCHWARTZ	HQ	D RICHMAN	NGT 00-040-032	6016
99	NM HIGHLANDS UNIV	B WHITE	HQ	H W TAYLOR	NGT 00-090-070	6027
99	NEW MEX ST U-LAS CR	E T SCHWARTZ	HQ	S HORAN	NGT 00-040-019	6064
99	NEW MEX ST U-LAS CR	D K RUSSELL	HQ	P HYNES	NGT 00-090-114	6069
99	NEW MEX ST U-LAS CR	D K RUSSELL	HQ	P HYNES	NGT 00-090-115	6070
99	NEW MEX ST U-LAS CR	D K RUSSELL	HQ	P HYNES	NGT 00-090-161	6071
99	UNIV OF NEW MEXICO	D K RUSSELL	HQ	M LEE	NGT 00-090-221	6093
99	CITY U OF NY CTY COL	F SIX	MSFC	G G GOSS	NAG 8-261	6101
99	CITY U OF NY CTY COL	M MATEU	HQ	J BARBA	NAGW 4576	6107

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FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
99	CITY U OF NY CTY COL	B WHITE	HQ	C WATKINS	NGT 00-090-056	6111
99	CLARKSON UNIVERSITY	L DUKE	DFRC	M N GLAUSER	NAG 4-103	6120
99	COLUMBIA UNIVERSITY	R STACHNIK	HQ	C MARTIN	NAGW 2593	6180
99	COLUMBIA UNIVERSITY	G ASRAR	HQ	R G FAIRBANKS	NGT 00-030-162	6206
99	CORNELL UNIVERSITY	G ASRAR	HQ	D TURCOTTE	NAGW 4702	6302
99	CORNELL UNIVERSITY	R A SCHIFFER	HQ	M B PARLANGE	NGT 00-030-283	6309
99	CORNELL UNIVERSITY	E T SCHWARTZ	HQ	P J GIERASCH	NGT 00-040-012	6310
99	CORNELL UNIVERSITY	D K RUSSELL	HQ	K PHILLIPS	NGT 00-090-228	6324
99	CORNELL UNIVERSITY	D K RUSSELL	HQ	W S GREEN	NGT 00-090-239	6325
99	CORNELL UNIVERSITY	D K RUSSELL	HQ	G E REHKUGLER	NGT 00-090-283	6326
99	HUNTER COLLEGE	D K RUSSELL	HQ	G KRASILOVSKY	NGT 00-090-151	6331
99	MANHATTAN COLLEGE	D K RUSSELL	HQ	C H STOLZE	NGT 00-090-233	6333
99	MEDGAR EVERS COLLEGE	M MATEU	HQ	L P JOHNSON	NAGW 4657	6334
99	RENSSELAER POLY-NY	S MERRITT	LERC	M D SMITH	NAG 3-1696	6375
99	RENSSELAER POLY-NY	L P JETER	MSFC	H WEIDEMEIER	NAS 8-38143	6389
99	RENSSELAER POLY-NY	T HALL	MSFC	H WIEDEMEIER	NAS 8-39723	6390
99	RENSSELAER POLY-NY	D K RUSSELL	HQ	N BURNETT	NGT 00-090-132	6402
99	RENSSELAER POLY-NY	D K RUSSELL	HQ	D TUTT	NGT 00-090-133	6403
99	RENSSELAER POLY-NY	D K RUSSELL	HQ	N BURNETT	NGT 00-090-134	6404
99	RENSSELAER POLY-NY	D RUSSELL	HQ	N BURNETT	NGT 00-090-188	6405
99	RENSSELAER POLY-NY	D K RUSSELL	HQ	N BURNETT	NGT 00-090-189	6406
99	YORK COLLEGE-NY	D RUSSELL	HQ	J DAVIS	NAGW 4211	6530
99	BENNETT COLLEGE-NC	B L WHITE	HQ	J MCCRARY	NAGW 4531	6532
99	BENNETT COLLEGE-NC	B WHITE	HQ	D OLIVER	NAGW 4634	6533
99	DUKE UNIVERSITY	D K RUSSELL	HQ	E H DOWELL	NGT 00-090-166	6563
99	FAYETTEVILLE STATE U	D K RUSSELL	HQ	L EDWARDS	NGT 00-090-124	6573
99	GUILFORD COLLEGE	F SIX	MSFC	C ALMY	NAG 8-223	6575
99	NO CAR A&T STATE U	S E MASSENBERG	LARC	L SHARPE	NAG 1-956	6577
99	NO CAR A&T STATE U	S E MASSENBERG	HQ	J C KELLY JR.	NAGW 2924	6587
99	NO CAR A&T STATE U	S E MASSENBERG	LARC	L SHARPE	NAS 1-19157	6588
99	NO CAR A&T STATE U	D K RUSSELL	HQ	L SHARPE	NGT 00-090-083	6590
99	NO CAR A&T STATE U	D K RUSSELL	HQ	L SHARPE	NGT 00-090-084	6591
99	NO CAR A&T STATE U	D K RUSSELL	HQ	L SHARPE	NGT 00-090-085	6592
99	NO CAR A&T STATE U	D K RUSSELL	HQ	L SHARPE	NGT 00-090-086	6593
99	NO CAR A&T STATE U	D K RUSSELL	HQ	L SHARPE	NGT 00-090-087	6594
99	NO CAR A&T STATE U	D K RUSSELL	HQ	L SHARPE	NGT 00-090-088	6595
99	NO CAROLINA STATE U	A C JANETOS	HQ	S KHORRAM	NGT 00-030-328	6640
99	NO CAROLINA STATE U	L KEFFER	HQ	G N WALBERG	NGT 00-040-031	6641
99	NO CAROLINA STATE U	D K RUSSELL	HQ	R TURNER	NGT 00-090-126	6647
99	NO CAROLINA STATE U	D K RUSSELL	HQ	W COLEMAN	NGT 00-090-225	6648
99	PEMBROKE STATE UNIV	D RUSSELL	HQ	G L SAMPSON	NAGW 4222	6650
99	PEMBROKE STATE UNIV	D K RUSSELL	HQ	A LOCKLEAR	NGT 00-090-136	6651
99	SHAW UNIVERSITY	B L WHITE	HQ	J H KEYS	NAGW 4617	6653
99	UNIV N CAR-CHPL HILL	D NOEUVEN	MSFC	C W CANTIN	NAG 8-1148	6661
99	WINSTON-SALEM ST U	D RUSSELL	HQ	W ATKINSON	NGT 00-090-050	6675
99	TURTLE MT. COMM. COL	B WHITE	HQ	S KARNAWAT	NAGW 3620	6681
99	UNIV OF NORTH DAKOTA	E T SCHWARTZ	HQ	C A WOOD	NGT 00-040-043	6687
99	CASE WESTERN RESERVE	G C MADZSAR	LERC	C C LIU	NAG 3-1149	6704
99	CASE WESTERN RESERVE	K A VARIS	LERC	R M MASON	NAG 3-1495	6714
99	CASE WESTERN RESERVE	W A ORAN	HQ	J F WALLACE	NAGW 1193	6723
99	CASE WESTERN RESERVE	T HALL	MSFC	D MATTHIESEN	NAS 8-39722	6727
99	CASE WESTERN RESERVE	D RUSSELL	HQ	M BOULDING	NGT 00-090-177	6789
99	CLEVELAND STATE UNIV	J E BOYD	LERC	P C CHARITY	NAG 3-1511	6805
99	CLEVELAND STATE UNIV	J E BOYD	LERC	P C CHARITY	NAG 3-1772	6814
99	CUYAHOGA COMMUNITY C	D E LACY	LERC	S K BECKER	NAG 3-1509	6860
99	CUYAHOGA COMMUNITY C	J STORTO	LERC	J L JEFFERSON	NAG 3-1666	6861
99	CUYAHOGA COMMUNITY C	R L BONDURANT	LERC	C JOHNSON	NAG 3-1711	6862
99	CUYAHOGA COMMUNITY C	R L BONDURANT	LERC	S CHAND	NCC 3-323	6865
99	KENT STATE UNIV-KENT	J STORTI	LERC	J D KELLER	NAG 3-1751	6874
99	OHIO STATE UNIV	G FOGLEMAN	HQ	D D WOODS	NAGW 4560	6947

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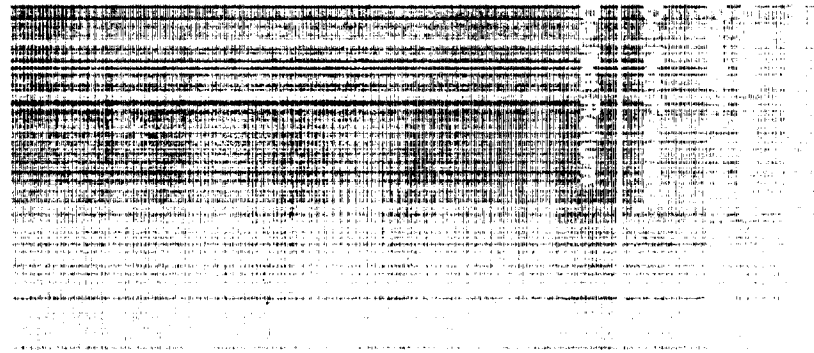
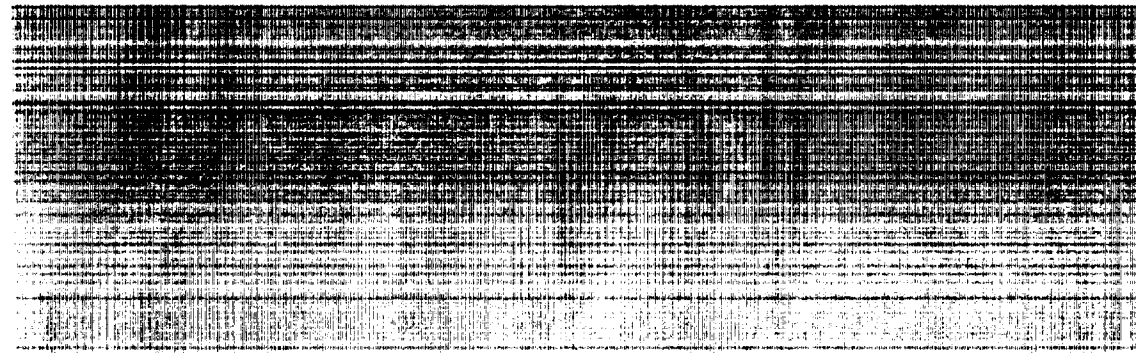
FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
99	UNIV OF AKRON	R F LAWRENCE	LERC	B MCCLAIN	NAG 3-1189	6983
99	UNIV OF CINCINNATI	R F LAWRENCE	LERC	E N PRATHER	NAG 3-1188	7023
99	UNIV OF CINCINNATI	S A MERRITT	LERC	E N PRATHER	NAG 3-1765	7033
99	UNIV OF CINCINNATI	H N SWENSON	ARC	G L SLATER	NGT 2-52205	7065
99	YOUNGSTOWN STATE U	F SIX	MSFC	J ALAM	NAG 8-1108	7121
99	OKLAHOMA STATE UNIV	L B BILBROUGH	HQ	K WIGGINS	NASW 4516	7125
99	OKLAHOMA STATE UNIV	L BILBROUGH	HQ	K WIGGINS	NASW 5043	7126
99	OKLAHOMA STATE UNIV	L BILBROUGH	HQ	K WIGGINS	NCCW 5	7129
99	UNIV OKLAHOMA-NORMAN	E T SCHWARTZ	HQ	K L HOVING	NGT 00-040-052	7143
99	OREGON STATE UNIV	E T SCHWARTZ	HQ	D R CALDWELL	NGT 00-040-033	7194
99	BRYN MAWR COLLEGE	D RUSSELL	HQ	V DONNAY	NGT 00-090-183	7209
99	CARNEGIE-MELLON UNIV	T GRAHAM	KSC	W L WHITTAKER	NAG10-95	7228
99	CARNEGIE-MELLON UNIV	D RUSSELL	HQ	R KAIL	NGT 00-090-184	7246
99	CARNEGIE-MELLON UNIV	D RUSSELL	HQ	R P KAIL	NGT 00-090-267	7247
99	LINCOLN UNIV-PA	B L WHITE	HQ	W WILLIAMS	NAGW 4544	7271
99	LINCOLN UNIV-PA	B L WHITE	HQ	J ISAAC	NAGW 4654	7272
99	PENN STATE U-UNIV PK	I S SMITH	GSFC	I R HARRISON	NAG 5-643	7315
99	PENN STATE U-UNIV PK	W A ORAN	HQ	W HYMER	NAGW 1196	7354
99	PENN STATE U-UNIV PK	L T KEFFER	HQ	R DEVON	NGT 00-040-002	7411
99	UNIV OF PENNSYLVANIA	D K RUSSELL	HQ	C INGRUM	NGT 00-090-241	7448
99	UNIV OF PITTSBURGH	F E PENARANDA	HQ	L S HUMMEL	NASW 4677	7477
99	BROWN UNIVERSITY	E T SCHWARTZ	HQ	P H SCHULTZ	NGT 00-040-034	7529
99	CLEMSON UNIV-CLEMSON	D K RUSSELL	HQ	S J LASSER	NGT 00-090-109	7591
99	CLEMSON UNIV-CLEMSON	D RUSSELL	HQ	S LASSER	NGT 00-090-192	7592
99	CLEMSON UNIV-CLEMSON	D K RUSSELL	HQ	S LASSER	NGT 00-090-193	7593
99	CLEMSON UNIV-CLEMSON	D RUSSELL	HQ	S LASSER	NGT 00-090-194	7594
99	CLEMSON UNIV-CLEMSON	D RUSSELL	HQ	S LASSER	NGT 00-090-220	7595
99	COLLEGE OF CHARLESTN	H BRINTON	HQ	C COOMBS	NAGW 4467	7599
99	COLLEGE OF CHARLESTN	E T SCHWARTZ	HQ	M W COLGAN	NGT 00-040-055	7601
99	SO CAROLINA ST UNIV.	B L WHITE	HQ	J W FULLER	NAGW 4618	7604
99	U. OF S.C.- COLUMBIA	D K RUSSELL	HQ	M SUTTON	NGT 00-090-145	7615
99	SO DAKOTA SCHL MINES	G ASRAR	HQ	S A CHRISTOPHER	NGT 00-030-142	7633
99	SO DAKOTA SCHL MINES	E T SCHWARTZ	HQ	P L SMITH	NGT 00-040-046	7634
99	SO DAKOTA SCHL MINES	D K RUSSELL	HQ	F CAMPONE	NGT 00-090-139	7635
99	SO DAKOTA STATE UNIV	F SIX	MSFC	S SCHILLER	NAG 8-258	7636
99	TENNESSEE STATE UNIV	D K RUSSELL	HQ	S DEVGAN	NGT 00-090-127	7662
99	VANDERBILT UNIVERSTY	E T SCHWARTZ	HQ	H M STRAUSS	NGT 00-040-021	7731
99	HUSTON-TILLOTSON COL	C HOSKINS	JSC	N KAY	NAG 9-775	7754
99	JARVIS CHRISTIAN COL	B L WHITE	HQ	J JOHNSON	NAGW 4523	7756
99	PRAIRIE VIEW A&M U	K KRISTEN	JSC	C L TOLLIVER	NAG 9-779	7778
99	RICE UNIVERSITY	L L GREEN	LARC	A CARLE	NCC 1-212	7824
99	RICE UNIVERSITY	D K RUSSELL	HQ	R STABELL	NGT 00-090-140	7839
99	RICE UNIVERSITY	D K RUSSELL	HQ	R STABELL	NGT 00-090-165	7840
99	RICE UNIVERSITY	D K RUSSELL	HQ	R STABELL	NGT 00-090-219	7841
99	TEXAS A&M UNIVERSITY	F E PEWARANDA	HQ	G SERA	NASW 4679	7919
99	TEXAS A&M UNIVERSITY	D K RUSSELL	HQ	W D TURNER	NGT 00-090-128	7938
99	TEXAS A&M UNIVERSITY	D RUSSELL	HQ	W D TURNER	NGT 00-090-190	7939
99	TEXAS A&M UNIVERSITY	D K RUSSELL	HQ	W D TURNER	NGT 00-090-191	7940
99	TEXAS A&M UNIVERSITY	D K RUSSELL	HQ	W D TURNER	NGT 00-090-217	7941
99	TEXAS A&M UNIVERSITY	D K RUSSELL	HQ	W D TURNER	NGT 00-090-218	7942
99	TEXAS SOUTHERN UNIV	J ATKINSON JR.	JSC	L HYMAN	NAG 9-721	7955
99	TEXAS SOUTHERN UNIV	M DIGOU	JSC	O KING	NAG 9-774	7957
99	TEXAS SOUTHMOST COLL	L ARMENDARIZ	JSC	L V LOF	NAGW 3060	7959
99	UNIV HOUSTON	G JOHNSON	JSC	J M BENNETT	NAG 9-658	7979
99	UNIV HOUSTON	D RUSSELL	HQ	G F PASKUSZ	NGT 00-090-176	8002
99	UNIV HOUSTON	D K RUSSELL	HQ	G F PASKUSZ	NGT 00-090-245	8003
99	U TEX-PAN AM-EDNBURG	D K RUSSELL	HQ	W SHOCKLEY	NGT 00-090-101	8019
99	U TEX-PAN AM-EDNBURG	D K RUSSELL	HQ	W SHOCKLEY	NGT 00-090-102	8020
99	U TEX-PAN AM-EDNBURG	D K RUSSELL	HQ	W C SHOCKLEY	NGT 00-090-162	8021
99	U TEX-PAN AM-EDNBURG	D K RUSSELL	HQ	W C SHOCKLEY	NGT 00-090-163	8022

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FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
99	U TEX-PAN AM-EDNBURG	D RUSSELL	HQ	W C SHOCKLEY	NGT 00-090-164	8023
99	UNIV HOUSTON-CL LAKE	S H GOLDSTEIN	JSC	G B FREEDMAN	NAG 9-569	8040
99	UNIV HOUSTON-CL LAKE	N G ROBERTSON	JSC	R M JONES	NAG 9-731	8042
99	UNIV TEXAS-AUSTIN	R J GUNDERMAN	LERC	W J VOGEL	NAS 3-26403	8155
99	UNIV TEXAS-AUSTIN	C S HAYWARD	ARC	G KOZMETSKY	NCC 2-787	8160
99	UNIV TEXAS-AUSTIN	W J HUFFSTETLER	JSC	G KOZMETSKY	NCC 9-22	8162
99	UNIV TEXAS-AUSTIN	E T SCHWARTZ	HQ	B D TAPLEY	NGT 00-040-003	8168
99	UNIV TEXAS-AUSTIN	D K RUSSELL	HQ	E ARMENDARIZ	NGT 00-090-097	8187
99	UNIV TEXAS-AUSTIN	D K RUSSELL	HQ	R H BISHOP	NGT 00-090-216	8188
99	UNIV TEXAS-EL PASO	M MATEU	HQ	J HERRERA	NAGW 4536	8215
99	UNIV TEXAS-EL PASO	B WHITE	HQ	A LOPEZ	NGT 00-090-044	8225
99	UNIV TEXAS-EL PASO	D K RUSSELL	HQ	A LOPEZ	NGT 00-090-125	8226
99	UNIV TEX-BROWNSVILLE	L ARMENDARIZ	JSC	M MANCILLAS	NAG 9-776	8228
99	UNIV TEX-BROWNSVILLE	L ARMENDARIZ	JSC	R C RICHARDSON	NAG 9-801	8229
99	UNIV TEXAS-S ANTONIO	D K RUSSELL	HQ	L R WILLIAMS	NGT 00-090-099	8238
99	UNIV TEXAS-S ANTONIO	D K RUSSELL	HQ	L R WILLIAMS	NGT 00-090-100	8239
99	UNIV OF UTAH	W C STAMPER	HQ	R PUGMIRE	NAGW 3687	8264
99	UNIV OF UTAH	M BALTUCK	HQ	D CHAPMAN	NGT 00-030-257	8270
99	UTAH STATE UNIV	E T SCHWARTZ	HQ	F J REDD	NGT 00-040-014	8303
99	UNIV. OF VERMONT	L KEFFER	HQ	W D LAKIN	NGT 00-040-054	8313
99	CHRISTPHR NEWPORT U	S E MASSENBERG	LARC	R H PETERSON	NAG 1-1641	8319
99	COLLEGE OF WM & MARY	T L ST. CLAIR	LARC	R A ORWOLL	NCC 1-150	8344
99	GEORGE MASON UNIV	S E MASSENBERG	LARC	C R MCINTYRE	NAGW 4233	8370
99	HAMPTON UNIVERSITY	S E MASSENBERG	LARC	P F MOLIN	NAG 1-1185	8382
99	HAMPTON UNIVERSITY	R L YANG;	LARC	N	NAS 1-19935	8389
99	NORFOLK STATE UNIV	R HATHAWAY	LARC	E WITTY	NAG 1-1705	8400
99	NORFOLK STATE UNIV	F SIX	MSFC	L MATTIX	NAG 8-257	8402
99	OLD DOMINION UNIV	E T SCHWARTZ	HQ	M L SANDY	NGT 00-040-009	8463
99	OLD DOMINION UNIV	D K RUSSELL	HQ	E J CROSS	NGT 00-090-143	8480
99	ROANOKE COLLEGE	D SIX	MSFC	A F BARGHOUTY	NAG 8-1208	8486
99	THOS NELSON COMM COL	R YANG	LARC	S FINCKE	NGT 00-023-000	8488
99	UNIV OF VIRGINIA	H BRINTON	HQ	R JOHNSON	NAGW 4310	8543
99	UNIV OF VIRGINIA	D K RUSSELL	HQ	R JENNINGS	NGT 00-090-214	8594
99	UNIV OF VIRGINIA	D K RUSSELL	HQ	R JENNINGS	NGT 00-090-232	8595
99	VIRGINIA POLY INST	E J PRIOR	LARC		NAS 1-19610	8655
99	VIRGINIA POLY INST	D K RUSSELL	HQ	J NOTTINGHAM	NGT 00-090-104	8677
99	VIRGINIA POLY INST	D K RUSSELL	HQ	J NOTTINGHAM	NGT 00-090-105	8678
99	VIRGINIA POLY INST	D K RUSSELL	HQ	J NOTTINGHAM	NGT 00-090-106	8679
99	VIRGINIA POLY INST	D RUSSELL	HQ	J NOTTINGHAM	NGT 00-090-203	8680
99	VIRGINIA POLY INST	D RUSSELL	HQ	J NOTTINGHAM	NGT 00-090-204	8681
99	VIRGINIA POLY INST	D RUSSELL	HQ	J NOTTINGHAM	NGT 00-090-205	8682
99	VIRGINIA POLY INST	D RUSSELL	HQ	J NOTTINGHAM	NGT 00-090-206	8683
99	VIRGINIA POLY INST	D K RUSSELL	HQ	J NOTTINGHAM	NGT 00-090-215	8684
99	VIRGINIA COMNWLTH U	D RUSSELL	HQ	J BERLUND	NGT 00-090-174	8694
99	UNIV OF WASHINGTON	H MIURA	ARC	E LIVNE	NAG 2-723	8715
99	UNIV OF WASHINGTON	R A BINDSCHADLER	GSFC	D P WINEBRENNER	NAG 5-3078	8743
99	UNIV OF WASHINGTON	G ASRAR	HQ	S E YUTER	NGT 00-030-100	8829
99	UNIV OF WASHINGTON	G ASRAR	HQ	D L WORTHEN	NGT 00-030-110	8830
99	UNIV OF WASHINGTON	G ASRAR	HQ	W T WELCH	NGT 00-030-123	8832
99	UNIV OF WASHINGTON	E T SCHWARTZ	HQ	G K PARKS	NGT 00-040-011	8843
99	FAIRMONT STATE COLL.	F SIX	MSFC	M S CANLON	NAG 8-255	8875
99	WEST VIRGINIA UNIV	E T SCHWARTZ	HQ	J T JUVEWICZ	NGT 00-040-047	8891
99	WEST VIRGINIA UNIV	L EVANS	LARC	J G WELLS	NGT 00-051-370	8896
99	WHEELING JESUIT COL	F DURSO	HQ	T ACKER	NAGW 2486	8900
99	WHEELING JESUIT COL	F X DURSO	HQ	T S ACKER	NAGW 3110	8901
99	WHEELING JESUIT COL	A F HASLER	GSFC	R MYERS	NCC 5-107	8902
99	WHEELING JESUIT COL	M V PHELPS	HQ	C D MILLER	NCCW 12	8903
99	WHEELING JESUIT COL	J ROOT	HQ	L W RIVERS	NCCW 14	8904
99	WHEELING JESUIT COL	J ROOT	HQ	L W RIVER	NCCW 65	8905
99	MARQUETTE UNIVERSITY	F SIX	MSFC	J RICHIE	NAG 8-256	8910

**NASA'S UNIVERSITY PROGRAM
APPENDIX - CROSS INDEX BY FIELD OF SCIENCE AND ENGINEERING**

FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	ACC NO.
99	UNIV WISC-MADISON	R A SCHIFFER	HQ	S ACKERMAN	NGT 00-030-271	9044
99	UNIV WISC-MILWAUKEE	E T SCHWARTZ	HQ	G T MOORE	NGT 00-040-035	9065
99	UNIV OF WYOMING	E T SCHWARTZ	HQ	P E JOHNSON	NGT 00-040-050	9085
99	U PUERTO RICO-MAYAGZ		HQ	B RAMINEZ	NAGW 4614	9096
99	U PUERTO RICO-MAYAGZ	E T SCHWARTZ	HQ	J G GONZALES	NGT 00-040-053	9102
99	U P'ERTO RICO-HUMACAO	B L WHITE	HQ	A M GIERBOLINI	NAGW 4619	9117
99	U PUERTO RICO-RIO PI	L KEFFER	HQ	B WINNER	NCCW 56	9121
99	UNIV OF CHILE	W J BODIN	GSFC	E DIAZ	NAS 5-1925	9128



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