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ROUND HILL TURBULENCE MEASUREMENTS

VOLUME III

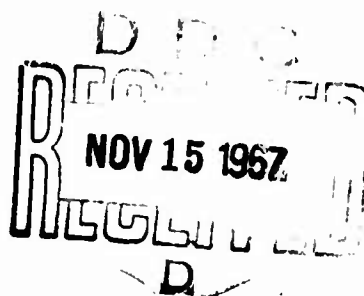
Data Tabulations for Runs 32 through 66D

By

H. E. Cramer, F. A. Record, and J. E. Tillman

December 1966

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**UNITED STATES ARMY ELECTRONICS COMMAND
ATMOSPHERIC SCIENCES LABORATORY, RESEARCH DIVISION
FORT HUACHUCA, ARIZONA**

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Meteorology Department, Massachusetts Institute
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For

Atmospheric Sciences Research Division
Atmospheric Sciences Laboratory
U. S. Army Electronics Command
Fort Huachuca, Arizona

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ABSTRACT

This volume contains the data summaries for Runs 32 through 66D. Vertical profiles of mean wind speed, air temperature, and soil temperature are presented in Section I. Section I also includes estimates of terms of the heat-budget equation. Turbulence statistics are presented in Section II. For a description of the field experiments and the data-processing procedures, reference should be made to Volume I of this series.

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FOREWORD

In December 1958, the research team at the Round Hill Field Station began a program of field measurements and data analysis dealing with characteristic properties of the energy spectra and cospectra associated with turbulent energy exchange processes within the first 100 meters of the atmosphere. The early phases of the work were devoted to the development of suitable instrumentation and experimental techniques and were carried out under Contract No. DA-36-039-SC-80209 with the U.S. Army Electronic Proving Ground at Fort Huachuca, Arizona. The instrumentation comprised a fast-response system for the simultaneous measurement of fluctuations in wind-velocity components and air-temperature, and a slow response system for supporting meteorological measurements. Measurements of the fluctuations in refractive index were also made during several experiments. During the first phase of the field program, approximately 100 experiments were carried out on a 40-m tower located in relatively flat terrain. During the second phase of the program, 32 experiments were carried out on a 91-m tower located in a wooded area. Processing of the fast-response measurements was begun by the Meteorology Department at Fort Huachuca and continued by the Massachusetts Institute of Technology under Grant No. DA-AMC-28-043-65-G10.

The purpose of this series of five volumes is to furnish a comprehensive listing of spectral and cospectral calculations and of supporting meteorological data obtained from 76 selected field experiments. An analysis of much of the experimental data was carried out under Grant No. DA-AMC-36-039-64-G1 and will be published separately in a final report.

Publication of these volumes was carried out by the Atmospheric Sciences Research Division at Fort Huachuca under the direction of Mr. Thomas H. Pries. The authors wish to express their appreciation to Mr. Pries for his assistance in the preparation of this series. They also wish to acknowledge the valuable contributions and support of Mr. J.F. Appleby and Mr. W.D. Ohmstede of the Atmospheric Sciences Research Division throughout the research program.

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SECTION I

VERTICAL PROFILES OF MEAN WIND SPEED, AIR TEMPERATURE, AND SOIL TEMPERATURE; HEAT-BUDGET ESTIMATES AT EARTH-AIR INTERFACE

Vertical profiles of mean wind speed and air temperature to a height of 40 m are presented in Tables 1 and 2, respectively. Wind speed measurements were made with cup anemometers at heights of 0.25, 0.5, 1, 2, 4, 8, 16, 32, and 40 m; wet- and dry-bulb temperatures were observed at each anemometer level, and also at 0.12 m. Soil temperatures are presented in Table 3. Soil thermometers were installed at the two ends of a north-south 40-m sampling line at depths of 1.6, 3.1, 6.2, 12.5, 25.0, 50.0, and 100 cm. Five separate elements 5 cm in length were inserted along the sampling line to provide an integrated temperature of the 0 to -5 cm layer. The profiles of soil temperature are frequently incomplete due to the failure of individual thermometers:

Table 4 presents estimates of the terms of the heat-budget equation

$$R_o + S_o + Q_o + E_o = 0$$

at the earth-air interface. Estimates were obtained by the following procedures:

1. R_o , the net effect of all radiative processes, was assumed equivalent to the net radiation measured by the Beckman-Whitley and/or Fritschen net-radiometers.
2. S_o , the vertical flux of heat in the soil, was determined from the heat flux through the -5 cm level, the change in temperature of the 0 to -5 cm layer of the soil, and the heat capacity of the soil within the 0 to -5 cm layer. The heat flux through the -5 cm level was measured by three Beckman-Whitley heat plates equally spaced along the sampling line.
3. Q_o , the vertical flux of heat in the atmosphere, was assumed equal to the heat flux determined from the 16-m fast-response temperature and wind data.
4. E_o , the heat equivalent of the evaporative flux of moisture in the atmosphere, was obtained by determining the flux required to balance the heat-budget equation.

TABLE 1
VERTICAL PROFILES OF MEAN WIND SPEED*

Run No.	32	33	34	38	41
Date	10-5-61	10-5-61	10-5-61	10-16-61	10-16-61
Time (EST)	0834-0934	1050-1150	1339-1439	1209-1315	2045-2145
Height (m)	\bar{U} (m sec ⁻¹)				
40	6.67	5.81	5.05	6.48	6.61
32	6.63	5.79	4.85	6.27	5.97
16	6.27	5.54	4.70	6.12	5.03
8	5.79	5.10	4.38	5.66	4.20
4	5.28	4.74	4.03	5.26	3.76
2	4.87	4.37	3.75	4.77	3.26
1	4.37	3.93	3.36	4.29	2.90
0.50	m	m	m	m	m
0.25	3.26	3.01	2.46	3.20	2.35

Run No.	43	47	63A	63B	64A
Date	10-17-61	10-25-61	5-7-62	5-7-62	5-9-62
Time (EST)	1040-1146	1215-1331	1037-1153	1207-1323	0941-1057
Height (m)	\bar{U} (m sec ⁻¹)				
40	7.77**	6.68**	8.74	8.86	8.90
32	6.98**	6.35	8.46	8.67	8.76
16	6.85	6.41	8.08	8.27	8.33
8	6.65	6.14	7.57	7.72	7.74
4	6.07	5.72	7.03	7.08	7.15
2	5.15	4.74	6.41	6.53	6.51
1	4.47	4.02	5.74	5.83	5.82
0.50	3.76	3.46	5.13	5.23	5.10
0.25	3.28	3.07	4.12	4.20	4.04

* Values at 0.25 m and 0.5 m were measured with low-inertia cup anemometers; standard large cup anemometers were used at all other heights.

** Anemometer exposure poor for prevailing wind direction.

TABLE 1 (Continued)

Run No.	64B	65A	65B	66A	66B
Date	5-9-62	5-9-62	5-9-62	5-9-62	5-9-62
Time (EST)	1103-1216	1304-1420	1434-1550	1650-1806	1818-1934
<u>Height (m)</u>	<u>\bar{U} (m sec⁻¹)</u>				
40	10.25	9.64	10.24	7.99	7.03
32	10.16	9.54	10.18	7.94	6.84
16	9.62	9.10	9.62	7.43	6.25
8	8.90	8.45	8.88	6.80	5.56
4	8.30	7.76	8.16	6.22	5.05
2	7.59	7.06	7.41	5.64	4.56
1	6.66	6.13	6.61	5.02	4.03
0.50	5.87	5.56	5.76	4.26	3.42
0.25	4.65	4.40	4.51	3.36	2.68
Run No.	66C	66D			
Date	5-9-62	5-9-62			
Time (EST)	1948-2104	2118-2234			
<u>Height (m)</u>	<u>\bar{U} (m sec⁻¹)</u>				
40	5.45	5.93			
32	4.88	5.22			
16	3.65	4.01			
8	2.92	3.28			
4	2.54	2.88			
2	2.21	2.50			
1	1.84	2.13			
0.50	1.17	1.51			
0.25	0.83	1.16			

TABLE 2

VERTICAL PROFILES OF DRY-BULB TEMPERATURES T_D
AND WET-BULB TEMPERATURES T_W^*

Run No.	32	33	34	38	41
Date	10-5-61	10-5-61	10-5-61	10-16-61	10-16-61
Time (EST)	0834-0934	1050-1150	1339-1439	1209-1315	2045-2145
Height (m)	T_D, T_W (C)				
40	7.9(4.1)	10.9(5.7)	13.5(7.7)	8.0(3.1)	6.6(3.0)
32	8.0(4.1)	11.0(m)	13.6(m)	8.0(3.1)	6.5(3.0)
16	8.1(4.3)	11.2(5.8)	13.7(7.7)	8.2(3.2)	6.4(3.0)
8	8.2(4.4)	11.3(5.9)	13.8(7.7)	8.4(3.3)	6.2(2.9)
4	8.4(4.5)	11.5(6.0)	13.9(7.8)	8.7(3.4)	6.0(2.7)
2	8.6(4.7)	11.8(6.4)	14.2(8.1)	9.0(3.8)	5.7(2.7)
1	8.9(5.1)	12.3(6.9)	14.5(8.5)	9.4(4.2)	5.5(2.6)
0.50	9.1(5.3)	12.7(7.4)	14.8(8.9)	9.8(4.7)	5.3(2.6)
0.25	9.2(5.7)	13.0(7.9)	15.2(9.3)	10.0(5.1)	5.0(2.5)
0.12	9.3(5.8)	13.2(8.1)	15.3(9.5)	10.5(5.5)	4.8(2.5)
Run No.	43	47	63A	63B	64A
Date	10-17-61	10-25-61	5-7-62	5-7-62	5-9-62
Time (EST)	1040-1146	1215-1331	1037-1153	1207-1323	0941-1057
Height (m)	T_D, T_W (C)				
40	11.0(7.1)	11.1(8.6)	15.9(m)	16.8(8.6)	10.6(3.3)
32	11.1(6.9)	11.1(8.4)	16.1(m)	17.0(8.8)	10.8(m)
16	11.2(7.2)	11.2(8.7)	16.4(m)	17.3(m)	11.0(m)
8	11.3(7.4)	11.3(8.8)	16.5(8.7)	17.4(m)	11.3(3.4)
4	11.6(7.4)	11.5(8.8)	16.9(8.9)	17.7(8.5)	11.6(3.6)
2	12.0(8.0)	12.0(9.5)	17.4(9.0)	18.0(8.6)	12.1(4.0)
1	12.5(8.3)	12.5(9.8)	17.8(m)	18.6(m)	12.7(m)
0.50	12.9(8.6)	13.0(10.1)	18.4(9.9)	19.1(9.5)	13.2(5.1)
0.25	13.3(9.1)	13.4(10.5)	19.0(10.6)	19.8(10.1)	13.7(5.5)
0.12	13.3(8.9)	13.4(10.4)	19.4(m)	20.3(10.3)	14.1(5.6)

*Wet-bulb temperatures are enclosed in parentheses and missing values are denoted by m.

TABLE 2 (Continued)

Run No.	64B	65A	65B	66A	66B
Date	5-9-62	5-9-62	5-9-62	5-9-62	5-9-62
Time (EST)	1103-1216	1304-1420	1434-1550	1650-1806	1818-1934
Height (m)	T_D, T_W (C)				
40	12.0(4.2)	13.7(5.0)	14.5(5.7)	14.5(5.8)	13.2(5.0)
32	12.2(4.2)	13.9(5.2)	14.8(5.7)	14.7(m)	13.2(4.8)
16	12.5(m)	14.2(m)	15.0(m)	14.7(m)	13.2(m)
8	12.7(4.1)	14.3(4.9)	15.0(5.2)	14.8(5.2)	13.2(4.5)
4	13.0(4.2)	14.7(5.1)	15.2(5.2)	14.8(5.1)	13.0(4.2)
2	13.4(4.4)	15.0(5.3)	15.5(5.5)	14.8(5.2)	12.8(4.2)
1	14.0(m)	15.5(m)	15.9(m)	14.8(m)	12.6(m)
0.50	14.6(5.5)	16.1(6.2)	16.3(6.2)	14.8(5.4)	12.3(4.0)
0.25	15.3(6.0)	16.7(6.8)	16.8(6.8)	14.8(5.6)	12.1(4.0)
0.12	15.6(6.1)	17.3(6.9)	17.1(6.8)	14.9(5.8)	11.9(3.8)
Run No.	66C	66D			
Date	5-9-62	5-9-62			
Time (EST)	1948-2104	2118-2234			
Height (m)	T_D, T_W (C)				
40	11.7(4.2)	10.9(3.9)			
32	11.5(4.4)	10.8(4.1)			
16	11.2(m)	10.5(m)			
8	10.9(3.4)	10.2(3.1)			
4	10.5(3.2)	9.9(2.9)			
2	9.9(2.9)	9.4(2.8)			
1	9.0(m)	8.8(m)			
0.50	8.0(2.1)	8.3(2.4)			
0.25	7.3(1.8)	7.9(2.3)			
0.12	6.9(1.6)	7.6(2.0)			

TABLE 3
VERTICAL PROFILES OF SOIL TEMPERATURE

Run No.	32		33		34	
Date	10-5-61	10-5-61	10-5-61	10-5-61	10-5-61	10-5-61
Time (EST)	0827	0936	1048	1151	1333	1441
	<u>South Position</u>					
<u>Depth (cm)</u>	<u>T (C)</u>					
1.6	11.6	14.0	18.3	19.5	22.2	20.1
3.1	12.2	14.5	19.1	20.1	22.0	19.5
6.2	11.3	13.5	16.2	18.1	20.1	18.7
12.5	11.4	12.4	13.5	15.0	17.3	17.2
25.0	13.0	13.2	13.6	14.2	16.0	16.0
50.0	17.8	17.6	17.5	17.4	m	m
100.0	18.2	18.1	18.1	18.1	m	m
	<u>North Position</u>					
<u>Depth (cm)</u>	<u>T (C)</u>					
1.6	11.0	12.4	14.3	15.8	18.0	17.0
3.1	11.3	12.5	14.4	16.0	18.1	17.5
6.2	12.2	12.5	13.5	14.5	16.6	16.3
12.5	13.4	13.5	13.8	14.3	16.0	15.7
25.0	16.0	15.8	15.6	15.6	16.4	15.8
50.0	18.0	17.9	17.8	17.7	m	17.5
100.0	17.4	17.4	17.4	17.4	m	m
	<u>Average Value for Layer</u>					
	<u>T (C)</u>					
0-5 cm	10.7	12.4	14.0	15.6	17.8	16.8

TABLE 3 (Continued)

Run No.	38		41		43	
Date	10-16-61	10-16-61	10-16-61	10-16-61	10-17-61	10-17-61
Time (EST)	1151	1316	2040	2145	1017	1204
	<u>South Position</u>					
<u>Depth (cm)</u>	<u>T (C)</u>					
1.6	16.0	16.5	5.7	5.5	15.3	17.5
3.1	16.0	16.2	5.3	5.1	15.4	16.9
6.2	14.4	14.8	7.1	6.8	12.7	14.9
12.5	11.8	12.7	10.2	9.9	10.0	12.1
25.0	11.1	11.7	11.9	11.7	9.8	10.8
50.0	m	m	m	m	m	m
100.0	m	m	m	m	m	m
	<u>North Position</u>					
<u>Depth (cm)</u>	<u>T (C)</u>					
1.6	12.8	13.2	8.5	8.4	11.7	13.7
3.1	13.0	13.6	9.0	8.9	11.3	13.6
6.2	11.8	12.5	10.9	10.7	10.5	11.9
12.5	11.7	12.2	11.9	11.8	10.6	11.3
25.0	13.2	13.1	13.6	13.7	12.3	12.2
50.0	16.2	15.8	15.5	15.7	15.1	14.8
100.0	m	m	m	m	m	m
	<u>Average Value for Layer</u>					
	<u>T (C)</u>					
0-5 cm	12.2	12.8	7.8	7.6	10.6	13.0

TABLE 3 (Continued)

Run No.	47		63A	63B	
Date	10-25-61	10-25-61	5-7-62	5-7-62	5-7-62
Time (EST)	1158	1408	1027	1208	1331
<u>South Position</u>					
<u>Depth (cm)</u>			<u>T (C)</u>		
1.6	19.6	17.6	24.1	m	m
3.1	19.1	17.2	21.0	23.4	24.6
6.2	16.9	16.3	17.9	20.7	22.3
12.5	13.5	14.4	m	m	m
25.0	11.8	12.8	11.7	12.9	14.1
50.0	m	m	m	m	m
100.0	m	m	m	m	m
<u>North Position</u>					
<u>Depth (cm)</u>			<u>T (C)</u>		
1.6	15.0	14.8	16.3	18.7	19.6
3.1	14.7	14.9	15.9	18.5	19.5
6.2	12.7	13.5	12.6	14.5	15.7
12.5	11.8	12.5	11.3	12.4	13.4
25.0	12.1	12.0	10.6	10.8	11.1
50.0	13.6	13.2	10.2	10.2	10.2
100.0	m	m	m	m	m
<u>Average Value for Layer</u>					
			<u>T (C)</u>		
0-5 cm	13.5	13.5	16.9	19.5	20.5

TABLE 3 (Continued)

Run No.	64A		64B	65A		65B
Date	5-9-62	5-9-62	5-9-62	5-9-62	5-9-62	5-9-62
Time (EST)	0932	1107	1217	1251	1430	1556
<u>South Position</u>						
<u>Depth (cm)</u>	<u>T (C)</u>					
1.6	19.4	22.8	25.0	m	m	22.3
3.1	16.6	19.5	21.5	22.1	22.6	21.0
6.2	14.0	16.9	19.3	19.9	20.9	20.0
12.5	m	m	m	12.2	13.6	14.5
25.0	9.8	10.9	11.9	m	m	m
50.0	m	m	m	m	m	m
100.0	m	m	m	m	m	m
<u>North Position</u>						
<u>Depth (cm)</u>	<u>T (C)</u>					
1.6	11.7	15.3	16.6	17.2	17.4	16.1
3.1	11.8	15.1	16.7	17.3	17.8	16.7
6.2	9.6	11.4	12.9	13.3	14.5	14.6
12.5	9.2	10.1	11.1	11.4	12.5	12.9
25.0	9.7	9.8	9.9	10.2	10.2	10.2
50.0	10.3	10.2	10.2	m	m	m
100.0	m	m	m	m	m	m
<u>Average Value for Layer</u>						
	<u>T (C)</u>					
0-5 cm	12.8	16.4	18.0	18.5	18.6	17.3

TABLE 3 (Continued)

Run No.	66A	66B	66C	66D
Date	5-9-62	5-9-62	5-9-62	5-9-62
Time (EST)	1637	1816	1948	2242

<u>Depth (cm)</u>	<u>South Position</u>				
	<u>T (C)</u>				
1.6	20.4	15.8	12.5	10.0	8.7
3.1	19.7	16.0	13.2	10.8	9.6
6.2	19.2	16.4	14.1	12.0	10.7
12.5	14.7	14.9	14.5	13.9	13.2
25.0	m	m	m	m	m
50.0	m	m	m	m	m
100.0	m	m	m	m	m

<u>Depth (cm)</u>	<u>North Position</u>				
	<u>T (C)</u>				
1.6	15.1	12.6	10.6	9.1	8.3
3.1	15.8	13.5	11.5	10.0	9.1
6.2	14.4	13.4	12.2	11.1	10.3
12.5	13.0	12.8	12.3	11.6	11.0
25.0	10.1	10.1	10.2	10.3	10.3
50.0	m	m	m	m	m
100.0	m	m	m	m	m

<u>Average Value for Layer</u>	<u>T (C)</u>				
	0-5 cm	16.4	13.8	11.7	10.0

TABLE 4
ESTIMATES OF HEAT-BUDGET CONSTITUENTS AT THE EARTH-AIR INTERFACE*

Run No.	Date	Time (EST)	R _o	S _o	Q _o	E _o
(cal cm ⁻² min ⁻¹)						
32	10-5-61	0834-0934	-0.53	0.07	0.22	0.24
33	10-5-61	1050-1150	-0.76	0.11	0.20	0.45
34	10-5-61	1339-1439	-0.50	0.07	0.14	0.29
38	10-16-61	1209-1315	-0.61	0.06	0.28	0.27
41	10-16-61	2045-2145	0.16	-0.04	-0.04	-0.08
43	10-17-61	1040-1146	-0.58	0.10	0.06	0.42
47	10-25-61	1215-1331	-0.47	0.05	0.03	0.39
63A	5-7-62	1037-1153	-1.00	0.13	0.29	0.58
63B	5-7-62	1207-1323	-0.98	0.11	0.29	0.58
64A	5-9-62	0941-1057	-0.98	0.13	0.23	0.62
64B	5-9-62	1103-1216	-1.02	0.12	0.36	0.54
65A	5-9-62	1304-1420	-0.83	0.07	0.32	0.44
65B	5-9-62	1434-1550	-0.56	0.02	0.23	0.31
66A	5-9-62	1650-1806	-0.04	-0.03	0.03	0.04
66B	5-9-62	1818-1934	0.18	-0.06	-0.08	-0.04
66C	5-9-62	1948-2104	0.16	-0.06	0	-0.10
66D	5-9-62	2118-2234	0.16	-0.05	-0.02	-0.09

*The minus sign denotes a flux of energy toward the interface.

SECTION II

TURBULENCE STATISTICS

A. EXPLANATION OF DATA-PRESENTATION FORMAT

Turbulence statistics are tabulated separately for each run and for each level at which data are available. Throughout the tabulation U, V, and W refer to the orthogonal components of the wind velocity and T refers to temperature. The letter E refers to the total kinetic energy defined by the expression $E = 1/2(U^2 + V^2 + W^2)$. Units of velocity are $m \text{ sec}^{-1}$ and the unit of temperature is deg C. Covariances and cospectra are identified by the appropriate symbols of the two variables separated by a comma, except that the covariance between the vertical component of the wind velocity and the total kinetic energy is identified simply by WE. The data presentation follows a standard form which is explained below.

1. Identification of Experiment

The run number, measurement height, date, and the time duration of each experiment are listed at the top of the first page of each data set.

2. Gross Statistics

a. Summary Information

Summary information is presented in three vertical columns. The first column gives the amount of cloud cover in tenths followed by the cloud type, the thermal stratification, and the air trajectory (land or water) during the experiment. The second vertical column lists the mean wind speed and the standard deviations of azimuth angle and elevation angle. The third column presents the mean azimuth wind direction and the solar and net radiation in Langley's min^{-1} .

b. Variances

Variances are presented for the three components of the wind velocity and for air temperature. Identification of the variables for which the variances and other gross statistics have been calculated appears in the column at the left. Variances identified by E are one-half the sum of the variances of the three velocity components.

The variances for U, V, W, and T are presented for the four data sets indicated by the column headings below the summary information. These are:

- . With No Running Mean - refers to the complete data set.
- . With 301 Point Running Mean - data have been differenced with respect to a 301-point running mean.
- . With 61 Point Running Mean - data have been differenced with respect to a 61-point running mean.
- . 301 Pt Run Mean 10 Pt Block Avg - the 301-point running mean data set described above has been reduced by 10-point sequential block averaging.

The variance for E is presented for the first three of these data sets only.

c. Gustiness Ratios

The gustiness ratios for the three orthogonal components of the wind velocity are defined as σ_u/\bar{U} , σ_v/\bar{U} , σ_w/\bar{U} where σ is the standard deviation of the distribution and \bar{U} is the mean wind speed. Gustiness ratios are presented for each of the four data sets described above.

d. Covariances

The covariances U,V; U,W; U,T; V,W; V,T and W,T are presented for each of the four data sets. The covariance WE is presented for the first three data sets only.

e. Normalized Covariances

The normalized covariances for U,V; U,W; U,T; V,W; V,T and W,T were calculated by dividing the covariances by the product of the standard deviations of the two variates.

3. Spectral and Cospectral Estimates

Spectral and cospectral calculations were carried out using the last two data sets described in Section 2b above for variables U, V, W, and T. The results are presented in the following order:

a. 61 Point Running Mean, No Block Averaging

- Normalized cospectrum covariance
- Normalized quadrature covariance

Normalized autocovariance
Cospectrum
Quadrature spectrum
Power spectrum

b. 301 Point Running Mean, 10 Point Block Average

Normalized cospectrum covariance
Cospectrum
Normalized quadrature covariance
Quadrature spectrum
Normalized autocovariance
Power spectrum

c. Coherence

Estimates of the coherence between levels are presented for each of the three wind velocity components and for temperature. These estimates include quadrature and are presented for both the 61 Point Running Mean, No Block Averaging and the 301 Point Running Mean, 10 Point Block Average data sets. Tabulation of the coherence estimates follows the power spectrum estimates for the second level.

Cospectrum covariance, quadrature covariance, and autocovariance are tabulated against lag number M. Cospectrum covariance and quadrature covariance estimates have been normalized by dividing by the product of the standard deviations of the two variables; autocovariance estimates have been normalized by dividing by the variance of the data set. Normalization factors head each column.

Cospectrum, quadrature spectrum, power spectrum, and coherence estimates are tabulated against K number. Tabulated values are to be multiplied by the power of 10 indicated in the column heading. Estimates have been combined within various frequency bands as indicated by K numbers at the left. Table 5 presents the relationship between these K numbers and the central frequencies of the individual bands.

TABLE 5

ADJUSTED FREQUENCY BANDS FOR SPECTRAL AND COSPECTRAL ESTIMATES

60-LAG ANALYSIS			
K	f_k (cycles sec ⁻¹)	K	f_k (cycles sec ⁻¹)
1	0.0069	9-11	0.0694
2	0.0139	12-15	0.0937
3	0.0208	16-20	0.1250
4	0.0278	21-27	0.1667
5	0.0347	28-36	0.2222
6	0.0417	37-47	0.2917
7-8	0.0521	48-60	0.3750
30-LAG ANALYSIS			
K	f_k (cycles sec ⁻¹)	K	f_k (cycles sec ⁻¹)
1	0.0014	7	0.0097
2	0.0028	8	0.0111
3	0.0042	9-11	0.0139
4	0.0056	12-14	0.0181
5	0.0069	15-21	0.0250
6	0.0083	22-30	0.0361

B. PRESENTATION OF STATISTICS

The remainder of this volume contains the tabulation of the turbulence statistics for Runs 32 through 66D.

RUN NO. 32 16M 10-05-61 0834-0934 E.T

GROSS STATISTICS

CLEAR	WIND SPEED	6.27 M/SEC	WIND DIRECTION	316 DEG
UNSTABLE	SIGMA A	13.6 DEG	SOLAR RADIATION	0.87
LAND	SIGMA E	8.1 DEG	NET RADIATION	0.53

	WITH NO	WITH 301 POINT	WITH 61 POINT	301 PT RUN MEAN
	RUNNING MEAN	RUNNING MEAN	RUNNING MEAN	10 PT BLOCK AVG

VARIANCES

U	0.24313E 01	0.16236E 01	0.76872E 00	0.12029E 01
V	0.26094E 01	0.17949E 01	0.10272E 01	0.13099E 01
W	0.69725E 00	0.68126E 00	0.58848E 00	0.31574E-00
T	0.31534E-00	0.68535E-01	0.28995E-01	0.54295E-01
E	0.28690E 01	0.20500E 01	0.11922E 01	

GUSTINESS RATIOS

U	0.24869	0.20322	0.13983	0.17492
V	0.25763	0.21368	0.16164	0.18254
W	0.13318	0.13164	0.12235	0.08962

COVARIANCES

U,V	0.29944E-00	0.22237E-00	-0.13754E-01	0.24503E-00
U,W	-0.41852E-00	-0.39147E-00	-0.21454E-00	-0.28877E-00
U,T	-0.56217E 00	-0.20241E-00	-0.57742E-01	-0.17690E-00
V,W	0.53905E-01	0.88053E-02	0.62330E-01	-0.72284E-03
V,T	-0.17610E-01	-0.80604E-01	-0.60883E-02	-0.76198E-01
W,T	0.12685E-00	0.99983E-01	0.65516E-01	0.68606E-01
WE	-0.29798E-02	0.33886E-01	-0.85494E-02	

NORMALIZED COVARIANCES

U,V	0.11888	0.13026	-0.01548	0.19520
U,W	-0.32144	-0.37223	-0.31897	-0.46856
U,T	-0.64204	-0.60679	-0.38676	-0.69221
V,W	0.03996	0.00796	0.08017	-0.00112
V,T	-0.01941	-0.22982	-0.03528	-0.28572
W,T	0.27053	0.46272	0.50155	0.52398

RUN NO. 32 16M 10-05-61 0834-0934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.88880 10E 00	0.67280 10E 00	0.14932 10E 00	0.77756 10E 00	0.17257 10E 00	0.13063 10E 00
0	-.015543	-.318886	-.387029	.080093	-.035347	.501585
1	-.012630	-.287995	-.352861	.080559	-.024978	.433539
2	-.005553	-.229917	-.301757	.082060	-.006944	.327044
3	.002432	-.176088	-.252042	.069478	.002893	.242077
4	.002788	-.127573	-.201392	.056695	.007123	.188671
5	.001348	-.086424	-.152901	.040696	.006156	.155282
6	.000119	-.059063	-.105911	.026375	.008805	.125456
7	.001229	-.035254	-.068147	.020161	.017930	.092403
8	-.000406	-.011305	-.032837	.016578	.024063	.057616
9	-.003310	.007454	-.000964	.015616	.027953	.025955
10	-.002729	.024299	.023494	.011647	.029196	-.003509
11	-.003371	.043606	.042092	.000455	.031113	-.027494
12	.002360	.057396	.052204	-.005986	.032949	-.051268
13	-.000566	.071516	.051153	-.011162	.027312	-.068656
14	-.012762	.079517	.051556	-.018734	.020953	-.082047
15	-.011492	.084882	.055529	-.029486	.009516	-.098680
16	-.007773	.083257	.059360	-.040903	-.000534	-.109821
17	-.003291	.076117	.060573	-.044789	-.010481	-.121558
18	.012532	.069305	.059875	-.034368	-.019579	-.132854
19	.029512	.065118	.066315	-.032982	-.026874	-.143906
20	.040057	.074235	.074424	-.033719	-.032642	-.145502
21	.052285	.087674	.083169	-.041142	-.041362	-.141596
22	.056696	.085943	.090271	-.050562	-.052175	-.137950
23	.056286	.088725	.092190	-.057515	-.057587	-.128968
24	.048365	.090250	.092522	-.054314	-.057065	-.125372
25	.037019	.092644	.092691	-.044348	-.054316	-.124728
26	.030881	.091426	.098326	-.040555	-.047706	-.119182
27	.026562	.083734	.102329	-.037154	-.042130	-.106035
28	.019811	.075280	.101390	-.032709	-.036677	-.090645
29	.008770	.063352	.094029	-.026369	-.034515	-.085413
30	.000615	.042677	.078478	-.025115	-.033637	-.075987
31	-.004522	.013342	.057000	-.025555	-.030089	-.052705
32	-.005742	-.010337	.030407	-.023638	-.027421	-.026625
33	-.007552	-.024433	.005554	-.015399	-.021780	-.007482
34	-.014909	-.035553	-.012840	-.005630	-.010849	.003647
35	-.026494	-.039910	-.029089	.005738	-.000028	.006797
36	-.038741	-.040415	-.037965	.009069	.005568	.005449
37	-.041023	-.039097	-.037616	.006207	.008983	.002460
38	-.035711	-.044398	-.034992	.008565	.010905	-.002444
39	-.032101	-.050370	-.031522	.016884	.012458	-.000446
40	-.026019	-.046698	-.026307	.027930	.020192	.003312
41	-.020371	-.043460	-.021753	.036478	.027868	.000482
42	-.013072	-.046564	-.019744	.039094	.035107	-.011896
43	-.005280	-.048267	-.018691	.042389	.029442	-.023468
44	-.002929	-.039860	-.020326	.039947	.018663	-.022307
45	-.000407	-.030741	-.020508	.033111	.006734	-.013238
46	.005359	-.022017	-.018742	.024440	-.003360	-.007946
47	.010542	-.015964	-.014337	.009360	-.016806	.001605
48	.009264	-.016557	-.009064	.001762	-.022328	.003885
49	.010090	-.022221	-.013649	.009024	-.018667	.001237
50	.017712	-.024195	-.021016	.012890	-.018221	.000630
51	.019021	-.014393	-.020660	.002516	-.016674	-.000753
52	.010872	-.002694	-.018535	-.010032	-.007098	-.010213
53	.002654	.005865	-.010709	-.013513	.004379	-.010698
54	-.002920	.016968	-.002913	-.014921	.006214	-.004513
55	-.007793	.022986	-.004599	-.008329	.006765	-.001128
56	-.012539	.025443	-.005558	-.006106	.009713	.005021
57	-.018403	.032901	-.003801	-.006982	.007263	.005704
58	-.021721	.031598	.003942	-.008789	.003597	.011237
59	-.021057	.025061	.011758	-.013775	.007479	.019019
60	-.023709	.028936	.020860	-.014761	.012229	.019782

RUN NO. 32 16M 10-05-61 0834-0934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.88880 10E 00	0.67280 10E 00	0.14932 10E 00	0.77756 10E 00	0.17257 10E 00	0.13063 10E 00
1	.006588	-.063630	-.051655	.025118	.029068	.012048
2	.009879	-.097832	-.081463	.037948	.042716	.030654
3	.012770	-.100217	-.100683	.049722	.050713	.041202
4	.012067	-.088977	-.113220	.064878	.057884	.051011
5	.006600	-.074893	-.113242	.073418	.064923	.057015
6	.007606	-.060142	-.103093	.081836	.075102	.050996
7	.011428	-.052388	-.097888	.085891	.080511	.040952
8	.008174	-.046757	-.095151	.088717	.083767	.033396
9	.003239	-.034655	-.093782	.090627	.088007	.033649
10	-.001225	-.024971	-.092398	.084536	.088483	.042706
11	-.008618	-.017380	-.091156	.073961	.081587	.047032
12	-.010985	-.019858	-.085468	.066633	.075616	.047703
13	-.012417	-.017788	-.074528	.059589	.070828	.052474
14	-.013363	-.011411	-.058948	.057886	.070744	.053215
15	-.019283	-.010024	-.058552	.059635	.065065	.049956
16	-.020019	-.004966	-.060789	.061336	.057979	.051765
17	-.016650	-.000339	-.060289	.068644	.055936	.041911
18	-.012082	.005000	-.051853	.068732	.049770	.029277
19	-.012763	.013198	-.038955	.061686	.044668	.021246
20	-.019825	.016559	-.025101	.050787	.044542	.015208
21	-.018730	.020026	-.009861	.036517	.045446	.011974
22	-.015415	.023810	.004202	.022043	.041674	.009110
23	-.009305	.028243	.022539	.012350	.031142	.007034
24	-.000442	.031213	.040599	.004662	.019684	.000239
25	.007809	.031140	.051981	-.002956	.008455	-.011593
26	.012600	.023267	.066397	-.005614	-.000415	-.025544
27	.013097	.012913	.079793	-.020968	-.015762	-.043879
28	.009183	.017592	.084529	-.039318	-.037675	-.049021
29	-.003379	.020036	.089507	-.047451	-.054424	-.044095
30	-.015948	.017045	.090906	-.053454	-.061749	-.040528
31	-.018978	.013092	.087654	-.054365	-.064532	-.039612
32	-.023017	.006593	.076663	-.065904	-.072632	-.040323
33	-.025149	-.005288	.064271	-.086100	-.083034	-.041646
34	-.015640	-.014849	.053117	-.096437	-.089722	-.046197
35	-.010998	-.016394	.042181	-.096941	-.090656	-.047901
36	-.010560	-.016223	.035045	-.095861	-.085400	-.050486
37	-.001275	-.010008	.028229	-.088978	-.073258	-.052426
38	.004912	-.008629	.016293	-.072057	-.060146	-.057596
39	.013226	-.009528	.004180	-.047382	-.040885	-.051104
40	.021566	.001345	-.002089	-.023089	-.025680	-.046293
41	.022275	.004069	-.010267	-.009145	-.020307	-.046221
42	.028026	.010058	-.015106	-.007270	-.017196	-.039679
43	.031215	.020598	-.016900	-.002221	-.016980	-.024769
44	.024733	.027489	-.017307	-.005033	-.022211	-.011606
45	.022716	.031761	-.012839	-.003544	-.017856	-.001151
46	.016240	.030699	-.000755	.008198	-.005276	.009954
47	.012723	.019042	-.002569	.028882	.004639	.018830
48	.013971	.004657	-.017634	.049853	.010531	.030662
49	.013056	-.005033	-.034789	.063169	.015723	.039403
50	.014308	-.011136	-.045097	.063509	.018124	.043841
51	.012619	-.007334	-.045881	.054484	.019465	.040099
52	.014705	-.000448	-.038624	.045803	.025919	.035793
53	.021153	.004767	-.028152	.038661	.035097	.035840
54	.022860	.009104	-.023034	.032350	.038163	.035837
55	.023788	.010882	-.019399	.025464	.037789	.029308
56	.025833	.016554	-.011756	.016389	.037563	.017118
57	.023410	.011585	-.004809	.010981	.038135	.011229
58	.018887	-.004932	-.001473	.010386	.044899	.004990
59	.020875	-.013096	.001067	.014614	.045722	.001365
60	.029247	-.014005	-.000699	.016423	.046579	.004040

RUN NO. 32 16M 10-05-61 0834-0934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.76905 10E 00	0.10272 10E 01	0.58860 10E 00	0.28993 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.821085	.843637	.753750	.844381
2	.615937	.654605	.477315	.656561
3	.462283	.515218	.297732	.504911
4	.334913	.393522	.188695	.389468
5	.235500	.290830	.119992	.301330
6	.153089	.206148	.069611	.231884
7	.075562	.136660	.022280	.167728
8	.003987	.080603	-.005743	.105243
9	-.051935	.038177	-.025149	.050899
10	-.093622	.003648	-.045770	.003021
11	-.122823	-.026975	-.059630	-.033524
12	-.146285	-.062905	-.088382	-.062234
13	-.157907	-.104292	-.118991	-.082307
14	-.157121	-.136886	-.133768	-.108027
15	-.154073	-.166136	-.153801	-.139382
16	-.153091	-.189405	-.164336	-.167325
17	-.162213	-.209442	-.168866	-.195297
18	-.167352	-.229045	-.160286	-.219589
19	-.168301	-.253080	-.165547	-.232777
20	-.173947	-.279058	-.174023	-.242687
21	-.179942	-.291239	-.169648	-.248130
22	-.170317	-.289614	-.161530	-.252350
23	-.164331	-.283017	-.157272	-.250894
24	-.164536	-.268123	-.163458	-.245386
25	-.155730	-.247870	-.173396	-.231305
26	-.149732	-.239264	-.169643	-.219521
27	-.151808	-.231214	-.154830	-.205513
28	-.155689	-.212826	-.130425	-.187940
29	-.144538	-.191759	-.112750	-.173048
30	-.115977	-.163277	-.084760	-.156373
31	-.072709	-.135392	-.041604	-.123502
32	-.037719	-.111665	-.008884	-.090081
33	-.011659	-.093270	.007515	-.061690
34	.006596	-.065728	.019875	-.038457
35	.019523	-.033958	.017301	-.024328
36	.037865	-.010368	.002859	-.018559
37	.060124	.002775	-.006270	-.018987
38	.076719	.004696	-.013887	-.018796
39	.081086	.010082	-.013338	-.019911
40	.084168	.017890	.006909	-.024727
41	.087310	.036938	.019756	-.033056
42	.081122	.055413	.016671	-.040957
43	.061861	.074668	.017951	-.047280
44	.038351	.090612	.021429	-.039576
45	.026382	.098087	.034351	-.025748
46	.019116	.096683	.034779	-.009640
47	.004987	.092405	.041173	.001241
48	-.006896	.082314	.041588	.010152
49	-.005983	.063566	.039361	.021576
50	-.003680	.047876	.030515	.024497
51	-.012964	.034797	.024579	.023284
52	-.026822	.015010	.008458	.017469
53	-.037284	.006847	-.001452	.015353
54	-.036635	.009039	-.004411	.021382
55	-.028585	.007827	-.005543	.026970
56	-.009809	.000587	-.005329	.034055
57	.002902	-.006698	-.005020	.046693
58	.003402	-.003342	.000673	.050889
59	-.001941	-.004208	.009237	.049212
60	-.005105	.007259	.004340	.044321

RUN NO. 32 16M 10-05-61 0834-0934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-01	10E-01	10E-02	10E-01
0	.220571	-.021866	-.015757	.002704	-.053503	.006869
1	.404050	-.192500	-.089957	.089643	.019420	.081491
2	-.468000	-.325065	-.101395	.173165	.195458	.107940
3	-.896236	-.426788	-.108252	.196353	.130566	.117272
4	.032638	-.275798	-.067209	.082528	-.152897	.077577
5	.834488	-.151288	-.042456	.027577	-.248824	.038919
6	.229391	-.158842	-.046746	.032127	-.123948	.029185
7-8	-.424044	-.111152	-.029975	.020092	-.031121	.024639
9-11	-.014049	-.048765	-.009711	.015755	-.006073	.016775
12-15	-.114604	-.042541	-.004788	.004573	-.021781	.012051
16-20	-.033897	-.016206	-.003296	-.004334	-.018951	.008830
21-27	-.042242	-.007826	-.001569	-.003568	-.018759	.005092
28-36	.007389	-.003959	-.001287	-.002335	-.001649	.001874
37-47	.013883	-.002016	-.000697	-.001200	-.003937	.001010
48-60	-.004473	-.000818	-.000435	.001689	.000964	.000608

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-01	10E-02	10E-02
1	-.457086	-.013756	-.147255	.126088	.296467	.059225
2	-.369010	-.058745	-.464601	.267133	.612540	.272962
3	.093091	-.113892	-.708934	.289305	.617295	.321265
4	.220775	-.138770	-.410211	.075546	.161773	.092190
5	.300492	-.103908	-.087559	.016112	.031926	.012872
6	.569468	-.060528	-.102539	.071662	.149017	.025995
7-8	.039104	-.074997	-.175224	.034961	.049840	.048473
9-11	.094982	-.057236	-.066847	-.001039	.002507	.046947
12-15	.008431	-.031324	-.054361	.001885	.016710	.002667
16-20	.036307	-.019796	-.003148	.004010	.022848	-.011270
21-27	-.009502	-.005725	-.006272	.001008	.007527	.001428
28-36	-.003673	-.003406	-.009828	.003616	.004617	-.002308
37-47	.017758	.000830	-.001783	.002137	.004462	-.002945
48-60	-.004724	-.000287	-.002001	-.000711	-.000666	-.001095

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.011285	.011701	.030111	.045923
1	.076295	.126374	.420117	.407365
2	.097177	.173070	.626309	.480065
3	.116016	.179925	.731868	.478077
4	.083881	.105325	.529042	.305845
5	.058462	.060503	.347712	.169226
6	.056434	.051413	.307747	.138973
7-8	.037726	.045170	.284486	.124795
9-11	.020442	.029665	.213640	.078066
12-15	.013215	.016605	.152025	.046159
16-20	.008981	.009429	.099524	.034489
21-27	.005811	.006748	.072586	.018463
28-36	.003610	.004594	.039556	.011265
37-47	.002743	.003077	.027140	.007718
48-60	.001651	.001708	.017207	.005175

RUN NO. 32 16M 10-05-61 0834-0934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12555 10E 01	0.61617 10E 00	0.25552 10E 00	0.64336 10E 00	0.26680 10E 00	0.13094 10E 00
0	.195166	-.468643	-.692311	-.001124	-.285601	.523940
1	.153773	-.314387	-.565166	-.039499	-.242151	.290221
2	.162159	-.193852	-.436351	-.068132	-.249444	.116040
3	.111231	-.165284	-.315690	-.086738	-.214331	.084216
4	.051915	-.132565	-.193190	-.023179	-.128220	.064143
5	.018888	-.046323	-.056491	-.039061	-.085265	.036879
6	-.036502	.052455	.098204	-.024677	-.019589	.031592
7	-.047216	.105929	.209683	.009494	.038968	.012745
8	-.053921	.151538	.283696	.001131	.057916	-.069764
9	-.122338	.202872	.339315	.035786	.067444	-.117027
10	-.085593	.214625	.355053	.034974	.079490	-.174050
11	-.051485	.238582	.365085	.006722	.121234	-.219113
12	-.047418	.191781	.343733	.023664	.145408	-.205773
13	-.062356	.151123	.293807	.075955	.157134	-.142104
14	-.075029	.098922	.187018	.154726	.182211	-.112773
15	-.036103	.091426	.100037	.047888	.191251	-.119266
16	-.005504	.038520	.026819	.016775	.126143	-.080157
17	.040972	.024524	-.039934	-.016820	.095687	-.097712
18	.025623	-.027529	-.091641	-.004958	.089835	-.049002
19	.035778	-.104798	-.142332	.003290	.087248	.020737
20	.001559	-.146538	-.146448	.023483	.101702	.056389
21	-.027712	-.074014	-.072477	.076557	.105958	.014270
22	-.032656	-.004189	-.024076	.048336	.070351	-.034559
23	-.023215	-.025962	.002921	-.009591	.020091	-.025545
24	-.023887	-.027656	.018883	-.053314	-.023331	.010707
25	-.033986	-.012201	.038664	-.038159	-.030729	.051741
26	-.057199	.040324	.060629	.007780	-.012481	.018543
27	-.074779	.048247	.085957	.062185	.018092	-.002830
28	-.078571	.021083	.091799	.056042	-.017092	-.004647
29	-.070631	.039172	.083935	.057519	-.042570	-.004901
30	-.070020	.023823	.053860	-.026903	-.070924	.031966

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-01
0	.063549	-.013846	-.013018	-.002155	-.018593	.001458
1	.501589	-.336864	-.253627	-.145128	-.254049	.082681
2	.575649	-.592300	-.420098	-.173840	-.265645	.119642
3	.668710	-.713971	-.517626	-.108366	-.178771	.109506
4	.447394	-.372526	-.295280	.003732	-.071040	.044608
5	.147336	-.084641	-.068535	.043497	-.031358	.010358
6	.083224	-.052277	-.039534	.007788	-.019888	.017412
7	.048946	-.034568	-.041298	-.013157	-.017020	.030587
8	-.049772	-.044223	-.020160	.071521	.012358	.040794
9-11	.017144	-.058406	-.015411	.018850	.012245	.029913
12-14	-.065040	-.087707	-.024533	.058838	.000600	.022209
15-21	.003525	-.054717	-.011785	.004467	-.001903	.017235
22-30	.061951	-.029005	-.011043	.006743	-.010294	.009047

RUN NO. 32 16M 10-05-61 0834-0934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12555 10E 01	0.61617 10E 00	0.25552 10E 00	0.64336 10E 00	0.26680 10E 00	0.13094 10E 00
1	.031099	-.011853	-.072590	.076841	.064028	.055441
2	.068510	.050677	-.064679	.083568	.085143	.039062
3	.111698	.055635	-.061908	-.009910	.078212	.023085
4	.150085	.064043	-.120181	.013713	.102199	.048256
5	.158457	.051202	-.150739	.087174	.146157	.119740
6	.180177	.025567	-.154378	.077698	.184845	.107009
7	.145837	.028481	-.155645	.056930	.151451	.119528
8	.115077	.001361	-.135842	.033506	.111980	.066467
9	.094045	-.016055	-.119054	.085618	.081537	.014459
10	.095555	-.039575	-.108187	.140611	.078805	-.004489
11	.075524	-.040552	-.091591	.063760	.027851	-.046233
12	.006982	-.005972	-.043341	.020600	-.002091	-.047721
13	-.047927	.014575	.012306	-.007090	-.018522	-.058045
14	-.034309	-.032312	.033815	-.022380	-.035479	-.064132
15	-.031539	-.026183	.041391	-.022054	-.025524	-.042702
16	-.056470	.020539	.039420	-.054442	-.049068	-.036974
17	-.071745	.027767	.048628	-.074465	-.069156	-.002323
18	-.072173	.052767	.090051	-.094104	-.092338	-.024045
19	-.103267	.055745	.092460	-.123196	-.105038	-.033101
20	-.073523	.019176	.050291	-.086769	-.102602	-.009246
21	-.081786	-.011694	.040615	-.058251	-.087248	-.010335
22	-.066442	.019467	.032852	.013375	-.095107	-.003089
23	-.048106	-.012629	.034523	-.006635	-.111874	-.003830
24	-.063078	-.016343	-.002757	-.033006	-.122156	.030780
25	-.046449	-.017030	-.007285	-.024705	-.090538	.011511
26	.021159	-.006460	-.022262	.054632	-.010145	.016966
27	-.004458	.006487	-.020111	.056039	.007258	.016881
28	-.034241	-.009682	-.011106	.051220	.009115	.004569
29	.009583	-.020703	-.011321	.059874	.052231	.024787
30	.077733	.011628	-.014247	.144775	.088426	.078675

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
1	.544436	.048553	-.135507	.133734	.091370	.119131
2	.820628	.038162	-.163403	.237938	.164990	.334273
3	.713181	.088018	-.130250	.164860	.137235	.498705
4	.255333	.135108	-.027291	-.040665	.050830	.310800
5	.041134	.077346	.011302	-.038275	.012126	.012402
6	-.026342	.013276	.007054	.034816	-.013475	-.159835
7	-.028234	.008466	.001933	.044484	-.015526	-.153344
8	-.014179	-.013491	-.003308	.054578	-.004990	-.049443
9-11	-.067632	-.004428	-.000083	.016287	.009295	.059883
12-14	.042466	-.035812	-.017771	.119726	.024353	.096793
15-21	-.013134	-.012015	-.011611	.011391	.000793	.042057
22-30	-.006288	-.017656	.000789	-.021875	-.002353	.013706

RUN NO. 32 16M 10-05-61 0834-0934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.12024 10E 01	0.13109 10E 01	0.31575 10E 00	0.54301 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.708436	.612055	.338197	.727351
2	.508641	.347972	.004857	.514108
3	.380031	.220093	-.041456	.389280
4	.200194	.179097	-.036115	.266147
5	.007510	.111543	-.011912	.156522
6	-.161329	.024824	-.005459	.061933
7	-.302654	-.044505	.001185	-.039076
8	-.409660	-.119219	-.080543	-.184523
9	-.486533	-.226327	-.134474	-.259946
10	-.502930	-.259252	-.169054	-.321334
11	-.464512	-.277437	-.183580	-.383859
12	-.368390	-.249651	-.147609	-.420283
13	-.307909	-.212629	-.057990	-.392389
14	-.157045	-.221048	-.031747	-.322240
15	-.019814	-.195442	-.126180	-.257975
16	.045457	-.208927	-.024109	-.204223
17	.127527	-.238270	.003110	-.182787
18	.199151	-.236139	-.026913	-.122515
19	.255076	-.208911	.014743	-.042851
20	.231422	-.181416	.037727	-.017893
21	.157023	-.115041	.029848	-.082952
22	.064388	-.035409	-.055842	-.115637
23	.042541	.033603	-.060771	-.126050
24	.010828	.058725	-.013501	-.105210
25	-.069303	.146356	.004208	-.036155
26	-.123275	.131984	-.058024	-.006179
27	-.118044	.160538	.016584	-.031164
28	-.152685	.165910	.117392	-.036912
29	-.201567	.159079	.023233	-.012978
30	-.169342	.128483	.002060	.022860

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.008857	.016307	.009704	.010067
1	.118832	.220445	.173177	.115361
2	.225238	.248806	.243945	.128954
3	.322946	.189516	.275768	.108820
4	.206466	.105856	.194189	.050051
5	.055463	.070134	.115701	.014173
6	.024566	.034632	.124784	.014601
7	.024858	.040116	.161660	.019192
8	.021311	.058776	.195904	.016317
9-11	.019654	.047989	.181612	.012273
12-14	.017314	.034363	.132367	.008785
15-21	.018886	.022499	.104049	.007161
22-30	.012584	.019784	.086937	.004952

RUN NO. 32 40M 10-05-61 0834-0934 EST

GROSS STATISTICS

CLEAR	WIND SPEED	6.67 M/SEC	WIND DIRECTION	318 DEG
UNSTABLE	SIGMA A	12.6 DEG	SOLAR RADIATION	0.87
LAND	SIGMA E	9.5 DEG	NET RADIATION	0.53

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.36718E 01	0.23240E 01	0.92943E 00	0.18809E 01
V	0.20250E 01	0.13333E 01	0.85644E 00	0.86635E 00
W	0.98799E 00	0.10100E 01	0.76242E 00	0.55397E 00
T	0.31761E-00	0.46730E-01	0.19739E-01	0.37780E-01
E	0.33424E 01	0.23337E 01	0.12742E 01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
GUSTINESS RATIOS				
U	0.28728	0.22855	0.14454	0.20562
V	0.21335	0.17312	0.13875	0.13955
W	0.14902	0.15067	0.13091	0.11159

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
COVARIANCES				
U,V	0.12971E-00	0.26393E-00	-0.43786E-01	0.28881E-00
U,W	-0.78999E 00	-0.76889E 00	-0.32672E-00	-0.64637E 00
U,T	-0.77724E 00	-0.23720E-00	-0.64392E-01	-0.21327E-00
V,W	-0.42418E-01	-0.98010E-01	0.29101E-02	-0.12132E-00
V,T	0.31410E-01	-0.53307E-01	-0.79067E-02	-0.53120E-01
W,T	0.13268E-00	0.12300E-00	0.63368E-01	0.92306E-01
WE	0.85362E-01	0.17240E-00	0.46317E-01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
NORMALIZED COVARIANCES				
U,V	0.04757	0.14993	-0.04908	0.22625
U,W	-0.41477	-0.50186	-0.38813	-0.63322
U,T	-0.71974	-0.71978	-0.47541	-0.80005
V,W	-0.02999	-0.08446	0.00360	-0.17512
V,T	0.03917	-0.21356	-0.06081	-0.29362
W,T	0.23685	0.56618	0.51655	0.63805

RUN NO. 32 40M 10-05-61 0834-0934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.89203 10E 00	0.84169 10E 00	0.13544 10E 00	0.80796 10E 00	0.13002 10E 00	0.12268 10E 00
0	-.049241	-.388396	-.475440	.003758	-.060810	.516570
1	-.048769	-.374972	-.442608	.009066	-.055058	.458395
2	-.042698	-.335111	-.387202	.006386	-.050103	.368514
3	-.036849	-.282298	-.331345	-.005686	-.047400	.291431
4	-.034755	-.232964	-.269708	-.014499	-.043984	.217313
5	-.035022	-.189920	-.210026	-.014715	-.039509	.158448
6	-.030519	-.141641	-.150256	-.012836	-.037111	.112773
7	-.026584	-.092446	-.101062	-.008872	-.034278	.076993
8	-.020182	-.053759	-.065380	-.014876	-.038404	.046453
9	-.007993	-.021853	-.035723	-.029497	-.048765	.013702
10	.012459	.000218	-.013137	-.038214	-.055287	-.009355
11	.036048	.014846	-.005545	-.042303	-.060048	-.024896
12	.057006	.029607	-.007582	-.041021	-.066065	-.034512
13	.071369	.044647	.003612	-.042956	-.068285	-.035442
14	.078421	.068815	.027015	-.045141	-.057319	-.038571
15	.079159	.098047	.053282	-.040967	-.044260	-.057216
16	.076475	.120469	.075738	-.029941	-.023597	-.081383
17	.068161	.131621	.096334	-.016700	-.000965	-.099588
18	.056531	.136895	.111632	-.007424	.017613	-.114486
19	.042917	.138277	.124416	-.005417	.029412	-.127567
20	.029066	.138061	.130342	-.006244	.043310	-.138219
21	.017472	.135450	.133495	-.002262	.054552	-.146878
22	.012582	.134572	.137930	.004794	.059467	-.154436
23	.008469	.133717	.137750	.021267	.062797	-.157183
24	.002575	.123551	.136896	.037783	.067527	-.156893
25	-.001449	.125288	.130250	.042770	.072193	-.152506
26	-.006172	.120938	.121372	.039523	.071144	-.149314
27	-.007720	.105888	.110926	.036148	.069059	-.140836
28	-.008456	.084506	.101920	.040525	.066797	-.126292
29	-.012987	.070835	.091075	.049938	.069591	-.114431
30	-.014952	.066183	.082454	.057615	.070355	-.097399
31	-.013501	.061923	.076304	.057075	.064349	-.068690
32	-.013023	.056692	.067358	.055476	.057037	-.042300
33	-.013138	.057477	.059463	.049151	.049348	-.030074
34	-.018854	.049898	.047864	.045208	.036892	-.022251
35	-.025278	.036550	.038561	.040136	.023182	-.015690
36	-.024426	.021615	.031839	.030855	.013275	-.018453
37	-.019967	.006656	.026991	.020846	.003843	-.019611
38	-.012535	-.004147	.024366	.012546	-.007605	-.019715
39	-.005657	-.013631	.022170	.005302	-.016728	-.021467
40	-.004447	-.022213	.023162	-.001782	-.019452	-.019152
41	-.000783	-.028816	.024096	-.002429	-.021161	-.012409
42	.004149	-.039542	.017095	-.004082	-.022999	-.003992
43	.007815	-.046188	.005473	-.001363	-.024253	.001493
44	.010214	-.045080	-.005375	.004540	-.025608	.004954
45	.017259	-.041621	-.010177	.012323	-.026987	.006669
46	.021730	-.036248	-.010245	.009561	-.029547	.007673
47	.018716	-.029115	-.006077	.005752	-.034566	.001194
48	.009594	-.020296	-.004334	.007530	-.033527	-.004745
49	.005457	-.013467	-.006906	.003435	-.033597	-.007111
50	.006570	-.007269	-.010096	-.006764	-.034372	-.007009
51	.006376	-.005890	-.018833	-.012833	-.035401	.003695
52	.001939	-.012468	-.028373	-.014034	-.030147	.012833
53	.001553	-.012219	-.034785	-.025022	-.026182	.013132
54	.001761	-.015140	-.039577	-.035163	-.025820	.022152
55	.005620	-.023336	-.045657	-.041127	-.020208	.034437
56	.006381	-.026447	-.043505	-.045976	-.014227	.042171
57	.003166	-.021452	-.034438	-.050807	-.012086	.052676
58	.000660	-.012934	-.021718	-.048943	-.012140	.055673
59	.000233	-.004791	-.011977	-.035984	-.013785	.060749
60	.003506	.003620	-.003100	-.023885	-.006682	.068299

RUN NO. 32 40M 10-05-61 0834-0934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.89203 10E 00	0.84169 10E 00	0.13544 10E 00	0.80796 10E 00	0.13002 10E 00	0.12268 10E 00
1	-.004489	-.022793	-.026359	.005325	.014416	-.000608
2	-.007875	-.041216	-.046500	.011679	.025454	.007004
3	-.013700	-.055687	-.063659	.021743	.030065	.012963
4	-.019858	-.063124	-.078940	.027681	.036120	.010604
5	-.015358	-.067521	-.090269	.040831	.043318	.015380
6	-.004276	-.068249	-.097643	.049289	.048876	.016936
7	.009588	-.067092	-.101405	.049400	.050870	.011370
8	.021724	-.065748	-.096649	.048649	.048389	.007733
9	.033708	-.058972	-.091375	.047550	.045392	.008720
10	.042789	-.053508	-.084228	.045043	.039169	.011262
11	.048782	-.055557	-.077737	.041786	.030491	.014044
12	.047036	-.053694	-.070606	.042710	.020180	.007727
13	.043521	-.049363	-.062740	.032037	.006529	.000498
14	.039734	-.040613	-.060449	.023829	-.000140	-.002478
15	.036996	-.033415	-.053239	.021337	-.001473	-.002654
16	.032835	-.020563	-.041412	.020150	-.004106	.004736
17	.029592	-.006601	-.025235	.023215	-.006087	.017061
18	.020559	.007643	-.008966	.028929	-.001669	.025273
19	.012612	.014207	.007444	.028691	.005695	.029899
20	.006381	.015607	.020893	.024718	.008293	.033037
21	.007215	.011977	.025630	.028249	.004956	.039601
22	.006823	.008285	.027072	.035299	.000216	.038919
23	.003892	.014021	.024489	.032089	-.002866	.030451
24	-.003033	.020603	.018730	.023163	-.011166	.018047
25	-.009223	.020720	.016558	.008986	-.024123	.006441
26	-.018711	.019108	.015877	-.003986	-.034455	-.001686
27	-.027906	.023184	.020117	-.012058	-.041027	-.004151
28	-.034431	.026317	.025754	-.021584	-.040832	-.007440
29	-.035504	.030702	.028894	-.031928	-.036895	-.003860
30	-.034731	.027834	.027564	-.048115	-.039208	-.002748
31	-.029898	.025862	.023618	-.063333	-.041570	-.005031
32	-.028440	.025665	.021459	-.062998	-.041602	-.003650
33	-.033955	.023593	.015672	-.059761	-.039179	-.009703
34	-.037786	.022557	.007403	-.052789	-.033417	-.010337
35	-.036962	.023482	.004557	-.041880	-.026840	-.008899
36	-.031667	.019229	.004051	-.029477	-.021071	-.008665
37	-.028965	.013439	.008566	-.022408	-.014140	-.016679
38	-.034214	.003793	.014246	-.023175	-.015314	-.026130
39	-.042764	.000723	.017845	-.028418	-.019720	-.032996
40	-.042742	.001993	.012262	-.032903	-.022779	-.038628
41	-.034287	-.002007	.006809	-.040004	-.023265	-.046115
42	-.025185	-.005602	.003032	-.042168	-.024189	-.048390
43	-.020967	-.000142	.002955	-.038147	-.018324	-.046982
44	-.018477	.009800	.006222	-.031393	-.009401	-.042474
45	-.015758	.007442	.005721	-.025565	-.005381	-.038791
46	-.007144	.001193	.005453	-.022357	-.000073	-.028813
47	.003156	-.000481	.007888	-.026490	.004095	-.021876
48	.013448	-.008192	.007039	-.019920	.012805	-.019253
49	.020315	-.020892	.004339	-.011180	.022910	-.019280
50	.031350	-.014896	.002129	.001997	.030192	-.014815
51	.037157	-.027547	.001446	.018793	.035799	-.011901
52	.033945	-.028407	.001209	.026758	.036184	-.004127
53	.026867	-.029636	.000131	.021424	.037941	.006573
54	.025637	-.027063	.001666	.008769	.042939	.015899
55	.030256	-.024733	-.000688	.002955	.045961	.024395
56	.041844	-.016850	-.003191	.010991	.051013	.025437
57	.053207	-.010196	-.006385	.024436	.055079	.028897
58	.064341	-.008353	-.011798	.035776	.054830	.033496
59	.070184	-.003923	-.018913	.045567	.059752	.029908
60	.075032	.006569	-.020857	.048021	.070076	.026596

RUN NO. 32 40M 10-05-61 0834-0934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.92927 10E 00	0.85629 10E 00	0.76236 10E 00	0.19741 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.864598	.822511	.786899	.845482
2	.684181	.596834	.536053	.666889
3	.537705	.427970	.371738	.529657
4	.420639	.308191	.239656	.409637
5	.316433	.223309	.140741	.308394
6	.220098	.156343	.089624	.222371
7	.137137	.099047	.054677	.150212
8	.074007	.057581	.002289	.097329
9	.014992	.011514	-.043333	.055017
10	-.038203	-.032751	-.072941	.018034
11	-.074178	-.065535	-.094705	-.010944
12	-.095146	-.090700	-.114966	-.027811
13	-.121745	-.108973	-.123572	-.045123
14	-.149301	-.124530	-.127020	-.059611
15	-.168508	-.153302	-.129467	-.087193
16	-.188383	-.185058	-.139748	-.118305
17	-.204315	-.203840	-.153568	-.146219
18	-.211957	-.213283	-.164206	-.168982
19	-.213108	-.208395	-.169198	-.183703
20	-.218142	-.205214	-.170285	-.193045
21	-.219893	-.203238	-.174724	-.200335
22	-.221392	-.187352	-.181776	-.208277
23	-.220533	-.177899	-.177502	-.212885
24	-.216113	-.180557	-.169936	-.211891
25	-.201820	-.181627	-.163989	-.210912
26	-.177670	-.174376	-.166966	-.207576
27	-.153570	-.157363	-.165712	-.209308
28	-.136958	-.136383	-.157880	-.203346
29	-.119029	-.106340	-.142407	-.193309
30	-.100471	-.072658	-.118727	-.174151
31	-.078966	-.041022	-.083046	-.146684
32	-.058714	-.022739	-.047040	-.120631
33	-.041604	-.009949	-.032549	-.107922
34	-.030936	-.006530	-.019973	-.102374
35	-.021285	-.020063	-.010722	-.101079
36	-.014065	-.038364	-.003203	-.101941
37	-.005515	-.049833	.002982	-.113225
38	-.003000	-.056235	.007111	-.125543
39	-.002867	-.055942	.008943	-.134704
40	-.004319	-.056311	.020036	-.135690
41	-.008726	-.050685	.028432	-.121660
42	-.012327	-.042952	.024813	-.102317
43	-.008726	-.041404	.026788	-.086316
44	-.004552	-.046221	.029648	-.066751
45	-.004584	-.055725	.030758	-.054522
46	-.003961	-.059183	.029844	-.045310
47	-.006504	-.037411	.027551	-.037871
48	-.007926	-.017843	.013112	-.022773
49	-.010071	-.006578	-.000938	-.014631
50	-.014208	-.002364	-.014645	-.003768
51	-.011372	.006746	-.017155	.013294
52	-.000550	.019449	-.012188	.035104
53	.012343	.024742	-.005275	.056590
54	.015644	.020466	.002383	.080310
55	.020963	.013824	.010333	.099063
56	.027378	.005389	.016971	.105501
57	.024848	-.006629	.022781	.106481
58	.017424	-.011531	.022835	.109296
59	.012866	-.005114	.032869	.113722
60	.001623	.018113	.045820	.111456

RUN NO. 32 40M 10-05-61 0834-0934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
0	.025375	-.054819	-.018817	-.005613	-.049234	.007963
1	.038249	-.539750	-.127198	-.120558	-.362405	.090672
2	-.063824	-.718748	-.133219	-.106569	-.394453	.114056
3	-.183767	-.751989	-.121965	.020743	-.204072	.111744
4	-.208715	-.452483	-.072552	.119589	.142616	.065848
5	-.107890	-.247759	-.040678	.076130	.172021	.035370
6	-.013676	-.168189	-.031951	.009652	.044970	.034468
7-8	.057890	-.115808	-.030835	.002681	-.046550	.035108
9-11	.017564	-.072466	-.016853	-.007617	-.058380	.017752
12-15	-.017254	-.006378	-.001588	.013042	.011004	.008081
16-20	-.002833	-.018240	-.003227	.007177	-.002223	.006151
21-27	-.001865	-.005051	-.001124	-.008067	-.005017	.002339
28-36	.000761	.002351	-.001150	-.002033	-.000074	.001863
37-47	.000969	.000395	-.000754	-.002372	-.003458	.001145
48-60	.000399	.000463	-.000220	-.000688	-.000869	.000363

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
1	.004812	-.050084	-.190285	.051043	-.063088	.065361
2	.114699	-.132247	-.324712	.160236	.119023	.120853
3	.126428	-.208545	-.442235	.150302	.226920	.033448
4	.002807	-.162407	-.368371	.031223	.134973	-.042358
5	-.049377	-.091564	-.209670	.010538	.081450	.004109
6	-.059559	-.051884	-.084666	.049421	.089145	.030538
7-8	-.051503	-.018812	-.025964	.026379	.069496	.058429
9-11	-.025430	-.023038	-.038639	-.016215	-.029058	-.024050
12-15	.003521	-.004342	.013649	-.004617	.006894	.011417
16-20	.006870	-.003283	-.005150	-.006109	.004263	-.010639
21-27	.002903	.000187	-.003802	.003266	.006760	.002536
28-36	-.001887	-.000700	-.001218	-.000703	-.000744	-.005052
37-47	-.000820	.000288	-.001145	-.000466	-.000915	-.002073
48-60	.000769	-.000658	.000133	.001107	-.000650	.001139

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E 00	10E-02
0	.017166	.009935	.005008	.038126
1	.125472	.096805	.064019	.326296
2	.144501	.116123	.090065	.336717
3	.154883	.124203	.100824	.287033
4	.110918	.094075	.071106	.188690
5	.068194	.057054	.050118	.125835
6	.052662	.041537	.047826	.101625
7-8	.041789	.038945	.038895	.093799
9-11	.023206	.027279	.025270	.056063
12-15	.012814	.016655	.017621	.026201
16-20	.009021	.012211	.011862	.019082
21-27	.005551	.006864	.006229	.012268
28-36	.003327	.003918	.005266	.008244
37-47	.002034	.002558	.003049	.006028
48-60	.001276	.001572	.001676	.003651

RUN NO. 32 40M 10-05-61 0834-0934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12761 10E 01	0.10206 10E 01	0.26649 10E 00	0.69283 10E 00	0.18092 10E 00	0.14469 10E 00
0	.226332	-.633350	-.800280	-.175108	-.293615	.637952
1	.249963	-.435030	-.651735	-.156610	-.279677	.424521
2	.244639	-.266933	-.491175	-.123412	-.214020	.236084
3	.161406	-.189882	-.364756	-.065538	-.153186	.153188
4	.093067	-.121999	-.224859	-.059366	-.119494	.099461
5	.040624	-.049266	-.102608	-.051240	-.072909	.033947
6	-.034412	.029993	.012732	-.052407	.012344	.019912
7	-.117783	.070065	.120421	.017470	.083737	-.054870
8	-.162589	.153891	.204510	.056146	.110477	-.150776
9	-.158343	.210606	.278056	.093452	.157196	-.187850
10	-.162250	.236804	.339555	.130145	.144696	-.232396
11	-.176712	.284297	.395114	.165595	.122997	-.302229
12	-.155775	.302245	.409117	.146549	.120982	-.287560
13	-.112944	.270274	.384728	.137267	.097318	-.256875
14	-.068014	.228503	.344400	.134653	.091224	-.242399
15	-.037263	.192588	.271754	.066507	.069320	-.185016
16	-.032416	.070805	.148648	.079273	.061707	-.066066
17	.002223	-.045435	.066430	.006649	.043940	.018337
18	.009100	-.059322	.013561	-.010894	.044543	.072022
19	.006191	-.084183	-.039625	-.056414	.026250	.117011
20	.036518	-.098848	-.040220	-.078951	.000879	.109632
21	.090331	-.104035	-.055725	-.124799	-.013986	.106279
22	.099569	-.031720	-.051548	-.143411	-.038390	.032580
23	.023033	-.057507	-.055586	-.079870	-.027987	.000524
24	-.000350	-.038981	-.081734	.001557	-.001596	.025920
25	.001801	-.042639	-.079416	.020064	-.009429	.049438
26	.007247	-.021034	-.060121	.006976	-.041898	.039046
27	.007574	-.006029	-.043081	.047109	-.001588	.027953
28	-.003699	.011558	-.002746	.028443	.027844	-.007421
29	.002223	.049565	.009977	.014076	.013039	-.029852
30	-.020683	.070281	.021581	.031362	.045387	-.050786

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E 00	10E-01	10E-01	10E-01	10E-01
0	.002568	-.003927	-.027015	-.000800	-.011862	.004378
1	.056489	-.082791	-.404711	-.203324	-.120836	.110214
2	.098606	-.136113	-.564795	-.412880	-.151509	.184752
3	.118699	-.147990	-.544704	-.432599	-.148859	.200319
4	.067371	-.063993	-.236479	-.075585	-.083683	.081889
5	.019133	-.011648	-.061756	.065931	-.033626	.010020
6	-.000221	-.024318	-.069867	-.008752	-.005116	.035870
7	-.006064	-.032379	-.082710	-.024591	.006191	.050851
8	-.001120	-.020215	-.047293	-.067174	-.000484	.035851
9-11	-.003232	-.017377	-.028506	-.053245	-.010042	.033576
12-14	-.000277	-.013736	-.023771	-.014048	-.007352	.021276
15-21	-.006188	-.009740	-.015927	.008475	.002184	.015696
22-30	-.000302	-.006440	-.011246	-.000999	.000628	.007674

RUN NO. 32 40M 10-05-61 0834-0934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12761 10E 01	0.10206 10E 01	0.26649 10E 00	0.69283 10E 00	0.18092 10E 00	0.14469 10E 00
1	.012897	-.034418	-.071373	.020165	-.014835	.035434
2	.005016	.007606	-.068476	-.029952	-.060803	.047345
3	.009519	.021683	-.090268	-.057546	-.055564	.070521
4	.023997	.003378	-.126846	-.054640	-.052986	.063056
5	.063963	.010671	-.126150	-.002296	-.000458	.105161
6	.086238	.025196	-.134754	.033899	.008345	.126023
7	.051598	.030493	-.129674	.052904	-.027805	.125911
8	.032173	.039233	-.092760	.017196	-.034234	.099201
9	.021843	.054733	-.064532	.046878	-.043629	.075849
10	.005118	-.003129	-.051456	.060842	-.027803	.017258
11	.003027	.001105	-.020021	.064576	-.008620	-.003791
12	-.013318	.033543	.032490	-.013611	-.001195	-.025675
13	-.007307	.026088	.085505	-.020579	.014550	-.059128
14	-.013652	.023230	.096621	-.016659	.040159	-.029191
15	.021870	-.005740	.120828	.002992	.053041	-.059994
16	.000650	.006275	.102212	.017341	.042731	-.050391
17	-.003792	.015646	.087841	.033782	.060519	-.021782
18	-.043280	.027007	.097504	-.025577	.014854	-.072595
19	-.091947	.052979	.068439	-.126874	-.040742	-.000873
20	-.098830	.017809	.033567	-.149520	-.061203	-.000156
21	-.051319	.010796	-.001432	-.083866	-.032526	.007852
22	-.000033	.011203	-.036701	.009581	-.028998	.021496
23	.057178	-.001260	-.051120	.088572	-.002054	.016687
24	.086327	-.026954	-.076988	.099526	.022169	.015826
25	.068455	-.030895	-.075668	.054845	.004953	.001020
26	.052109	-.061573	-.077667	-.018506	.029659	-.009737
27	.051926	-.065300	-.066770	-.000717	.069297	-.028467
28	.055200	-.043216	-.057223	-.000231	.074563	-.000744
29	.060693	-.037733	-.028055	.031337	.073787	-.007802
30	.077962	-.035793	-.014830	.058720	.077177	.004079

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.130691	.202081	-.042503	.034993	-.125193	.350729
2	.235373	.096171	-.120351	.071398	-.215028	.530974
3	.230893	.027180	-.165017	.000842	-.318213	.630430
4	.049129	.012011	-.063331	-.125720	-.151141	.294149
5	.045150	-.044680	.007652	-.089374	.058465	-.059677
6	-.062650	-.044256	-.000429	-.083468	-.132427	-.125814
7	-.182452	-.015750	-.006241	-.077800	-.271813	-.093531
8	-.037719	-.023323	-.006868	.057980	-.143256	-.019010
9-11	-.008780	.014658	-.001249	.008091	-.055950	.063135
12-14	.063618	-.062672	-.011127	.073822	.092330	.030551
15-21	-.000239	-.040864	-.009278	.010205	.005405	-.016112
22-30	.013916	-.001427	-.001555	.015690	.052528	.042591

RUN NO. 32 40M 10-05-61 0834-0934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.18797 10E 01	0.86629 10E 00	0.55410 10E 00	0.37782 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.734208	.531106	.412190	.710537
2	.520370	.268654	.155352	.493971
3	.407118	.196390	.038613	.343737
4	.239920	.053347	-.006873	.174815
5	.095928	-.013207	-.041791	.087742
6	-.028976	-.025107	-.041318	.022425
7	-.141642	-.044169	-.080305	-.096308
8	-.244406	-.121533	-.228987	-.219800
9	-.342254	-.217291	-.226727	-.279938
10	-.405724	-.221090	-.213799	-.352758
11	-.435183	-.136259	-.234396	-.433782
12	-.448667	-.063017	-.201549	-.409675
13	-.418792	-.093407	-.119435	-.392960
14	-.358712	-.165335	-.080904	-.361821
15	-.272598	-.094247	-.074566	-.282662
16	-.148448	-.084349	.016171	-.172614
17	-.060107	-.212936	.145916	-.104208
18	.013376	-.142274	.055025	-.020456
19	.070776	-.103616	.051416	.049871
20	.063879	-.150980	.079012	.053001
21	.062479	-.151147	.080206	.081442
22	.042368	-.075530	-.060954	.066767
23	.058445	.025479	-.060199	.036736
24	.070793	-.000854	-.026792	.089133
25	.052519	.031087	-.020265	.105746
26	.045957	.068651	-.010804	.085371
27	.023451	.019219	.084038	.064563
28	-.013666	.050022	.070299	.016233
29	-.032356	.046174	.043601	-.013431
30	-.038539	.025644	-.036945	-.020345

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.021157	.012093	.015412	.044326
1	.310774	.115495	.303192	.612941
2	.439654	.119752	.535767	.846974
3	.442080	.103068	.738803	.812890
4	.206808	.081170	.534847	.358455
5	.057428	.062900	.230513	.119599
6	.058974	.036201	.209847	.143984
7	.069277	.030310	.273688	.166047
8	.045421	.036569	.267604	.130553
9-11	.033788	.035499	.271515	.096977
12-14	.025505	.012076	.170343	.052381
15-21	.026415	.023935	.150348	.047517
22-30	.016284	.015872	.145382	.038940

RUN NO. 32 16M 10-05-61 0834-0934 EST
 RUN NO. 32 40M 10-05-61 0834-0934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.783791	.363825	.792083	.786449
1	.598123	.632465	.773641	.747199
2	.479381	.588061	.714359	.684790
3	.439083	.552605	.672135	.616459
4	.388241	.522307	.649458	.549142
5	.297093	.517887	.561680	.461356
6	.267497	.465801	.397997	.428373
7-8	.292581	.327064	.404652	.327416
9-11	.165307	.242020	.428255	.209574
12-15	.134118	.131054	.163123	.128594
16-20	.117706	.118094	.235797	.167161
21-27	.149656	.115486	.134010	.096095
28-36	.122988	.133313	.090650	.086418
37-47	.109391	.114324	.122014	.124695
48-60	.133813	.119039	.089953	.150779

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 01	10E 00	10E 00
0	.882090	.102176	.906041	.456296
1	.922114	.088575	.923216	.747151
2	.912384	.084125	.919986	.809555
3	.919702	.080245	.926159	.846381
4	.936309	.077706	.903318	.828898
5	.774691	.070306	.770397	.689624
6	.532449	.054032	.684197	.626987
7	.672367	.062048	.650440	.662855
8	.670984	.064751	.778680	.758517
9-11	.436116	.063928	.801948	.723080
12-14	.469958	.057551	.741614	.616346
15-21	.512089	.057033	.640658	.626697
22-30	.297046	.045255	.453727	.416034

RUN NO. 33 16M 10-05-61 1050-1150 EST

GROSS STATISTICS

CLEAR	WIND SPEED	5.54 M/SEC	WIND DIRECTION	312 DEG
UNSTABLE	SIGMA A	16.4 DEG	SOLAR RADIATION	1.10
LAND	SIGMA E	7.3 DEG	NET RADIATION	0.76

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.15499E 01	0.10004E 01	0.61380E 00	0.73443E 00
V	0.26436E 01	0.15173E 01	0.78931E 00	0.11735E 01
W	0.45867E-00	0.45950E-00	0.40274E-00	0.20026E-00
T	0.36649E-00	0.10670E-00	0.53342E-01	0.83367E-01
E	0.23261E 01	0.14889E 01	0.90293E 00	

GUSTINESS RATIOS				
U	0.22472	0.18054	0.14142	0.15469
V	0.29349	0.22234	0.16037	0.19554
W	0.12225	0.12236	0.11455	0.08078

COVARIANCES				
U,V	-0.61120E-01	-0.17223E-01	-0.58875E-01	-0.61228E-02
U,W	-0.25309E-00	-0.20328E-00	-0.14453E-00	-0.13116E-00
U,T	-0.36487E-00	-0.15812E-00	-0.56454E-01	-0.13159E-00
V,W	-0.79214E-01	-0.61584E-01	-0.18080E-01	-0.45496E-01
V,T	-0.28386E-00	-0.48795E-01	-0.17985E-02	-0.46657E-01
W,T	0.11835E-00	0.93642E-01	0.67295E-01	0.59000E-01
WE	0.53696E-01	0.83630E-01	0.29789E-01	

NORMALIZED COVARIANCES				
U,V	-0.03020	-0.01398	-0.08459	-0.00660
U,W	-0.30017	-0.29983	-0.29069	-0.34199
U,T	-0.48413	-0.48398	-0.31199	-0.53179
V,W	-0.07194	-0.07375	-0.03207	-0.09385
V,T	-0.28839	-0.12127	-0.00877	-0.14917
W,T	0.28867	0.42290	0.45913	0.45662

RUN NO. 33 16M 10-05-61 1050-1150 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,M	U,T	V,M	V,T	W,T
	0.69589 10E 00	0.49711 10E 00	0.18095 10E 00	0.56376 10E 00	0.20521 10E 00	0.14659 10E 00
0	-.084516	-.290442	-.312096	-.031967	-.008985	.459089
1	-.078414	-.262266	-.282787	-.026985	-.003707	.386679
2	-.071448	-.212753	-.233163	-.015722	-.001920	.284850
3	-.071059	-.159466	-.188238	-.008380	.003317	.208086
4	-.072099	-.114570	-.152222	-.003192	.009249	.162030
5	-.066411	-.069051	-.119993	.002397	.009694	.125268
6	-.057620	-.032181	-.087387	.005917	.000958	.095136
7	-.044663	-.009841	-.059682	.007692	-.009498	.064096
8	-.028887	.003810	-.036643	.009778	-.016019	.038368
9	-.017533	.017367	-.013499	.008296	-.024967	.016929
10	-.009560	.031480	.003842	.001386	-.034535	-.008427
11	.002116	.044042	.021241	-.014395	-.040050	-.028911
12	.015881	.049321	.034242	-.030073	-.045764	-.037158
13	.031992	.058773	.043297	-.045222	-.051190	-.055044
14	.049505	.062507	.048976	-.052930	-.051082	-.077830
15	.058209	.067290	.056555	-.050274	-.048347	-.094250
16	.057120	.074162	.064389	-.040963	-.042729	-.109554
17	.055522	.078362	.069781	-.033525	-.043797	-.121467
18	.055275	.073566	.066780	-.028542	-.050308	-.122610
19	.056778	.070667	.061565	-.033745	-.056916	-.124738
20	.057707	.072551	.064937	-.037875	-.061016	-.123881
21	.059519	.070180	.071377	-.034097	-.060892	-.114063
22	.052539	.064730	.075738	-.032416	-.052723	-.102747
23	.048632	.059000	.077167	-.029839	-.042187	-.095709
24	.048066	.054671	.074737	-.021840	-.026268	-.088636
25	.043344	.060936	.071827	-.014526	-.008535	-.085390
26	.039111	.065825	.065808	-.003295	.010581	-.089969
27	.038616	.066973	.059159	.011025	.025976	-.103825
28	.036124	.069353	.055287	.016611	.037496	-.110991
29	.032006	.072202	.052346	.016643	.045588	-.116304
30	.025355	.070832	.050523	.022317	.056310	-.107070
31	.016905	.066792	.046025	.036618	.069572	-.087745
32	.007092	.053602	.037378	.047521	.075934	-.070421
33	-.003828	.038718	.023824	.054019	.081300	-.056536
34	-.011868	.020093	.012241	.057316	.078795	-.046636
35	-.020128	.006881	.003677	.061271	.075247	-.043258
36	-.025464	-.005956	-.003902	.070943	.075416	-.028640
37	-.027418	-.014111	-.008693	.080657	.081576	-.014150
38	-.027712	-.020655	-.013898	.082802	.087537	-.008125
39	-.026140	-.027324	-.014523	.072314	.087714	-.001564
40	-.021874	-.033094	-.018262	.067193	.090751	.005719
41	-.023144	-.031999	-.014454	.058286	.092943	.013349
42	-.029100	-.037797	-.008328	.054188	.090796	.022684
43	-.028598	-.038661	-.004198	.052722	.086592	.031372
44	-.023443	-.040263	-.008964	.057824	.080711	.039376
45	-.020507	-.044121	-.013887	.064244	.076243	.043935
46	-.019546	-.042031	-.020182	.065642	.066152	.045660
47	-.015599	-.042441	-.023424	.061638	.050885	.051501
48	-.007888	-.038109	-.019498	.050432	.028661	.054284
49	-.001025	-.043613	-.015468	.041494	.004067	.052167
50	.002679	-.052733	-.016715	.025638	-.014967	.057373
51	.003284	-.058402	-.020444	.013457	-.029816	.058545
52	.009722	-.054230	-.024483	.000802	-.042557	.057876
53	.017479	-.044436	-.019286	-.013181	-.058135	.058540
54	.022712	-.042695	-.009439	-.027381	-.072774	.050689
55	.027360	-.045981	-.002946	-.039546	-.079169	.045814
56	.032762	-.051037	.000234	-.047461	-.082388	.045944
57	.034003	-.054282	.003778	-.064697	-.089430	.043894
58	.034855	-.054000	.007649	-.077450	-.089023	.042615
59	.039875	-.045900	.012004	-.081077	-.081075	.044031
60	.044824	-.035486	.014393	-.080406	-.072758	.036369

RUN NO. 33 16M 10-05-61 1050-1150 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.69589 10E 00	0.49711 10E 00	0.18095 10E 00	0.56376 10E 00	0.20521 10E 00	0.14659 10E 00
1	-.000992	-.065691	-.053700	.004513	-.001333	.013775
2	-.003743	-.104084	-.090939	-.002126	-.011273	.020494
3	-.011986	-.119933	-.113443	-.009933	-.017308	.021510
4	-.018868	-.121582	-.129549	-.013106	-.025670	.022904
5	-.021081	-.118659	-.148224	-.022013	-.033305	.018964
6	-.021867	-.107575	-.161529	-.021194	-.036215	.015497
7	-.026609	-.103606	-.170116	-.016799	-.036092	.017104
8	-.029075	-.100869	-.169576	-.006392	-.031976	.018346
9	-.035256	-.094047	-.166805	.001131	-.024387	.018603
10	-.037132	-.084421	-.165315	.011020	-.015808	.016733
11	-.036052	-.070885	-.163286	.020213	-.010768	.018205
12	-.032076	-.061972	-.162542	.026968	-.009495	.023947
13	-.021571	-.062876	-.159029	.035760	-.005497	.027812
14	-.009824	-.065811	-.157561	.036452	-.000741	.024135
15	-.005331	-.060893	-.152798	.035333	.000456	.017501
16	-.000916	-.053380	-.145939	.035707	.002079	.008016
17	.006358	-.049477	-.132304	.027229	.003230	.000603
18	.007679	-.037534	-.107639	.014016	.000518	.003053
19	.008860	-.023439	-.081235	.001431	-.005135	.008738
20	.010407	-.012083	-.062118	-.011433	-.004241	.003378
21	.017207	-.004000	-.046149	-.018844	.001493	-.001814
22	.023971	.004551	-.033428	-.016616	.008266	-.002287
23	.035370	.014406	-.022548	-.010570	.015302	-.003023
24	.046937	.022784	-.008723	.000670	.026930	.001838
25	.055036	.027215	.004290	.008956	.030540	.005241
26	.060709	.026807	.009364	.010344	.027434	.007369
27	.062901	.027144	.020995	.014245	.023859	.008933
28	.060968	.034731	.035409	.013746	.019679	.008248
29	.057751	.045189	.050858	.003250	.011203	.003345
30	.054001	.050689	.066449	-.009435	.005867	-.001693
31	.051944	.049362	.078488	-.016571	.009095	-.006858
32	.054934	.051489	.086761	-.013300	.015427	-.010071
33	.060294	.045340	.084095	-.012437	.015215	-.009287
34	.060587	.030934	.079879	-.021140	.009570	-.008358
35	.054670	.023741	.075129	-.021220	.011916	-.007915
36	.044899	.021178	.071358	-.014396	.013575	-.013171
37	.034360	.024285	.077705	-.013473	.007792	-.014572
38	.017934	.027278	.085305	-.021561	-.004750	-.005532
39	.003602	.028963	.088787	-.023556	-.016619	-.002372
40	-.012427	.024066	.083729	-.014951	-.023754	-.003924
41	-.028299	.021286	.074409	-.007142	-.028276	-.009452
42	-.039093	.015426	.062548	-.004810	-.032898	-.009275
43	-.048217	.016778	.055053	.003171	-.035140	.003337
44	-.054265	.026175	.052210	.008688	-.032392	.015553
45	-.062839	.030865	.049881	.008583	-.033677	.018043
46	-.072812	.026909	.038545	.003908	-.037199	.015705
47	-.080025	.024969	.023259	-.000437	-.037599	.011213
48	-.085429	.020071	.008964	-.010165	-.038398	.008946
49	-.092924	.014149	.000032	-.020917	-.037682	.012111
50	-.091459	.011312	-.003310	-.022378	-.030125	.015349
51	-.083895	.008164	-.005325	-.016392	-.021604	.011085
52	-.076785	.006936	-.005399	-.010962	-.018723	.001458
53	-.064898	.012983	-.002636	-.002662	-.013854	-.010961
54	-.053003	.008508	-.004089	.008221	-.004280	-.012526
55	-.048876	-.001811	-.007966	.017465	.007885	-.011784
56	-.047650	-.012295	-.011653	.017607	.015217	-.013154
57	-.039441	-.020989	-.018521	.019280	.012466	-.012661
58	-.028571	-.032603	-.030099	.019365	.011268	-.008589
59	-.018373	-.040419	-.042029	.023428	.008414	-.004545
60	-.007263	-.042845	-.039118	.020842	.008914	.000194

RUN NO. 33 16M 10-05-61 1050-1150 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.61362 10E 00	0.78918 10E 00	0.40272 10E 00	0.53361 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.847977	.857284	.721723	.852553
2	.671615	.671851	.429941	.669671
3	.540816	.531876	.251233	.538296
4	.439863	.428304	.153340	.446740
5	.353666	.344482	.090245	.365918
6	.277205	.274797	.037572	.291007
7	.206018	.214590	-.006894	.220932
8	.139581	.147737	-.046871	.156353
9	.078834	.086188	-.082758	.091757
10	.022525	.035355	-.103301	.026558
11	-.031330	-.002627	-.108789	-.031466
12	-.082906	-.044236	-.104415	-.075536
13	-.127244	-.089457	-.103898	-.115797
14	-.161978	-.135813	-.105152	-.151661
15	-.191272	-.170972	-.102240	-.182002
16	-.222749	-.195275	-.109034	-.208999
17	-.253994	-.213695	-.121521	-.232057
18	-.275529	-.225715	-.114511	-.248778
19	-.286626	-.231743	-.119915	-.262583
20	-.285396	-.238235	-.138891	-.273252
21	-.291964	-.248792	-.138751	-.274117
22	-.309053	-.259061	-.141050	-.270622
23	-.312882	-.256975	-.130606	-.268817
24	-.308425	-.248537	-.104698	-.267633
25	-.297344	-.230829	-.088488	-.259239
26	-.279741	-.215498	-.096529	-.251169
27	-.266336	-.205199	-.121698	-.250132
28	-.260486	-.194524	-.136428	-.245530
29	-.245520	-.187126	-.138588	-.229807
30	-.217415	-.172760	-.112337	-.197854
31	-.171514	-.149435	-.074036	-.163832
32	-.128350	-.123526	-.051162	-.133568
33	-.093161	-.102460	-.038653	-.104120
34	-.061268	-.084781	-.030726	-.082076
35	-.030516	-.066141	-.020940	-.065997
36	-.011141	-.048951	-.002735	-.051132
37	.003458	-.033847	.010110	-.038445
38	.021759	-.022092	.011046	-.016516
39	.045357	-.017544	.017367	-.000885
40	.061125	-.018550	.030777	.008461
41	.067291	-.024734	.032334	.012699
42	.060475	-.020981	.020808	.018695
43	.048410	-.015883	.006546	.021732
44	.047917	-.013235	.004995	.026733
45	.057288	-.014780	.012197	.033684
46	.067090	-.015698	.022992	.038270
47	.078524	-.015601	.038328	.047956
48	.077123	-.012280	.035612	.053555
49	.078858	-.012199	.030728	.055288
50	.084278	-.015801	.036527	.054886
51	.094835	-.020359	.039074	.055700
52	.096846	-.026705	.035062	.057133
53	.090118	-.030790	.042928	.053265
54	.078856	-.033651	.042063	.050514
55	.066516	-.031431	.036861	.055728
56	.060772	-.023008	.037680	.062691
57	.054078	-.010778	.035117	.059278
58	.050822	.013916	.029063	.044676
59	.037776	.028922	.027633	.032472
60	.018944	.026307	.028686	.027746

RUN NO. 33 16M 10-05-61 1050-1150 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
0	.001255	-.001604	-.013539	-.010118	-.049514	.003610
1	-.073618	-.117721	-.086456	-.121386	-.571753	.073235
2	-.167473	-.228077	-.099575	-.034470	-.188129	.110831
3	-.221544	-.260515	-.104316	.083756	.443939	.112403
4	-.119473	-.167478	-.067890	.044111	.333574	.068911
5	-.028133	-.133419	-.042937	-.023369	-.016230	.048184
6	-.009863	-.124065	-.035779	-.030100	-.070341	.036277
7-8	.015413	-.067617	-.022399	-.029933	.005812	.020566
9-11	.004443	-.052679	-.011288	-.021181	-.062203	.022466
12-15	.000299	-.021942	-.007060	.007551	-.012397	.011628
16-20	.000015	-.008143	-.004523	-.008189	-.015380	.009400
21-27	-.004404	-.004859	-.002688	-.000365	.006693	.005366
28-36	-.002256	-.003139	-.001139	-.001513	-.000225	.002613
37-47	-.000596	-.000429	-.000471	.000072	-.003321	.001517
48-60	-.000326	-.001491	-.000319	.000191	-.003834	.000990

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
1	.096010	-.077284	-.082945	.137681	.000060	.093296
2	-.012199	-.159701	-.126617	.319825	-.044667	.104803
3	-.150497	-.195548	-.123368	.222505	-.224756	.111616
4	-.072281	-.134133	-.053822	-.117248	-.187439	.063737
5	.009794	-.073975	-.020955	-.279208	-.069696	.046708
6	-.009676	-.056922	-.013525	-.359309	-.087197	.038347
7-8	.005623	-.058896	-.009479	-.409301	-.066213	-.006338
9-11	.013487	-.039256	-.005700	.179613	.019339	.033977
12-15	-.006626	-.016274	-.000392	.029351	.012154	.017808
16-20	.003884	-.012716	-.002237	.039106	.009037	.007513
21-27	.002191	-.001786	-.001858	.012914	.002176	-.000982
28-36	.000157	-.003041	-.000219	.014292	.002310	.003907
37-47	-.000666	.000036	-.000027	.017158	.005164	.000550
48-60	-.000456	-.000868	-.000175	-.009538	.001541	-.000804

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.006710	.014493	.014991	.078191
1	.081506	.123559	.243728	.784931
2	.114604	.140296	.368161	.990378
3	.117720	.135740	.421089	.972913
4	.065827	.084641	.320196	.573702
5	.034370	.047649	.262464	.325662
6	.029411	.036205	.257955	.251943
7-8	.020710	.026484	.205622	.168476
9-11	.013781	.019161	.145657	.113829
12-15	.009208	.012657	.100292	.080478
16-20	.006042	.008853	.081327	.056939
21-27	.004191	.004788	.051494	.037458
28-36	.002622	.003294	.032904	.022376
37-47	.001674	.001738	.021473	.012910
48-60	.001128	.001152	.014711	.008600

RUN NO. 33 16M 10-05-61 1050-1150 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.92828 10E 00	0.38338 10E 00	0.24733 10E 00	0.48468 10E 00	0.31268 10E 00	0.12914 10E 00
0	-.006596	-.342106	-.532034	-.093867	-.149215	.456876
1	.029339	-.169596	-.405696	-.065513	-.149468	.222923
2	.066404	-.111414	-.310904	-.062693	-.133885	.097758
3	.046820	-.068022	-.224915	.025710	-.056876	.043329
4	.020957	-.088418	-.131816	.082379	-.018909	.032277
5	.008418	-.089104	-.059835	.030538	-.058633	.051861
6	.005376	-.032308	.017529	-.051750	-.089831	.029409
7	-.040946	.050671	.071218	-.042962	-.055150	-.040804
8	-.037959	.089369	.105751	-.002839	-.032901	-.104401
9	-.009949	.106857	.090999	.022759	-.013241	-.128388
10	.003712	.087392	.074333	.015091	.022990	-.122089
11	.002456	.122049	.125783	.003752	.051321	-.128344
12	-.033794	.130642	.179443	-.004562	.058852	-.099393
13	-.039155	.111036	.204585	-.020785	.086742	-.126487
14	-.064767	.052288	.175381	.019556	.137142	-.098796
15	-.054190	.023452	.159605	.023851	.123889	-.073729
16	-.027408	-.003644	.148267	-.024007	.058672	-.018467
17	-.017168	-.020599	.120167	-.035615	.071421	-.006128
18	-.053105	-.044319	.046194	-.009772	.108197	.045041
19	-.076387	-.065231	.036702	.041266	.119428	.061440
20	-.077819	-.072834	.043321	.054887	.109803	-.101469
21	-.068473	-.011400	.044870	.058133	.108036	.017339
22	-.074163	-.023344	.054570	.033986	.084109	-.009051
23	-.092643	.016152	.052179	.040172	.092986	.032228
24	-.053951	.053194	.043816	.040267	.102515	.009505
25	.023947	.036715	.015783	.027904	.047701	-.028543
26	.058459	.038962	.010945	.116352	.024937	-.053706
27	.046709	.080248	-.012414	.084736	-.003901	-.035265
28	.009779	.109569	-.037147	.034782	.000851	-.002276
29	.007319	.118571	.006592	.034974	.003057	-.008033
30	.067446	.088690	.053696	-.007676	-.022273	-.042003

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	-.039255	-.028068	-.032771	-.089664	-.015927	.045923
1	.150912	-.177958	-.296667	-.728674	-.216136	.541200
2	.189654	-.213748	-.306314	-.339357	-.170636	.814917
3	.065387	-.250056	-.246839	-.255479	-.053635	.940718
4	.056233	-.120858	-.129935	-.482461	.002258	.470537
5	.039802	.004324	-.081481	-.330276	-.000908	.123325
6	.007226	-.002361	-.081892	-.412371	-.026355	.184920
7	-.004196	-.022657	-.054957	-.778652	-.049523	.211144
8	-.092031	-.025982	-.010607	-.825473	-.037322	.204220
9-11	-.045168	-.050699	-.011755	-.635026	-.025786	.331974
12-14	-.031967	-.058584	-.022050	.452249	.013601	.187168
15-21	-.030979	-.019263	-.011008	.122583	.011817	.128655
22-30	-.003366	-.036105	-.012654	-.167170	-.002948	.127499

RUN NO. 33 16M 10-05-61 1050-1150 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.92828 10E 00	0.38338 10E 00	0.24733 10E 00	0.48468 10E 00	0.31268 10E 00	0.12914 10E 00
1	-.023145	-.099397	-.156302	.000421	-.057511	.029543
2	-.029697	-.038945	-.167912	-.029868	-.095729	.042666
3	-.013480	.000755	-.137123	-.054903	-.120209	.070208
4	-.074816	.001416	-.141569	-.057514	-.150080	.059904
5	-.120415	.000735	-.167520	-.051848	-.165529	.061096
6	-.068308	-.053084	-.189211	-.049029	-.130440	.046485
7	-.015975	-.058272	-.186499	-.004315	-.097328	.049450
8	.010476	-.030544	-.184939	.008039	-.081886	.057944
9	.018544	-.045377	-.172221	.064574	-.004568	.046788
10	.061473	-.046330	-.146585	.093635	.039878	.036945
11	.103327	.018780	-.069202	.087795	.042029	.004165
12	.116172	-.040402	-.040372	.083330	.083688	-.013782
13	.180333	-.099919	-.028846	.106801	.136333	-.026927
14	.176698	-.021337	-.005921	.072749	.129147	.009063
15	.105235	.018997	.026335	.058862	.114216	-.012481
16	.058165	.033811	.060005	.085987	.091838	-.050256
17	-.017487	.103036	.091567	.066422	.035719	-.036626
18	-.053318	.091651	.060270	.018082	-.045989	-.013639
19	-.024087	.082038	.041663	-.028058	-.037631	.022022
20	.003899	.045651	.032033	-.032056	.014526	.051331
21	-.046705	.043357	.051603	-.126186	.012524	.008932
22	-.039342	.031115	.048878	-.167951	.035132	-.033637
23	-.009154	.011968	.013061	-.162103	.046946	.006245
24	-.027856	-.027453	-.027503	-.138085	.070017	.004700
25	-.075110	-.040611	-.015270	-.056056	.056372	-.034694
26	-.113545	-.016983	.013476	.035455	-.000965	.011451
27	-.165442	.056430	.025133	.032822	-.063377	.063892
28	-.163606	.034899	-.005212	.021287	-.099271	.057003
29	-.133962	-.006266	-.048806	.002880	-.099947	.042125
30	-.032856	-.081602	-.066079	.056979	-.041353	.009128

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-01	10E-01	10E-01	10E-02
1	.288757	-.441696	-.194075	.127886	-.005372	.252938
2	.013336	-.843139	-.204971	.043484	-.108741	.290525
3	-.379423	-.445731	-.165843	-.154016	-.196815	.318851
4	-.363595	.320286	-.056705	-.147772	-.159284	.176127
5	-.027259	-.019710	-.011411	-.027241	-.036404	.021705
6	.139977	-.359274	-.018757	-.021540	.019456	.022531
7	.026986	.003437	-.026614	.027626	-.013651	.069249
8	-.013313	.015179	-.032772	.039070	-.003927	.031045
9-11	.073202	-.553286	-.035025	.003106	.003523	.017928
12-14	-.052257	-.314133	-.026020	.008930	-.001930	-.009524
15-21	-.026058	-.263633	-.010585	.010390	-.002438	-.003588
22-30	.016297	-.013294	-.000313	.000921	-.000315	.021274

RUN NO. 33 16M 10-05-61 1050-1150 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.73426 10E 00	0.11736 10E 01	0.20017 10E 00	0.83309 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.624283	.644993	.238213	.670995
2	.309167	.343084	.043558	.398168
3	.197299	.174148	-.054773	.248701
4	.171309	.049450	-.068095	.140262
5	.155397	-.012192	-.060322	.062675
6	.076168	-.019630	-.005513	-.024495
7	.001932	-.034002	-.034625	-.120812
8	-.007390	-.054719	-.153213	-.209125
9	-.038705	-.074125	-.114252	-.257073
10	-.116439	-.047767	-.122804	-.279163
11	-.209532	-.098814	-.143384	-.321144
12	-.236577	-.195433	-.115437	-.307323
13	-.267235	-.233115	-.232367	-.306182
14	-.229587	-.222316	-.106755	-.280763
15	-.160179	-.178780	-.015430	-.238200
16	-.145365	-.128391	.076739	-.184209
17	-.174994	-.106365	.093595	-.088410
18	-.181025	-.129003	.219097	.008827
19	-.157338	-.144941	.098283	.016474
20	-.084731	-.129984	.069623	.018310
21	-.047721	-.112889	.001754	.011732
22	-.083942	-.098245	-.012712	.006415
23	-.091959	-.112789	.003407	.014425
24	-.100370	-.121106	.020187	.047371
25	-.121571	-.095436	-.005157	.077436
26	-.154205	-.057708	-.060442	.063554
27	-.104703	-.021556	-.101137	.074777
28	-.063603	.020196	-.024554	.071228
29	-.061922	.030079	.013631	.003405
30	-.035753	.044840	-.036919	-.064722

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.021475	.025659	.004348	.008668
1	.147014	.199160	.056367	.118628
2	.126547	.179754	.120292	.159029
3	.088933	.137824	.189884	.154562
4	.042866	.094284	.128115	.081239
5	.027832	.080912	.052338	.039331
6	.033530	.087471	.090645	.038741
7	.038269	.083542	.132038	.036961
8	.037489	.056770	.100937	.026257
9-11	.024554	.037474	.102964	.027428
12-14	.026258	.023417	.066197	.018916
15-21	.012225	.018899	.072415	.011881
22-30	.008381	.013561	.076621	.008851

RUN NO. 33 40M 10-05-61 1050-1150 EST

GROSS STATISTICS

CLEAR	WIND SPEED	5.81 M/SEC	WIND DIRECTION	316 DEG
UNSTABLE	SIGMA A	14.4 DEG	SOLAR RADIATION	1.10
LAND	SIGMA E	9.7 DEG	NET RADIATION	0.76

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>VARIANCES</u>				
U	0.24892E 01	0.15560E 01	0.71630E 00	0.12271E 01
V	0.20869E 01	0.13169E 01	0.72415E 00	0.96933E 00
W	0.70349E 00	0.66958E 00	0.50683E 00	0.41858E-00
T	0.24809E-00	0.96175E-01	0.38016E-01	0.81182E-01
E	0.26398E 01	0.17713E 01	0.97365E 00	

<u>GUSTINESS RATIOS</u>				
U	0.27155	0.21470	0.14567	0.19066
V	0.24864	0.19752	0.14647	0.16946
W	0.14436	0.14084	0.12253	0.11136

<u>COVARIANCES</u>				
U,V	-0.40187E-01	0.30406E-01	-0.17712E-01	0.15524E-01
U,W	-0.57739E 00	-0.43838E-00	-0.16608E-00	-0.40323E-00
U,T	-0.49657E-00	-0.24493E-00	-0.73014E-01	-0.22432E-00
V,W	-0.11208E-00	-0.11077E-00	-0.44756E-01	-0.87051E-01
V,T	-0.11941E-00	0.36918E-03	0.40137E-02	0.24818E-02
W,T	0.17898E-00	0.14309E-00	0.75551E-01	0.11482E-00
WE	0.28361E-00	0.22538E-00	0.89659E-01	

<u>NORMALIZED COVARIANCES</u>				
U,V	-0.01763	0.02124	-0.02459	0.01423
U,W	-0.43633	-0.42949	-0.27564	-0.56263
U,T	-0.63189	-0.63316	-0.44246	-0.71072
V,W	-0.09250	-0.11797	-0.07388	-0.13666
V,T	-0.16596	0.00104	0.02419	0.00885
W,T	0.42842	0.56387	0.54429	0.62287

RUN NO. 33 40M 10-05-61 1050-1150 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.72023 10E 00	0.60247 10E 00	0.16501 10E 00	0.60572 10E 00	0.16590 10E 00	0.13878 10E 00
0	-.024770	-.275736	-.442421	-.073608	.024321	-.544212
1	-.029640	-.267611	-.417146	-.064213	.027361	-.491207
2	-.034059	-.241749	-.372610	-.049190	.030290	-.402848
3	-.035401	-.201809	-.326052	-.041764	.030510	-.320054
4	-.034692	-.161563	-.278836	-.043648	.028975	-.248318
5	-.035339	-.128588	-.230038	-.045752	.026922	-.186969
6	-.036244	-.102222	-.177826	-.042519	.022695	-.135605
7	-.035602	-.077321	-.135477	-.036665	.021124	-.089207
8	-.023930	-.053662	-.103308	-.033716	.019311	-.051387
9	-.003498	-.026507	-.082490	-.030917	.012088	-.017230
10	.012576	.003167	-.067617	-.033824	-.004335	-.011972
11	.022245	.030646	-.053692	-.032127	-.024421	-.031050
12	.029306	.049122	-.034757	-.026462	-.038881	-.045959
13	.035300	.057672	-.018969	-.021659	-.045020	-.060311
14	.040289	.060153	-.008365	-.013983	-.042879	-.077438
15	.040398	.056855	.001241	-.007489	-.033237	-.092756
16	.036464	.048647	.021426	-.003912	-.022027	-.102030
17	.034202	.050420	.047970	.000477	-.016150	-.112160
18	.032492	.060066	.073466	.006789	-.014978	-.126065
19	.030219	.070385	.095929	.010839	-.011664	-.137244
20	.027410	.080379	.115193	.017576	-.004637	-.146721
21	.017581	.092455	.132353	.021300	-.005749	-.151808
22	.006335	.098634	.144610	.021839	-.009690	-.155942
23	.005261	.097772	.154529	.024413	-.013359	-.156116
24	.008646	.089093	.159119	.030055	-.018701	-.158206
25	.014335	.082873	.160077	.031039	-.022025	-.163851
26	.022355	.080510	.152539	.033864	-.018952	-.163669
27	.018007	.074305	.140313	.041340	-.013633	-.159670
28	.004912	.069943	.126544	.048911	-.009320	-.152157
29	-.002990	.060485	.116865	.053022	-.005035	-.138706
30	-.006530	.048059	.106639	.053287	.001341	-.116885
31	-.011523	.032463	.095955	.045797	.007256	-.095333
32	-.019690	.019807	.085934	.037002	.013784	-.077348
33	-.027886	.005434	.077501	.031717	.020408	-.062074
34	-.031224	-.006828	.069879	.028844	.022207	-.046716
35	-.034362	-.010926	.057495	.029563	.017335	-.033849
36	-.040802	-.011491	.049207	.030039	.014736	-.021957
37	-.044127	-.009572	.049299	.031741	.012759	-.012620
38	-.041082	-.008365	.052012	.030269	.008937	.000227
39	-.036960	-.006687	.056558	.027481	.010188	.017243
40	-.034895	-.003904	.059687	.024224	.011282	.027456
41	-.029291	.005075	.061729	.024296	.012683	.032910
42	-.022877	.012854	.068116	.024825	.016134	.034055
43	-.016769	.020280	.073570	.031888	.021799	.038506
44	-.009701	.028301	.069766	.037516	.023892	.043118
45	-.008220	.034190	.061501	.039555	.024141	.039106
46	-.005844	.038026	.055409	.041703	.021000	.033622
47	.002002	.035726	.053144	.041481	.015833	.032794
48	.010594	.029288	.050547	.031454	.005512	.030618
49	.020600	.012398	.043462	.015827	-.008260	.033731
50	.027374	-.006762	.031082	.003497	-.020457	.039906
51	.034301	-.017578	.019006	.001227	-.030166	.048137
52	.038441	-.025224	.010391	.003286	-.033723	.049900
53	.038371	-.029804	.004961	.005415	-.034182	.053150
54	.039217	-.034652	-.001197	.005863	-.028664	.054442
55	.038926	-.029064	-.003177	.002426	-.024734	.051740
56	.037772	-.022113	-.003418	-.004433	-.021513	.045484
57	.041097	-.028564	-.007319	-.009870	-.015547	.039265
58	.040860	-.032209	-.009496	-.016340	-.011192	.033820
59	.041135	-.030485	-.007948	-.022830	-.008982	.028028
60	.041568	-.030103	-.006558	-.027476	-.003529	.026134

RUN NO. 33 40M 10-05-61 1050-1150 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

H	U,V	U,W	U,T	V,W	V,T	W,T
	0.72023 10E 00	0.60247 10E 00	0.16501 10E 00	0.60572 10E 00	0.16590 10E 00	0.13878 10E 00
1	.012831	-.024954	-.022139	-.004580	.005725	-.002243
2	.014966	-.046359	-.046124	-.013413	.011178	.000691
3	.010169	-.067451	-.068808	-.019495	.012452	.007634
4	.003199	-.086985	-.087772	-.025150	.014298	.012231
5	-.001899	-.097778	-.103387	-.029454	.013751	.009725
6	-.004528	-.094823	-.106943	-.026944	.011304	.005000
7	-.010003	-.080495	-.103287	-.024985	.003652	.005455
8	-.015841	-.069961	-.095358	-.020815	-.007340	.010482
9	-.019374	-.063576	-.085422	-.019033	-.015881	.006143
10	-.022650	-.055928	-.077555	-.016116	-.021182	.000055
11	-.026809	-.052385	-.073720	-.011122	-.022520	-.005029
12	-.030275	-.043270	-.078505	-.003986	-.015565	-.002939
13	-.031274	-.032804	-.083183	-.003773	-.013032	.003968
14	-.030823	-.028314	-.084431	-.009869	-.017651	.008196
15	-.029399	-.026361	-.081617	-.016184	-.021469	.007683
16	-.027518	-.022853	-.080756	-.016037	-.019180	.006815
17	-.027585	-.017415	-.075902	-.013045	-.014361	.009006
18	-.028515	-.012173	-.066707	-.013737	-.014846	.008060
19	-.021739	-.009987	-.060742	-.015731	-.019980	.006629
20	-.015736	-.006414	-.055028	-.014781	-.023118	.009173
21	-.014436	.003364	-.038908	-.017877	-.023898	.012903
22	-.014957	.014454	-.023604	-.020733	-.024397	.018162
23	-.017573	.020142	-.015192	-.026108	-.025535	.027192
24	-.017136	.019046	-.008207	-.028691	-.028338	.031861
25	-.015238	.017902	-.004155	-.031288	-.035752	.034462
26	-.016577	.016545	-.003540	-.034030	-.044657	.036994
27	-.019767	.015525	-.006198	-.033139	-.048453	.037858
28	-.028656	.014129	-.004155	-.034430	-.049311	.037849
29	-.041027	.017049	.003715	-.031339	-.052215	.038339
30	-.048993	.025092	.012248	-.033412	-.058266	.036795
31	-.056768	.032306	.019665	-.037729	-.060090	.031183
32	-.065989	.032433	.020118	-.046351	-.059530	.024079
33	-.064526	.031060	.018940	-.047344	-.057099	.023762
34	-.055022	.027992	.022913	-.041312	-.050365	.021197
35	-.046174	.025054	.030733	-.033913	-.038387	.018655
36	-.039630	.025511	.036759	-.022374	-.028264	.015367
37	-.034683	.019151	.033398	-.015340	-.023960	.005980
38	-.024851	.014209	.030308	-.009850	-.019865	.001795
39	-.013020	.012322	.024421	-.009513	-.014187	-.003358
40	.003823	.009387	.013708	-.010124	-.010070	-.003979
41	.020205	.006125	.000602	-.005512	-.010916	.000685
42	.032564	-.000455	-.002175	.004845	-.009375	.002726
43	.043788	-.007488	.000115	.018205	-.000819	.001962
44	.050667	-.016965	-.003800	.027914	.010188	-.001657
45	.054605	-.020088	-.010129	.034387	.019336	-.003994
46	.062249	-.023691	-.015977	.035715	.023791	-.006125
47	.066086	-.021456	-.014003	.035826	.026767	-.004714
48	.067430	-.015682	-.010607	.041782	.037006	-.000642
49	.069851	-.007894	-.004855	.046792	.046929	.002834
50	.071857	.000220	.000657	.055011	.054540	.005663
51	.075817	.000564	.001270	.060677	.063701	.002668
52	.077435	.001007	-.000790	.066508	.074879	-.004096
53	.078538	-.000316	-.000938	.075118	.088840	-.013298
54	.080799	-.002458	.001800	.081010	.102057	-.017544
55	.084310	-.005654	.002942	.085257	.116255	-.023787
56	.085378	-.009173	.000967	.081747	.125869	-.026462
57	.080796	-.010333	-.001473	.080775	.127667	-.025410
58	.072378	-.009696	.000019	.072286	.123022	-.021483
59	.061927	-.010381	.000801	.049090	.115380	-.021419
60	.046444	-.007239	.003501	.027317	.103893	-.020424

RUN NO. 33 40M 10-05-61 1050-1150 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.71636 10E 00	0.72411 10E 00	0.50668 10E 00	0.38011 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.858107	.858424	.791614	.879470
2	.669382	.677753	.545397	.719810
3	.521088	.538889	.378624	.592280
4	.399396	.425524	.263098	.486776
5	.295406	.324625	.177522	.392127
6	.198130	.234863	.111892	.309661
7	.126534	.158746	.052067	.236186
8	.076491	.097428	-.003883	.171558
9	.036015	.050188	-.050015	.122201
10	.005540	.006937	-.082606	.081036
11	-.018227	-.036897	-.114290	.046494
12	-.040717	-.074055	-.140341	.013009
13	-.057941	-.102024	-.148170	-.024307
14	-.071020	-.126690	-.143491	-.061139
15	-.082559	-.148510	-.138912	-.091715
16	-.088641	-.174019	-.142128	-.124197
17	-.098353	-.202814	-.146397	-.162203
18	-.117078	-.226206	-.153651	-.202417
19	-.142951	-.240414	-.164880	-.241228
20	-.167292	-.254624	-.174433	-.275695
21	-.188037	-.262816	-.171407	-.300798
22	-.209618	-.258172	-.170368	-.316209
23	-.226332	-.236420	-.161834	-.325438
24	-.234688	-.216814	-.165724	-.327273
25	-.237877	-.203753	-.172202	-.319215
26	-.232283	-.198252	-.176237	-.309077
27	-.223887	-.201728	-.174123	-.296156
28	-.211762	-.199187	-.161410	-.279992
29	-.191903	-.183986	-.148749	-.261078
30	-.171741	-.161612	-.119673	-.236125
31	-.149739	-.134270	-.075159	-.206770
32	-.133452	-.113189	-.046282	-.177867
33	-.114076	-.098650	-.034605	-.153951
34	-.086610	-.083569	-.025965	-.128726
35	-.071673	-.063839	-.023002	-.105073
36	-.070331	-.040414	-.013784	-.081940
37	-.075566	-.017398	-.009809	-.065852
38	-.076038	.000979	-.001395	-.046880
39	-.082218	.014179	.011980	-.029779
40	-.085151	.023339	.029647	-.016194
41	-.079195	.023757	.045176	.000052
42	-.075996	.016210	.053048	.010399
43	-.078712	.000524	.055087	.021984
44	-.078720	-.010793	.043439	.035619
45	-.073447	-.015874	.014445	.047679
46	-.065269	-.015980	-.010957	.051700
47	-.055080	-.010017	-.018468	.050854
48	-.039297	-.004708	-.015689	.046241
49	-.024207	.010388	-.016003	.041802
50	-.011928	.023537	-.014893	.044816
51	.006359	.026225	-.012383	.045668
52	.028079	.028268	-.011962	.047056
53	.041441	.023998	.004578	.041711
54	.048715	.021634	.024173	.037269
55	.055475	.025448	.044118	.029871
56	.066110	.027999	.058810	.019263
57	.072695	.024617	.077366	.005691
58	.079525	.013147	.099840	-.013349
59	.077023	.005885	.098751	-.025363
60	.067398	.002299	.110589	-.031315

RUN NO. 33 40M 10-05-61 1050-1150 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
0	-.005731	-.038226	-.027804	-.014513	-.000689	.009390
1	-.006916	-.301137	-.192752	-.167591	.014784	.105557
2	-.045878	-.347377	-.176425	-.142539	.104097	.142548
3	-.127834	-.362275	-.135272	-.062163	.217926	.141986
4	-.095512	-.238737	-.067673	-.002688	.163743	.080329
5	-.024927	-.116928	-.028301	.008275	.082812	.049732
6	-.015834	-.104518	-.029533	-.006319	.056852	.047967
7-8	.025794	-.075499	-.035673	-.004334	-.023311	.035328
9-11	.021802	-.009335	-.013120	-.010967	-.066777	.018981
12-15	.002915	-.025712	-.003539	-.004496	.025033	.009619
16-20	-.003814	-.003171	-.001099	-.004648	-.014321	.006010
21-27	.004672	.001341	-.002497	-.006715	-.001054	.002912
28-36	.000149	.001030	-.000798	-.001286	-.001206	.001664
37-47	.000808	.000187	-.000381	-.000392	-.001350	.000922
48-60	.000471	-.000001	-.000274	-.000115	-.000368	.000421

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
1	-.165266	-.055568	-.591607	-.125475	-.419407	.216318
2	-.079657	-.111778	-.621658	-.055738	-.118904	.060110
3	.020462	-.161029	-.565634	.010764	.124090	-.060908
4	-.021906	-.120646	-.278681	-.022669	.026285	-.027861
5	-.016036	-.078131	-.128012	-.040793	-.018987	.052990
6	.055020	-.068612	-.121878	-.021173	.054299	.045685
7-8	.020082	-.041530	-.102027	-.016902	.075662	.001250
9-11	.011627	-.020379	-.061768	-.005022	.032052	.013760
12-15	.007411	-.000366	.020684	.003758	-.006240	-.011611
16-20	.005636	.007574	.011103	-.000177	-.008078	.001219
21-27	.003587	-.000835	.000612	.000917	.005503	-.012449
28-36	.000438	-.001247	.000739	.000590	.000554	.001961
37-47	.000863	-.000129	.001411	.001133	-.000400	-.000600
48-60	.000017	.000205	-.000981	-.000204	-.001264	-.000007

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.014091	.012098	.033309	.085287
1	.115266	.103420	.433045	.701257
2	.118844	.122778	.608568	.788971
3	.102806	.123166	.683501	.689564
4	.065121	.078692	.491353	.336035
5	.044201	.047253	.356592	.173938
6	.043937	.038550	.341960	.169180
7-8	.038723	.028895	.254865	.161676
9-11	.018832	.019698	.148330	.088053
12-15	.011466	.010664	.110066	.047047
16-20	.006221	.006304	.074819	.029778
21-27	.004708	.004705	.050650	.020753
28-36	.002875	.002773	.029727	.012409
37-47	.001606	.001747	.018871	.007476
48-60	.000962	.001056	.011513	.004608

RUN NO. 33 40M 10-05-61 1050-1150 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10902 10E 01	0.71680 10E 00	0.31556 10E 00	0.63703 10E 00	0.28045 10E 00	0.18439 10E 00
0	.014239	-.562539	-.710847	-.136653	-.008849	.622690
1	.044492	-.392307	-.565278	-.118174	-.009235	.389237
2	.045660	-.279061	-.400225	-.032765	-.011452	.234096
3	.027067	-.210244	-.268041	.023003	-.007877	.151862
4	.020844	-.129557	-.147739	.016243	-.004637	.121034
5	.023693	-.050488	-.062937	.019314	-.015314	.073409
6	.009778	.002172	-.010829	-.034103	-.017464	.020367
7	-.014809	.081166	.029976	-.067009	-.019545	-.069589
8	-.073158	.123562	.067049	.003643	-.008407	-.115751
9	-.087781	.165458	.132211	-.019489	-.010524	-.140917
10	-.046179	.228595	.218924	-.018887	-.048007	-.201125
11	-.026153	.219736	.241693	.003202	-.075568	-.206312
12	-.010973	.183650	.240304	.000163	-.061802	-.190360
13	.002034	.146187	.219014	.036779	-.019120	-.180957
14	-.035578	.115561	.182853	.122351	.056343	-.181036
15	-.021463	.102580	.190295	.079856	.056834	-.144098
16	.001408	.070916	.179563	.011485	.032279	-.098730
17	-.017515	.034457	.186545	.006967	.044611	-.063036
18	.014441	.077779	.192657	-.002839	.040238	-.092066
19	.040360	.058079	.171229	.000347	.039296	-.066463
20	.006093	.005080	.130888	.039201	.059973	-.013030
21	-.029686	.007003	.111497	.040303	.053965	.007480
22	-.073232	-.014352	.077317	.060323	.072074	.034572
23	-.087000	-.030882	.054181	.060884	.087150	.042608
24	-.066272	.036726	.046695	.043835	.093803	.038642
25	-.071573	-.004770	-.013332	.076767	.096774	.048053
26	-.034917	.005423	-.057311	.042336	.071703	.048943
27	-.009720	.045526	-.084283	.018697	.043895	.039743
28	-.011510	.048489	-.093689	.035452	.036394	.040732
29	.058521	.013451	-.098039	-.009422	.006906	.012299
30	.140239	.050118	-.025055	-.030823	-.068962	-.038444

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
0	-.032389	-.066164	-.045717	-.019419	-.042445	.012918
1	.083289	-.706199	-.513848	-.187615	-.575027	.176316
2	.160249	-.854515	-.534781	-.134358	-.089029	.225286
3	.206144	-.829718	-.400483	-.052099	.387869	.201478
4	.159002	-.476286	-.219990	-.006462	.144371	.098517
5	-.010965	-.191877	-.134043	-.030275	-.156281	.046050
6	-.054562	-.079634	-.090786	-.127575	-.220156	.032937
7	-.093302	-.091125	-.099781	-.141041	.072720	.036844
8	-.096597	-.140562	-.106428	-.067148	.274888	.042302
9-11	.056293	-.085588	-.040997	-.088923	-.097532	.039142
12-14	-.042164	-.065611	-.023725	.008323	.114376	.031584
15-21	-.026306	-.061442	-.018859	-.008375	.028102	.018715
22-30	-.011151	-.042266	-.011699	.015568	.015889	.015605

RUN NO. 33 40M 10-05-61 1050-1150 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10902 10E 01	0.71680 10E 00	0.31556 10E 00	0.63703 10E 00	0.28045 10E 00	0.18439 10E 00
1	-.024013	-.050924	-.106509	-.053965	-.022286	.040310
2	-.048162	-.045527	-.141280	-.072697	-.045252	.058880
3	-.045690	-.046929	-.156594	-.104869	-.059037	.079592
4	-.013105	-.044728	-.160484	-.046843	-.020903	.063251
5	.032085	-.061580	-.165737	-.016076	.012926	.032885
6	.020929	-.090994	-.160497	-.001947	.031911	-.009152
7	-.001369	-.073715	-.139059	-.036125	-.020954	-.007942
8	.008276	-.104589	-.145877	-.001673	-.044489	.010249
9	.041637	-.138078	-.170300	.059834	-.019965	.026853
10	.072966	-.104749	-.139391	.059359	.002146	.043246
11	.095807	-.063793	-.085110	.052325	.023444	.002885
12	.123927	-.061529	-.062307	.062649	.067556	-.028029
13	.147754	-.067969	-.049913	.046344	.099560	-.031570
14	.114193	-.045861	-.029075	.072369	.111431	-.015494
15	.088564	-.011962	-.011770	.069846	.105648	-.013244
16	.070250	.017828	-.006607	.062748	.078207	.001682
17	.016913	.005624	.005068	.055882	.060150	-.015881
18	-.016692	.031908	.028121	-.006605	.013868	.013776
19	-.045875	.109138	.083056	-.053319	-.015925	.029255
20	-.059951	.118209	.110357	-.062534	-.022663	.050844
21	-.072397	.097250	.116464	-.081571	-.029571	-.018178
22	-.064399	.065660	.091732	-.063721	-.005325	-.026006
23	-.063792	.030408	.048414	-.075119	.008274	-.038266
24	-.069875	.023072	.036128	-.059008	.018255	-.044542
25	-.101191	.008982	.037208	-.038049	-.012429	-.047698
26	-.112882	-.002710	.020156	.023731	-.011752	-.043171
27	-.103406	.002079	-.013993	.032562	-.028769	.001069
28	-.144452	.018161	-.028205	-.044931	-.101460	.043493
29	-.121751	.025431	-.015802	-.037274	-.141995	.055149
30	-.127333	.016130	-.015187	-.018481	-.141320	.058405

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.449718	-.340310	-.258140	.096184	.652038	.155711
2	.206356	-.340571	-.255431	.011914	-.060354	.216216
3	-.244568	-.144477	-.168943	-.174928	-.657760	.272123
4	-.276315	.052211	-.063094	-.184572	-.345389	.287267
5	-.002049	.009118	-.045608	-.066807	.225102	.159395
6	.043821	-.006131	-.025677	-.073422	.043946	.154819
7	-.082189	-.005133	-.028876	-.068678	-.430036	.295955
8	-.132604	-.059495	-.049127	-.026199	-.417019	.225329
9-11	-.070708	-.032949	-.015530	-.054081	-.132777	-.023050
12-14	.027426	-.018974	-.008860	.021341	.153015	-.017911
15-21	.011906	-.009653	-.006291	.002375	.012229	.011958
22-30	.004890	-.009714	-.002601	-.019123	-.027820	.013948

RUN NO. 33 40M 10-05-61 1050-1150 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12267 10E 01	0.96886 10E 00	0.41884 10E 00	0.81178 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.699930	.631567	.405770	.743663
2	.479606	.314426	.181197	.495555
3	.331827	.164749	.096082	.304210
4	.187124	.031834	.037193	.180704
5	.107408	-.032424	-.030949	.075344
6	.053430	-.097527	.031026	-.037235
7	-.027515	-.145050	-.121670	-.116552
8	-.096315	-.122822	-.196067	-.160538
9	-.186484	-.130473	-.202149	-.230322
10	-.251122	-.154672	-.259027	-.335753
11	-.257134	-.151461	-.255066	-.388866
12	-.264265	-.149107	-.157199	-.397359
13	-.218441	-.138149	-.165957	-.370203
14	-.186501	-.163741	-.166977	-.315573
15	-.167333	-.150968	-.076537	-.231108
16	-.164664	-.056246	.003645	-.185668
17	-.201394	.037872	.052335	-.147063
18	-.240856	.019226	-.021620	-.138730
19	-.243474	-.043518	-.016334	-.100281
20	-.182316	-.106778	.015676	-.017259
21	-.177894	-.115115	.076870	.012415
22	-.156841	-.075699	.089431	.039037
23	-.133830	-.105035	.088673	.049752
24	-.148290	-.115998	.047540	.073828
25	-.081118	-.086508	.023179	.131679
26	-.037281	-.074695	-.001340	.145499
27	-.029511	-.027960	.033119	.134274
28	-.017162	.017038	.058859	.100756
29	.036926	.035753	-.035143	.052953
30	.026738	.067156	-.059133	-.011153

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.030838	.016089	.019312	.009188
1	.269547	.126870	.295819	.137731
2	.250361	.129963	.478687	.180343
3	.188923	.132776	.566962	.162183
4	.119492	.106061	.360012	.080114
5	.068022	.070969	.176121	.039679
6	.037422	.065072	.130778	.034284
7	.045246	.062007	.166556	.039861
8	.056003	.038619	.198717	.036459
9-11	.031970	.031741	.189481	.016928
12-14	.017099	.024548	.114993	.015638
15-21	.016362	.015898	.128812	.007453
22-30	.013834	.011226	.105657	.006656

RUN NO. 33 16M 10-05-61 1050-1150 EST
 RUN NO. 33 40M 10-05-61 1050-1150 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.777248	.659936	.453049	.703506
1	.638102	.722718	.677921	.649661
2	.557083	.673718	.677019	.661207
3	.470988	.620490	.589035	.653185
4	.349204	.535615	.526955	.533682
5	.215217	.483747	.576405	.322349
6	.094990	.425124	.598276	.267918
7-8	.056252	.321759	.451646	.144358
9-11	.072397	.175844	.299868	.227382
12-15	.157872	.194710	.286644	.158458
16-20	.111134	.108857	.103970	.150824
21-27	.096620	.089999	.165920	.075625
28-36	.132986	.120021	.138171	.155217
37-47	.114082	.127417	.170640	.175875
48-60	.063477	.110497	.127119	.108538

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.973571	.975300	.871450	.924084
1	.928459	.944036	.793372	.916754
2	.879731	.892492	.782833	.905014
3	.811407	.835867	.778273	.885787
4	.798296	.838470	.699075	.812139
5	.817135	.882418	.409344	.719293
6	.698837	.920888	.460445	.745284
7	.633140	.855639	.563524	.654935
8	.644740	.645171	.606556	.524782
9-11	.590266	.657433	.794608	.687776
12-14	.576686	.749055	.681589	.740176
15-21	.415724	.549501	.543288	.583264
22-30	.198183	.430957	.581161	.290804

RUN NO. 34 16M 10-05-61 1339-1439 EST

GROSS STATISTICS

CLEAR	WIND SPEED	4.70 M/SEC	WIND DIRECTION	288 DEG
UNSTABLE	SIGMA A	17.6 DEG	SOLAR RADIATION	0.80
LAND	SIGMA E	8.5 DEG	NET RADIATION	0.50

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>VARIANCES</u>				
U	0.17871E 01	0.10511E 01	0.43491E-00	0.82838E 00
V	0.20196E 01	0.11958E 01	0.50843E 00	0.95912E 00
W	0.39222E-00	0.36798E-00	0.29676E-00	0.19229E-00
T	0.95029E-01	0.60722E-01	0.32990E-01	0.45030E-01
E	0.20995E 01	0.13077E 01	0.62007E 00	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>GUSTINESS RATIOS</u>				
U	0.28443	0.21813	0.14031	0.19365
V	0.30237	0.23267	0.15171	0.20837
W	0.13325	0.12907	0.11591	0.09330

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>COVARIANCES</u>				
U,V	0.11007E-00	-0.59798E-01	-0.13015E-01	-0.47986E-01
U,W	-0.21602E-00	-0.20400E-00	-0.78033E-01	-0.16321E-00
U,T	-0.23632E-00	-0.12401E-00	-0.39380E-01	-0.10226E-00
V,W	0.12949E-00	0.48433E-01	0.88490E-02	0.45597E-01
V,T	0.43419E-01	0.19956E-01	0.26442E-02	0.19631E-01
W,T	0.83569E-01	0.68954E-01	0.37997E-01	0.50806E-01
WE	0.37254E-01	0.37688E-01	-0.87888E-02	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>NORMALIZED COVARIANCES</u>				
U,V	0.05794	-0.05334	-0.02768	-0.05383
U,W	-0.25802	-0.32802	-0.21721	-0.40893
U,T	-0.57346	-0.49088	-0.32877	-0.52946
V,W	0.14549	0.07301	0.02278	0.10617
V,T	0.09911	0.07406	0.02042	0.09448
W,T	0.43286	0.46129	0.38402	0.54600

RUN NO. 34 16M 10-05-61 1339-1439 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.47029 10E 00	0.35923 10E 00	0.11981 10E 00	0.38842 10E 00	0.12954 10E 00	0.98951 10E-01
0	-.027768	-.217419	-.328743	.022578	.020354	.383917
1	-.020862	-.184726	-.290788	.024392	.022770	.340830
2	-.006343	-.144385	-.229165	.017761	.023167	.270869
3	.004759	-.114922	-.176287	.008524	.013695	.207912
4	.008163	-.090282	-.132606	-.006266	.008912	.151251
5	.009935	-.067942	-.094351	-.022398	.005245	.102810
6	.008601	-.054011	-.067849	-.031280	.006104	.069583
7	.003959	-.052455	-.046681	-.029272	.010158	.042864
8	.002943	-.049406	-.024786	.014569	.010941	.016189
9	-.000342	-.040788	-.010380	-.000089	.018752	-.005073
10	-.006547	-.023776	.003261	.019359	.028967	-.027822
11	-.008038	-.003737	.015811	.032242	.030803	-.048379
12	-.008256	.015282	.028156	.034772	.023488	-.071372
13	-.016756	.032779	.039906	.030729	.009884	-.080758
14	-.026568	.039986	.049380	.027389	-.002100	-.085376
15	-.029108	.037317	.050251	.028392	-.004898	-.089954
16	-.027108	.034470	.048352	.032882	-.003727	-.083767
17	-.023236	.031537	.044783	.024016	-.009920	-.072855
18	-.011848	.027776	.036147	.010213	-.019272	-.066056
19	-.001342	.030656	.028863	.000401	-.025341	-.067196
20	.003778	.031253	.022388	-.001917	-.023652	-.076882
21	-.002454	.027060	.016504	-.003875	-.029880	-.086627
22	-.004294	.022188	.012595	-.010417	-.041598	-.092423
23	-.003953	.023469	.015979	-.020225	-.055151	-.092822
24	-.005365	.018490	.019828	-.030511	-.064739	-.090361
25	-.005120	.016504	.022457	-.038198	-.072063	-.088851
26	-.003599	.013191	.016150	-.040108	-.078487	-.089505
27	-.001373	.021223	.008121	-.040930	-.081468	-.082947
28	.002489	.027839	.005891	-.033991	-.077199	-.067931
29	.014573	.027966	.005873	-.026238	-.075971	-.049239
30	.018556	.023944	.006112	-.018668	-.072655	-.035124
31	.011914	.023086	.009885	-.001615	-.060447	-.022421
32	.002078	.029376	.020637	.005057	-.042884	-.010361
33	-.006066	.038338	.035200	.008160	-.023914	-.004221
34	-.012179	.045245	.050875	.011681	-.003112	-.009971
35	-.013977	.036978	.059307	.014542	.010084	-.005040
36	-.015762	.030125	.058080	.019285	.017448	.001332
37	-.013483	.024439	.051988	.022357	.024733	.006041
38	-.009774	.026040	.055541	.019529	.034714	.003999
39	-.002560	.040731	.062630	.015732	.042262	.003042
40	.002836	.047813	.065504	.011876	.044626	-.002948
41	.001324	.047091	.065964	.004153	.051730	-.006616
42	.009041	.048875	.070134	.000717	.057227	-.010921
43	.017568	.041301	.071486	.012788	.062534	-.009167
44	.026618	.036995	.065445	.024064	.071549	-.002758
45	.028562	.033895	.051554	.032065	.078842	.001944
46	.016293	.027281	.041049	.033016	.083352	.009954
47	.002680	.021996	.033596	.032989	.088982	.020001
48	-.006110	.021274	.027193	.027486	.096802	.021916
49	-.013111	.025426	.021161	.025569	.101498	.022375
50	-.013377	.027733	.016511	.023692	.100238	.022597
51	-.005804	.031516	.012674	.018282	.083325	.029829
52	-.000497	.031784	.014497	.011344	.063371	.031904
53	.007107	.025547	.006478	.006320	.050475	.035510
54	.020630	.022722	-.005989	.003570	.038089	.039027
55	.032901	.022367	-.005846	.002175	.031212	.035790
56	.036454	.017723	.001241	.006631	.025398	.030513
57	.040401	.009118	.003674	.007293	.012860	.028457
58	.042357	-.004229	-.001651	.005494	-.006372	.022563
59	.040043	-.007250	-.003465	-.003802	-.026460	.014424
60	.035270	-.004456	-.000547	-.017452	-.039675	.008885

RUN NO. 34 16M 10-05-61 1339-1439 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.47029 10E 00	0.35923 10E 00	0.11981 10F 00	0.38842 10E 00	0.12954 10E 00	0.92951 10E-01
1	.026032	-.055428	-.043214	.015071	.001597	-.001021
2	.049378	-.094952	-.073177	.022250	.002200	.008185
3	.064954	-.121428	-.093974	.020527	.005092	.019477
4	.077381	-.128948	-.109388	.013820	.007979	.030146
5	.091491	-.121561	-.120490	.004598	.009792	.039085
6	.107726	-.107167	-.133074	.007548	.015267	.044891
7	.122407	-.099727	-.140736	.019284	.021629	.049277
8	.129542	-.095055	-.140662	.030817	.023458	.050952
9	.137396	-.091344	-.140125	.034355	.020117	.054479
10	.144355	-.089242	-.131173	.035102	.018008	.054963
11	.142879	-.083392	-.119131	.032429	.015697	.054251
12	.135374	-.068414	-.107200	.018656	.012553	.054486
13	.130221	-.058054	-.099867	.010961	.010873	.052290
14	.122061	-.048753	-.089546	.011899	.011627	.051338
15	.117060	-.030668	-.071214	.017120	.006361	.056517
16	.115198	-.011431	-.053309	.024016	.001342	.064407
17	.114134	-.004838	-.040057	.035701	-.000531	.063216
18	.105904	.005766	-.033901	.041294	-.006792	.057206
19	.094163	.019667	-.026484	.031446	-.007272	.051638
20	.075044	.032105	-.014573	.021708	-.002954	.052029
21	.053583	.049335	-.003296	.005393	.001530	.053497
22	.035690	.062303	.000408	-.012896	.003224	.047363
23	.024674	.067103	-.001064	-.022264	.008886	.044982
24	.022047	.060015	-.002782	-.018303	.014840	.045185
25	.026009	.057298	-.001823	-.014108	.015615	.049519
26	.026918	.061629	-.004164	-.010230	.016796	.054831
27	.021949	.063651	-.011581	.000275	.015302	.054534
28	.008451	.054171	-.016095	.009101	.009556	.038180
29	-.002732	.042632	-.022130	.017394	.003971	.024236
30	-.011743	.035948	-.027624	.019501	.003772	.013290
31	-.014594	.032902	-.031038	.012699	.005656	.002179
32	-.014402	.024565	-.031137	.009507	.007780	-.002213
33	-.009834	.012911	-.034086	.003831	.005047	-.003625
34	-.009518	.008697	-.034913	.001008	.001823	-.002717
35	-.012937	.009451	-.029047	-.002870	-.000026	-.009156
36	-.012348	.004014	-.021242	-.008550	.005480	-.017684
37	-.005070	-.002840	-.017395	-.013282	.016855	-.023302
38	.004471	-.006619	-.016269	-.014774	.024566	-.019493
39	.011589	-.010794	-.017577	-.012983	.020255	-.021548
40	.011045	-.019217	-.017360	-.014356	.012354	-.020846
41	.008525	-.023193	-.019851	-.011092	.007457	-.031005
42	.007279	-.033720	-.023747	-.005104	.000700	-.045890
43	.001532	-.043397	-.022882	-.000293	-.003821	-.059910
44	-.004245	-.046171	-.015483	-.004963	-.012990	-.061990
45	-.005897	-.047738	-.011219	-.009863	-.024036	-.046095
46	-.012182	-.050704	-.008124	-.010906	-.027499	-.035659
47	-.014720	-.041548	-.005061	-.009649	-.025832	-.024746
48	-.009298	-.035145	-.000996	-.008720	-.023202	-.022629
49	-.001524	-.031294	.002851	-.006106	-.017889	-.027183
50	-.002017	-.035150	.002396	-.000211	-.016434	-.034353
51	-.006143	-.037868	.002406	.002983	-.014070	-.037941
52	-.011217	-.028572	.007290	.013958	-.009661	-.035634
53	-.015008	-.023028	.006443	.028514	-.004832	-.029753
54	-.022732	-.010990	.007549	.033257	-.000875	-.020838
55	-.029222	-.000489	.013986	.022637	.002122	-.016127
56	-.036205	.006201	.023640	.007577	.001219	-.014666
57	-.034970	.013315	.028885	.002391	.001489	-.005617
58	-.027415	.023353	.029987	.000274	.007327	-.001636
59	-.020203	.026284	.028056	.000130	.012586	.001923
60	-.015180	.028613	.026259	.009107	.016748	.007553

RUN NO. 34 13M 10-05-61 1339-1439 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.43495 10E 00	0.50849 10E 00	0.29669 10E 00	0.33001 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.827013	.850842	.754347	.858229
2	.633191	.661767	.498806	.681045
3	.491637	.521588	.324082	.540883
4	.385425	.418767	.207164	.425199
5	.308295	.335551	.123888	.329801
6	.242464	.263879	.063092	.247555
7	.186707	.195592	.023505	.174366
8	.140600	.136584	-.015153	.107195
9	.095133	.094498	-.042961	.042994
10	.049140	.059019	-.072607	-.007047
11	.008579	.027101	-.099527	-.046666
12	-.019257	-.002862	-.124674	-.080066
13	-.053696	-.022206	-.136163	-.110922
14	-.090813	-.044557	-.138126	-.143948
15	-.120427	-.078855	-.141653	-.172704
16	-.140613	-.114128	-.141158	-.190996
17	-.157184	-.139941	-.139548	-.206278
18	-.173227	-.169491	-.147774	-.226540
19	-.182845	-.200533	-.160805	-.242369
20	-.181256	-.223197	-.179963	-.262246
21	-.181779	-.236672	-.188836	-.273036
22	-.176889	-.237716	-.181625	-.273365
23	-.173964	-.237621	-.169096	-.278738
24	-.164105	-.240140	-.158587	-.273837
25	-.149175	-.239810	-.146640	-.263437
26	-.140891	-.235040	-.130020	-.240546
27	-.133674	-.218219	-.138747	-.210018
28	-.137702	-.196451	-.131062	-.183957
29	-.146116	-.182068	-.109623	-.148102
30	-.147443	-.165302	-.080556	-.112199
31	-.140799	-.138394	-.051602	-.074267
32	-.133035	-.106693	-.017866	-.050991
33	-.130983	-.081996	.015606	-.043431
34	-.125910	-.072313	.029610	-.042332
35	-.116650	-.072588	.037231	-.040982
36	-.104218	-.068725	.027015	-.032837
37	-.100909	-.070819	.011447	-.023650
38	-.097711	-.078790	.006197	-.013311
39	-.095335	-.085697	.014863	-.005425
40	-.091835	-.085108	.034112	.000868
41	-.088290	-.073214	.051268	.004745
42	-.087265	-.060854	.051042	.007539
43	-.085374	-.059064	.046041	.016178
44	-.089891	-.062377	.048876	.028346
45	-.085756	-.053623	.044816	.038502
46	-.071890	-.038106	.026835	.048963
47	-.053974	-.031415	.012090	.059227
48	-.025935	-.030018	.012919	.065831
49	-.009161	-.026737	.005424	.071687
50	.002596	-.022860	.002868	.076166
51	.002570	-.018950	-.002365	.075307
52	-.003227	-.027280	-.012559	.069402
53	-.003935	-.034222	-.012828	.064776
54	.000522	-.035150	-.018662	.053440
55	-.001728	-.035645	-.027301	.034239
56	-.009698	-.033768	-.031136	.013607
57	-.007743	-.020534	-.013873	.002644
58	.003215	-.006910	.005608	-.005142
59	.013151	.011055	.010379	-.019525
60	.023949	.030860	.014925	-.031181

RUN NO. 34 16M 10-05-61 1339-1439 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-02	10E-02
0	-.108715	-.022507	-.120066	.052945	-.030416	.038281
1	-.281691	-.153091	-.700834	.117566	-.019281	.416308
2	-.009744	-.127667	-.544427	.158482	.232941	.576537
3	.116185	-.103478	-.463207	.046135	.195665	.652281
4	.150395	-.087910	-.486006	-.327627	-.129393	.479450
5	.110978	-.065035	-.407002	-.296465	-.113256	.313289
6	-.087283	-.035093	-.239291	.081437	.021064	.260567
7-8	-.177048	.014230	-.158245	.333187	.015629	.196835
9-11	-.134366	-.017361	-.102058	.213379	.030903	.077784
12-15	-.062754	-.021862	-.071815	.033173	.013399	.079884
16-20	-.031924	-.005074	-.035806	-.059926	-.009855	.029727
21-27	-.032049	-.003961	-.020213	-.001490	-.000880	.015212
28-36	-.010428	-.004175	-.011652	.006278	-.002244	.010522
37-47	.006972	-.001833	-.005148	-.002508	-.003344	.005317
48-60	-.000983	-.001343	-.002972	-.008761	.001470	.002464

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-03	10E-02
1	.279968	-.016602	-.571615	.377368	.985226	-.340631
2	.250710	-.060952	-.453156	.389956	.602764	.293782
3	.207954	-.144588	-.463352	.326409	.321064	.124699
4	.105750	-.139265	-.433197	.187159	.569113	.007832
5	.026119	-.073907	-.281619	.079675	.520945	.028159
6	.005346	-.038310	-.116249	-.078825	.260243	.026844
7-8	.002646	-.028652	-.033435	.021084	-.148373	.000240
9-11	.002101	-.026048	-.022169	-.012998	-.087830	-.000198
12-15	.004041	-.015908	-.014675	.094447	-.099604	-.012248
16-20	.001627	-.002598	-.013362	.057735	.071520	-.006358
21-27	.001667	.000381	-.005127	.004733	-.015099	-.004160
28-36	-.001113	-.000351	-.001005	-.001085	-.006670	-.002012
37-47	.000067	-.000396	-.002787	.001825	.015036	-.001000
48-60	.000127	-.000405	.000590	-.002947	-.002757	-.000176

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-02
0	.103874	.124088	.017730	.054233
1	.733993	.895631	.205378	.449311
2	.704633	.896446	.308622	.561244
3	.610522	.788218	.378196	.586595
4	.427840	.472791	.278144	.375105
5	.288292	.258862	.187200	.207301
6	.193171	.219401	.174835	.155033
7-8	.144628	.225055	.152660	.147756
9-11	.120753	.133723	.098637	.073779
12-15	.077152	.073712	.075933	.049591
16-20	.051166	.055358	.045233	.033174
21-27	.031483	.037584	.031648	.019169
28-36	.020395	.019685	.020615	.012704
37-47	.014563	.012386	.013766	.008174
48-60	.009664	.007933	.010340	.005081

RUN NO. 34 16M 10-05-61 1339-1439 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,M	U,T	V,M	V,T	W,T
	0.89079 10E 00	0.39879 10E 00	0.19304 10E 00	0.42884 10E 00	0.20759 10E 00	0.92934 10E-01
0	-.053869	-.409253	-.529718	.106325	.094565	.546686
1	-.051569	-.310151	-.415499	.111145	.092569	.308225
2	-.051504	-.204203	-.319640	.071135	.083671	.195647
3	-.032552	-.120219	-.221916	.049622	.066077	.152883
4	-.029890	-.032042	-.106619	.047905	.109484	.104689
5	-.027594	.029012	-.035834	.009099	.108148	.079264
6	-.022554	.040345	.016484	-.039560	.036185	.020927
7	-.033107	.045054	.055745	-.066090	.014782	-.034632
8	-.043489	.061755	.102713	-.066095	.010728	-.089994
9	-.064589	.100246	.124194	-.007390	-.010741	-.094481
10	-.058709	.110380	.126705	.017830	-.015305	-.109433
11	-.022835	.143789	.159133	.003343	-.056342	-.120882
12	-.010190	.156453	.151254	-.003293	-.070902	-.180071
13	.041223	.167117	.145277	-.008556	-.100132	-.232003
14	.128276	.151161	.155202	-.063157	-.164802	-.177640
15	.189226	.144515	.156109	-.081872	-.169712	-.116235
16	.225451	.122257	.143242	-.088172	-.142704	-.113123
17	.197218	.063120	.108243	-.054040	-.086854	-.112717
18	.143602	.036931	.076968	-.049445	-.034812	-.129263
19	.098879	-.011366	.039183	.005795	.028751	-.070897
20	.033003	-.092088	.012206	.026915	.087102	-.022248
21	-.021429	-.098972	-.013073	.019580	.090374	-.010626
22	-.054613	-.087556	.013782	.055374	.068968	-.019590
23	-.104626	-.082327	.031960	.080369	.103081	.043727
24	-.127590	-.079112	.056037	.078734	.118241	.050907
25	-.153770	-.071158	.035236	.082201	.126210	.064372
26	-.158394	-.062324	.055845	.057918	.087013	.077961
27	-.094399	-.024220	.060214	-.005311	.007093	.060074
28	-.034163	-.009169	.020974	-.009715	-.046529	.077195
29	.008515	.046706	.019781	.001584	-.089459	.068294
30	.057385	.049081	-.032027	-.003487	-.110922	.089679

COSPECTRUM

K	U,V	U,M	U,T	V,M	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-01
0	-.006318	-.010877	-.023965	.012088	.013206	.006304
1	-.320337	-.218549	-.219082	.092988	.090476	.085215
2	-.337555	-.350765	-.233625	.124819	.109210	.101453
3	.071363	-.338898	-.200886	.098746	.059216	.078192
4	.248556	-.142016	-.111347	.051564	-.036517	.032348
5	-.133379	-.106889	-.070425	.096108	-.015563	.019375
6	-.187148	-.136258	-.060301	.072162	.015311	.018530
7	.006355	-.100869	-.034468	-.012348	-.008926	.018680
8	.054088	-.071397	-.023215	-.046743	-.023424	.014892
9-11	-.002099	-.032289	-.016455	-.002095	.003675	.013623
12-14	-.008928	-.010888	-.006249	.026051	.013045	.013129
15-21	.008810	-.019524	-.007914	-.003496	-.005056	.010989
22-30	-.003523	-.010152	-.008733	-.008275	.002035	.009595

RUN NO. 34 16M 10-05-61 1339-1439 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.89079 10E 00	0.39879 10E 00	0.19304 10E 00	0.42884 10E 00	0.21759 10E 00	0.92934 10E-01
1	.108882	-.072767	-.131008	.030834	.027265	.088949
2	.143043	-.009979	-.145557	.017316	.047670	.118148
3	.115304	-.070856	-.189064	-.001607	.059162	.052451
4	.090058	-.109585	-.163081	-.042957	.058481	-.014179
5	.039378	-.121484	-.127773	-.06265C	.044411	-.045388
6	-.007675	-.100042	-.087104	-.061476	.051682	-.071616
7	-.046800	-.096852	-.063436	-.068249	.035461	-.078365
8	-.087868	-.093547	-.078042	-.081661	-.030290	-.078652
9	-.086992	-.106801	-.081737	-.072233	-.068539	-.054457
10	-.078687	-.081766	-.079293	-.038308	-.072449	-.048898
11	-.064643	-.081150	-.101132	-.012579	-.048553	-.000053
12	-.061739	-.056110	-.125489	.014197	-.026132	.046206
13	-.040577	-.043817	-.098136	.027893	-.003748	-.001594
14	-.037471	.003848	-.068511	.017186	-.010425	-.013081
15	.010990	-.000777	-.075199	-.001951	.040068	-.009651
16	.044094	-.044405	-.057858	.033177	.074394	-.017850
17	.053199	-.044456	-.037260	.053206	.066452	.005808
18	.054894	-.015011	-.005422	.084028	.063101	-.001567
19	.075798	.002726	-.013072	.004555	.028897	-.029837
20	.072863	.003157	-.018206	-.026487	-.004589	-.016050
21	.085227	.011957	.017185	-.015952	-.001253	.025269
22	.099206	.016731	.049381	-.017494	.013570	.023967
23	.070649	.025488	.077194	.010211	-.033777	.026771
24	.043827	.043290	.066224	.036035	-.010395	.053399
25	.048137	.051333	.072207	.003986	.022989	.040657
26	.051593	.060496	.097831	.018812	.055785	-.012074
27	.047310	.050519	.105636	-.006945	.082679	.025360
28	.019256	.006773	.056681	-.015217	.051316	.021980
29	-.012179	.060734	.030421	.015281	-.006321	.066100
30	-.021322	.061799	.043540	.041868	-.026990	.058752

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
1	-.049166	-.243981	-.159917	-.709857	.144731	-.167385
2	-.103426	-.185164	-.111348	-.982042	.017784	-.130780
3	.163772	-.110820	-.058290	-.891251	.219826	-.042902
4	.400669	-.048451	-.048959	-.050003	.595792	.061963
5	.335326	-.006837	-.059172	.551279	.514943	.197069
6	.232510	.006951	-.055348	.479852	.041187	.280227
7	.167029	-.008899	-.042127	.399836	-.122129	.230020
8	.114196	-.007569	-.020483	.303702	-.063719	.152758
9-11	.046941	.015455	-.007292	.176921	.036637	.100308
12-14	.049095	-.006226	-.001835	.097057	.019750	.044693
15-21	.018244	-.030026	-.008602	.020557	-.000885	.001771
22-30	-.006481	-.022048	-.006757	.035808	-.007809	-.005759

RUN NO. 34 16M 10-05-61 1339-1439 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVIARIANCE

M	U	V	W	T
	0.02837 10E 00	0.95791 10E 00	0.19198 10E 00	0.44987 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.749633	.720453	.355314	.607425
2	.513969	.445475	.126020	.317329
3	.347676	.246277	.085033	.182785
4	.181355	.067896	.040193	.062026
5	.068725	-.065930	-.034270	.000189
6	-.010819	-.136429	-.011481	-.101725
7	-.078472	-.205803	-.036274	-.146236
8	-.135224	-.219879	-.127792	-.143907
9	-.176846	-.259172	-.194156	-.082405
10	-.209928	-.268448	-.066201	-.103630
11	-.241070	-.251610	-.028944	-.124821
12	-.251391	-.217795	-.127447	-.159347
13	-.279157	-.140906	-.240786	-.222841
14	-.283485	-.081462	-.244320	-.208268
15	-.265611	-.059517	-.171898	-.133578
16	-.246198	-.028401	-.183472	-.079311
17	-.212316	-.021665	-.131146	-.129293
18	-.158398	.009452	-.091662	-.132304
19	-.096348	.088871	-.062592	-.070517
20	-.088157	.142558	-.010469	-.007989
21	-.083887	.154429	.034023	-.005587
22	-.083038	.097960	.041274	-.067404
23	-.074900	.038877	.135489	-.071232
24	-.059240	-.013635	.050725	-.061627
25	-.059600	-.068672	.039068	.032830
26	-.057594	-.137269	.118784	.012635
27	-.043084	-.136157	.091856	-.022007
28	-.059314	-.125641	.111246	.041026
29	-.126084	-.075783	.081812	.056053
30	-.072600	-.048626	.082692	.047482

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.019245	.019482	.006815	.072938
1	.173727	.117250	.160692	.616705
2	.175954	.145895	.220370	.651524
3	.141261	.183385	.185479	.593267
4	.079790	.132650	.098951	.422965
5	.054284	.079206	.105998	.345760
6	.048203	.059133	.112812	.321426
7	.035571	.040955	.080746	.251717
8	.024080	.040499	.057333	.156707
9-11	.018050	.023004	.087439	.118392
12-14	.010689	.015536	.046620	.130356
15-21	.009273	.011384	.069268	.082059
22-30	.006275	.008009	.056685	.061844

RUN NO. 34 40M 10-05-61 1339-1439 EST

GROSS STATISTICS

CLEAR	WIND SPEED	5.05 M/SEC	WIND DIRECTION	291 DEG
UNSTABLE	SIGMA A	17.7 DEG	SOLAR RADIATION	0.80
LAND	SIGMA E	10.7 DEG	NET RADIATION	0.50

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>VARIANCES</u>				
U	0.26269E 01	0.13785E 01	0.48908E-00	0.11515E 01
V	0.22310E 01	0.12554E 01	0.51568E 00	0.10118E 01
W	0.75284E 00	0.70740E 00	0.48968E-00	0.47640E-00
T	0.11064E-00	0.53989E-01	0.23046E-01	0.43888E-01
E	0.28053E 01	0.16709E 01	0.76724E 00	

GUSTINESS RATIOS

U	0.32094	0.23249	0.13848	0.21249
V	0.29577	0.22187	0.14220	0.19918
W	0.17181	0.16655	0.13857	0.13668

COVARIANCES

U,V	0.14077E-00	0.11341E-01	0.60844E-01	-0.40837E-02
U,W	-0.33143E-00	-0.32452E-00	-0.86273E-01	-0.29749E-00
U,T	-0.35102E-00	-0.16170E-00	-0.43385E-01	-0.14695E-00
V,W	0.14572E-00	0.24422E-02	-0.67413E-01	0.31576E-01
V,T	0.13560E-00	0.32790E-01	-0.68137E-02	0.34485E-01
W,T	0.13508E-00	0.10133E-00	0.42206E-01	0.82855E-01
WE	0.21324E-00	0.17721E-00	0.76719E-01	

NORMALIZED COVARIANCES

U,V	0.05815	0.00862	0.12115	-0.00378
U,W	-0.23568	-0.32863	-0.17629	-0.40165
U,T	-0.65112	-0.59275	-0.40865	-0.65318
V,W	0.11244	0.00259	-0.12420	0.04549
V,T	0.27293	0.12595	-0.06250	0.16365
W,T	0.44807	0.51852	0.45378	0.57301

RUN NO. 34 40M 10-05-61 1339-1439 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.50217 10E 00	0.48925 10E 00	0.10614 10E 00	0.50246 10E 00	0.10901 10E 00	0.10620 10E 00
0	.121097	-.176292	-.408554	-.124201	-.062507	.454068
1	.120658	-.169669	-.374737	-.106651	-.066232	.416291
2	.116019	-.153191	-.321033	-.084352	-.066674	.355698
3	.108585	-.138493	-.276249	-.064115	-.062245	.301942
4	.091702	-.118503	-.234716	-.048825	-.055337	.253592
5	.075976	-.095524	-.195741	-.037383	-.045037	.198406
6	.065014	-.076202	-.161664	-.027841	-.032255	.140752
7	.053413	-.060106	-.128905	-.018082	-.023833	.096157
8	.045420	-.049811	-.096979	-.008902	-.018651	.061315
9	.028796	-.041095	-.073898	-.001612	-.011161	.032559
10	.006645	-.027924	-.054819	.001657	-.003129	.010135
11	-.012697	-.011824	-.035491	.008210	.009687	-.012275
12	-.028167	.008276	-.018556	.019339	.027697	-.036657
13	-.045140	.029382	-.000239	.029592	.040341	-.059388
14	-.051676	.036567	.022611	.038810	.042203	-.076161
15	-.052386	.034833	.043537	.047430	.038081	-.091506
16	-.052029	.035164	.062282	.057636	.034075	-.102162
17	-.047377	.039328	.080381	.063392	.027423	-.110972
18	-.04042	.043584	.099756	.064614	.019985	-.125682
19	-.054212	.045049	.115667	.065144	.020153	-.137481
20	-.068290	.044133	.121911	.069201	.026603	-.144217
21	-.073285	.041049	.123464	.066028	.029363	-.149635
22	-.068065	.033830	.122320	.051109	.032429	-.159269
23	-.067855	.034860	.119084	.036263	.036162	-.167803
24	-.071195	.045267	.122595	.025991	.037714	-.169337
25	-.067809	.052326	.131415	.018371	.035511	-.158421
26	-.053930	.050264	.137726	.011764	.036588	-.148406
27	-.041922	.049332	.137423	.008599	.043454	-.139928
28	-.032395	.053967	.134534	.006720	.046963	-.130049
29	-.019683	.051115	.128582	.005075	.040985	-.117607
30	-.005499	.040276	.121932	.006875	.034099	-.098669
31	.07710	.019513	.109350	.008630	.025869	-.070559
32	.010927	.003513	.091111	.012244	.021943	-.039565
33	.008733	-.008788	.072427	.022433	.021171	-.009500
34	.007132	-.014739	.058777	.029872	.022240	.073327
35	.003875	-.017684	.046071	.035223	.021154	.027118
36	.001098	-.014342	.036920	.033939	.018833	.040096
37	-.000928	-.007972	.029879	.030221	.017706	.050410
38	-.003179	-.000524	.026076	.023863	.017835	.055545
39	-.003367	.003195	.024020	.020254	.015416	.056889
40	-.000847	.001726	.015924	.013467	.007636	.053317
41	.012229	.001462	.002628	-.002622	-.003899	.048502
42	.024624	.001245	-.004504	-.014411	-.010708	.038166
43	.034156	-.005005	-.008795	-.020037	-.015240	.028367
44	.044117	-.013590	-.012972	-.021005	-.021316	.023226
45	.045699	-.009161	-.016499	-.019276	-.027678	.020205
46	.039371	.000662	-.021810	-.015817	-.031799	.020053
47	.021290	.008304	-.025824	-.017642	-.041964	.026253
48	.004937	.012931	-.028840	-.022075	-.054556	.028771
49	-.004122	.018581	-.027217	-.026844	-.063588	.023946
50	-.010241	.029438	-.023097	-.027228	-.064218	.019164
51	-.014136	.039513	-.015954	-.025980	-.066551	.018351
52	-.016619	.046815	-.011552	-.031783	-.070692	.018127
53	-.019438	.054005	-.010448	-.037656	-.068168	.013323
54	-.014789	.052224	-.011130	-.035575	-.056296	.004412
55	-.002452	.049130	-.007264	-.032588	-.039525	.000527
56	.006085	.043442	-.002828	-.034637	-.027973	-.005863
57	.007521	.041620	.003123	-.039600	-.020119	-.015180
58	.006782	.038296	.009420	-.044880	-.011912	-.022752
59	-.000541	.040171	.006509	-.049932	-.003341	-.031110
60	-.008760	.039157	.001637	-.052233	.009033	-.040296

RUN NO. 34 40M 10-05-61 1339-1439 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.50217 10E 00	0.48975 10E 00	0.10614 10E 00	0.50246 10E 00	0.10901 10E 00	0.10620 10E 00
1	.005956	-.042271	-.031069	-.026266	-.011308	.005068
2	.018419	-.063681	-.053855	-.038116	-.014184	.017419
3	.030949	-.076073	-.061635	-.048862	-.016401	.026181
4	.031444	-.089533	-.072909	-.055413	-.022772	.031348
5	.025998	-.096273	-.079419	-.053191	-.028090	.034230
6	.026496	-.101883	-.082380	-.051030	-.029544	.036761
7	.028916	-.100439	-.080782	-.044941	-.025259	.038801
8	.031555	-.093965	-.073451	-.035676	-.018183	.042527
9	.036812	-.086921	-.063404	-.027295	-.011542	.043358
10	.049051	-.082006	-.055456	-.014394	-.006317	.044729
11	.060213	-.080311	-.055311	-.004777	-.007293	.046602
12	.062693	-.082761	-.055835	-.002503	-.009448	.047648
13	.056109	-.080778	-.055382	-.002274	-.013012	.048001
14	.049974	-.072444	-.048947	.002039	-.008555	.049642
15	.050522	-.068549	-.045623	.008227	.000125	.054116
16	.061467	-.065223	-.043397	.013374	.000627	.059429
17	.076184	-.060281	-.039074	.014476	-.001754	.063383
18	.084196	-.047195	-.039780	.014115	.002320	.059233
19	.087896	-.028368	-.044967	.020651	.009296	.054866
20	.087418	-.015178	-.048002	.029338	.014774	.051530
21	.079447	-.006857	-.045329	.031092	.020323	.042519
22	.064502	.001577	-.037264	.026936	.020426	.038756
23	.053236	.014050	-.030080	.014674	.016089	.036915
24	.048428	.028307	-.024645	.001889	.014945	.034620
25	.040947	.041283	-.026132	-.001650	.016753	.033355
26	.033770	.047957	-.028959	.001997	.018447	.029970
27	.030326	.045888	-.025908	.009254	.022474	.024139
28	.032518	.049554	-.019040	.013369	.021259	.012318
29	.032764	.055097	-.015053	.014937	.015158	.002581
30	.033349	.049096	-.018209	.010305	.010725	.000622
31	.033073	.035232	-.024831	.002181	.005741	-.001466
32	.026551	.024506	-.025441	-.001770	.005105	-.009018
33	.022982	.021040	-.020130	-.008138	.010997	-.014060
34	.017981	.021019	-.017205	-.010204	.014592	-.014188
35	.011184	.018075	-.020396	-.008808	.016000	-.016735
36	.002664	.013423	-.023259	-.007471	.018551	-.020476
37	.002510	.013104	-.024429	-.002947	.021885	-.024641
38	.003346	.013711	-.024456	.010010	.025294	-.028401
39	.006252	.010815	-.019190	.017874	.027299	-.032279
40	.001320	.005286	-.013520	.021144	.023080	-.032858
41	-.001678	-.000895	-.011132	.024412	.015822	-.031100
42	-.004720	-.005419	-.010067	.021336	.007614	-.025104
43	-.006014	-.008803	-.011424	.015981	-.006053	-.016584
44	-.012064	-.014346	-.010065	.009827	-.017354	-.009615
45	-.021105	-.014276	-.001099	.006072	-.021233	-.000040
46	-.030535	-.004172	.011660	.004989	-.022237	.013323
47	-.034506	.003493	.021624	.006949	-.023205	.022634
48	-.030538	.005722	.022363	.011144	-.018052	.023510
49	-.023534	.004501	.017955	.012351	-.006844	.023569
50	-.016565	.008890	.016146	.012718	.007870	.023096
51	-.012260	.014667	.017113	.020225	.026936	.021426
52	-.012218	.013037	.013995	.026201	.039448	.022755
53	-.008796	.010629	.010970	.025482	.043363	.025473
54	-.007244	.012245	.013167	.022714	.044490	.020802
55	-.008072	.012430	.012236	.012726	.041498	.015410
56	-.007273	.009331	.013665	.001362	.036792	.012874
57	-.006154	.011566	.015070	-.007438	.030732	.019719
58	-.003925	.015612	.018201	-.014038	.028142	.029198
59	.002905	.017583	.026307	-.014335	.022303	.033653
60	.005075	.013275	.033570	-.003703	.018653	.031207

RUN NO. 34 40M 10-05-61 1339-1439 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.48897 10E 00	0.51572 10E 00	0.48953 10E 00	0.23041 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.850772	.856501	.830280	.870400
2	.661725	.672845	.631365	.702232
3	.519185	.532912	.492863	.576460
4	.394210	.425492	.386017	.472076
5	.285946	.335675	.296354	.371158
6	.204672	.259624	.212402	.275245
7	.148295	.197983	.138742	.198694
8	.102462	.146245	.075094	.132753
9	.069213	.106351	.021658	.071007
10	.048422	.064800	-.017651	.017654
11	.029027	.029676	-.056879	-.021984
12	-.000362	-.001187	-.100895	-.054892
13	-.045733	-.029682	-.145757	-.086383
14	-.093024	-.049574	-.185719	-.112906
15	-.138261	-.070231	-.210177	-.135144
16	-.172314	-.099020	-.225318	-.159144
17	-.180855	-.129046	-.240538	-.190463
18	-.181320	-.148112	-.264009	-.225176
19	-.183429	-.162758	-.275331	-.254312
20	-.184315	-.174515	-.275530	-.274003
21	-.189836	-.170505	-.274053	-.288414
22	-.192712	-.164425	-.278390	-.298021
23	-.182403	-.170614	-.277721	-.300824
24	-.180281	-.179021	-.269011	-.296966
25	-.190071	-.186330	-.250219	-.290083
26	-.207684	-.187396	-.217649	-.284297
27	-.219137	-.173713	-.195764	-.269528
28	-.216648	-.154206	-.177324	-.240839
29	-.205049	-.135654	-.150526	-.206410
30	-.184655	-.113667	-.112801	-.169419
31	-.164243	-.096911	-.070197	-.135095
32	-.143043	-.082085	-.028323	-.103948
33	-.129751	-.065137	-.004169	-.074527
34	-.121904	-.059003	.014351	-.057665
35	-.106811	-.060460	.031097	-.040451
36	-.092183	-.054101	.055224	-.024125
37	-.084584	-.052917	.061915	-.012139
38	-.074432	-.057948	.058270	-.002974
39	-.060646	-.070480	.049806	.05888
40	-.042235	-.080669	.039742	.018767
41	-.029788	-.092672	.038893	.034582
42	-.018028	-.100118	.035583	.041549
43	-.007693	-.105333	.032679	.037254
44	.000329	-.109135	.026039	.040381
45	-.000825	-.111080	.021720	.048488
46	-.006398	-.108330	.023756	.052538
47	-.003135	-.104666	.040561	.058841
48	.001243	-.104386	.053353	.057587
49	-.006121	-.106593	.049453	.062916
50	-.011656	-.107301	.044615	.069047
51	-.012816	-.105841	.048023	.066886
52	-.010787	-.103986	.056496	.063562
53	-.001847	-.103609	.057982	.062739
54	.010244	-.104349	.047658	.057132
55	.016618	-.100296	.043975	.048723
56	.012682	-.090757	.039659	.033466
57	.006491	-.080551	.030010	.015808
58	.003661	-.063972	.020501	-.000127
59	.014431	-.047402	.006393	-.012530
60	.033232	-.033419	-.005473	-.021974

RUN NO. 34 40M 10-05-61 1339-1439 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
J	.09157	-.039249	-.013108	.011276	.014726	.009250
1	.102216	-.203191	-.095752	-.040724	-.094129	.073623
2	.160171	-.188769	-.101519	-.113189	-.234657	.097811
3	.192142	-.189819	-.085444	-.131829	-.217663	.106680
4	.114301	-.115194	-.040213	-.100957	-.109818	.058690
5	.039747	-.053277	-.020658	-.061446	-.094723	.025292
6	.013276	-.045118	-.018153	-.004818	-.056561	.027158
7-8	.016895	-.019059	-.013178	-.009879	-.007110	.020802
9-11	-.010443	-.012115	-.010039	-.024165	.017626	.009370
12-15	.010257	-.008768	-.003075	-.010114	-.014059	.004222
16-20	-.003096	.004540	-.002570	-.005918	.014307	.001393
21-27	-.001806	-.003069	-.001698	-.004236	.000509	.002195
28-36	-.000496	-.000922	-.000969	-.001290	.001705	.001336
37-47	.001036	-.000547	-.000496	-.001451	.001665	.000274
48-60	-.000665	.000442	-.000198	-.001121	.000849	.000306

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-03	10E-02
1	.221319	-.092301	-.410432	.129401	.597478	.299276
2	.143826	-.148494	-.279216	-.175207	-.302391	.267682
3	.049702	-.191138	-.196918	-.434977	-.930211	.161534
4	-.007113	-.126778	-.156700	-.673600	-.762318	.001362
5	-.014625	-.038974	-.110417	-.683003	-.481422	-.002553
6	-.005920	-.017415	-.087319	-.445342	-.342541	.022042
7-8	.016305	-.035637	-.076274	-.278208	-.158875	.018199
9-11	-.001266	-.019028	-.026076	-.175076	-.183704	.010891
12-15	.014125	-.003903	-.009016	.000078	.063773	-.001339
16-20	-.005100	-.003411	-.005726	-.027179	.030539	-.001375
21-27	-.000991	-.004411	-.005581	-.009443	-.058839	-.003037
28-36	-.002575	-.002539	-.002481	-.016615	-.036090	-.002197
37-47	.000348	-.001204	.001249	-.018320	-.017047	-.001750
48-60	-.000072	.000314	.001721	-.000018	.001979	-.000609

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-02
0	.098272	.168129	.050999	.044276
1	.775702	.981565	.524855	.354960
2	.823270	.849301	.759929	.430914
3	.731772	.747794	.883988	.426207
4	.453722	.509883	.578805	.241323
5	.315336	.295177	.290801	.127542
6	.261259	.243333	.230393	.114124
7-8	.186691	.212436	.200559	.102496
9-11	.168539	.137204	.126329	.049550
12-15	.076913	.077361	.080452	.028348
16-20	.045405	.051252	.051252	.018899
21-27	.027992	.034972	.035314	.013308
28-36	.022462	.019861	.024148	.009531
37-47	.012339	.012139	.015185	.004674
48-60	.007330	.007895	.009293	.002929

RUN NO. 34 40M 10-05-61 1339-1439 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10794 10E 01	0.74070 10E 00	0.22490 10E 00	0.69455 10E 00	0.21088 10E 00	0.14472 10E 00
0	-.003783	-.401628	-.653398	.045463	.163527	.572531
1	-.039572	-.325069	-.532256	.090575	.181696	.399795
2	-.070108	-.234196	-.403668	.099062	.185381	.241512
3	-.057530	-.156775	-.282164	.045679	.156011	.161146
4	-.044018	-.081844	-.192574	.014322	.104222	.120480
5	-.022943	.005062	-.111567	-.027198	.028082	.039021
6	-.011768	.049288	-.025436	-.074968	.002469	-.028532
7	.006057	.059979	.047555	-.061064	-.023658	-.052873
8	.024316	.100720	.124580	-.045225	-.086654	-.066809
9	.046828	.107901	.175917	-.022453	-.121473	-.106284
10	.054228	.103582	.235969	-.008754	-.127458	-.074255
11	.037952	.176981	.277458	.040048	-.085307	-.118958
12	.018513	.237053	.346019	.066088	-.057984	-.192709
13	-.002618	.222652	.349638	.057253	-.025669	-.228549
14	.028949	.203130	.348114	.040956	-.026196	-.210257
15	.050583	.156480	.308181	.003918	-.050055	-.139915
16	.096740	.130200	.264095	-.026199	-.083706	-.116944
17	.090241	.087227	.194109	-.036313	-.071411	-.129454
18	.051390	.046994	.128714	-.009687	-.016598	-.135118
19	.013105	-.043993	.069667	-.014187	.020462	-.121659
20	-.029237	-.105747	.004779	-.025161	.046033	-.070325
21	-.049374	-.085336	-.043563	-.006849	.050890	-.064385
22	-.063227	-.067913	-.073295	.014509	.066769	-.075891
23	-.031870	-.076545	-.126704	-.002496	.036729	-.019274
24	-.017819	-.084273	-.184139	-.018108	-.015043	.057645
25	-.009257	-.102681	-.211223	-.036553	-.031768	.097026
26	-.013068	-.128372	-.232784	-.037298	-.029660	.126511
27	-.011507	-.137161	-.209225	-.023762	-.046705	.176996
28	.009391	-.118225	-.187762	-.030323	-.068389	.188491
29	.034934	-.081135	-.132342	-.071083	-.066400	.183878
30	.038154	-.010871	-.094245	-.038376	-.026483	.108402

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	.0E-01	10E-01	10E-01	10E-01	10E-01
0	.002386	-.007103	-.017050	.033605	.017866	.010766
1	-.176046	-.450647	-.315324	.119910	.111837	.153384
2	-.271809	-.773154	-.429164	.064574	.124648	.175591
3	-.180785	-.726381	-.336702	.098964	.126209	.130239
4	-.012552	-.264986	-.102841	.187542	.067463	.067209
5	-.040023	-.151458	-.053218	.202388	.028021	.050450
6	.027321	-.231963	-.064394	.085106	-.001532	.046277
7	.160053	-.179763	-.056908	-.044246	-.030823	.045858
8	.063028	-.075895	-.034495	-.054704	-.010224	.025099
9-11	.018692	-.010871	-.024917	-.029732	-.000891	.016132
12-14	.045242	-.037941	-.017770	-.024731	-.012981	.019246
15-21	.024793	-.026637	-.008072	-.027648	.000470	.012422
22-30	.007566	-.013493	-.008935	-.008562	-.002337	.007758

RUN NO. 34 40M 10-05-61 1339-1439 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

N	U,V	U,W	U,T	V,W	V,T	W,T
	0.10794 10E 01	0.74070 10E 00	0.22490 10E 00	0.69455 10E 00	0.21088 10E 00	0.14472 10E 00
1	.092088	-.070050	-.060618	.005982	.034253	.060543
2	.141764	-.085730	-.089632	.031528	.059425	.082524
3	.158022	-.091555	-.093842	.015300	.081265	.059101
4	.161033	-.132606	-.079689	.023522	.091429	.007013
5	.145530	-.144992	-.052811	.004183	.084427	-.010222
6	.118734	-.171306	-.046706	-.024361	.076049	-.064367
7	.095547	-.177138	-.035261	-.028651	.046021	-.114834
8	.075183	-.182756	-.066296	-.052548	.014218	-.134829
9	.046256	-.183882	-.108432	-.029840	-.010610	-.125931
10	.025659	-.135206	-.131227	.008545	-.018548	-.109237
11	.052831	-.083391	-.166782	.011298	.013458	-.001123
12	.061467	-.021607	-.155071	.011369	.038439	.060412
13	.041928	.020849	-.133645	.001694	.030239	.078218
14	.023146	.042961	-.080241	-.007294	.050935	.044376
15	.006570	.055091	-.061191	-.046328	.030254	.043214
16	-.016710	.067273	-.048313	-.058421	.013665	.070631
17	-.039542	.073872	-.039167	-.082352	.006967	.106189
18	-.053869	.112720	-.018447	-.105259	-.034535	.111611
19	-.047433	.090243	-.013068	-.075698	-.053866	.102110
20	-.021750	.073306	.010902	-.068939	-.045654	.071976
21	-.035377	.089129	.051643	-.027262	-.034180	.091163
22	-.059063	.109916	.113189	-.001192	-.037722	.088117
23	-.048682	.096894	.140242	.001266	-.040197	.037506
24	-.011533	.077242	.144832	.043811	-.023647	-.019721
25	.025594	.046361	.151517	.059809	.032115	-.087739
26	.071600	.014097	.144316	.076005	.088584	-.113286
27	.092285	-.014202	.121346	.093047	.070917	-.097504
28	.061537	-.012979	.081528	.113878	.074922	-.013728
29	.062797	-.033812	.033631	.151008	.080346	.027559
30	.070374	-.060880	.004023	.141919	.074679	-.002823

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.553158	-.413319	-.172095	-.144733	.523626	.010216
2	.586114	-.577095	-.111522	.005336	.538755	-.404384
3	.503226	-.442511	-.008742	.044102	.424865	-.313335
4	.312787	-.083818	.009659	-.033886	.356948	.302735
5	.297021	.062602	-.023521	.050138	.492169	.510778
6	.231987	.056795	-.044013	.119734	.252491	.481083
7	.111262	-.020348	-.053409	.052837	-.057040	.283603
8	.016827	-.059883	-.022808	-.005501	-.128423	.000352
9-11	.042219	-.022381	-.001322	-.018825	-.002783	.046054
12-14	.009742	-.026435	-.001909	.009502	.005819	.034183
15-21	.012858	-.019597	-.001009	-.001842	-.000003	-.005176
22-30	.001776	.003515	-.000789	-.016349	.005365	.024406

RUN NO. 34 40M 10-05-61 1339-1439 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.11511 10E 01	0.10121 10E 01	0.47662 10E 00	0.43940 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.767856	.735781	.474097	.721842
2	.590804	.445823	.178881	.471763
3	.415172	.221400	.136390	.311039
4	.281460	-.013856	.013390	.197064
5	.162036	-.181282	-.024040	.091338
6	.037373	-.261759	-.068536	-.025124
7	-.049699	-.255770	-.140844	-.115485
8	-.177730	-.267955	-.147843	-.134233
9	-.252196	-.252285	-.129743	-.178851
10	-.365537	-.184425	-.029116	-.190931
11	-.400240	-.127567	-.061734	-.213091
12	-.470950	-.074478	-.205787	-.303210
13	-.471570	-.002897	-.279774	-.360465
14	-.450645	.089431	-.244023	-.379658
15	-.386853	.076750	-.158060	-.306912
16	-.318768	.021701	-.068564	-.242729
17	-.227865	.009463	-.084967	-.194198
18	-.147896	-.010024	-.144003	-.159321
19	-.102170	.002701	-.072402	-.125238
20	-.050099	.011026	-.016904	-.077800
21	.007282	.029784	-.043260	-.054433
22	.046695	.015467	-.063086	-.046637
23	.104256	-.037670	-.053441	.018539
24	.178620	-.093623	.005592	.081725
25	.198891	-.184183	.104784	.129957
26	.217149	-.246940	.143274	.177882
27	.184870	-.236285	.208353	.216488
28	.162718	-.205052	.196887	.215513
29	.101105	-.095445	.177165	.149190
30	.058656	.015253	.131697	.072209

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.018673	.020612	.021412	.077977
1	.247667	.110523	.465003	.838246
2	.310098	.117170	.600863	.952482
3	.248911	.171669	.531146	.748732
4	.089368	.176976	.355088	.367551
5	.036795	.126975	.309846	.267444
6	.040291	.076313	.325120	.262738
7	.044034	.045505	.287358	.214641
8	.031892	.044193	.147605	.101481
9-11	.022057	.020111	.157723	.098391
12-14	.012670	.011709	.149465	.086248
15-21	.009713	.012250	.136002	.050422
22-30	.010509	.007128	.098067	.040968

RUN NO. 34 16M 10-05-61 1339-1439 EST
 RUN NO. 34 40M 10-05-61 1339-1439 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.796103	.743742	.734699	.687877
1	.673777	.764154	.661798	.669724
2	.552209	.533304	.643068	.631401
3	.412873	.269999	.634277	.560830
4	.256556	.212708	.603114	.427687
5	.087546	.304043	.526015	.257918
6	.080674	.299006	.406536	.191798
7-8	.134922	.309975	.289763	.366286
9-11	.219801	.221546	.294906	.115657
12-15	.222465	.108758	.084027	.099178
16-20	.181548	.124776	.132556	.105984
21-27	.066699	.196229	.136357	.121073
28-36	.153096	.143391	.078619	.151573
37-47	.132976	.121754	.072033	.145066
48-60	.107957	.162764	.097399	.133881

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.972260	.998738	.984516	.889630
1	.899756	.890923	.957739	.935640
2	.844838	.819549	.930305	.899812
3	.746328	.846902	.840054	.774991
4	.620294	.901788	.729600	.610073
5	.731681	.899459	.819917	.734649
6	.799829	.789872	.853019	.847825
7	.849039	.733344	.841258	.740548
8	.788756	.839026	.730559	.504081
9-11	.495173	.620952	.559834	.574895
12-14	.444953	.302638	.699024	.700744
15-21	.367867	.396702	.588400	.420486
22-30	.245566	.240893	.502002	.306137

RUN NO. 38 16M 10-16-61 1209-1315 EST

GROSS STATISTICS

3 C1 CS	WIND SPEED	6.12 M/SEC	WIND DIRECTION	294 DEG
UNSTABLE	SIGMA A	18.8 DEG	SOLAR RADIATION	0.93
LAND	SIGMA E	7.3 DEG	NET RADIATION	0.61

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.23112E 01	0.16049E 01	0.62350E 00	0.12897E 01
V	0.46007E 01	0.20191E 01	0.96004E 00	0.16123E 01
W	0.51722E 00	0.47061E-00	0.38660E-00	0.22274E-00
T	0.23675E-00	0.12795E-00	0.50595E-01	0.10485E-00
E	0.37145E 01	0.20480E 01	0.98509E 00	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
GUSTINESS RATIOS				
U	0.24841	0.20700	0.12902	0.18557
V	0.35048	0.23218	0.16010	0.20748
W	0.11751	0.11209	0.10160	0.07712

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
COVARIANCES				
U,V	-0.53563E 00	-0.14814E-00	-0.84990E-02	-0.13591E-00
U,W	-0.33007E-00	-0.26923E-00	-0.11246E-00	-0.21452E-00
U,T	-0.34818E-00	-0.24765E-00	-0.55895E-01	-0.22537E-00
V,W	-0.77170E-03	-0.78992E-02	0.42722E-02	-0.11787E-01
V,T	-0.14734E-00	-0.72136E-01	-0.38771E-01	-0.62364E-01
W,T	0.16395E-00	0.10692E-00	0.53817E-01	0.77979E-01
WE	0.70240E-01	0.86436E-01	0.39214E-01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
NORMALIZED COVARIANCES				
U,V	-0.16426	-0.08229	-0.01099	-0.09425
U,W	-0.30189	-0.30979	-0.22906	-0.40025
U,T	-0.47070	-0.54651	-0.31411	-0.61287
V,W	-0.00050	-0.00810	0.00701	-0.01967
V,T	-0.14117	-0.14193	-0.17592	-0.15168
W,T	0.46852	0.43572	0.38481	0.51027

RUN NO. 38 16M 10-16-61 1209-1315 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.77379 10E 00	0.49100 10E 00	0.17764 10E 00	0.60919 10E 00	0.22040 10E 00	0.13985 10E 00
0	-.010941	-.228994	-.314635	.007137	-.175908	.384965
1	-.005433	-.196938	-.287512	.008771	-.173342	.322031
2	.007314	-.148559	-.244588	.013.01	-.165262	.227565
3	.012663	-.110995	-.205271	.018867	-.149975	.154529
4	.009769	-.084235	-.163189	.014929	-.135374	.102308
5	.009189	-.058645	-.123392	.005104	-.122036	.067577
6	.009972	-.040511	-.090989	-.000452	-.105347	.036475
7	.010239	-.031693	-.066573	.000809	-.088118	.004505
8	.007139	-.023298	-.045777	.010752	-.071600	-.022423
9	.005993	-.015722	-.027526	.016073	-.052906	-.037436
10	.009960	-.006478	-.018329	.025013	-.026961	-.047203
11	.009578	.002326	-.017202	.016754	-.003216	-.059098
12	.005362	.008110	-.015772	.006141	.014413	-.056780
13	-.006386	.011936	-.005950	.004316	.034328	-.049408
14	-.013209	.011896	-.002115	.006306	.047262	-.049957
15	-.018975	.015723	-.000216	.001125	.053893	-.056351
16	-.030531	.014557	.008850	-.000067	.058830	-.055247
17	-.039797	.012755	.013900	.004592	.061818	-.055807
18	-.042721	.015035	.020206	.002398	.063805	-.055338
19	-.037696	.027691	.027561	-.005443	.060044	-.059445
20	-.030990	.037893	.034123	-.009788	.054512	-.064197
21	-.031497	.044573	.039168	-.013071	.051300	-.071199
22	-.028466	.051688	.040484	-.019075	.050051	-.065031
23	-.014243	.051863	.045782	-.023938	.042278	-.057772
24	.003443	.048725	.054923	-.033179	.032091	-.047604
25	.014495	.046622	.070252	-.034998	.025897	-.034907
26	.018603	.053901	.079943	-.035653	.024208	-.025433
27	.022277	.060398	.091130	-.038211	.025900	-.016359
28	.027406	.059769	.097447	-.038416	.025586	-.013376
29	.028980	.053009	.095311	-.039068	.027128	-.012642
30	.023175	.055696	.085776	-.030983	.032954	-.005000
31	.022215	.051879	.075837	-.028941	.043324	.014026
32	.023195	.054090	.067702	-.029143	.051606	.018887
33	.025830	.055974	.058375	-.028421	.054366	.016776
34	.025027	.049985	.046672	-.025966	.050376	.017549
35	.017148	.045264	.037699	-.021848	.047861	.007825
36	.012934	.036047	.035346	-.014534	.046080	.004479
37	.012070	.028350	.033241	-.002468	.043735	.007663
38	.010300	.020598	.032088	.005920	.041815	.011309
39	.012238	.008490	.030735	.005390	.043783	.005336
40	.017467	-.002937	.023918	.005303	.039312	.003585
41	.020754	-.012867	.012583	.003827	.030678	.006922
42	.020223	-.017277	.010439	.005869	.023131	-.002624
43	.014226	-.017126	.014892	.009819	.020858	-.020108
44	.005681	-.007291	.017793	.013800	.023163	-.037825
45	.003037	-.001940	.020434	.013781	.018484	-.042424
46	.000802	-.006635	.025130	.014733	.007860	-.032611
47	-.001004	-.011991	.027928	.016999	.001077	-.024700
48	-.008336	-.009480	.026797	.023101	.000318	-.013575
49	-.012364	-.015949	.020834	.033167	.000701	-.004879
50	-.012416	-.016219	.012496	.037882	.002385	-.003500
51	-.011011	-.014357	.003321	.043124	-.000192	-.001253
52	-.015286	-.012553	-.007474	.046026	-.003521	.001113
53	-.021327	-.011491	-.011960	.039300	-.009480	.003879
54	-.025877	-.012422	-.010625	.030301	-.011657	.005267
55	-.026159	-.015126	-.013863	.030147	-.009285	.003886
56	-.029473	-.017864	-.018483	.030711	-.003705	.001459
57	-.036192	-.018017	-.023483	.023996	-.000767	.011547
58	-.042894	-.017241	-.026925	.022229	-.001508	.020118
59	-.046313	-.013005	-.018347	.019076	-.007917	.017423
60	-.038766	-.009972	-.000529	.015645	-.016033	.009155

RUN NO. 38 16M 10-16-61 1209-1315 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.77379 10E 00	0.49100 10E 00	0.17764 10E 00	0.60919 10E 00	0.22040 10E 00	0.13985 10E 00
1	.021903	-.061603	-.051659	.003167	.001238	.009168
2	.037001	-.099806	-.083392	.006230	-.001909	.015920
3	.041363	-.126761	-.106247	.009637	-.005654	.023106
4	.041103	-.129997	-.118291	.016293	-.010995	.028864
5	.039914	-.121564	-.115332	.026899	-.018655	.022702
6	.034525	-.107450	-.098955	.031000	-.025570	.010074
7	.025993	-.089916	-.080817	.039846	-.027912	.012025
8	.022448	-.079336	-.068431	.054197	-.023154	.014319
9	.022836	-.066557	-.064099	.071496	-.018813	.028050
10	.015976	-.052921	-.064827	.079574	-.016953	.037376
11	.007662	-.039586	-.061443	.077062	-.020316	.040045
12	.001396	-.019215	-.055316	.067118	-.022462	.039557
13	-.000916	-.008379	-.055146	.054403	-.025395	.036566
14	-.002108	-.012082	-.057366	.041386	-.026636	.029891
15	-.001875	-.013810	-.053665	.028398	-.028541	.018192
16	-.000461	-.012942	-.045616	.027775	-.025612	.006748
17	-.004167	-.012088	-.037588	.030724	-.019400	.002285
18	-.014569	-.003018	-.022786	.030183	-.018271	.000768
19	-.021967	.007445	-.012395	.025885	-.020798	-.001684
20	-.023242	-.002470	-.010721	.024081	-.021023	-.009528
21	-.018963	-.004620	-.013003	.017122	-.018826	-.008953
22	-.010571	-.000835	-.018981	.007636	-.012319	-.009695
23	-.007859	.005963	-.020175	-.002043	-.001744	-.011307
24	-.007725	.002653	-.008844	-.007136	.004986	-.017120
25	-.007666	.004747	-.002989	-.009105	.006379	-.023640
26	-.008072	.001807	-.000013	-.007725	.012277	-.026795
27	-.008064	.003435	.005681	-.010569	.021825	-.024836
28	-.013038	.006320	.011582	-.008520	.029985	-.022920
29	-.011908	.012294	.013530	-.004113	.029177	-.020509
30	-.010152	.020350	.010565	.000744	.028764	-.008121
31	-.012308	.022943	.008124	-.002972	.028947	.006274
32	-.021081	.022355	.007615	-.010496	.031724	.008976
33	-.028782	.016908	.005370	-.013951	.034941	.010181
34	-.034615	.008689	.005010	-.015840	.035148	.016828
35	-.036322	.012044	.004544	-.017812	.031515	.016537
36	-.036056	.018371	.002643	-.022567	.023150	.020410
37	-.035972	.019702	.001283	-.033411	.018845	.022627
38	-.031188	.010892	-.005940	-.040583	.014246	.024444
39	-.029980	.001012	-.019829	-.048986	.008709	.023463
40	-.030483	.001591	-.021927	-.042680	.008443	.029655
41	-.029103	.010247	-.012286	-.036628	.004081	.032410
42	-.029097	.021314	-.004413	-.035201	-.000369	.029351
43	-.019763	.023441	-.000002	-.035821	.000374	.031025
44	-.009088	.026751	.000629	-.029777	.004890	.029839
45	.002483	.024122	-.001089	-.019344	.009335	.027467
46	.009679	.024458	.003257	-.013769	.009931	.024704
47	.015058	.012911	.003981	-.005088	.009512	.020291
48	.023467	.002811	.006727	-.000638	.008292	.018828
49	.032668	-.000384	.008602	-.006054	.004525	.009772
50	.038902	.000836	.005978	-.008949	.003815	.000492
51	.042274	.007798	.007818	-.012106	.005972	-.007630
52	.042242	.015167	.012353	-.013671	.005392	-.014738
53	.039699	.013165	.014083	-.012107	.005429	-.018093
54	.041431	.003637	.014666	-.005327	.007658	-.018489
55	.044232	-.010427	.014840	.000088	.005679	-.022355
56	.043566	-.020745	.014158	.001605	-.003300	-.027407
57	.038211	-.030938	.009937	-.002874	-.009015	-.030706
58	.029128	-.036844	.015613	-.005991	-.008055	-.035698
59	.019610	-.038814	.018889	-.001951	-.006698	-.042852
60	.009022	-.037352	.019142	.006096	-.006877	-.043044

RUN NO. 38 16M 10-16-61 1209-1315 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

N	U	V	W	T
	0.62366 10E 00	0.96006 10E 00	0.37656 10E 00	0.50598 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.823348	.865761	.704186	.842347
2	.617198	.695385	.413808	.647971
3	.470826	.570115	.254380	.497884
4	.360180	.477611	.158357	.380154
5	.265112	.401785	.063729	.289781
6	.182867	.328906	.045129	.214510
7	.120075	.266112	.008132	.151848
8	.077442	.207194	-.036722	.101968
9	.038889	.143335	-.073664	.065109
10	.007185	.076670	-.098852	.031361
11	-.020500	.022421	-.108421	-.005326
12	-.040146	-.028375	-.104047	-.035132
13	-.054376	-.075016	-.103870	-.062382
14	-.073278	-.114795	-.116299	-.085538
15	-.097723	-.151580	-.142464	-.110554
16	-.112861	-.183427	-.148268	-.135184
17	-.121284	-.214974	-.145711	-.153644
18	-.138586	-.244061	-.144389	-.173878
19	-.151740	-.264933	-.153387	-.191690
20	-.161953	-.275936	-.151363	-.197129
21	-.162676	-.285612	-.154560	-.192921
22	-.156761	-.300956	-.142395	-.190172
23	-.159343	-.310393	-.125282	-.195751
24	-.158428	-.307999	-.117379	-.199831
25	-.157204	-.293094	-.104333	-.201160
26	-.161490	-.273454	-.102061	-.198746
27	-.166137	-.258729	-.087368	-.196001
28	-.176511	-.246594	-.071374	-.193765
29	-.180308	-.234518	-.051060	-.179045
30	-.162805	-.216825	-.021783	-.153103
31	-.139208	-.191200	.012921	-.124397
32	-.130945	-.158854	.019368	-.100278
33	-.125313	-.134230	.043254	-.076619
34	-.114188	-.111169	.057452	-.060621
35	-.097689	-.098864	.049395	-.053567
36	-.078223	-.089613	.040580	-.052274
37	-.065877	-.079564	.034100	-.048662
38	-.053046	-.069364	.019217	-.045402
39	-.043081	-.058397	.011060	-.048005
40	-.043045	-.049145	.002441	-.048324
41	-.045848	-.039520	.005440	-.049818
42	-.044841	-.024231	.004337	-.048535
43	-.032590	-.004931	-.014765	-.045483
44	-.011244	.001331	-.048441	-.041180
45	-.001194	.003697	-.042925	-.030637
46	-.003245	.008644	-.018258	-.011804
47	-.012116	.017908	-.007630	.012311
48	-.021951	.031943	-.005547	.029774
49	-.021418	.042111	.003458	.043224
50	-.019512	.036735	.007084	.047668
51	-.020269	.027851	.017441	.049052
52	-.013221	.024785	.020601	.044924
53	-.004373	.029721	.007475	.042365
54	-.002610	.037506	.000508	.044053
55	-.000944	.046107	.002249	.040110
56	.003656	.050216	.009855	.031281
57	.004092	.047018	.016968	.022098
58	.004857	.037469	.020732	.014368
59	.002230	.033755	.021477	.003394
60	-.003575	.038772	.020642	-.006703

RUN NO. 38 16M 10-16-61 1209-1315 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-01	10E-02	10E-01	10E-02
0	.004870	-.020913	-.022544	-.077520	-.011379	.074036
1	-.262477	-.178432	-.129807	.257383	-.106545	.468027
2	-.018281	-.194497	-.110111	.663515	-.102763	.541037
3	.671197	-.153731	-.079952	.295155	-.087052	.704983
4	.641917	-.076625	-.042485	-.315594	-.063669	.644899
5	-.104890	-.071602	-.035917	-.201788	-.041325	.432930
6	-.591645	-.076616	-.042151	.048118	-.010382	.350540
7-8	-.294027	-.054763	-.027324	.042618	.004784	.324977
9-11	.085818	-.030852	-.014852	.030783	-.000705	.172791
12-15	-.089567	-.025884	-.004313	.041069	-.002848	.107706
16-20	-.065403	-.010856	-.002896	-.110639	-.000406	.079901
21-27	-.056695	-.006541	-.001323	-.003470	.000225	.046551
28-36	-.015657	-.005371	-.001529	.011968	.000279	.017601
37-47	.002114	-.001347	-.000672	-.000871	.000059	.013366
48-60	.005727	-.001262	-.000311	-.004091	-.000156	.005996

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-01	10E-02	10E-02
1	-.547534	-.055254	-.464963	.081965	-.050121	.098473
2	.319912	-.095904	-.464427	.130978	-.237727	.065030
3	.779047	-.121641	-.495349	.116935	-.269373	.157865
4	.518395	-.114523	-.394453	.055007	-.054718	.166363
5	.719194	-.106884	-.253872	.026409	.068239	.022853
6	.659664	-.097906	-.216599	-.008755	-.000677	-.036041
7-8	.253951	-.074132	-.186129	-.023742	-.033185	-.010792
9-11	.257662	-.038116	-.148951	-.023938	.009484	.014941
12-15	.060146	-.015404	-.043612	.011393	.026923	.037026
16-20	.077859	-.008109	-.006946	-.003323	.004569	-.006795
21-27	.009192	-.000080	-.002259	-.000593	-.002692	-.008793
28-36	.013789	-.001297	-.008664	.001744	.004495	.004708
37-47	-.002776	-.001378	-.004330	-.000707	.001092	.000927
48-60	-.001181	-.000642	-.001930	.000414	-.000034	.001080

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E 00	10E-01	10E-02
0	.130363	.018276	.021157	.109885
1	.928911	.169593	.217041	.773974
2	.938613	.195172	.318489	.814294
3	.835719	.176586	.425661	.754771
4	.554878	.097991	.361669	.486530
5	.419690	.050613	.233849	.309493
6	.367892	.036551	.200308	.257969
7-8	.270809	.029853	.193261	.216881
9-11	.190865	.019090	.135306	.149914
12-15	.105427	.014223	.093486	.085121
16-20	.069722	.009418	.080188	.052862
21-27	.049668	.005904	.048083	.036231
28-36	.032340	.003770	.037566	.020589
37-47	.019364	.002099	.023007	.013842
48-60	.012888	.001324	.015459	.009101

RUN NO. 38 16M 10-16-61 1209-1315 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14421 10E 01	0.53606 10E 00	0.36786 10E 00	0.59902 10E 00	0.41107 10E 00	0.15280 10E 00
0	-.094246	-.400188	-.612655	-.019677	-.151712	.510328
1	-.088423	-.302347	-.525677	-.023266	-.093652	.339530
2	-.097804	-.210557	-.417024	-.039124	-.033452	.250992
3	-.057669	-.133897	-.281353	-.074965	-.004707	.214488
4	-.037608	-.071154	-.167645	-.048996	.032339	.098180
5	-.031484	-.011625	-.045564	-.008955	.047148	.001968
6	-.013242	.043340	.067682	-.015675	.048273	-.064130
7	.029852	.124238	.168053	-.026385	.047264	-.152029
8	.047718	.184159	.245358	.000427	.040212	-.198967
9	.084361	.220920	.305292	.013437	.002381	-.229461
10	.094303	.169103	.314213	.063270	-.006846	-.209116
11	.071928	.173104	.328888	.048516	-.010079	-.207355
12	.072645	.134723	.316886	.006601	-.023320	-.186019
13	.061033	.150653	.280474	-.046338	-.003312	-.109751
14	.018836	.112712	.218620	-.066641	-.006283	-.075200
15	-.003482	.082323	.155457	-.038345	-.009129	-.051048
16	-.030491	.062713	.083857	.031908	.007014	-.023846
17	-.058371	.040652	.034296	.071998	.000885	-.020618
18	-.046006	-.040301	-.018879	.114378	-.007021	.029500
19	-.026668	-.087406	-.081215	.120876	.011222	.120308
20	-.046091	-.144289	-.127235	.119900	.018705	.156072
21	-.050088	-.191223	-.174156	.120446	.049970	.154703
22	-.047664	-.158592	-.175787	.057617	.088034	.151618
23	-.045976	-.166970	-.164042	.057607	.120713	.095299
24	-.058126	-.138785	-.146774	.029152	.118458	.070705
25	-.056613	-.101822	-.136385	.032599	.125947	.055314
26	-.048693	-.066725	-.122279	.061365	.086980	.032649
27	-.011527	-.023853	-.076509	-.016283	.025108	-.048121
28	.047800	.026840	-.014195	-.088761	-.028641	-.107573
29	.100256	.052747	.024130	-.116083	-.088309	-.092061
30	.114914	.118850	.086967	-.118447	-.117691	-.125661

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-01
0	-.060362	-.009593	-.018524	-.005686	.003260	.009934
1	-.222591	-.183521	-.326059	-.172735	-.049952	.079797
2	-.407997	-.458312	-.591901	-.103306	-.031289	.147400
3	-.596295	-.590180	-.674472	-.005867	-.051085	.196897
4	-.285439	-.297666	-.330198	-.064628	-.106917	.115608
5	.040073	-.142518	-.113051	-.028182	-.087631	.047954
6	.099801	-.090964	-.068495	.104547	-.079625	.023230
7	-.000878	-.009877	-.045861	.070662	-.051394	.003043
8	-.039719	-.022173	-.039429	-.038221	-.017964	.010225
9-11	-.028160	-.046316	-.025783	.030171	-.019733	.010523
12-14	.030075	-.026426	-.016399	.016549	-.016252	.011953
15-21	.025146	-.020760	-.006370	-.018309	-.013371	.014671
22-30	-.024524	-.016767	-.010966	.006455	-.003702	.010806

RUN NO. 38 16M 10-16-61 1209-1315 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14421 10E 01	0.53606 10E 00	0.36786 10E 00	0.59902 10E 00	0.41107 10E 00	0.15280 10E 00
1	-.014003	-.072004	-.087879	.027502	-.009517	.016690
2	-.052110	-.036181	-.110432	.001623	.000898	.008810
3	-.073634	-.065781	-.130561	-.021428	.008625	-.006774
4	-.090361	-.054597	-.132056	-.060701	-.010714	.028751
5	-.076265	-.062279	-.121078	-.053620	-.033914	-.012734
6	-.084374	-.062785	-.110063	-.036210	-.049944	-.041323
7	-.085600	-.038933	-.110529	-.004760	-.055490	-.010496
8	-.084893	-.007153	-.099666	-.036319	-.027356	-.013638
9	-.055767	.026436	-.096529	-.063329	.025835	.006560
10	-.045823	.039818	-.068904	-.083930	.050083	-.009374
11	-.041834	.068018	-.044332	-.056968	.053620	-.019373
12	.010558	.052229	.007326	.007533	.059152	.012309
13	.038690	.068848	.030470	.034720	.044203	.009320
14	.051355	.045976	.042594	.026437	.015305	.013055
15	.071948	.105685	.055109	.004641	.011720	.045750
16	.086151	.043596	.017790	.048691	.016024	.053116
17	.099994	.032956	.011204	.048718	.030989	.009887
18	.108016	.039573	.010239	.073581	.039804	.008892
19	.103620	-.003272	.011464	.097298	.048265	.030639
20	.070195	-.042685	.027664	.092372	.037101	.015324
21	.036210	-.071714	.038993	.049929	.017715	.016058
22	-.020251	-.082419	.073082	.039564	-.016985	-.042091
23	-.028980	-.114782	.071076	.058394	-.044055	-.078572
24	-.054393	-.097500	.069737	.040512	-.082756	-.089579
25	-.042445	-.099921	.022686	.029371	-.068658	-.071453
26	-.053358	-.099118	-.031088	-.003759	-.057050	-.048159
27	-.088656	-.085238	-.056248	-.008424	-.058032	-.016980
28	-.111574	-.046103	-.042735	.001621	-.046093	.014224
29	-.123643	-.019291	-.043552	-.006108	-.047222	.035887
30	-.128060	-.023036	-.022502	-.023247	-.048129	.041739

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	-.159004	.049237	-.151109	-.035212	.488102	.039291
2	-.535197	-.025825	-.190428	-.149016	-.120335	-.036715
3	-.608413	-.184051	-.179036	-.099253	-.681943	-.123864
4	-.111994	-.141408	-.101874	.029974	-.402134	.048072
5	.038101	-.036766	-.035336	.029540	-.081795	.103106
6	-.052959	-.024417	-.010553	.001861	.350621	.033341
7	-.015207	-.000464	-.046723	-.010357	.672052	.055343
8	-.020900	.001631	-.047210	-.016621	.247931	.040162
9-11	.010580	-.022283	-.010819	.067682	-.164056	.004888
12-14	.025083	-.018273	-.007651	.002540	-.090722	-.032348
15-21	.015739	-.017989	-.007694	.007114	-.038043	.068306
22-30	.015644	-.021557	-.005100	.010668	.008038	-.034404

RUN NO. 38 16M 10-16-61 1209-1315 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12905 10E 01	0.16115 10E 01	0.22267 10E 00	0.10486 10E 00
0	1.000000	1.000000	1.000000	1.000000
1	.747885	.708258	.304147	.744735
2	.553484	.418889	.124026	.518625
3	.359359	.257528	.148805	.337051
4	.206791	.144170	.004803	.160289
5	.068946	.081566	-.044658	.019646
6	-.043132	.050881	-.034229	-.128658
7	-.133223	-.022949	-.126491	-.248825
8	-.217777	-.098878	-.208790	-.332897
9	-.305094	-.115055	-.191412	-.387171
10	-.388619	-.171913	-.155105	-.390700
11	-.406393	-.230169	-.077183	-.414553
12	-.379137	-.287134	-.150800	-.406352
13	-.329439	-.341377	-.149212	-.362155
14	-.312608	-.343936	-.107478	-.265128
15	-.264023	-.302767	-.105022	-.132367
16	-.174191	-.238133	-.102624	-.017881
17	-.124437	-.176397	-.062600	.046535
18	-.050323	-.104455	-.025402	.096145
19	-.015907	-.050601	.053424	.153429
20	.050629	-.008064	.153123	.175195
21	.065084	-.012379	.136087	.192555
22	.066143	-.006783	.231924	.170190
23	.066683	-.011411	.159340	.116129
24	.104221	-.031959	.044484	.092158
25	.155285	-.024004	.038133	.065374
26	.140388	.002457	.063119	.083250
27	.107229	.068722	-.045333	.045720
28	.039385	.119614	-.119507	-.008890
29	-.000339	.103205	-.053456	-.045157
30	-.070452	.064997	-.092810	-.118000

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.018219	.036300	.012159	.010108
1	.217212	.308115	.122525	.121195
2	.293428	.323647	.216186	.210442
3	.284888	.253495	.201323	.260853
4	.143915	.109781	.158725	.148183
5	.063788	.075302	.125011	.054023
6	.049472	.103920	.108468	.042921
7	.047263	.092363	.056925	.041212
8	.041032	.061437	.060728	.028747
9-11	.025936	.052116	.084203	.019282
12-14	.014942	.031489	.060662	.015797
15-21	.011648	.021334	.087707	.010336
22-30	.013295	.011553	.074044	.009608

RUN NO. 38 40M 10-16-61 1209-1315 EST

GROSS STATISTICS

3 CI CS	WIND SPEED	6.48 M/SEC	WIND DIRECTION	299 DEG
UNSTABLE	SIGMA A	18.7 DEG	SOLAR RADIATION	0.93
LAND	SIGMA E	10.3 DEG	NET RADIATION	0.61

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				

U	0.29331E 01	0.19164E 01	0.87382E 00	0.15610E 01
V	0.47520E 01	0.18793E 01	0.10171E 01	0.14410E 01
W	0.10463E 01	0.92752E 00	0.68503E 00	0.56603E 00
T	0.22865E-00	0.77854E-01	0.38576E-01	0.61858E-01
E	0.43658E 01	0.23622E 01	0.12880E 01	

GUSTINESS RATIOS				

U	0.26430	0.21363	0.14426	0.19281
V	0.33641	0.21155	0.15563	0.18525
W	0.15786	0.14862	0.12773	0.11610

COVARIANCES				

U,V	-0.54096E 00	-0.48670E-01	0.80833E-01	-0.47345E-01
U,W	-0.70627E 00	-0.54178E 00	-0.19547E-00	-0.47668E-00
U,T	-0.37242E-00	-0.21319E-00	-0.80320E-01	-0.19199E-00
V,W	-0.79929E-01	-0.87781E-01	-0.71424E-01	-0.82395E-01
V,T	-0.13875E-00	-0.27654E-01	-0.15477E-01	-0.27098E-01
W,T	0.22456E-00	0.12932E-00	0.65625E-01	0.10115E-00
WE	0.28850E-00	0.26741E-00	0.61531E-01	

NORMALIZED COVARIANCES				

U,V	-0.14490	-0.02565	0.08574	-0.03157
U,W	-0.40315	-0.40636	-0.25265	-0.50711
U,T	-0.45477	-0.55193	-0.43748	-0.61784
V,W	-0.03585	-0.06649	-0.08557	-0.09123
V,T	-0.13311	-0.07230	-0.07814	-0.09076
W,T	0.45910	0.48123	0.40370	0.54054

RUN NO. 38 60M 10-16-61 1209-1315 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.94293 10E 00	0.77378 10E 00	0.18361 10E 00	0.83495 10E 00	0.19813 10E 00	0.16259 10E 00
0	.085829	-.252734	-.437498	-.085569	-.078035	.403932
1	.080365	-.242328	-.416650	-.080467	-.078484	.359727
2	.072985	-.219931	-.382789	-.072309	-.078471	.289583
3	.066198	-.191798	-.349807	-.066042	-.075537	.225881
4	.058412	-.159004	-.310002	-.064075	-.066493	.169968
5	.054257	-.126208	-.263931	-.061972	-.057288	.120239
6	.054513	-.103881	-.219533	-.061722	-.050701	.080470
7	.050700	-.079664	-.173461	-.057782	-.046022	.049404
8	.039719	-.054309	-.130481	-.048016	-.034478	.029919
9	.025679	-.031045	-.091672	-.037677	-.019578	.016297
10	.018761	-.011555	-.057178	-.028004	-.003414	.009578
11	.014602	.009811	-.027875	-.022564	.005005	-.002716
12	.006694	.023187	-.002364	-.012060	.012472	-.015606
13	-.007571	.027044	.012083	.002139	.019962	-.026455
14	-.020800	.032865	.027365	.014543	.026438	-.035737
15	-.033220	.042688	.045303	.020537	.022886	-.047200
16	-.042408	.056955	.058565	.027031	.014157	-.055993
17	-.049848	.061755	.068370	.029166	.009403	-.062771
18	-.056051	.060525	.080420	.023482	.007350	-.069535
19	-.058514	.056970	.090783	.018114	.005870	-.074736
20	-.057253	.053336	.096851	.019997	.004343	-.078417
21	-.052390	.050794	.106411	.026293	.001432	-.076791
22	-.051420	.055239	.117456	.033568	-.002374	-.075781
23	-.053576	.063625	.127138	.043674	.000050	-.078521
24	-.054375	.073472	.135997	.050297	.003982	-.087790
25	-.049373	.076375	.142781	.051752	.005650	-.095865
26	-.042112	.082332	.149526	.055748	.010601	-.097003
27	-.034602	.083909	.150498	.059173	.012934	-.094923
28	-.028013	.079604	.144351	.056947	.008747	-.088603
29	-.019779	.070817	.133950	.050816	.008392	-.080506
30	-.011148	.059077	.123060	.043938	.006816	-.074505
31	-.002667	.041612	.108615	.032560	.005404	-.060634
32	.005785	.027017	.093253	.016987	.007963	-.049758
33	.011940	.019586	.078931	.004630	.006403	-.042694
34	.011616	.012234	.065423	-.002376	.002966	-.038156
35	.010588	.007679	.059711	-.002742	.003223	-.030433
36	.012277	.004835	.054487	-.001976	.004447	-.022053
37	.019055	.004097	.049531	.000505	.006013	-.016185
38	.030311	.006741	.047565	-.001199	.002805	-.014553
39	.043267	.011435	.052904	-.008385	.002293	-.016389
40	.048121	.013528	.059431	-.014514	.005058	-.023889
41	.046310	.011854	.066764	-.013381	.010039	-.032193
42	.040012	.010438	.068708	-.011306	.016685	-.036946
43	.027353	.009783	.069021	-.007042	.029303	-.031815
44	.014381	.009754	.070601	-.003917	.039324	-.024048
45	.000628	.016699	.071646	-.000200	.044601	-.020860
46	-.011176	.022627	.073338	.006454	.052075	-.024201
47	-.024924	.028090	.072691	.016587	.060170	-.024176
48	-.034307	.033564	.067375	.028881	.067928	-.026706
49	-.044741	.040702	.059862	.038875	.075088	-.026006
50	-.055978	.043096	.056826	.040701	.075703	-.022302
51	-.062741	.044847	.058992	.030697	.075990	-.015860
52	-.062813	.050954	.067554	.023101	.069043	-.010823
53	-.062338	.051615	.070410	.016028	.059101	-.003225
54	-.056971	.045619	.068444	.009852	.050344	.001527
55	-.051009	.037411	.063243	.007076	.043526	.012098
56	-.048126	.022583	.055181	.006892	.045163	.020209
57	-.047929	.009914	.044693	.013756	.045246	.029880
58	-.045853	-.002515	.035562	.018326	.043963	.033102
59	-.042604	-.013734	.024970	.021487	.040994	.033290
60	-.041528	-.021073	.018916	.025342	.037332	.037716

RUN NO. 38 40M 10-16-61 1209-1315 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.94293 10E 00	0.77378 10E 00	0.18361 10E 00	0.83495 10E 00	0.19813 10E 00	0.16259 10E 00
1	.007654	-.014367	-.023665	.001373	-.009838	-.007135
2	.013867	-.026707	-.040634	.013114	-.014141	-.001973
3	.019232	-.039831	-.052608	.024809	-.019325	.007504
4	.026978	-.049920	-.061409	.034864	-.019949	.006111
5	.028575	-.058549	-.067341	.038114	-.023285	.006009
6	.030562	-.061215	-.066938	.045068	-.023343	.011812
7	.030845	-.068659	-.068474	.052993	-.026200	.010651
8	.030520	-.075111	-.067444	.050422	-.030062	.001301
9	.031870	-.072155	-.070160	.047810	-.028876	-.007327
10	.036501	-.064316	-.074390	.049801	-.025717	-.007693
11	.039142	-.060904	-.083278	.053611	-.022428	-.006620
12	.039275	-.061329	-.088256	.058980	-.019224	-.007685
13	.037718	-.056973	-.087357	.061371	-.011406	-.012130
14	.033689	-.050239	-.079585	.061578	.001835	-.011811
15	.030564	-.050684	-.075832	.061810	.010752	-.007789
16	.030289	-.052064	-.075699	.059701	.016279	-.007254
17	.027294	-.051514	-.066435	.056875	.021226	-.013037
18	.024719	-.046463	-.056958	.057373	.025058	-.021352
19	.027175	-.037080	-.051505	.065432	.030056	-.020792
20	.030447	-.022011	-.048159	.074046	.033376	-.019328
21	.032280	-.011714	-.046597	.079837	.033753	-.018234
22	.035660	-.008989	-.047449	.081815	.027994	-.013397
23	.037837	-.006674	-.053849	.071488	.019502	-.007825
24	.036889	-.003548	-.063769	.061221	.013325	.000837
25	.030054	-.000248	-.069345	.049877	.008156	.004289
26	.026016	.000570	-.067844	.034993	.008871	.006567
27	.027272	.002176	-.063228	.018795	.010567	.005216
28	.027485	.004000	-.058313	.005148	.011377	.006419
29	.024423	.006086	-.051195	-.007272	.014628	.008411
30	.022203	.011926	-.039585	-.019808	.021051	.015613
31	.018058	.013133	-.078675	-.034993	.020425	.021192
32	.013854	.013143	-.019620	-.049226	.013571	.029134
33	.016569	.016953	-.013767	-.053898	.009973	.037434
34	.016735	.020952	-.004021	-.056934	.004730	.040853
35	.013470	.022526	.010492	-.068103	.001192	.041965
36	.008695	.030689	.025770	-.082186	-.003003	.044335
37	.001730	.035589	.040297	-.096954	-.009772	.044247
38	-.006231	.035717	.048605	-.108920	-.017943	.041547
39	-.010910	.030962	.057023	-.109959	-.023054	.036123
40	-.009995	.022736	.059346	-.103912	-.024126	.027905
41	-.002434	.010803	.058062	-.101078	-.024988	.022647
42	.000288	.002951	.056233	-.100388	-.025165	.018327
43	.001395	-.000051	.055507	-.101837	-.026594	.008454
44	-.001895	.002212	.053910	-.091752	-.026219	.002770
45	-.005973	.006210	.050225	-.078221	-.024727	-.002130
46	-.012448	.003806	.043581	-.067077	-.021305	-.005853
47	-.017730	.000736	.037054	-.058204	-.012136	-.006619
48	-.021446	-.004276	.033047	-.043194	-.004308	-.010421
49	-.024242	-.016641	.019075	-.031023	-.000803	-.016817
50	-.028060	-.024760	.004947	-.017138	.001604	-.022226
51	-.031276	-.027677	-.001310	-.002619	.001373	-.023672
52	-.033406	-.020083	-.000251	.009476	.004125	-.023519
53	-.032671	-.008983	.001436	.024952	.004615	-.028692
54	-.030291	-.000168	.001898	.037645	.001184	-.036035
55	-.023955	.009847	-.000240	.051974	-.002690	-.040841
56	-.019523	.017314	.001231	.062174	-.008893	-.037551
57	-.015218	.020247	.009672	.074741	-.014915	-.032316
58	-.013862	.018077	.021213	.080961	-.019981	-.030305
59	-.018657	.022587	.034118	.081620	-.025807	-.031401
60	-.024307	.027933	.040758	.085730	-.024763	-.029247

RUN NO. 38 40M 10-16-61 1209-1315 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.87385 10E 00	0.10175 10E 01	0.68517 10E 00	0.38580 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.876527	.878116	.802855	.855585
2	.720544	.712646	.577557	.701039
3	.591690	.573375	.417414	.572026
4	.482183	.463537	.289232	.466425
5	.390065	.367055	.185123	.374265
6	.316049	.278020	.098753	.291423
7	.250930	.199152	.028924	.210374
8	.189767	.131917	-.013660	.147112
9	.136542	.069520	-.033653	.091459
10	.082670	.008570	-.053302	.043840
11	.032407	-.037219	-.065706	.002909
12	-.014226	-.076223	-.073848	-.035793
13	-.059479	-.113032	-.087378	-.078556
14	-.094764	-.150011	-.108026	-.116378
15	-.122632	-.182180	-.134298	-.150788
16	-.146676	-.214728	-.165260	-.179399
17	-.173852	-.243266	-.189639	-.203570
18	-.200717	-.262704	-.200548	-.223586
19	-.216727	-.279973	-.200584	-.234334
20	-.231701	-.296875	-.210589	-.236333
21	-.240929	-.304193	-.211221	-.242320
22	-.245276	-.298826	-.205024	-.245323
23	-.245521	-.298180	-.207807	-.250559
24	-.245728	-.297317	-.221476	-.257110
25	-.247352	-.286678	-.233276	-.257077
26	-.249892	-.268720	-.235873	-.247529
27	-.248229	-.244526	-.221458	-.23548
28	-.241363	-.221666	-.191629	-.226315
29	-.228124	-.191911	-.151157	-.214524
30	-.214361	-.158440	-.111361	-.192687
31	-.193835	-.120098	-.065081	-.153322
32	-.169525	-.084173	-.027435	-.119374
33	-.144048	-.053679	.000628	-.092399
34	-.122325	-.031604	.027947	-.067694
35	-.108796	-.013803	.049635	-.051508
36	-.102414	.000144	.061191	-.036064
37	-.099536	.011199	.065093	-.019202
38	-.091723	.031325	.055166	-.004005
39	-.078350	.052074	.038576	-.000814
40	-.065817	.077727	.025899	-.006843
41	-.053067	.094687	.020121	-.014464
42	-.043264	.101907	.011048	-.014369
43	-.038967	.098433	.006534	-.001506
44	-.041217	.097886	.010436	.001038
45	-.052429	.096377	.021348	-.008899
46	-.065031	.090759	.027521	-.017744
47	-.076623	.090730	.019028	-.020972
48	-.085075	.090455	.010645	-.020898
49	-.085176	.086561	.013537	-.023718
50	-.077610	.075183	.024105	-.022661
51	-.069182	.056971	.022501	-.021317
52	-.061893	.037310	.013082	-.023191
53	-.049154	.018960	.019653	-.031029
54	-.039903	-.002820	.033145	-.039909
55	-.031166	-.019509	.045069	-.049302
56	-.026171	-.029214	.051315	-.054735
57	-.024670	-.043025	.059204	-.058219
58	-.021615	-.055253	.071793	-.059871
59	-.015930	-.067506	.067224	-.054183
60	-.010699	-.076023	.060118	-.043819

RUN NO. 38 40M 10-16-61 1209-1315 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
0	.018299	-.059749	-.031965	-.028487	-.104190	.012827
1	.156401	-.427591	-.224100	-.216901	-.540219	.106511
2	.218085	-.430062	-.202827	-.226679	-.336509	.112071
3	.279385	-.407896	-.160048	-.194435	-.304011	.101703
4	.131682	-.250125	-.089056	-.062091	-.290798	.065982
5	-.012826	-.138357	-.046279	.005615	-.172415	.043251
6	-.008844	-.128965	-.041390	-.023432	-.135397	.041169
7-8	-.008443	-.066195	-.023940	.007537	.010170	.032441
9-11	.011535	-.026107	-.005208	.003200	.032753	.021356
12-15	.004325	-.008467	-.001807	-.006995	-.011595	.009262
16-20	.009017	-.009524	-.002016	-.007286	.002578	.004348
21-27	-.001098	.000613	-.001263	-.001292	.011656	.003472
28-36	.002231	-.000663	-.001189	-.001256	-.002887	.001636
37-47	.001182	-.000949	-.000588	-.000371	-.001348	.000920
48-60	.000336	-.000105	-.000145	-.000442	.000314	.000470

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-03
1	.241866	-.162041	-.848923	.181047	.081916	.476490
2	.160137	-.198057	-.723233	.313561	.020135	-.932466
3	.065028	-.190174	-.344779	.155059	-.173306	-.763449
4	.030403	-.093726	-.107157	-.062923	-.242445	.960639
5	.034085	-.046674	-.204830	.002203	-.139828	.758851
6	.026533	-.028707	-.110094	.049064	-.088318	.040793
7-8	.003094	-.011301	.015853	.018938	.027933	.156892
9-11	.002874	-.004892	-.070995	-.006955	-.002895	.103261
12-15	.005307	.002191	-.018717	-.003566	-.010918	-.232117
16-20	-.004377	-.000794	.005077	-.003585	-.003584	-.074530
21-27	.001589	.001470	-.007169	-.002597	-.001817	-.008590
28-36	-.000028	-.002033	-.001938	-.003500	-.003097	-.148488
37-47	.001011	.000621	-.000328	-.000180	-.000024	.008637
48-60	-.001139	-.001047	-.001480	-.000985	-.003678	.003552

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E 00	10E-02
0	.021386	.017985	.005253	.083542
1	.169858	.142143	.061108	.643886
2	.172628	.186478	.088633	.711030
3	.148816	.199557	.101809	.681312
4	.087287	.115799	.066606	.406604
5	.050553	.060436	.037965	.223916
6	.041285	.049594	.040467	.192223
7-8	.029082	.040130	.038257	.137895
9-11	.019801	.023208	.025220	.091020
12-15	.012417	.013392	.011498	.046845
16-20	.006840	.008991	.008591	.032689
21-27	.004351	.005573	.006108	.023019
28-36	.002824	.003034	.003603	.013839
37-47	.001888	.001894	.002714	.010944
48-60	.001230	.001290	.001596	.008148

RUN NO. 38 40M 10-16-61 1209-1315 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14999 10E 01	0.93998 10E 00	0.31063 10E 00	0.90357 10E 00	0.29860 10E 00	0.18713 10E 00
0	-.031565	-.507123	-.618066	-.091188	-.090749	.540512
1	-.071391	-.369098	-.440019	-.050595	-.048027	.339604
2	-.112076	-.250805	-.263065	.008939	-.008324	.209581
3	-.100986	-.151043	-.106046	.039793	.023991	.102745
4	-.075856	-.091044	.001398	.026614	.070988	.040312
5	-.068135	.019090	.087489	.036825	.087745	-.033521
6	-.025710	.040224	.098646	.018840	.062574	-.060969
7	.043301	.074649	.086070	-.037569	.008306	-.100279
8	.084595	.131719	.079406	-.046400	-.035053	-.145149
9	.094638	.187381	.142042	-.032279	-.002943	-.162935
10	.123262	.197796	.181695	-.048343	.008755	-.184805
11	.121593	.179924	.169011	-.041738	.008421	-.163005
12	.093410	.189162	.165629	-.023944	.001097	-.163118
13	.034279	.142856	.126732	-.013058	.026196	-.071847
14	-.004609	.142631	.135840	-.034692	.040123	-.058068
15	-.012182	.106064	.096196	-.015029	.000053	-.001457
16	-.011991	.047567	.004552	.005555	-.005681	.044136
17	-.059056	.075997	-.027267	.070630	.024479	.009153
18	-.058307	.036759	-.074189	.087368	.003354	.046283
19	-.058436	-.049777	-.146742	.104332	-.013218	.111830
20	-.023615	-.066221	-.150064	.098000	-.023534	.122119
21	-.005138	-.041483	-.078207	.089358	-.021032	.083284
22	.017156	-.062267	-.012855	.061579	.009617	.054315
23	.010151	-.108051	.013035	.025802	-.001065	.055579
24	-.022525	-.105474	.044763	.001871	.011253	.050985
25	-.064616	-.089894	.041044	.054925	.080175	.008107
26	-.068449	-.065446	.051707	.040016	.075385	-.013420
27	-.060160	-.000547	.045646	.035123	.046784	-.066161
28	-.019529	.046938	.029375	.009223	-.003735	-.126158
29	.053085	.011540	.036279	-.035758	-.049578	-.117873
30	.103063	.032703	.068410	-.050084	-.082984	-.132098

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E 00	10E-01	10E-01	10E-02	10E-01
0	-.050564	-.004004	-.025187	-.009034	.160692	.014456
1	-.289325	-.061475	-.192706	-.151493	.295413	.087388
2	-.492212	-.097874	-.282412	-.006962	-.021922	.141334
3	-.689379	-.105382	-.367452	.136073	-.191986	.202140
4	-.353212	-.057066	-.236297	-.028208	-.252518	.136802
5	.171380	-.029195	-.125940	-.156545	-.414084	.061223
6	.320448	-.020637	-.159273	-.103435	-.662061	.043385
7	.176471	-.017020	-.145856	-.120963	-.591163	.042280
8	.106593	-.017356	-.098377	-.150766	-.434910	.046251
9-11	.052888	-.011637	-.053137	-.043814	-.036620	.029432
12-14	.021487	-.003949	-.017255	-.023419	.088009	.019379
15-21	.058132	-.006716	-.022380	-.020933	-.095177	.015745
22-30	.006700	-.004315	-.018920	-.005461	-.045859	.015769

RUN NO. 38 40M 10-16-61 1209-1315 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14999 10E 01	0.93998 10E 00	0.31063 10E 00	0.90357 10E 00	0.29860 10E 00	0.18713 10E 00
1	.041478	-.074960	-.103695	.049613	.003791	.012767
2	.068052	-.074623	-.143155	.074636	.064544	.018424
3	.041294	-.079326	-.154947	.041297	.063783	.044666
4	.017499	-.069440	-.106564	-.012411	.074823	.056855
5	-.017343	-.062642	-.114221	.018934	.073303	.024116
6	-.043481	-.025842	-.080581	.084186	.082335	.009980
7	-.027136	-.043198	-.087972	.059243	.097305	.025327
8	-.008648	-.083021	-.116190	-.049082	.092089	.015616
9	.008162	-.092148	-.146303	-.057573	.076245	.037194
10	.041231	-.044783	-.121654	-.020720	.089262	.016973
11	.040263	-.035270	-.103479	-.017283	.062415	-.020570
12	.006442	.006249	-.070377	-.019078	.016140	-.006080
13	-.011341	.050904	-.054348	-.048968	-.008767	.000486
14	-.040688	.061850	-.006145	-.078531	-.041091	.027275
15	-.030725	.095640	.019329	-.005685	-.042513	.046413
16	-.019230	.071220	.017162	-.018131	-.083381	.033666
17	.019962	.067194	.011834	-.013972	-.075945	.020127
18	.053387	.030572	.032686	.010638	-.042929	-.012071
19	.070748	.021082	.019747	-.017629	-.021583	.047793
20	.048854	.037734	.024768	-.000803	-.012707	.036615
21	.029879	.019489	.027474	.036969	-.043466	-.014529
22	-.018129	-.001068	.059432	.058445	-.044425	-.060961
23	-.025817	.037302	.069793	.079845	-.032009	-.056743
24	-.014871	-.025572	.044685	.104861	-.036763	-.046205
25	.007469	-.110073	.013317	.100110	-.005117	-.059898
26	.034416	-.114600	.013497	.126246	.079538	-.083248
27	.021686	-.076014	.008734	.094993	.112381	-.073171
28	-.026298	-.053240	.020270	.050659	.085939	-.040617
29	-.036421	-.018623	.044267	.004466	.040158	-.025910
30	-.120941	.010921	.065574	-.014234	-.072940	-.014172

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
1	.081626	-.111778	-.204501	-.044374	.083776	.319778
2	.000626	-.279401	-.188895	.010211	.121640	.221662
3	.040030	-.340456	-.124341	.185178	.104223	.110345
4	.088204	-.097857	-.043584	.159765	.015876	.208512
5	.033991	.021609	-.029449	.079861	-.019079	.146208
6	.154002	-.049644	-.051822	.039036	-.001527	.002084
7	.364924	-.159214	-.074172	-.000335	.022211	.023300
8	.240313	-.149962	-.058198	.012703	.008074	.052903
9-11	.030222	-.036059	-.019899	.067121	-.000459	-.013483
12-14	.014298	.002529	-.004632	.114082	-.001332	-.062011
15-21	.003165	-.029016	-.000980	-.032916	-.008317	.030401
22-30	-.020394	-.022101	-.010567	-.000766	-.008999	.000395

RUN NO. 38 40M 10-16-61 1209-1315 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.15403 10E 01	0.14418 10E 01	0.56626 10E 00	0.61840 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.680510	.650438	.409384	.649110
2	.413369	.357367	.166849	.371600
3	.197343	.224318	.101462	.183429
4	.058687	.098699	.062740	.059180
5	-.042487	.021487	-.033726	-.069327
6	-.037912	-.087955	-.053012	-.146302
7	-.032668	-.135273	-.158181	-.151512
8	-.044448	-.097129	-.218240	-.149266
9	-.135229	-.110116	-.196670	-.206525
10	-.216568	-.118635	-.138199	-.263378
11	-.294944	-.138465	-.128617	-.232522
12	-.312823	-.173992	-.163828	-.224714
13	-.308634	-.207960	-.134522	-.188217
14	-.296640	-.215378	-.119513	-.197382
15	-.247754	-.155053	-.106880	-.106717
16	-.131263	-.160716	-.093874	-.022961
17	-.084696	-.234088	-.106358	.010052
18	-.046022	-.108657	-.070636	.044792
19	.025316	-.029657	.043064	.115545
20	.024880	-.015232	.122739	.173427
21	-.029306	-.002988	.093610	.132671
22	-.057344	-.036396	.118481	.023559
23	-.029157	.012667	.078704	-.032218
24	.028337	.015522	.183588	-.085241
25	.072397	-.040068	.108025	-.093812
26	.062852	-.025621	.046597	-.100348
27	.031421	.028507	-.060035	-.061034
28	.009361	.056820	-.147262	-.049605
29	.015794	.051573	-.142389	-.049036
30	.012896	.043598	-.033928	-.082377

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.022781	.030110	.034340	.009103
1	.233401	.226201	.394982	.067667
2	.278318	.231699	.626596	.088592
3	.251956	.200336	.712090	.108183
4	.128960	.129911	.464467	.071962
5	.077652	.112264	.366175	.040306
6	.109076	.103808	.283849	.042595
7	.124062	.071107	.168065	.035793
8	.088255	.048169	.167118	.026373
9-11	.042267	.035174	.218242	.016674
12-14	.021300	.038807	.199064	.011636
15-21	.020785	.023527	.171813	.009920
22-30	.017931	.016876	.146216	.007909

RUN NO. 38 16M 10-16-61 1209-1315 EST
 RUN NO. 35 40M 10-16-61 1209-1315 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.738970	.680864	.812133	.707337
1	.607636	.766090	.652337	.656582
2	.505952	.724575	.546563	.567027
3	.395765	.691381	.499910	.496634
4	.229651	.614992	.538039	.458603
5	.156499	.427822	.572176	.391321
6	.225769	.225376	.540328	.374881
7-8	.104003	.202980	.357602	.356896
9-11	.137985	.254720	.327434	.211318
12-15	.166447	.099520	.233789	.135993
16-20	.128924	.143362	.215790	.091699
21-27	.089005	.073435	.081982	.130365
28-36	.142253	.104672	.117589	.125465
37-47	.074017	.127147	.119016	.128623
48-60	.115462	.086109	.136969	.135519

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 01	10E 00	10E 00	10E 01
0	.100743	.995010	.910878	.100243
1	.096782	.954822	.855790	.091332
2	.094306	.905934	.850893	.085264
3	.091626	.858337	.871938	.086564
4	.082606	.807753	.840210	.083466
5	.069611	.814057	.865779	.065112
6	.069360	.893163	.766246	.058296
7	.073566	.873391	.497731	.066316
8	.071387	.734059	.641625	.080501
9-11	.032466	.715313	.623270	.064328
12-14	.035349	.702564	.415716	.051392
15-21	.034178	.621601	.564354	.050187
22-30	.033274	.244819	.549993	.036452

RUN NO. 41 16M 10-16-61 2045-2145 EST

GROSS STATISTICS

CLEAR	WIND SPEED	5.03 M/SEC	WIND DIRECTION	280 DEG
STABLE	SIGMA A	7.4 DEG	SOLAR RADIATION	0
LAND	SIGMA E	4.5 DEG	NET RADIATION	-0.16

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.97577E 00	0.52830E 00	0.39952E-00	0.32786E-00
V	0.43219E-00	0.31929E-00	0.29319E-00	0.12732E-00
W	0.16064E-00	0.15865E-00	0.14876E-00	0.55970E-01
T	0.41390E-01	0.23634E-01	0.18317E-01	0.14616E-01
E	0.78430E 00	0.50313E 00	0.42074E-00	

GUSTINESS RATIOS				
U	0.19638	0.14450	0.12566	0.11384
V	0.13070	0.11234	0.10765	0.07094
W	0.07968	0.07919	0.07668	0.04703

COVARIANCES				
U,V	-0.17205E-00	0.26935E-01	0.20720E-01	0.21572E-01
U,W	-0.10172E-00	-0.11072E-00	-0.98204E-01	-0.62942E-01
U,T	0.15160E-00	0.67744E-01	0.46374E-01	0.49253E-01
V,W	-0.20101E-01	-0.18142E-01	-0.13494E-01	-0.89748E-02
V,T	-0.30180E-01	0.83438E-02	0.64554E-02	0.59742E-02
W,T	-0.21178E-01	-0.23124E-01	-0.20179E-01	-0.11243E-01
WE	-0.74062E-02	-0.49669E-02	-0.79165E-02	

NORMALIZED COVARIANCES				
U,V	-0.26494	0.06558	0.06054	0.10558
U,W	-0.25691	-0.38243	-0.40282	-0.46464
U,T	0.75438	0.60626	0.54210	0.71149
V,W	-0.07629	-0.08061	-0.06462	-0.10631
V,T	-0.22565	0.09605	0.08809	0.13849
W,T	-0.25972	-0.37763	-0.38657	-0.39307

RUN NO. 41 16M 10-16-61 2045-2145 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED LOSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.34223 10E 00	0.24376 10E 00	0.85542 10E-01	0.20888 10E 00	0.73303 10E-01	0.52210 10E-01
0	.060490	-.402888	.542283	-.064470	.088208	-.386751
1	.055482	-.342924	.494599	-.045877	.079614	-.294983
2	.052449	-.244367	.407198	-.021703	.056477	-.189848
3	.051257	-.160953	.319523	-.003814	.044441	-.119676
4	.043968	-.103301	.245590	.008580	.041720	-.067681
5	.033033	-.070867	.183118	.006065	.032399	-.037328
6	.020097	-.042847	.151308	.017740	.012240	-.018264
7	.000402	-.022360	.121340	.020268	-.003369	-.007378
8	-.017843	-.006867	.093780	.016660	-.012928	-.005650
9	-.025963	.002992	.066082	.016689	-.011890	.001002
10	-.030445	.004399	.037186	.019060	-.015592	.005583
11	-.033076	.016673	.000932	.020722	-.022389	.016701
12	-.027395	.026414	-.040393	.015898	-.026289	.031880
13	-.026683	.037222	-.075651	.025385	-.037292	.041615
14	-.028863	.049981	-.105122	.029115	-.045869	.049612
15	-.024396	.058456	-.131138	.033259	-.056925	.050197
16	-.012835	.070167	-.150293	.035864	-.063337	.056075
17	.001705	.079514	-.166325	.028794	-.056438	.064901
18	.015124	.078811	-.173817	.027389	-.045548	.071524
19	.015511	.081072	-.179155	.022423	-.035760	.061196
20	.008612	.083789	-.182555	.016577	-.031611	.044734
21	-.003023	.081972	-.182471	.000785	-.020681	.031036
22	-.016824	.079298	-.183139	-.019915	-.007601	.028956
23	-.029301	.088073	-.188016	-.037961	.004150	.045376
24	-.030349	.097072	-.197294	-.041912	.013031	.055507
25	-.014204	.091960	-.195030	-.049731	.029279	.062868
26	-.006060	.087461	-.179699	-.047511	.038011	.057452
27	-.004902	.085031	-.164913	-.044503	.034306	.059017
28	-.009944	.083569	-.148841	-.036698	.024166	.063841
29	-.009920	.078191	-.129669	-.041283	.017255	.069638
30	-.011857	.072470	-.114091	-.027795	.009948	.073528
31	-.007150	.063498	-.101826	-.024193	.002252	.079168
32	.003890	.060315	-.096018	-.027775	-.003003	.077041
33	.011688	.057899	-.086509	-.023618	-.001441	.062549
34	.015668	.047625	-.068559	-.022501	-.005304	.036773
35	.014963	.035997	-.045545	-.007160	-.004820	.007532
36	-.000403	.027117	-.026087	.000418	-.000644	-.011503
37	-.010306	.014278	-.012583	.004782	-.001730	-.019435
38	-.012341	-.004085	.003691	.009679	-.002289	-.025453
39	-.006526	-.005050	.015770	.009200	-.001182	-.023902
40	-.004967	-.011399	.026471	.007195	-.001801	-.019583
41	-.000146	-.021343	.044535	.012901	.004840	-.014251
42	.003604	-.024479	.062305	.007121	.014750	-.016135
43	.013255	-.021454	.071608	.002273	.019631	-.022535
44	.026161	-.027005	.079748	.004432	.018125	-.025388
45	.028500	-.025948	.080885	.003694	.016898	-.018124
46	.025793	-.023702	.078428	.010705	.013744	-.004132
47	.016865	-.019182	.074560	.016444	.010091	.008513
48	-.001012	-.022270	.069649	.027341	-.003403	.009509
49	-.019981	-.024383	.062555	.045313	-.010286	.015684
50	-.021668	-.026369	.060792	.043410	-.002844	.018446
51	-.023235	-.036729	.062063	.031903	.001158	.013786
52	-.020298	-.053373	.066776	.018469	-.001538	.005382
53	-.016513	-.060623	.071810	.012185	.003914	-.000540
54	-.014377	-.053046	.065631	.010850	.005675	-.010198
55	-.006113	-.044919	.060861	.011395	.010271	-.016476
56	-.000193	-.046501	.059409	.016360	.007339	-.018583
57	-.006745	-.044808	.054244	.031704	.000603	-.020285
58	-.008188	-.043004	.049927	.029388	-.009405	-.021948
59	-.008345	-.041764	.050686	.023081	-.021115	-.024845
60	-.010706	-.034639	.048865	.017479	-.022713	-.031545

RUN NO. 41 16M 10-16-61 2045-2145 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.34223 10E 00	0.24376 10E 00	0.85542 10E-01	0.20888 10E 00	0.73303 10E-01	0.52210 10E-01
1	.024840	-.034367	.039458	.013229	.015058	-.039634
2	.042196	-.041384	.068796	.033174	.016716	-.061135
3	.043523	-.026767	.087761	.048996	.017306	-.072188
4	.036727	-.011803	.095207	.052385	.018510	-.074854
5	.036731	-.002848	.095729	.030547	.024311	-.068389
6	.034687	.006043	.094524	.016950	.031428	-.065577
7	.036019	.011054	.095740	.006749	.027962	-.073189
8	.031666	.015950	.090303	-.001827	.025424	-.064060
9	.029649	.015419	.078951	-.014084	.026829	-.047989
10	.026368	.007962	.072738	-.001465	.019961	-.042769
11	.019578	.008058	.065431	-.000239	.021374	-.035116
12	.017717	.022482	.056563	-.008354	.018547	-.030650
13	.016632	.043335	.044066	-.011324	.014171	-.040814
14	.021049	.056424	.034138	-.004290	.015098	-.052113
15	.023406	.061438	.028862	-.000370	.020481	-.058218
16	.026579	.057032	.026915	.004712	.023089	-.061844
17	.031981	.048070	.027952	.017633	.021368	-.053279
18	.023073	.044464	.029330	.024771	.012707	-.047731
19	.010364	.043324	.028866	.017040	.005126	-.038749
20	-.001195	.029323	.031728	.000606	.003205	-.037441
21	-.015022	.017268	.028171	-.012271	.001230	-.027448
22	-.019703	.019380	.013132	-.032584	.004607	-.015296
23	-.016160	.024148	-.000893	-.041748	.001797	-.007405
24	-.008089	.019353	-.004799	-.034968	-.015718	-.000819
25	-.003868	.013435	-.005512	-.027899	-.037377	-.001329
26	-.007320	.000654	-.009703	-.022215	-.045122	-.002282
27	-.009539	-.001857	-.012179	-.012910	-.043095	-.006882
28	-.007371	-.009845	-.006779	-.010173	-.030875	-.005944
29	.005248	-.012557	.001800	.006602	-.031912	-.007717
30	.009834	-.009607	-.000529	.017937	-.003536	-.008235
31	.005213	-.009606	-.010646	.022327	-.025550	-.009613
32	.000207	-.011072	-.022013	.006360	-.007577	.001322
33	-.010206	-.011957	-.034955	-.007659	.014804	.017879
34	-.018651	-.010054	-.032687	-.005479	.019683	.022279
35	-.028478	-.000488	-.023336	-.010117	.017497	.019967
36	-.034005	.013294	-.022639	-.013620	.014132	.021507
37	-.037303	.011542	-.021968	.000717	.013872	.024901
38	-.031171	-.011151	-.014647	.011685	.011911	.025211
39	-.016293	-.023619	-.007482	.019291	.012301	.026374
40	-.007461	-.029470	-.000359	.021881	.011204	.021791
41	.003067	-.032092	.005136	.018941	.014344	.018300
42	.007933	-.030826	.008732	.022152	.012055	.019759
43	.004972	-.033169	.002648	.013648	.012694	.024813
44	-.004475	-.026219	-.013448	.002805	.015839	.029528
45	-.007944	-.019000	-.026493	-.001304	.017763	.026968
46	-.013326	-.023381	-.022880	-.017183	.026723	.030928
47	-.016671	-.022055	-.018044	-.024692	.030434	.036961
48	-.018702	-.025131	-.010165	-.014924	.026824	.045789
49	-.010279	-.032851	-.006128	-.005752	.021159	.053747
50	.003442	-.041140	-.005749	.003546	.011012	.054457
51	.013926	-.042414	-.010344	.013762	.001111	.046895
52	.022690	-.036088	-.015040	.018162	-.011621	.042723
53	.027397	-.023626	-.015180	.027423	-.018731	.034677
54	.032755	-.009721	-.016016	.031483	-.017377	.029118
55	.036257	-.009424	-.014509	.027115	-.016955	.031998
56	.027046	-.007692	-.010342	.010824	-.018953	.031785
57	.017554	.003360	-.015031	-.002250	-.023076	.017001
58	.010752	.011651	-.019625	.005332	-.034043	.001653
59	.007635	.026111	-.023510	.010629	-.042837	-.011418
60	.016402	.036749	-.023744	.007436	-.043731	-.020058

RUN NO. 41 16M 10-16-61 2045-2145 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.39937 10E 00	0.29327 10E 00	0.14878 10E 00	0.18322 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.822482	.743821	.637561	.811750
2	.609772	.458723	.330340	.589580
3	.458089	.265059	.177375	.435320
4	.331547	.128118	.077797	.325448
5	.228729	.032658	.029989	.250823
6	.159578	-.041872	-.013054	.188285
7	.109905	-.082418	-.044048	.137770
8	.068429	-.091477	-.064425	.090890
9	.043897	-.098263	-.077640	.042976
10	.014177	-.098391	-.081632	-.000087
11	-.035612	-.097533	-.079169	-.050180
12	-.083653	-.103761	-.092229	-.092299
13	-.132406	-.108435	-.079818	-.125623
14	-.180407	-.101677	-.061073	-.155399
15	-.218245	-.091655	-.054810	-.177100
16	-.247384	-.077054	-.061998	-.190867
17	-.253895	-.077326	-.085103	-.210646
18	-.246456	-.095063	-.116074	-.228449
19	-.245742	-.095097	-.115177	-.240582
20	-.250573	-.082032	-.102131	-.243886
21	-.254036	-.074513	-.097989	-.247606
22	-.259742	-.078684	-.088131	-.256801
23	-.260899	-.095932	-.102728	-.268524
24	-.263425	-.109664	-.123003	-.265308
25	-.252354	-.130608	-.127938	-.257888
26	-.236047	-.144908	-.125341	-.246613
27	-.210479	-.150312	-.121341	-.234377
28	-.181572	-.151121	-.103141	-.223500
29	-.147056	-.149174	-.093341	-.201374
30	-.108633	-.133372	-.067763	-.174873
31	-.075438	-.102209	-.043927	-.142538
32	-.070709	-.067003	-.020780	-.121796
33	-.070537	-.036400	-.026472	-.102794
34	-.060626	-.013943	-.014910	-.077285
35	-.047093	-.004567	.000772	-.045973
36	-.036956	.014455	.019775	-.012711
37	-.022164	.038826	.036799	.017405
38	-.006636	.056315	.036910	.041667
39	.007250	.061913	.050902	.053192
40	.029775	.057934	.048695	.056345
41	.053327	.051671	.044988	.063149
42	.072383	.036101	.046826	.074089
43	.091290	.020066	.036057	.078889
44	.101706	.004513	.015678	.079787
45	.106200	.003838	-.002909	.082007
46	.105489	.000082	-.016878	.084225
47	.096788	.002353	-.029073	.086574
48	.094370	.004734	-.014913	.092381
49	.092896	.001146	-.005087	.093176
50	.092995	.019338	.021266	.080138
51	.099238	.037714	.033934	.073328
52	.105734	.048352	.024350	.067369
53	.101792	.052309	.030490	.059773
54	.090968	.067878	.051756	.053170
55	.087133	.078713	.046534	.054836
56	.076944	.074215	.055092	.053686
57	.067283	.053089	.046370	.044943
58	.062455	.037527	.019038	.045331
59	.052168	.036404	.010605	.047485
60	.040210	.030959	-.001175	.051124

RUN NO. 41 16M 10-16-61 2045-2145 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-02	10E-02
0	.023245	-.004214	.039296	-.003659	.000400	-.010423
1	.192546	-.095701	.637210	.088186	.012480	-.163889
2	.285067	-.143390	.964228	.129391	.053116	-.228511
3	.392455	-.142747	.979842	-.066265	.122369	-.235020
4	.352246	-.085478	.519524	-.317752	.154129	-.150821
5	.344723	-.063211	.273234	-.249965	.119606	-.129253
6	.354860	-.060324	.201760	-.047246	.033054	-.139922
7-8	.226968	-.047126	.143538	-.001332	-.008082	-.074142
9-11	-.093975	-.039176	.124364	-.117056	.030102	-.087215
12-15	-.016110	-.022763	.085030	-.040637	.003016	-.053646
16-20	-.007620	-.013915	.035007	-.027728	.003856	-.032618
21-27	.005721	-.008100	.017386	-.023474	.010651	-.022057
28-36	.002489	-.002444	.005988	-.005189	.001783	-.013745
37-47	.010548	-.001814	.004095	-.007479	-.001252	-.009855
48-60	.002619	-.000888	.001920	-.005157	-.000456	-.005077

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-03	10E-02
1	.186186	.326690	.175714	-.034405	.263770	-.115444
2	.372177	.360995	.225378	.000012	.410239	-.136388
3	.432665	.153263	.240380	.097399	.911239	-.104636
4	.282395	-.097819	.173737	.140621	.700318	-.059759
5	.207517	-.218579	.122992	.071011	-.034569	-.041162
6	.123557	-.220419	.112376	.032687	-.121979	-.033695
7-8	.091518	-.059497	.074752	.139402	.323531	-.041735
9-11	.137239	-.026731	.020757	.115908	-.016582	-.030317
12-15	.036820	-.129508	.022027	.054280	-.015368	-.002961
16-20	.050842	-.031668	.005231	-.017195	.039300	-.012048
21-27	.022383	-.039281	.002245	-.014876	.071540	-.001357
28-36	-.004566	-.011417	.000145	-.009425	.011384	-.000184
37-47	-.005805	.001113	.000045	.002249	.018077	-.001288
48-60	.004266	-.000500	.000504	-.006648	.002031	-.000443

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-02
0	.025504	.010515	.004106	.012472
1	.392864	.161936	.067183	.191095
2	.613361	.247474	.106704	.288939
3	.674114	.283244	.128373	.304123
4	.422753	.210599	.094553	.173890
5	.249053	.193844	.074584	.104128
6	.181426	.232486	.086920	.095048
7-8	.158508	.175600	.078180	.070181
9-11	.127229	.127391	.056871	.050241
12-15	.086066	.079149	.039118	.039242
16-20	.042945	.044743	.031820	.024653
21-27	.030056	.034707	.024277	.015682
28-36	.020029	.022441	.016397	.009728
37-47	.013361	.014066	.012734	.006329
48-60	.007675	.009171	.008132	.003846

RUN NO. 41 16M 10-16-61 2045-2145 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20429 10E 00	0.13549 10E 00	0.69242 10E-01	0.84407 10E-01	0.43137 10E-01	0.28609 10E-01
0	.105595	-.464558	.711310	-.106327	.138492	-.392976
1	-.001270	-.083088	.382664	.075405	-.007153	-.091457
2	-.000602	.039948	.119932	-.003042	.001279	.005973
3	-.003680	.140107	.016215	-.031609	.048897	.098275
4	.023846	.027765	.047323	.031101	.036779	.009559
5	-.000866	.004699	.017322	.022330	-.008300	.032689
6	.000173	.018166	-.047116	-.009643	-.015945	-.010176
7	.009721	.062103	-.148542	-.032924	.016493	-.006925
8	.018221	.071698	-.214398	-.046497	.013865	.008568
9	.042839	.062639	-.215511	-.096922	.011085	.032196
10	.053180	.019668	-.127436	-.005814	.007874	.003646
11	-.033298	-.059711	-.127493	.083791	-.055705	.023840
12	-.025145	-.053180	-.104830	.048170	-.026888	.021852
13	-.033600	.001452	-.133525	-.001845	-.021016	.038748
14	-.042016	.091042	-.121622	.008459	-.058858	.069915
15	-.035283	.060689	-.083086	.099504	-.008998	.068616
16	-.019664	-.063508	-.030057	.001917	.002472	.023178
17	.013497	-.128777	.045649	-.091719	.044330	-.069472
18	-.044225	-.161903	.093833	-.037009	-.003862	-.130172
19	-.081762	-.059081	.082922	-.005647	-.084798	-.047914
20	-.060270	.058133	.038924	-.013775	-.075077	.027813
21	-.002088	.099497	-.012317	-.069782	-.014273	.051897
22	.049053	.072038	.018345	-.076336	.035383	.046564
23	-.015160	.092736	.000044	.089864	-.038033	.048359
24	-.025859	.059319	.002578	.043699	-.026412	.053557
25	.019317	.069759	.019754	.04247	.006118	-.005587
26	.058202	.001007	.082819	.041275	.065321	-.008984
27	.073912	.010525	.027696	.013556	.059563	.077531
28	.080213	-.066966	.038081	-.023966	.081895	-.022661
29	.036203	-.052576	.090417	.076234	.064492	-.036002
30	.009463	-.094031	.098313	.063922	.020130	-.093791

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-03	10E-03
0	.012170	.003298	.010661	-.010305	.047378	-.035788
1	.261469	-.024343	.308636	-.015834	.641607	-.394819
2	.221441	-.061168	.568446	-.008556	.614397	-.486009
3	-.037540	-.304302	.747361	.000067	.308850	-.643190
4	-.111315	-.438852	.532205	.096447	.115109	-.468608
5	.034688	-.261435	.278885	.096874	-.037358	-.265365
6	.126723	-.371279	.235425	-.063866	.012472	-.725365
7	.204233	-.404186	.198675	-.121867	.365259	-.936841
8	.126665	-.106858	.112570	-.072545	.216141	-.509954
9-11	-.007002	-.521154	.277282	.044848	-.108740	-.780135
12-14	.162028	-.315464	.204392	-.030987	.210614	-.493306
15-21	.089835	-.173057	.095686	-.063650	.424106	-.319911
22-30	.128495	-.280052	.072520	-.116532	.344261	-.444167

RUN NO. 41 16M 10-16-61 2045-2145 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20429 10E 00	0.13549 10E 00	0.69242 10E-01	0.84407 10E-01	0.43137 10E-01	0.28609 10E-01
1	-.001712	.048540	.118854	-.035186	.074443	-.143822
2	-.018772	.073787	.075726	-.061288	.054436	-.096072
3	.047188	.006126	.086469	.039655	-.017843	-.086982
4	.037174	.002223	.064062	.013517	.035278	-.011970
5	.047438	.003638	.010651	.015034	.008727	-.002264
6	.037663	.069049	.001636	.028916	-.002816	-.060830
7	-.000961	.060747	.021950	-.011165	.032057	-.084455
8	-.051248	.015186	.002690	.012690	.029449	-.027705
9	-.026346	-.040992	-.021013	.016410	-.007906	.033186
10	-.006945	-.007919	-.083415	.022601	-.011502	.075939
11	.012471	-.038626	-.044342	.013236	.075738	.036479
12	-.020837	-.011423	.005396	-.033404	.048115	.006649
13	-.039752	.005923	.075011	-.061930	-.031984	-.052323
14	.018938	-.011279	.035651	-.004529	-.055786	.000442
15	.034123	.018030	-.047684	-.044642	-.062714	.083262
16	-.018358	.028743	-.058574	.024205	.010703	.081059
17	.003345	.005927	-.012595	.021337	.021106	.044923
18	-.011145	.045492	.032062	-.003878	-.011413	-.007558
19	.015534	-.017144	.051266	.007006	.002731	-.005228
20	-.008683	-.027522	.032254	-.013158	.016798	-.044887
21	.023962	-.014511	.028305	.007053	-.023351	-.032052
22	.051240	-.059123	.028178	.015327	.034973	.017058
23	-.081002	-.038900	-.001723	-.024270	-.000373	.091706
24	-.045605	-.058835	.015733	.058315	-.021365	.039682
25	.009771	-.001666	-.057260	.012718	-.034088	-.049380
26	-.015462	.069404	-.081736	-.046652	-.023419	-.063304
27	.027406	.065783	-.052494	-.008749	.004555	-.071932
28	-.035870	.047785	-.040213	.021828	.055740	-.037955
29	.018350	-.030828	.007869	-.005901	.015322	-.011095
30	-.028778	.001742	.000455	-.017198	-.000813	.026042

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-03	10E-03
1	.010724	.079965	.039395	-.028790	.300051	-.040482
2	.057726	.115976	.042032	.195675	.392541	-.385495
3	.142520	.128630	.103166	.511213	.413884	-.708261
4	.239180	.179390	.159247	.231476	.173616	-.628256
5	.195587	.143261	.141798	-.464955	-.039426	-.413452
6	.081926	-.040138	.141864	-.693796	.213927	-.359268
7	-.037606	-.048745	.084099	-.285966	.525705	-.289944
8	-.156753	.022361	.003506	.034379	.334326	-.001519
9-11	-.175694	.156286	.107154	-.853568	.221845	-.691566
12-14	.063055	.111136	-.018326	-.350314	.226481	-.143217
15-21	-.028094	-.004933	.048795	-.214121	.281236	-.121595
22-30	.100383	-.068909	.029028	.532550	-.144106	-.172505

RUN NO. 41 16M 10-16-61 2045-2145 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.32792 10E 00	0.12727 10E 00	0.55979 10E-01	0.14621 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.430570	.145281	.111811	.437826
2	.128323	-.004797	-.031486	.116515
3	.008195	-.064995	-.094255	-.007655
4	.024065	-.057030	-.026297	.011052
5	.024417	-.023576	-.049432	.024701
6	-.111215	-.044693	-.043535	-.038687
7	-.228123	-.102243	-.046772	-.125129
8	-.281381	-.143961	-.044330	-.174847
9	-.250764	-.204168	-.111593	-.203338
10	-.173108	-.047384	-.081938	-.110760
11	-.100459	-.040932	.033570	-.133064
12	-.116738	-.078572	-.020284	-.142678
13	-.151794	-.099823	-.024405	-.152641
14	-.104029	.022146	-.122316	-.184346
15	-.048657	.075757	-.122910	-.115377
16	.082623	.084886	.041178	-.084873
17	.150273	.038603	-.006786	-.011475
18	.141802	.018266	.085107	.048768
19	.088285	-.013972	.105246	.053611
20	.020428	.051298	-.124078	.038323
21	-.033346	.045260	-.041662	.001881
22	.011379	.024494	-.005099	-.041190
23	-.039674	-.104912	-.056204	.014453
24	-.033599	-.072077	.059781	.003724
25	-.037705	.070923	.018440	.044024
26	.032989	-.022470	.138955	.063602
27	.040490	.029657	.039140	-.009919
28	.055690	-.030251	.019029	.046994
29	.106022	.049669	.030616	.081353
30	.064116	.057625	.150453	.131378

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.009916	.011916	.011092	.005198
1	.149711	.234969	.150981	.098291
2	.282707	.507991	.228581	.148743
3	.438489	.916154	.286919	.167929
4	.365673	.912552	.264513	.113679
5	.185230	.564840	.232854	.075138
6	.142816	.419401	.263082	.078225
7	.138841	.484267	.269289	.071213
8	.076804	.544936	.182330	.051248
9-11	.167670	.643685	.300106	.079912
12-14	.140433	.507316	.211314	.060031
15-21	.075210	.476288	.222725	.034196
22-30	.082737	.623958	.288702	.034786

RUN NO. 41 40M 10-16-61 2045-2145 EST

GROSS STATISTICS

CLEAR	WIND SPEED	6.61 M/SEC	WIND DIRECTION	286 DEG
STABLE	SIGMA A	6.4 DEG	SOLAR RADIATION	0
LAND	SIGMA E	4.0 DEG	NET RADIATION	-0.16

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
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VARIANCES

U	0.63780E 00	0.58697E 00	0.39197E-00	0.40584E-00
V	0.52501E 00	0.38886E-00	0.34814E-00	0.17679E-00
W	0.21237E-00	0.21142E-00	0.20136E-00	0.66094E-01
T	0.39338E-01	0.22380E-01	0.16711E-01	0.13906E-01
E	0.68759E 00	0.59364E 00	0.47074E-00	

GUSTINESS RATIOS

U	0.12082	0.11591	0.09472	0.09638
V	0.10962	0.09434	0.08926	0.06361
W	0.06972	0.06956	0.06789	0.03889

COVARIANCES

U,V	-0.19690E-01	0.34565E-01	0.54750E-01	0.18148E-01
U,W	-0.12298E-00	-0.12658E-00	-0.10306E-00	-0.74394E-01
U,T	0.98046E-01	0.77285E-01	0.44992E-01	0.60629E-01
V,W	-0.54503E-01	-0.36814E-01	-0.41670E-01	-0.95409E-02
V,T	-0.35005E-01	0.56518E-02	0.11348E-01	0.10226E-02
W,T	-0.28091E-01	-0.31413E-01	-0.27794E-01	-0.15819E-01
WE	0.12563E-01	0.82207E-02	0.77488E-02	

NORMALIZED COVARIANCES

U,V	-0.03403	0.07235	0.14821	0.06775
U,W	-0.33416	-0.35933	-0.36684	-0.45423
U,T	0.61899	0.67431	0.55590	0.80705
V,W	-0.16323	-0.12839	-0.15738	-0.08826
V,T	-0.24358	0.06059	0.14878	0.02062
W,T	-0.30733	-0.45667	-0.47913	-0.52179

RUN NO. 41 40M 10-16-61 2045-2145 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.36946 10E 00	0.28097 10E 00	0.80948 10E-01	0.26485 10E 00	0.76304 10E-01	0.58027 10E-01
0	.148150	-.368868	.555906	-.157556	.148725	-.479264
1	.145610	-.324244	.519354	-.126527	.133458	-.390598
2	.135863	-.242839	.445604	-.083655	.108597	-.262043
3	.107166	-.166418	.365317	-.043695	.081499	-.168444
4	.065113	-.107340	.288670	-.018070	.050515	-.098321
5	.027231	-.068846	.227759	-.003520	.015806	-.047503
6	.007756	-.044454	.172383	-.014908	-.007474	-.020857
7	-.000339	-.020014	.117894	.020923	-.021941	-.011501
8	-.009020	-.000676	.071838	.006965	-.030965	.005742
9	-.025839	.011842	.032995	-.000322	-.043718	.019343
10	-.044338	.024353	-.007083	.020330	-.051642	.029126
11	-.054697	.035142	-.044149	.027393	-.047766	.044098
12	-.044158	.050844	-.069843	.024925	-.046052	.060544
13	-.031746	.056692	-.080974	.017845	-.039024	.071445
14	-.025209	.053910	-.095055	.016563	-.030475	.079184
15	-.019938	.061646	-.109443	.014357	-.024280	.078800
16	-.018701	.071474	-.123279	.011953	-.018862	.069723
17	-.026284	.078869	-.139552	.006193	-.017056	.073532
18	-.039787	.085308	-.150831	.008688	-.025707	.088855
19	-.056012	.099164	-.161811	.025707	-.042742	.107005
20	-.075806	.106117	-.170988	.046508	-.052218	.124828
21	-.096425	.098290	-.167189	.057825	-.056661	.126387
22	-.105886	.080281	-.158862	.061956	-.061289	.115540
23	-.100069	.058026	-.151681	.046282	-.054372	.093377
24	-.087255	.040140	-.144541	.016387	-.038588	.068741
25	-.075764	.038448	-.139377	.011120	-.034631	.052772
26	-.064432	.050376	-.138387	.006684	-.029231	.043760
27	-.045652	.060790	-.134026	.002489	-.021565	.041444
28	-.020442	.061331	-.128156	.001323	-.007577	.043825
29	-.001651	.054210	-.116867	-.000128	.002364	.045729
30	.014932	.038826	-.095619	-.005267	.015705	.036631
31	.030075	.022151	-.075354	.000342	.018472	.018428
32	.038761	.013545	-.060995	.011308	.012644	.004263
33	.035960	.002949	-.051314	.017523	.014142	-.012581
34	.035006	.005738	-.045328	.022707	.011400	-.011069
35	.036742	.009672	-.039896	.019699	.008169	.006309
36	.041665	.009038	-.034818	.015103	.008861	.014760
37	.045186	.005555	-.029521	.000470	.021058	.008999
38	.042544	.016646	-.030049	-.006817	.031735	-.004942
39	.040551	.016628	-.029843	-.022731	.034825	-.010393
40	.032973	.005552	-.027147	-.033211	.026814	-.020936
41	.024880	-.009494	-.026528	-.025262	.019668	-.024970
42	.022410	-.019123	-.024330	-.016309	.013459	-.027668
43	.020779	-.020842	-.016534	-.010914	.009146	-.022602
44	.013621	-.006454	-.012107	-.011085	.005575	-.022881
45	.012888	.001524	-.008823	-.012504	.007138	-.030358
46	.012344	-.004186	.000443	-.004980	.011770	-.029882
47	.016376	-.014058	.007369	.007883	.019592	-.026652
48	.027566	-.016150	.008386	.017659	.024688	-.019137
49	.031949	-.009731	.010386	.010666	.030475	-.021001
50	.042498	-.001876	.016672	-.009824	.034443	-.020741
51	.050948	.004506	.024642	-.017118	.033338	-.004145
52	.048971	.002864	.031812	-.010999	.032044	.008249
53	.041724	.001158	.044225	-.011500	.027866	.007972
54	.033855	-.010395	.057391	-.027505	.027190	.002569
55	.024957	-.014285	.069198	-.041529	.031761	-.004261
56	.009568	-.018961	.076317	-.050191	.038361	-.022990
57	-.004781	-.025909	.075738	-.046824	.040119	-.035030
58	-.011392	-.033074	.071557	-.034215	.034895	-.025930
59	-.015747	-.039877	.068186	-.031723	.028381	-.018996
60	-.017069	-.041350	.068746	-.032693	.020463	-.020050

RUN NO. 41 40M 10-16-61 2045-2145 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.36946 10E 00	0.28097 10E 00	0.80948 10E-01	0.26485 10E 00	0.76304 10E-01	0.58027 10E-01
1	.010726	-.019296	.020894	-.009746	.016001	.006962
2	.012320	-.021985	.036337	-.022783	.022301	-.003203
3	.017097	-.020544	.048518	-.031550	.022023	-.007553
4	.030836	-.020206	.058286	-.042072	.023229	-.007936
5	.035593	-.015482	.063630	-.047591	.029294	-.011838
6	.032795	-.010544	.065760	-.044307	.030241	-.009328
7	.030550	-.006794	.072831	-.049267	.035106	-.019121
8	.025823	-.005654	.081730	-.052078	.036699	-.030234
9	.021359	-.012890	.089153	-.054923	.037861	-.037227
10	.010752	-.009409	.088570	-.053863	.042786	-.044370
11	-.000758	-.007143	.087129	-.063489	.052393	-.045137
12	-.004454	-.009508	.087145	-.055463	.048251	-.041374
13	-.001790	-.012326	.083789	-.038769	.035833	-.028860
14	.010025	-.012039	.077429	-.021290	.018436	-.007698
15	.017050	-.015728	.075991	-.006387	.007384	.014150
16	.018287	-.009611	.066624	.000419	.003713	.014534
17	.015740	-.000327	.051424	-.012393	.006821	.005139
18	.007457	.000581	.040271	-.034204	.003786	.008778
19	.001722	.001422	.031665	-.046723	-.001830	.001908
20	-.005851	.007245	.023247	-.045890	-.005213	-.007232
21	-.010541	.018396	.009578	-.031539	-.006875	-.011270
22	-.012369	.027204	-.003285	-.010373	-.014153	-.010559
23	-.012499	.027496	-.010359	.002653	-.016925	-.009888
24	-.010600	.028723	-.015633	.001588	-.019035	-.004228
25	-.011047	.029089	-.024176	-.002647	-.021618	-.001826
26	-.007514	.022205	-.032868	-.005977	-.019537	-.007728
27	-.004535	.017868	-.042063	-.006895	-.015184	-.003330
28	-.000351	.016644	-.055753	-.005620	-.014190	.000204
29	-.000141	.018296	-.067403	.004529	-.016538	.004353
30	.003085	.012924	-.073127	.009520	-.023765	.008656
31	.005484	.000941	-.066990	.009915	-.030115	.017159
32	.001160	-.008776	-.060706	.009416	-.030722	.016887
33	-.005774	-.010760	-.057273	.010767	-.031094	.017946
34	-.011256	-.012671	-.049297	.014883	-.027354	.022088
35	-.007342	-.008234	-.045303	.035466	-.026360	.020114
36	.003231	-.000245	-.047144	.042798	-.026372	.018369
37	.010276	-.003322	-.047222	.037906	-.029013	.025089
38	.011223	-.022032	-.044461	.033326	-.023793	.037916
39	.009706	-.035830	-.042058	.023140	-.017297	.038223
40	.005861	-.035638	-.039679	.017666	-.007672	.027896
41	.006999	-.032064	-.040112	.009415	-.004708	.024550
42	.010459	-.028187	-.033932	.009335	-.007733	.023677
43	.011608	-.021724	-.022319	.009452	-.014480	.018650
44	.012804	-.014547	-.014389	.011269	-.012996	.014699
45	.010748	-.009213	-.005438	.000056	-.007072	.012074
46	.003316	-.009816	.005226	-.003769	.002961	.003098
47	-.000477	-.013402	.012352	-.008503	.007513	-.001189
48	-.000330	-.011736	.010881	-.010403	.009339	-.001568
49	.003120	-.013468	.008173	-.007095	.014924	-.001115
50	.003882	-.010683	.008864	-.006895	.023404	.003303
51	-.002108	-.006196	.010340	-.019713	.026841	.001905
52	-.008448	.003374	.018516	-.026733	.028184	-.006449
53	-.013884	.003360	.029376	-.033750	.035992	-.003925
54	-.023361	-.002720	.040640	-.035233	.036235	-.004158
55	-.026902	.003878	.044997	-.024480	.033947	-.010034
56	-.018233	.003537	.046059	-.015524	.029884	-.003725
57	-.002689	-.005853	.051840	-.017551	.025278	-.000610
58	.004644	-.010338	.053939	-.018874	.019981	-.004693
59	.000258	-.006221	.053905	-.009270	.011402	-.019084
60	-.004803	-.000179	.049309	.000698	.000002	-.027610

RUN NO. 41 40M 10-16-61 2045-2145 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.39195 10E 00	0.34826 10E 00	0.20141 10E 00	0.16718 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.849632	.749733	.646421	.802553
2	.654707	.480546	.300032	.588414
3	.502435	.296967	.125251	.434247
4	.385325	.181603	.041158	.316367
5	.300134	.103792	-.018210	.217041
6	.232253	.035681	-.055117	.144570
7	.157914	-.018962	-.049663	.089093
8	.086075	-.049363	-.038664	.045982
9	.030471	-.068350	-.039008	.010686
10	-.017221	-.088537	-.042831	-.027477
11	-.056966	-.102627	-.032764	-.070058
12	-.087742	-.121327	-.044165	-.113777
13	-.122175	-.117359	-.074521	-.145822
14	-.154558	-.111176	-.092362	-.164795
15	-.174210	-.093161	-.095346	-.161009
16	-.183774	-.093786	-.088878	-.165018
17	-.192148	-.101569	-.073263	-.184823
18	-.203314	-.122762	-.070828	-.207623
19	-.218092	-.137492	-.097591	-.220894
20	-.238734	-.148032	-.132305	-.226428
21	-.253098	-.142963	-.140891	-.218028
22	-.251504	-.143955	-.138684	-.203577
23	-.241770	-.151758	-.115791	-.185496
24	-.240447	-.157294	-.107345	-.177761
25	-.243904	-.165559	-.107571	-.182068
26	-.245940	-.159868	-.081143	-.178613
27	-.237367	-.144073	-.068923	-.164575
28	-.217548	-.134804	-.074462	-.154827
29	-.183772	-.117580	-.073461	-.147717
30	-.141150	-.081558	-.061509	-.128580
31	-.102755	-.067430	-.030459	-.095330
32	-.075355	-.049417	-.007391	-.064522
33	-.054390	-.030873	.010498	-.049472
34	-.046019	-.023271	.016797	-.041324
35	-.051117	-.006029	.010523	-.045172
36	-.062460	.010808	.002763	-.038793
37	-.070151	.022794	-.013876	-.019316
38	-.068812	.036274	-.013876	-.003845
39	-.062325	.026642	.006593	.007043
40	-.046498	.033004	.038537	.016910
41	-.032922	.045425	.043623	.027020
42	-.023909	.049219	.026673	.033270
43	-.018803	.046661	.016905	.024110
44	-.011016	.037658	.039483	.025953
45	-.003173	.022848	.066704	.032866
46	.007578	.007355	.065562	.042640
47	.017325	-.009411	.059155	.043646
48	.023220	-.005937	.049898	.042535
49	.029158	.014412	.045914	.049003
50	.042241	.028376	.024163	.046222
51	.053309	.045688	-.007331	.040925
52	.066553	.058441	-.026177	.037506
53	.079764	.067247	-.031481	.041211
54	.086933	.061153	-.023733	.037230
55	.096609	.043666	-.010144	.040678
56	.110251	.014502	.010737	.052371
57	.114842	-.017697	.028912	.063312
58	.110220	-.037046	.026831	.051078
59	.099771	-.038138	.028093	.038800
60	.091038	-.023617	.013359	.027508

RUN NO. 41 40M 10-16-61 2045-2145 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
0	-.003420	-.007191	.070150	.005675	-.009813	-.012128
1	.015719	-.096937	.723768	-.170070	.007359	-.185182
2	.087121	-.138766	.889482	-.379051	.117128	-.303966
3	.142087	-.160586	.888510	-.496840	.205351	-.383234
4	.089062	-.121995	.593407	-.375713	.166022	-.291194
5	.024605	-.081812	.352023	-.266894	.103522	-.189649
6	.034939	-.060835	.249199	-.238603	.100778	-.145081
7-8	.069559	-.051084	.183430	-.298771	.120469	-.147178
9-11	.007603	-.041630	.093544	-.167953	.030807	-.108524
12-15	.009706	-.021973	.047271	-.176623	.018951	-.083565
16-20	.000694	-.011715	.026506	-.045786	.003073	-.034816
21-27	-.006777	-.005741	.011637	-.034429	-.000946	-.022430
28-36	-.000191	-.001562	.001269	-.012223	.006200	-.016505
37-47	.000349	-.001074	.004136	-.012802	.000874	-.006874
48-60	.000264	-.000257	.000457	-.009667	.000515	-.003609

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-02	10E-03
1	.142811	.010848	.085939	-.388375	-.003281	-.118560
2	.156164	.009621	.252079	-.497968	.078531	-.523794
3	.266545	-.195442	.308457	-.460661	.127180	-.505205
4	.277432	-.246711	.136260	-.207754	.077020	-.217221
5	.159551	-.030354	.018721	-.171953	.038743	-.284540
6	.116135	.053501	.002223	-.169004	.016862	-.207825
7-8	.125522	-.044242	.009205	-.049311	-.010430	.205686
9-11	.077843	-.077041	.010552	.064966	-.002003	.215389
12-15	-.073216	-.040900	.006717	-.085661	.016662	-.138720
16-20	.018758	-.027479	.005273	.040925	-.003382	.057674
21-27	-.007786	-.004662	-.002241	.002705	.007140	.036127
28-36	.018795	-.012699	.001808	-.005985	.002154	.018132
37-47	.008313	-.007330	-.000071	.008408	-.000917	.025695
48-60	.000674	-.000625	.000439	-.000301	.001098	-.003821

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-02
0	.043833	.017628	.005240	.015463
1	.511911	.230827	.080782	.168971
2	.650058	.345049	.133764	.230474
3	.647678	.398818	.165198	.250395
4	.425509	.287057	.122647	.173157
5	.257528	.219206	.092410	.115231
6	.203585	.233058	.092182	.092328
7-8	.174113	.199776	.102035	.071116
9-11	.093621	.121454	.085606	.050726
12-15	.067097	.086291	.070783	.035634
16-20	.045271	.056066	.041702	.017374
21-27	.026186	.042899	.033630	.014680
28-36	.013982	.023533	.024471	.009494
37-47	.010589	.016443	.013605	.006343
48-60	.006017	.011541	.009535	.004362

RUN NO. 41 40M 10-16-61 2045-2145 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.26782 10E 00	0.16374 10E 00	0.75081 10E-01	0.10813 10E 00	0.49582 10E-01	0.30313 10E-01
0	.067760	-.454345	.807518	-.088235	.020624	-.521851
1	-.055823	-.149990	.460865	-.018312	-.089897	-.125559
2	-.081232	-.006294	.179457	.022169	-.071473	.013443
3	-.007411	.026169	.060022	.049698	-.008767	-.011412
4	.045650	.053007	-.039606	.007934	.041152	.021660
5	.039189	.059296	-.079099	.005292	.036245	.035685
6	-.004798	.032452	-.122588	-.075728	.042274	.039220
7	-.023546	.100066	-.208392	.061053	-.030890	.129356
8	.008239	.082841	-.240165	.022774	.000841	.051419
9	.042741	.094765	-.229886	-.073937	.026882	.100750
10	.084574	.069002	-.150283	-.115785	.114208	.049000
11	.064131	.020321	-.121060	-.014089	.059184	.039772
12	.027027	-.007428	-.138552	.046631	.074219	-.001019
13	-.003183	-.039385	-.123772	.032592	-.007409	-.023445
14	.003937	-.021751	-.044928	-.005544	-.031516	-.010390
15	-.025243	-.035246	.024887	.055994	-.052144	.000060
16	-.094076	-.032463	.032079	.080249	-.139283	-.026236
17	-.064868	-.023305	.052761	-.002602	-.092537	-.000707
18	-.034792	-.047962	.062661	.031405	.010647	-.056933
19	.020186	-.011507	.027658	.015270	.042584	-.011194
20	-.061217	-.004956	.018266	.088167	.019867	.017219
21	.051765	.018829	.004570	-.048307	.065487	.010550
22	.003822	.063609	-.012650	-.071804	.031520	.024137
23	-.066805	.066018	-.010340	.054680	-.114170	.106795
24	-.038566	.003746	.040389	.008911	-.051341	.029811
25	-.015747	.010164	.085554	-.022081	-.010445	.003001
26	.011564	.015074	.066988	.012427	.022459	.017945
27	-.003683	.038734	.003675	.025844	-.015094	.042292
28	.044280	-.000678	.026841	-.037108	.100038	.011526
29	.052492	-.025753	.096414	-.011179	.082119	-.032607
30	.052440	-.033722	.067834	-.050338	.015278	-.084255

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-02	10E-02
0	.009422	-.001232	.004237	.000572	-.000247	-.002080
1	.137683	-.121424	.296103	-.078808	.006877	-.044026
2	-.103561	-.273429	.620394	-.046311	-.030432	-.069478
3	-.474340	-.646640	.933925	.079461	-.104667	-.125591
4	-.361748	-.834830	.825466	.093234	-.108918	-.146469
5	.081093	-.574981	.508121	-.068199	-.007444	-.100152
6	.177626	-.358554	.342104	-.156979	.041991	-.066971
7	-.204412	-.319858	.324533	-.102712	-.071392	-.052979
8	-.328344	-.327450	.248649	-.027790	-.111555	-.046811
9-11	.036550	-.426835	.253040	-.064544	.015445	-.070933
12-14	.425400	-.280899	.180915	-.167716	.055043	-.073414
15-21	.206679	-.251224	.121652	-.002078	.032180	-.063394
22-30	.145434	-.206496	.082331	-.015484	.028873	-.055464

RUN NO. 41 4PM 10-16-61 2045-2145 EST
 301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.26782 10E 00	0.16374 10E 00	0.75081 10E-01	0.10813 10E 00	0.49582 10E-01	0.30313 10E-01
1	.018050	.005369	-.061032	-.122098	.038306	-.048885
2	-.008660	.035701	.021674	-.101365	-.000371	-.033004
3	.005047	.011869	-.012874	-.074224	-.008849	.002651
4	-.003609	-.002941	-.016205	-.050156	.020323	-.004862
5	-.012179	.010959	.024157	-.017749	.056030	-.027290
6	-.053638	.059913	.037036	-.020747	.081204	-.069666
7	-.016582	.102404	.014532	.065307	.071983	-.095100
8	-.003759	.045356	-.046766	-.019562	.016506	-.001951
9	-.040857	.054859	-.061649	-.039537	.050031	-.028093
10	-.010183	-.031277	.002934	-.103944	.036016	-.007720
11	.051025	-.049049	.066671	-.048583	-.026965	-.020744
12	.053785	-.050171	.051035	.025220	-.059097	.016559
13	.072293	-.060886	-.002897	.096278	-.095211	.072046
14	.059143	-.062318	-.022746	.081361	-.068729	.070893
15	.006266	-.082078	.011092	.017344	.001049	.069469
16	-.070876	-.014969	.020432	.047953	.053122	.007682
17	-.110261	.043219	.033458	.001282	.114456	-.075885
18	-.129583	.033530	-.004296	-.033332	.091479	-.027921
19	-.084573	.045550	-.025076	-.078870	.062105	-.024384
20	.036014	.006791	-.002503	-.010055	.018226	.016128
21	.034038	.001547	.010621	.063986	-.046848	.025027
22	.020164	-.010215	.007373	.081802	.002652	.026478
23	.054561	-.023913	.008335	.054694	-.041092	.043214
24	.060640	-.020890	-.000475	.009500	-.106006	.035164
25	.048544	.006352	.012792	-.039394	-.066427	-.029544
26	.071669	-.012498	.023970	-.015320	-.085685	-.019876
27	.047296	.024210	-.004274	-.034553	-.065367	-.037251
28	-.041959	.035559	-.016338	.027710	-.006235	-.017792
29	-.026921	.031229	-.024015	.017860	-.016054	-.008934
30	.005941	-.035110	-.027594	.023001	-.019739	.086427

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-02	10E-03
1	-.137139	.012598	.048923	-.065598	.073859	-.185852
2	-.008896	.156093	.013201	-.162372	.057205	-.388375
3	-.107149	.340865	-.003726	-.216993	.072628	-.548583
4	-.436162	.252142	.012774	-.164126	.100601	-.366042
5	.053155	-.141614	.048601	-.066012	-.023599	.153705
6	.583210	-.310807	.055504	-.115443	-.118930	.401075
7	.100722	-.074240	.026117	-.358599	-.027455	-.043198
8	-.268035	.083119	-.016694	-.325237	.040794	-.206817
9-11	.069472	.146617	.006919	-.007413	-.008554	-.130136
12-14	-.061599	-.008141	.103094	-.132260	.048254	-.285011
15-21	.068095	-.034782	.017746	-.031565	.015099	-.048111
22-30	.070152	-.014364	.012631	-.010333	.005172	-.010854

RUN NO. 41 40M 10-16-61 2045-2145 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.40555 10E 00	0.17687 10E 00	0.66107 10E-01	0.13900 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.508508	.158001	.079272	.467865
2	.177904	-.050049	-.071581	.148679
3	.039480	-.044009	-.082877	.032660
4	-.074917	-.074312	-.119750	-.042030
5	-.088118	-.072956	-.062254	-.085832
6	-.128448	-.078113	-.035443	-.133837
7	-.196960	-.066707	-.162399	-.226783
8	-.285799	-.057217	.084432	-.222728
9	-.257003	.066808	-.032420	-.219276
10	-.151243	-.093368	.046190	-.093216
11	-.131576	-.140739	-.001165	-.128165
12	-.158029	-.183843	-.057293	-.153509
13	-.128421	-.084098	-.040435	-.133282
14	-.042252	-.032997	-.088608	-.032924
15	.013474	.012352	-.034820	.010371
16	.070305	.041940	.100062	.007046
17	.074648	.016114	-.030335	.012597
18	.030152	.056736	.027836	.083377
19	.045957	.080722	.020020	.000945
20	.030795	-.121381	-.014240	.006520
21	-.009392	-.054929	.016001	-.012516
22	-.036313	.018046	.001301	.007530
23	-.015172	.081595	-.140640	-.064604
24	.049883	.018622	-.032877	.025764
25	.094322	.010695	-.021336	.089002
26	.090992	-.064938	.003958	.052766
27	.000036	-.117948	-.009801	-.016906
28	-.015552	-.026975	.001358	.055683
29	.086500	-.148922	-.016706	.082799
30	.096376	.033653	.049843	.087064

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.004287	.004857	.012560	.001522
1	.178243	.053814	.132298	.064623
2	.365385	.077741	.163516	.120555
3	.555811	.100742	.235916	.173219
4	.501431	.079417	.271888	.156830
5	.314150	.057868	.291649	.106416
6	.219543	.083535	.390057	.080667
7	.222468	.131146	.411396	.075212
8	.182446	.120497	.305578	.057033
9-11	.187521	.054554	.271121	.056158
12-14	.121595	.090357	.313437	.053242
15-21	.090863	.072547	.264239	.033635
22-30	.075387	.076580	.355501	.029397

RUN NO. 41 16M 10-16-61 2045-2145 EST
 RUN NO. 41 40M 10-16-61 2045-2145 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

CONFIDENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.696518	.407589	.300497	.729278
1	.362272	.498992	.286389	.570575
2	.213386	.416396	.241034	.550573
3	.213331	.345297	.277915	.537713
4	.270937	.341756	.363561	.447392
5	.178409	.412965	.448048	.327636
6	.052933	.471288	.384122	.414790
7-8	.081987	.351933	.316363	.370373
9-11	.169356	.142292	.159940	.168989
12-15	.166204	.200122	.125478	.241588
16-20	.138632	.152505	.150622	.087775
21-27	.162617	.156039	.110781	.077395
28-36	.088159	.126106	.099770	.066727
37-47	.097427	.184296	.114253	.130720
48-60	.107611	.091019	.092381	.086086

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

CONFIDENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.943825	.339391	.665884	.671916
1	.865025	.600758	.558609	.852891
2	.840782	.505865	.510747	.851127
3	.807599	.345254	.472435	.800580
4	.752991	.281578	.560222	.741901
5	.611553	.484216	.392080	.651430
6	.603113	.627525	.400499	.741854
7	.575007	.578413	.288407	.583365
8	.524826	.453621	.130260	.434313
9-11	.430474	.529829	.399487	.630569
12-14	.243979	.414494	.517196	.691229
15-21	.389203	.342121	.387962	.544546
22-30	.198914	.214613	.430965	.434237

RUN NO. 43 16M 10-17-61 1040-1146 EST

GROSS STATISTICS

S C1 WIND SPEED 6.85 M/SEC WIND DIRECTION 218 DEG
 NEUTRAL/UNSTABLE SIGMA A 8.1 DEG SOLAR RADIATION 0.96
 WATER-LAND SIGMA E 4.1 DEG NET RADIATION 0.58

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.30678E 01	0.10246E 01	0.55222E 00	0.78655E 00
V	0.80684E 00	0.63810E 00	0.36936E-00	0.45676E-00
W	0.20742E-00	0.20216E-00	0.17772E-00	0.94661E-01
T	0.16337E-00	0.28312E-01	0.15041E-01	0.21938E-01
E	0.20410E 01	0.93292E 00	0.54966E 00	

GUSTINESS RATIOS

U	0.25570	0.14777	0.10848	0.12947
V	0.13113	0.11661	0.08872	0.09866
W	0.06649	0.06564	0.06154	0.04492

COVARIANCES

U,V	0.27388E-00	0.42538E-01	0.57345E-01	0.13361E-01
U,W	-0.10988E-00	-0.11040E-00	-0.80452E-01	-0.74763E-01
U,T	0.37256E-00	-0.81956E-01	-0.36291E-01	-0.69490E-01
V,W	-0.41390E-01	-0.45983E-01	-0.48286E-01	-0.27076E-01
V,T	0.93501E-01	-0.13217E-01	-0.15028E-01	-0.81097E-02
W,T	0.34344E-01	0.29842E-01	0.19282E-01	0.22579E-01
WE	-0.53216E-01	0.11629E-01	0.26681E-01	

NORMALIZED COVARIANCES

U,V	0.17408	0.05261	0.12697	0.02229
U,W	-0.13775	-0.24259	-0.25681	-0.27399
U,T	0.52627	-0.48120	-0.39820	-0.52900
V,W	-0.10118	-0.12803	-0.18846	-0.13021
V,T	0.25754	-0.09833	-0.20162	-0.08101
W,T	0.18657	0.39445	0.37294	0.49547

RUN NO. 43 16M 10-17-61 1040-1146 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.45164 10E 00	0.31328 10E 00	0.91137 10E-01	0.25622 10E 00	0.74538 10E-01	0.51703 10E-01
0	.127084	-.256583	-.398070	-.188403	-.201665	.372469
1	.104462	-.211537	-.364318	-.167822	-.173630	.329241
2	.074015	-.145937	-.308547	-.136163	-.135365	.261252
3	.053753	-.102932	-.265084	-.110548	-.110283	.205498
4	.043662	-.090282	-.228742	-.093269	-.088526	.166029
5	.034008	-.077724	-.196967	-.081974	-.074719	.138966
6	.026176	-.063809	-.170105	-.064640	-.062025	.115274
7	.018441	-.056634	-.143546	-.037709	-.047443	.101351
8	.014212	-.047709	-.114195	-.012143	-.035271	.080384
9	.012552	-.033325	-.084671	.011032	-.025460	.060948
10	.006002	-.020302	-.053288	.019743	-.014363	.042913
11	-.000017	-.000051	-.017515	.018971	-.002841	.021078
12	.004676	.016100	.014985	.018123	.005183	-.009631
13	.000359	.030354	.042193	.025973	.013194	-.036587
14	-.003199	.038657	.062092	.037223	.032019	-.046838
15	-.000997	.040820	.077012	.049279	.036663	-.058952
16	.005365	.040819	.086167	.050847	.040220	-.068161
17	.002702	.039474	.095125	.045365	.043962	-.071567
18	-.003579	.047530	.107649	.043103	.049657	-.073990
19	-.014140	.054336	.119064	.043076	.057196	-.093489
20	-.024111	.053898	.120570	.047659	.067818	-.102848
21	-.035308	.050622	.121800	.056127	.074836	-.108688
22	-.042673	.047773	.123968	.066327	.078463	-.108144
23	-.044074	.048990	.123385	.071366	.079008	-.092193
24	-.043511	.051529	.123426	.074573	.078803	-.086916
25	-.041272	.055071	.125052	.072883	.075502	-.093255
26	-.041918	.060030	.125192	.065668	.066118	-.104407
27	-.044801	.061950	.124102	.059966	.062151	-.114866
28	-.049817	.054641	.116077	.058899	.061039	-.109081
29	-.048335	.047960	.111083	.061424	.057717	-.096238
30	-.038934	.039178	.103995	.060033	.052750	-.083943
31	-.024208	.036013	.093958	.047175	.043981	-.076651
32	-.011703	.034573	.084198	.046013	.034841	-.071699
33	-.003211	.033265	.082234	.026423	.030502	-.064764
34	.001381	.034805	.078587	.011868	.030533	-.059532
35	.008682	.034204	.073976	-.000816	.031631	-.056694
36	.015727	.033474	.067248	-.006300	.031006	-.050847
37	.019413	.020451	.054799	-.005498	.026607	-.043257
38	.028614	.006790	.037512	-.005782	.019843	-.035457
39	.029799	-.006066	.019285	-.005297	.012011	-.028430
40	.031161	-.017901	.003515	-.011258	.003905	-.019270
41	.029796	-.013056	-.003642	-.019678	.000361	-.017213
42	.023185	-.002931	-.002504	-.024198	-.002186	-.018215
43	.014782	.001244	-.005452	-.022623	-.005071	-.019895
44	.006586	.006080	-.002684	-.017926	-.010078	-.025534
45	-.001587	.013333	.001236	-.010604	-.018236	-.028179
46	-.007911	.010506	.001163	-.009569	-.026678	-.019868
47	-.016330	.010583	-.000146	-.012937	-.031087	-.010541
48	-.026631	.006670	-.005670	-.016009	-.038819	.001020
49	-.029328	.009907	-.006070	-.021798	-.045791	.007772
50	-.025215	.011854	-.008478	-.023366	-.050778	.005255
51	-.014920	.012161	-.006871	-.032881	-.048190	.000924
52	-.014077	.012539	-.004447	-.042754	-.043343	.003969
53	-.013767	.003889	-.005694	-.047076	-.039328	.018545
54	-.009514	-.004280	-.010491	-.043083	-.037210	.028187
55	-.004148	-.003903	-.013936	-.036173	-.042587	.026045
56	.006754	-.004108	-.019087	-.029907	-.046253	.026222
57	.011417	-.005166	-.022030	-.030320	-.049882	.028091
58	.010934	-.004678	-.020800	-.037778	-.050120	.031792
59	.004620	-.002257	-.012650	-.042020	-.046509	.035983
60	-.009844	-.001704	-.007528	-.034028	-.035308	.042644

RUN NO. 43 16M 10-17-61 1040-1146 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.45164 10E 00	0.31328 10E 00	0.91137 10E-01	0.25622 10E 00	0.74538 10E-01	0.51703 10E-01
1	.033162	-.082544	-.043088	-.001180	-.003419	-.010872
2	.062541	-.131802	-.075797	-.011467	-.003187	-.012087
3	.084489	-.146776	-.094644	-.018194	-.003650	-.013233
4	.095804	-.146770	-.100026	-.021168	-.000488	-.015458
5	.098569	-.147229	-.102932	-.013577	.004129	-.020025
6	.105400	-.144154	-.108697	-.006220	.007729	-.027178
7	.113872	-.141380	-.115368	.003817	.014732	-.030620
8	.120668	-.141353	-.118658	-.003499	.022948	-.032692
9	.122639	-.139138	-.122809	-.011121	.028921	-.037604
10	.122015	-.136232	-.128804	-.003986	.030739	-.047960
11	.119974	-.142105	-.134158	.007039	.030567	-.053240
12	.119268	-.142669	-.132583	.013227	.032231	-.066395
13	.119345	-.146257	-.129158	.015612	.034992	-.072287
14	.117216	-.146302	-.126296	.028850	.033855	-.067372
15	.104057	-.144146	-.125221	.027813	.030075	-.059602
16	.089181	-.140597	-.119634	.019106	.027914	-.051872
17	.077626	-.132390	-.113164	.010842	.027761	-.049211
18	.071466	-.121405	-.101921	.015179	.028341	-.040310
19	.071001	-.107873	-.092399	.014628	.021448	-.034462
20	.069239	-.092155	-.088957	.016953	.011673	-.026335
21	.059501	-.067222	-.084136	.012296	.005310	-.026886
22	.049007	-.042089	-.070733	.011057	-.003966	-.028428
23	.039027	-.028226	-.057786	.004713	-.017347	-.026457
24	.027004	-.023180	-.051569	-.000349	-.023060	-.029915
25	.017612	-.024689	-.054985	.001016	-.028258	-.025313
26	.006604	-.022923	-.052760	-.000376	-.032619	-.023152
27	-.003649	-.008708	-.041301	-.004962	-.042617	-.022461
28	-.015274	.006525	-.032089	-.004040	-.043473	-.021995
29	-.025322	.016266	-.025065	-.005821	-.045799	-.023914
30	-.029494	.031513	-.016634	-.006132	-.041983	-.022251
31	-.031406	.039297	-.009907	-.010703	-.033420	-.014053
32	-.034005	.041415	-.001250	-.016811	-.026182	-.010419
33	-.037371	.039972	.006571	-.017259	-.016105	-.001016
34	-.038707	.045383	.010379	-.010892	-.004432	.013820
35	-.036865	.054833	.014874	.005256	.011562	.037398
36	-.034807	.058105	.016189	.014935	.026570	.051162
37	-.037532	.056496	.018337	.004756	.028064	.052429
38	-.037481	.057277	.021915	-.000551	.029982	.051333
39	-.033694	.057500	.028720	.010225	.038569	.044289
40	-.027033	.055755	.034899	.014812	.040498	.035879
41	-.026057	.049999	.043408	.011495	.033389	.030154
42	-.017332	.042277	.050418	.011336	.029693	.024410
43	-.003656	.036397	.051544	.009160	.025224	.016270
44	.001668	.034064	.051538	.006689	.022422	.005451
45	-.001957	.038764	.058901	.012002	.018924	-.002143
46	-.010156	.042553	.065090	.016058	.009502	.000538
47	-.011951	.045503	.069945	.021014	.005433	.009532
48	-.006643	.050524	.074886	.031169	.005833	.008410
49	.000416	.047296	.076364	.036539	.006736	-.000071
50	-.000401	.041865	.079347	.037913	.015496	-.005575
51	-.007704	.036956	.082449	.027893	.019293	-.000896
52	-.012989	.032421	.079958	.017094	.017540	.000521
53	-.014122	.027926	.075478	.011896	.015315	.000531
54	-.018388	.029548	.072667	.009361	.018717	.002999
55	-.022192	.038385	.067327	.007364	.016929	.006047
56	-.021707	.046138	.057545	.003848	.008729	.011694
57	-.022213	.044758	.044889	-.004897	.003611	.014564
58	-.021041	.044086	.033046	-.013891	.000362	.019589
59	-.013289	.035846	.017734	-.015911	.002572	.030411
60	-.002496	.023711	.008295	-.008824	.002391	.033400

RUN NO. 43 16M 10-17-61 1040-1146 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.55222 10E 00	0.36938 10E 00	0.17773 10E 00	0.15041 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.843359	.820814	.697021	.847087
2	.659296	.613786	.421933	.670428
3	.525105	.463856	.266266	.541749
4	.434032	.351701	.188912	.439424
5	.354537	.264025	.147902	.353042
6	.277551	.193679	.116070	.286112
7	.207883	.132215	.088484	.224427
8	.155260	.071372	.052801	.165094
9	.112531	.013404	.021475	.105025
10	.074191	-.032559	-.014758	.051793
11	.026811	-.069094	-.039802	-.003080
12	-.027747	-.100620	-.065108	-.051320
13	-.072571	-.126345	-.095631	-.091493
14	-.109755	-.144259	-.113362	-.115434
15	-.142043	-.154959	-.141856	-.137900
16	-.167726	-.171813	-.153724	-.159547
17	-.193304	-.184762	-.160941	-.181404
18	-.216661	-.188272	-.162202	-.204206
19	-.237434	-.190180	-.183402	-.230504
20	-.249012	-.188868	-.193306	-.247829
21	-.247054	-.191248	-.203783	-.255918
22	-.251160	-.178807	-.208875	-.260418
23	-.250930	-.171953	-.202660	-.251986
24	-.247945	-.163079	-.196005	-.247455
25	-.244031	-.156524	-.183917	-.250456
26	-.243467	-.156192	-.174581	-.253347
27	-.243130	-.158059	-.162760	-.251938
28	-.243490	-.150598	-.152608	-.242137
29	-.235056	-.140872	-.132338	-.237096
30	-.211678	-.133558	-.089334	-.218893
31	-.183893	-.107771	-.057172	-.185468
32	-.163951	-.080588	-.029593	-.154302
33	-.155723	-.056435	-.011890	-.142965
34	-.153314	-.037898	-.003880	-.139811
35	-.142274	-.017633	.022000	-.129052
36	-.127854	-.004839	.036801	-.116602
37	-.103113	-.002869	.021038	-.101881
38	-.080591	-.001497	.027621	-.078324
39	-.047360	.003074	.037827	-.058192
40	-.013536	.001618	.052285	-.049581
41	.007725	.007002	.057461	-.039894
42	.010467	.007926	.045620	-.025202
43	.004111	.002987	.040354	-.011109
44	.002296	.000160	.024779	-.002683
45	.008053	-.003492	.027106	.009033
46	.009900	-.003115	.038098	.020633
47	.010724	-.009201	.046994	.025814
48	.006502	-.006289	.058464	.033969
49	.001368	-.007037	.055412	.040777
50	.003595	-.010620	.039845	.038171
51	.010929	-.003314	.011773	.027376
52	.017008	.001698	-.004640	.025735
53	.024624	.008425	.000628	.028370
54	.039411	.016145	.001943	.029835
55	.058301	.016030	-.016595	.040767
56	.077567	.012751	-.018263	.053342
57	.086823	.012190	.004043	.062621
58	.088129	.013258	.002201	.066266
59	.084862	.011745	.001428	.061939
60	.083417	-.005936	-.001434	.053855

RUN NO. 43 16M 10-17-61 1040-1146 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-01	10E-02	10E-02
0	.138298	-.013488	-.084618	-.001620	-.009545	.034409
1	.860441	-.118584	-.765760	-.059097	-.221758	.353771
2	.948896	-.132292	-.855966	-.097340	-.321324	.394466
3	.910584	-.121850	-.744317	-.100094	-.289390	.336278
4	.286475	-.072508	-.398100	-.053704	-.140728	.187727
5	.048323	-.044902	-.217431	-.032524	-.073054	.106208
6	.408905	-.036789	-.140515	-.035301	-.050934	.078695
7-8	.339436	-.019231	-.062675	-.021601	-.055885	.051514
9-11	.130189	-.017867	-.048830	-.006150	-.029601	.045956
12-15	.140925	-.021236	-.052040	-.002180	-.028305	.040738
16-20	.065749	-.011659	-.022357	-.007094	-.013793	.016783
21-27	.054995	-.009392	-.015874	-.002856	-.010675	.011051
28-36	.029013	-.004881	-.008962	-.000960	-.005083	.006055
37-47	.015978	-.000523	-.003656	-.000797	-.004905	.001609
48-60	.010690	-.001398	-.001148	-.000290	-.001162	.001637

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
1	.200547	-.180433	-.591186	.132290	.035919	-.127622
2	.224297	-.211011	-.546299	.071891	.048979	-.125443
3	.198487	-.175512	-.348296	.063413	.104167	-.072204
4	.090139	-.080228	-.142738	-.078832	.057041	-.004696
5	.033612	-.036483	-.088488	-.173095	-.054188	-.005756
6	.031443	-.030980	-.049930	-.120564	-.055644	.004561
7-8	.017655	-.034141	-.037030	-.050115	.000029	.025158
9-11	.009363	-.032967	-.040225	-.004514	-.012635	-.008479
12-15	.008476	-.015197	-.024053	-.032839	-.001007	-.002827
16-20	.004723	-.008784	-.011319	.003700	.000134	-.000506
21-27	-.002009	-.004075	-.002756	.026696	-.002155	-.002935
28-36	-.000669	-.001255	.001400	-.000693	.001250	-.000715
37-47	.000534	.000143	-.000204	.001029	-.001140	-.001206
48-60	-.000304	-.000209	-.000659	.004940	-.000336	-.000072

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-02
0	.009558	.060427	.011648	.025440
1	.090912	.453163	.134666	.247794
2	.103790	.524706	.199755	.284497
3	.092006	.554518	.228465	.252705
4	.051977	.395004	.143261	.145918
5	.031977	.263636	.077893	.091119
6	.024863	.216476	.072998	.070749
7-8	.017521	.145517	.069826	.051442
9-11	.014039	.100377	.053784	.032643
12-15	.008853	.065967	.047199	.024822
16-20	.005092	.046875	.035692	.014438
21-27	.004522	.028094	.024016	.009817
28-36	.002346	.018548	.015959	.006609
37-47	.001428	.012191	.010988	.004246
48-60	.001047	.008003	.008424	.002701

RUN NO. 43 16M 10-17-61 1040-1146 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.59961 10E 00	0.27303 10E 00	0.13145 10E 00	0.20805 10E 00	0.10016 10E 00	0.45609 10E-01
0	.022282	-.273825	-.528653	-.130139	-.080964	.495052
1	-.030152	-.128423	-.376102	.009520	.016915	.290181
2	-.035429	-.047580	-.258491	.064203	.045008	.106749
3	-.081201	.009170	-.144534	.077300	.058748	.022679
4	-.071178	.041517	-.075855	.045032	.065593	-.044516
5	-.085847	.056592	-.025666	.029327	.023736	-.052378
6	-.068918	.069352	.011250	.014185	.025128	-.060213
7	-.017057	.001962	.006312	.005336	.016661	-.028911
8	-.001179	-.035396	.031874	.010702	.030863	-.047931
9	.031579	-.054643	.061969	-.001449	.005806	-.050452
10	.069704	.000503	.128883	-.062476	.005496	-.063292
11	.074679	-.025233	.145251	-.036255	-.031318	-.020926
12	.062459	-.029127	.148483	-.033172	-.061254	-.005528
13	.027043	.018034	.202161	-.013971	-.044680	-.023241
14	.014006	.043306	.241254	-.010080	-.034068	-.048231
15	-.009537	.062980	.228860	.011790	-.001824	-.075674
16	-.013618	.067505	.191946	.008877	-.009591	-.097728
17	.029943	.056382	.140489	-.034416	-.030706	-.122461
18	.029613	.042001	.110806	-.058436	-.023197	-.058400
19	.029716	.028038	.059355	-.065835	-.013237	.005326
20	.047869	.017606	.032041	.022705	-.007462	-.000456
21	.051977	.008419	.038892	.005976	-.005421	.053101
22	.025962	.044624	.053907	.016429	.032443	-.034107
23	.026420	.039516	.065837	.077855	.032159	-.103512
24	.066062	.011433	.001002	.102400	.007751	-.105333
25	.029454	-.002682	-.027158	.038865	-.016419	-.064043
26	.043039	-.005862	-.083104	-.098702	-.056155	-.003566
27	-.001380	.007062	-.113067	-.078619	-.084650	-.020201
28	-.038358	-.018733	-.169529	-.075796	-.100957	.014194
29	-.059385	-.001589	-.197399	-.070346	-.070883	.038551
30	-.068703	.072721	-.178899	.005054	-.037827	-.020475

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-01	10E-02	10E-02	10E-02
0	-.020949	-.086089	-.006789	.035991	.032712	.020590
1	-.181711	-.744044	-.135243	.267927	.198130	.233629
2	-.146044	-.576729	-.157488	.290897	.153830	.241750
3	-.082563	-.291849	-.110961	.161625	.056136	.223895
4	-.000010	-.400463	-.044313	-.075191	-.087149	.202321
5	.106229	-.832884	-.037598	-.148252	-.110117	.216994
6	.138001	-.987258	-.051861	-.328409	-.078888	.209974
7	.069897	-.722467	-.043149	-.271357	-.044291	.124488
8	.003720	-.429090	-.023740	-.059951	-.030707	.113700
9-11	.015167	-.221778	-.018030	-.271576	-.111188	.110106
12-14	.003072	-.183137	-.007677	-.205027	-.041600	.049949
15-21	.006936	-.184409	-.007603	-.118055	-.035518	.045622
22-30	.022188	-.174601	-.008018	-.139789	-.053104	.028421

RUN NO. 43 16M 10-17-61 1040-1146 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.59961 10E 00	0.27303 10E 00	0.13145 10E 00	0.20805 10E 00	0.10016 10E 00	0.45609 10E-01
1	.164573	-.198634	-.150631	.008458	.030365	-.082995
2	.218369	-.198729	-.197967	.013854	.042008	-.115520
3	.202282	-.118298	-.205805	-.024078	.020293	-.089546
4	.216015	-.065972	-.182858	-.015660	.054639	-.033893
5	.188847	-.031161	-.140739	-.031639	.030817	-.056552
6	.195027	-.027696	-.151938	-.063264	.033833	-.019993
7	.155965	-.041066	-.167624	-.119894	.000248	-.014843
8	.118298	-.046616	-.123132	-.008079	.036720	-.063556
9	.084583	.001587	-.097680	.110735	.053647	-.054255
10	.028166	.002308	-.059212	.102772	.069493	-.051258
11	-.012484	-.016217	-.032301	.100488	.100493	.025364
12	-.014744	-.040910	-.028440	.080871	.116925	.013203
13	.003784	-.063810	-.047235	.099824	.164498	.023742
14	-.031022	-.033946	-.021437	.045718	.129273	.051148
15	-.072486	-.003075	.002423	-.015272	.072352	.057648
16	-.098204	.040234	.038798	-.027986	.042703	.072243
17	-.091859	.032710	.062716	-.083204	-.009062	.031746
18	-.087593	-.005589	.076932	-.055776	-.029449	.001633
19	-.083266	-.019911	.079057	-.046972	-.077050	-.025137
20	-.049583	.006400	.089087	-.016412	-.082485	-.051446
21	-.011318	.014520	.095093	-.012088	-.087633	-.045235
22	-.006686	.025868	.090968	-.021784	-.111061	-.011079
23	-.013445	.047941	.106080	-.010697	-.145746	.026831
24	-.077965	.081817	.117482	-.018412	-.144617	.044828
25	-.085814	.108655	.102737	.017356	-.122878	.067105
26	-.072238	.086316	.068270	.029990	-.134100	.051311
27	-.058475	.041804	.035472	.002979	-.125687	.066467
28	-.024654	.018482	.001285	-.037375	-.073832	.066195
29	.011475	-.031803	-.056137	-.039088	-.045788	.074439
30	.040209	-.027357	-.065986	.005154	.002563	.029978

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-02
1	.270962	-.751407	-.766124	.253327	.466907	-.051643
2	.441234	-.792752	-.996751	.144181	.344492	-.094559
3	.485485	-.664992	-.811039	-.329571	-.085112	-.130426
4	.307303	-.689339	-.476865	-.658598	-.133948	-.088163
5	.168319	-.769547	-.386770	-.186496	.138228	-.011467
6	.132251	-.843062	-.271142	.423268	.174513	-.045107
7	.072844	-.743800	-.175280	.478300	.053822	-.094907
8	.038272	-.472073	-.156138	.206626	-.033973	-.069898
9-11	.081899	-.683221	-.201046	-.101759	.006588	-.042874
12-14	.034671	-.258001	-.031775	.019893	.007480	-.012908
15-21	.021972	-.156504	-.034337	.018342	.020296	.000798
22-30	-.009535	-.006814	-.007728	-.033862	-.028004	-.004681

RUN NO. 43 16M 10-17-61 1040-1146 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOVARIANCE

M	U	V	W	T
	0.78688 10E 00	0.45691 10E 00	0.94737 10E-01	0.21958 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.656374	.564454	.342110	.651263
2	.382449	.297010	-.041427	.392797
3	.180761	.142178	-.072755	.212675
4	.068090	-.021792	-.090410	.082541
5	-.028770	-.118969	-.173828	.020385
6	-.057978	-.199978	-.201193	-.044086
7	-.134417	-.241328	-.083967	-.074763
8	-.205453	-.260474	-.072085	-.173745
9	-.224506	-.216228	-.037151	-.216054
10	-.261210	-.216317	.051483	-.269819
11	-.207131	-.212727	.084872	-.263035
12	-.206272	-.159300	.029073	-.208336
13	-.250574	-.157742	-.015462	-.239831
14	-.278527	-.145398	-.034347	-.244629
15	-.232016	-.110078	-.052924	-.219787
16	-.147588	-.011639	-.076338	-.183506
17	-.056454	.064680	-.098952	-.167163
18	-.041711	.082808	-.020842	-.145300
19	-.028501	.075156	-.014522	-.084283
20	-.019523	.107695	-.056696	-.054658
21	-.074219	.131964	.054794	-.011189
22	-.078758	.126710	.017088	-.037133
23	-.033664	.093513	-.080520	-.062031
24	-.000302	.035848	-.112723	-.034825
25	.024817	.043018	-.069262	-.008690
26	.102840	.023234	.044417	.053088
27	.154660	-.022174	.000265	.098221
28	.262917	-.030545	.019112	.134125
29	.282942	-.087774	.052190	.150366
30	.193408	-.063846	-.020582	.150398

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-02	10E-02
0	.005117	.015402	.028386	.018835
1	.099769	.265922	.342996	.320200
2	.132894	.538807	.383019	.393566
3	.128929	.760716	.474877	.349815
4	.082949	.569695	.670911	.211946
5	.052816	.379603	.872284	.140679
6	.048819	.325884	.863492	.116816
7	.042808	.245054	.594715	.097264
8	.026079	.160108	.421380	.092295
9-11	.029742	.133316	.424933	.078739
12-14	.012427	.109098	.399876	.035062
15-21	.011866	.091279	.360166	.032809
22-30	.008998	.078842	.229511	.028753

RUN NO. 43 40M 10-17-61 1040-1146 EST

GROSS STATISTICS

5 C1	WIND SPEED	7.77 M/SEC	WIND DIRECTION	222 DEG
NEUTRAL/UNSTABLE	SIGMA A	7.4 DEG	SOLAR RADIATION	0.96
WATER-LAND	SIGMA E	5.7 DEG	NET RADIATION	0.50

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.27293E 01	0.78537E 00	0.38626E-00	0.60441E 00
V	0.90952E 00	0.69012E 00	0.49019E-00	0.43132E-00
W	0.52887E 00	0.50422E 00	0.40500E-00	0.28091E-00
T	0.10677E-00	0.24367E-01	0.12728E-01	0.18682E-01
E	0.20838E 01	0.99014E 00	0.64073E 00	

GUSTINESS RATIOS

U	0.21262	0.11406	0.07999	0.10006
V	0.12274	0.10692	0.09011	0.08452
W	0.09360	0.09139	0.08190	0.06821

COVARIANCES

U,V	0.22847E-00	-0.55374E-02	0.55975E-02	-0.29755E-02
U,W	-0.14006E-00	-0.11944E-00	-0.52499E-01	-0.10991E-00
U,T	0.27545E-00	-0.54654E-01	-0.20712E-01	-0.48003E-01
V,W	-0.61120E-01	-0.69480E-01	-0.88503E-01	-0.24637E-01
V,T	0.97650E-01	0.87243E-02	-0.70282E-02	0.12395E-01
W,T	0.64518E-01	0.62863E-01	0.36609E-01	0.47090E-01
WE	-0.10253E-01	0.53747E-01	0.33519E-01	

NORMALIZED COVARIANCES

U,V	0.14501	-0.00752	0.01286	-0.00583
U,W	-0.11658	-0.18979	-0.13273	-0.26673
U,T	0.51026	-0.39508	-0.29540	-0.45174
V,W	-0.08813	-0.11778	-0.19863	-0.07078
V,T	0.31335	0.06728	-0.08898	0.13808
W,T	0.27150	0.56713	0.50990	0.65003

RUN NO. 43 40M 10-17-61 1040-1146 EST
 61-POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.43518 10E 00	0.39555 10E 00	0.70110 10E-01	0.44560 10E 00	0.78982 10E-01	0.71789 10E-01
0	.012844	-.132516	-.295164	-.198546	-.088848	.509866
1	.022799	-.135585	-.278051	-.165023	-.073028	.433336
2	.033234	-.131396	-.249647	-.116178	-.050665	.331245
3	.035120	-.111635	-.218830	-.081575	-.031357	.258990
4	.030144	-.094204	-.188154	-.056048	-.013456	.203922
5	.026437	-.076667	-.154147	-.037028	-.000176	.165767
6	.024991	-.057057	-.116482	-.017679	.002963	.136326
7	.021205	-.041087	-.087195	-.005314	.005020	.106102
8	.023849	-.030308	-.066696	.008152	.010086	.067886
9	.019427	-.020232	-.044680	.025132	.015223	.031088
10	.013111	-.010492	-.025868	.038452	.019830	-.004224
11	.007135	.005807	-.007641	.039449	.020090	-.025024
12	-.001357	.019829	.008254	.034227	.018735	-.030282
13	-.011239	.027971	.020641	.040490	.023623	-.031151
14	-.016387	.031039	.032311	.045590	.031755	-.035534
15	-.025611	.032215	.037845	.051467	.044676	-.049529
16	-.030364	.037349	.039743	.054142	.052490	-.053951
17	-.033242	.038853	.043298	.053449	.053765	-.058236
18	-.028661	.037227	.047279	.049447	.048064	-.063716
19	-.022477	.028553	.053388	.048856	.039609	-.070670
20	-.019854	.022775	.063049	.051306	.030714	-.080312
21	-.024253	.021989	.070568	.048895	.019617	-.094407
22	-.030934	.025564	.078977	.049791	.012845	-.106488
23	-.026285	.029919	.089046	.052553	.006744	-.108775
24	-.019180	.036807	.096589	.048896	-.003761	-.107312
25	-.009457	.045460	.099545	.037141	-.010604	-.101381
26	-.000019	.050296	.098041	.018500	-.008335	-.101479
27	.007968	.047586	.095243	.005584	-.005600	-.113985
28	.016709	.041848	.089431	-.001941	-.004623	-.130758
29	.023330	.035993	.084653	-.000088	.004441	-.142855
30	.026720	.027747	.078390	.008513	.017088	-.138414
31	.027081	.026141	.071939	.015068	.025759	-.122838
32	.025788	.031011	.064211	.013418	.026341	-.106421
33	.019749	.030199	.053423	.007383	.015871	-.091189
34	.016860	.021834	.042920	-.007909	.006147	-.078313
35	.014594	.006070	.032470	-.025577	.003118	-.071408
36	.014793	-.006395	.026562	-.031352	.004306	-.060619
37	.016106	-.008487	.019896	-.025425	.003875	-.049777
38	.009855	-.000331	.016816	-.016423	-.002887	-.034873
39	.002630	.010722	.020333	-.012173	-.008678	-.022542
40	.002690	.014622	.027313	-.013531	-.011129	-.020868
41	.014591	.013138	.026994	-.011558	-.013203	-.021487
42	.030343	.009846	.021041	-.011895	-.019856	-.019593
43	.036651	.006129	.019813	-.018658	-.030916	-.016686
44	.036933	.006004	.019255	-.022999	-.039161	-.015033
45	.029171	.017674	.025709	-.026105	-.045023	-.015114
46	.019224	.025029	.029664	-.041238	-.054646	-.011157
47	.013548	.021217	.029145	-.055208	-.060146	-.003782
48	-.001205	.011585	.024623	-.053166	-.060787	.002764
49	-.017367	.006015	.022927	-.046010	-.054257	.008449
50	-.028170	.008794	.019857	-.045736	-.045052	.014219
51	-.037569	.010058	.010043	-.048246	-.037932	.024909
52	-.043006	.010174	-.004046	-.046027	-.032343	.034828
53	-.047631	.007050	-.014266	-.032379	-.019935	.031782
54	-.049335	.002306	-.021357	-.015813	-.010174	.024178
55	-.045150	-.004663	-.026958	-.001051	-.001383	.019765
56	-.040011	-.014788	-.035278	.007497	.002445	.023012
57	-.034917	-.023320	-.033103	.013104	.001338	.033719
58	-.037094	-.025153	-.025012	.016847	.001664	.038015
59	-.040581	-.017786	-.014897	.023722	.005455	.042782
60	-.039574	-.010727	-.007255	.032471	.012202	.045440

RUN NO. 43 40M 10-17-61 1040-1146 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.43518 10E 00	0.39555 10E 00	0.70110 10E-01	0.44560 10E 00	0.78982 10E-01	0.71789 10E-01
1	.024078	-.035555	-.024433	-.019387	-.020269	.005435
2	.041682	-.063090	-.047112	-.032541	-.037323	.012909
3	.050061	-.077208	-.062033	-.039338	-.045555	.009057
4	.052831	-.093297	-.071990	-.046526	-.049362	-.001904
5	.062207	-.106298	-.078203	-.052785	-.048815	-.010609
6	.072849	-.107601	-.080366	-.050578	-.045642	-.009301
7	.075620	-.099605	-.078830	-.041034	-.038413	-.008093
8	.076292	-.095351	-.073381	-.029910	-.031383	-.007396
9	.068928	-.091253	-.067571	-.016851	-.020962	-.004159
10	.062888	-.089313	-.066293	-.013938	-.016062	-.006573
11	.064605	-.082772	-.067702	-.008226	-.017474	-.014344
12	.071124	-.075305	-.068379	.009918	-.017989	-.014140
13	.075726	-.074595	-.064373	.029924	-.013138	-.010094
14	.073691	-.075386	-.065553	.037012	-.011778	-.010877
15	.063227	-.080814	-.068475	.039829	-.016152	-.009454
16	.043419	-.079668	-.068490	.030720	-.019192	-.008594
17	.016449	-.067549	-.062917	.012228	-.019490	-.016343
18	-.003782	-.052970	-.059208	-.004677	-.020405	-.020379
19	-.022211	-.063389	-.054971	-.013978	-.019265	-.018048
20	-.034591	-.060449	-.047069	-.008442	-.018101	-.010651
21	-.040757	-.046835	-.036868	-.006686	-.021220	-.006039
22	-.042968	-.038910	-.025082	-.016472	-.028702	-.005440
23	-.045044	-.034418	-.016253	.021127	-.027831	-.005450
24	-.043830	-.031299	-.008246	.009628	-.023135	-.004797
25	-.042042	-.033219	-.005873	.005073	-.017332	-.005329
26	-.041376	-.040133	-.007374	.010075	-.011203	-.004863
27	-.037971	-.038196	-.004510	.007405	-.011404	-.008993
28	-.036674	-.036781	-.000417	.000024	-.014016	-.019491
29	-.025995	-.032637	.000210	-.004513	-.021117	-.023479
30	-.012117	-.023528	.004986	-.009636	-.025557	-.021857
31	-.002419	-.004668	.016593	-.012031	-.021180	-.012702
32	-.008101	.006144	.021555	-.006347	-.014188	-.005624
33	.012596	.008554	.022044	-.000457	-.002486	-.006866
34	.014350	.006077	.019982	.000097	.002295	-.006728
35	.015352	.012077	.022974	-.004517	-.000877	-.001102
36	.017689	.021791	.027170	-.008444	.004542	.003397
37	.016477	.026062	.025616	-.008507	.018187	.004390
38	.013944	.030058	.024370	-.009718	.031894	.001666
39	.015197	.031283	.025222	-.010077	.040571	.003044
40	.013611	.029284	.026322	-.006373	.049052	.002610
41	.014137	.027649	.024025	-.000003	.052845	-.000116
42	.016409	.017431	.022322	.006302	.054743	.000588
43	.027012	.004543	.015566	.017349	.053638	.000388
44	.035135	-.000834	.011937	.023456	.045570	-.000291
45	.036869	.000602	.012138	.024041	.036773	-.007544
46	.036235	.002959	.011151	.021589	.032309	-.012510
47	.037703	.006988	.013568	.020881	.030693	-.019391
48	.035242	.017504	.016931	.018656	.027644	-.020965
49	.032992	.028142	.026201	.014004	.017975	-.010988
50	.034416	.041476	.034210	.007681	.010460	-.002009
51	.036568	.050469	.042275	.006639	.012528	.005268
52	.032162	.047386	.042232	.001923	.011816	.010541
53	.026501	.046156	.037377	-.001567	.012880	.009451
54	.017659	.037801	.023190	.001802	.012296	.008055
55	.011435	.038019	.012129	.011249	.013305	.010446
56	.011253	.036834	.001665	.013910	.014148	.011167
57	.004776	.037104	-.006195	.009851	.011166	.011522
58	-.005733	.038429	-.005610	.006992	.007656	.016747
59	-.016821	.027354	-.006988	.006186	.004310	.026830
60	-.025684	.016617	-.011083	.006801	.005766	.029750

RUN NO. 43 4QM 10-17-61 1040-1146 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.38630 10E 00	0.49025 10E 00	0.40501 10E 00	0.12724 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.839796	.817582	.767155	.836905
2	.646669	.599919	.503409	.647514
3	.506902	.433568	.332267	.510496
4	.397826	.299465	.236814	.403733
5	.309462	.188103	.183873	.315769
6	.236880	.101289	.137983	.236630
7	.172119	.036970	.092223	.168249
8	.114362	-.002585	.046918	.108323
9	.062835	-.032256	-.010312	.058263
10	.018786	-.062627	-.059041	.015974
11	-.010565	-.081496	-.077960	-.015659
12	-.035189	-.103835	-.078259	-.033789
13	-.057641	-.129750	-.078372	-.045861
14	-.080593	-.159152	-.087645	-.065084
15	-.106628	-.188505	-.104327	-.092663
16	-.125891	-.205498	-.105724	-.112281
17	-.131863	-.206894	-.113814	-.129428
18	-.141368	-.201044	-.131927	-.141184
19	-.161419	-.191869	-.152418	-.162873
20	-.186748	-.175308	-.167684	-.183738
21	-.210269	-.156636	-.177547	-.205070
22	-.227198	-.142723	-.182727	-.223821
23	-.236651	-.140158	-.179304	-.234569
24	-.248470	-.145526	-.174856	-.238590
25	-.267284	-.149158	-.166500	-.245639
26	-.270080	-.139006	-.152695	-.264676
27	-.253072	-.121153	-.154229	-.277779
28	-.231927	-.106915	-.163484	-.274605
29	-.211602	-.105652	-.160953	-.261168
30	-.187229	-.088776	-.141220	-.238204
31	-.154190	-.052394	-.108378	-.200797
32	-.127637	-.023564	-.072613	-.162135
33	-.106259	.001854	-.052196	-.122309
34	-.089846	.021733	-.034374	-.086159
35	-.077467	.030492	-.028238	-.066120
36	-.061750	.028823	-.031599	-.046437
37	-.039120	.010604	-.041408	-.024755
38	-.022472	-.006310	-.035366	.002996
39	-.012717	-.013520	-.012975	.012172
40	-.009567	-.020790	-.001444	-.000711
41	-.009182	-.026596	-.000031	-.016023
42	-.005923	-.027779	.007685	-.019138
43	-.002603	-.021843	.010723	-.015539
44	.001601	-.009974	.004286	-.012543
45	.000612	-.005411	-.003210	-.009987
46	.000318	.002728	-.005234	-.001234
47	.001822	.014154	.001262	.009146
48	.006076	.018626	.008926	.013180
49	.017296	.024032	.007872	.022879
50	.027064	.025249	.021386	.030417
51	.035986	.019144	.040037	.035296
52	.048786	.012866	.050095	.042006
53	.057897	.017309	.035301	.043566
54	.059245	.023966	.014427	.038247
55	.053916	.037189	.012932	.027935
56	.046445	.041383	.025046	.016858
57	.036775	.026788	.030655	.003272
58	.032047	.006006	.028298	-.003989
59	.026146	-.004011	.014577	.000968
60	.017885	-.007891	.005150	.004578

RUN NO. 43 40M 10-17-61 1040-1146 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-01	10E-02	10E-02
0	.105392	-.015875	-.065904	-.000736	.017441	.070615
1	.239073	-.121275	-.485337	-.033334	.035191	.611023
2	.274002	-.125735	-.480754	-.098763	-.067523	.648696
3	.600319	-.116901	-.399514	-.148243	-.120249	.532631
4	.424684	-.076637	-.221587	-.115703	-.103432	.307447
5	.019340	-.048160	-.129379	-.076807	-.101577	.246403
6	-.198672	-.041508	-.127372	-.052796	-.040691	.238459
7-8	-.080196	-.013255	-.079757	-.046535	-.004763	.144209
9-11	-.040385	-.005367	-.022997	-.025796	-.048584	.076263
12-15	-.007684	-.002403	-.015192	-.015863	-.013187	.060932
16-20	-.031666	.000901	-.002579	-.015399	-.014116	.052150
21-27	-.039547	.000492	-.005312	-.006040	-.000771	.021185
28-36	-.017488	.002066	-.003099	-.004906	-.004095	.015624
37-47	-.002036	.001277	-.001210	-.002110	-.002214	.009523
48-60	-.007545	-.000206	-.000937	-.001077	-.001079	.004589

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-03
1	.051597	-.179323	-.202337	-.125295	-.107768	-.658842
2	.065034	-.160861	-.229186	-.128093	-.120227	-.338016
3	.126454	-.114643	-.188954	-.140391	-.052161	-.094814
4	.119888	-.062129	-.089886	-.338605	-.029708	.018420
5	.047546	-.050063	-.042432	-.492510	-.075191	-.007356
6	-.008716	-.044263	-.038013	-.532062	-.056529	.051130
7-8	-.006025	-.022910	-.038193	-.444946	-.049862	.085396
9-11	.017811	-.017295	-.024292	.062721	-.022166	.049823
12-15	-.003645	-.001936	-.003041	-.061533	-.005103	.069641
16-20	.006263	-.000391	.000471	.042856	-.000708	.117972
21-27	.002112	-.002255	-.001957	-.047648	-.003301	-.015759
28-36	-.000201	-.000795	.000899	-.004325	-.000186	-.032173
37-47	-.000398	.000740	.000600	.004265	.000979	-.000125
48-60	.000038	.000503	.000309	.001820	.000657	-.007883

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-02
0	.077470	.055297	.042511	.024761
1	.600420	.462917	.409205	.200262
2	.661316	.590444	.501414	.221562
3	.598471	.692873	.503592	.196221
4	.338739	.554184	.336623	.105603
5	.214066	.374310	.236938	.069412
6	.219016	.295132	.226016	.078600
7-8	.175690	.231380	.191298	.057043
9-11	.091559	.180160	.116694	.032052
12-15	.063266	.090313	.092547	.018823
16-20	.044482	.055547	.078318	.014429
21-27	.026661	.038338	.042946	.008808
28-36	.017571	.024708	.027055	.005881
37-47	.011017	.016324	.017130	.003764
48-60	.006744	.010262	.011230	.002272

RUN NO. 43 40M 10-17-61 1040-1146 EST
 301 POINT RUNN. NG MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.51062 10E 00	0.41215 10E 00	0.10622 10E 00	0.34832 10E 00	0.89771 10E-01	0.72458 10E-01
0	-.005827	-.266667	-.451910	-.070732	.138077	.649890
1	-.029061	-.177229	-.363915	.084780	.182150	.382280
2	-.035429	-.109512	-.254701	.076011	.151052	.209188
3	-.042684	-.067355	-.151435	.040243	.109238	.047899
4	-.060550	-.013381	-.064752	.019945	.044704	-.028406
5	-.109351	.011861	.003799	-.035693	-.011054	-.064452
6	-.098463	.049773	.056458	.025968	-.010589	-.114075
7	-.056290	.048257	.071819	-.012542	-.044799	-.116310
8	-.004760	.010511	.077499	-.079638	-.107051	-.097485
9	.011737	.039887	.101387	-.035694	-.096868	-.103069
10	.071276	.065821	.122834	-.071455	-.098220	-.049232
11	.080138	.078027	.136955	-.006236	-.080627	-.042915
12	.112059	.052436	.134791	-.014530	-.119769	-.052679
13	.088131	.065932	.143229	.022706	-.087228	-.093955
14	.038721	.093970	.136001	.069999	-.047706	-.092905
15	.020166	.102149	.126990	.052043	.015704	-.115924
16	.010782	.046979	.092449	-.032845	-.003389	-.084768
17	-.021307	.049076	.067271	-.014207	-.001675	-.103925
18	-.003962	.024315	.039423	.013643	.029561	-.090401
19	.024053	.005736	.024647	.001068	.059760	-.031495
20	.068042	.007921	.032071	.007226	.060025	.020226
21	.051042	-.004409	.059200	.004795	.067964	.024875
22	.046528	.045147	.082962	-.026740	.064850	.001738
23	.030396	.056439	.074130	.017450	.037804	-.059099
24	.049192	-.022092	.034711	.013108	-.006497	-.063265
25	.049712	-.051120	.003333	-.023379	-.035457	-.052781
26	.036706	-.049587	-.019247	-.046408	-.049000	-.050035
27	-.017740	-.056533	-.035780	-.086384	-.099770	-.003222
28	-.008283	-.034452	-.050724	-.114202	-.135226	.050725
29	-.042006	-.033132	-.074511	-.041016	-.105198	.083830
30	-.092542	-.032782	-.102279	.006106	-.092599	.095046

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
0	-.014225	-.002773	-.005411	.066852	.031521	.076440
1	-.166643	-.147874	-.087751	.303749	.254891	.466665
2	-.147767	-.201521	-.103903	.318279	.410732	.575456
3	-.074100	-.176843	-.093432	.610467	.548522	.578407
4	.043742	-.105207	-.059076	.654824	.303073	.489093
5	.145185	-.083164	-.035741	.262274	.078513	.481049
6	.111725	-.091383	-.032758	-.240260	.044782	.438745
7	.005963	-.074330	-.028190	-.362987	.023321	.264112
8	-.025581	-.033340	-.013815	-.035598	.031108	.179431
9-11	-.015143	-.018855	-.007261	-.080088	-.012082	.165842
12-14	-.008056	-.020301	-.004860	-.334117	-.044659	.103572
15-21	.013608	-.015127	-.003089	-.187314	-.009187	.061079
22-30	.005369	-.016082	-.002642	-.416421	-.038715	.092845

RUN NO. 43 40M 10-17-61 1040-1146 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.51062 10E 00	0.41215 10E 00	0.10622 10E 00	0.34832 10E 00	0.89771 10E-01	0.72458 10E-01
1	.116447	-.152521	-.090219	-.020858	-.017798	-.032451
2	.100867	-.168084	-.108711	.002390	-.004061	-.063294
3	.149535	-.153247	-.103933	-.021441	-.001534	-.074698
4	.177703	-.120938	-.098762	-.009338	.025555	-.069155
5	.172672	-.081742	-.101480	-.003782	.026920	-.063276
6	.136042	-.057387	-.117071	-.022803	-.001336	-.032055
7	.083896	-.065883	-.135697	-.016671	-.005478	-.021386
8	.070420	-.076943	-.132914	.006874	-.009856	-.021982
9	.031482	-.055552	-.116274	.060958	.028896	-.022071
10	-.021719	-.046092	-.105804	.111934	.086051	.004710
11	-.051760	-.036440	-.096126	.110047	.112403	.032964
12	-.040106	-.014548	-.097443	.079687	.123160	.015898
13	-.025101	-.038830	-.076309	.072935	.117564	-.005428
14	-.045946	-.021290	-.053418	.028629	.087517	.023711
15	-.074366	.015199	.003903	.030256	.063627	.016816
16	-.053262	.015506	.044051	.019668	.040456	.015580
17	-.015029	.039987	.048250	-.048200	.000293	.020149
18	.027272	.001782	.045171	-.052847	-.027514	-.015223
19	.044221	.018055	.073329	-.050970	-.091528	-.041377
20	.040329	.009106	.059602	-.081554	-.110768	-.078058
21	.063742	.001680	.046130	-.068043	-.075299	-.052545
22	.040017	.030035	.046306	-.078793	-.063751	-.034792
23	.017357	-.002673	.047437	-.019465	-.009806	-.037215
24	-.043770	.034240	.073431	.019407	.009721	-.010033
25	-.068532	.039571	.062032	.049550	-.012462	.040118
26	-.104689	.104199	.095104	.064311	-.006616	.066439
27	-.128749	.141700	.101524	-.011156	-.032562	.093015
28	-.080866	.092551	.039812	-.033462	-.045722	.111154
29	-.082331	.040580	-.020838	-.084885	-.090048	.139934
30	-.076296	-.007282	-.030058	-.094449	-.103694	.068808

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
1	.152209	-.172888	-.695491	.751074	.314773	-.104552
2	.202856	-.178145	-.679685	.562873	.188891	-.091209
3	.297646	-.157712	-.391004	-.355869	-.113078	-.159870
4	.266019	-.116086	-.066812	-.944985	-.198135	-.163277
5	.104898	-.094326	-.052826	-.218397	.059072	-.061726
6	.048028	-.102520	-.126892	.286096	.131508	-.058606
7	.031715	-.091496	-.095329	.283954	.016373	-.049493
8	-.008968	-.072864	-.051326	.189881	-.030144	-.009510
9-11	.013086	-.056901	-.102818	-.205988	-.070463	-.012295
12-14	.005820	-.015022	-.029955	.064872	.002682	.015614
15-21	.032061	-.017734	-.020489	-.038964	.001258	-.002368
22-30	.018120	-.005728	-.004128	-.093358	-.015972	.000222

RUN NO. 43 40M 10-17-61 1040-1146 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.60420 10E 00	0.43154 10E 00	0.28114 10E 00	0.18674 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.703103	.433007	.376874	.679499
2	.427481	.188104	.080992	.432849
3	.232197	.146463	-.052783	.193511
4	.062468	-.035234	-.174770	.063034
5	-.041672	-.065945	-.147407	-.057875
6	-.176171	-.146866	-.201322	-.155897
7	-.250498	-.252712	-.147402	-.163329
8	-.269798	-.223495	-.076887	-.144665
9	-.298329	-.246522	-.047139	-.181525
10	-.289696	-.180321	.014992	-.175573
11	-.257409	-.171484	-.015161	-.178475
12	-.211345	-.071192	.011616	-.206381
13	-.167363	.009068	-.033784	-.234112
14	-.116174	-.032861	-.091904	-.203849
15	-.059508	-.049545	-.074357	-.188201
16	-.017520	.035628	-.009127	-.110367
17	-.015473	-.003264	-.036885	-.087540
18	.007447	.080904	-.034288	-.057632
19	.007272	.086413	.005933	-.031792
20	-.005668	.036716	.018049	-.007758
21	-.034728	.059560	.067350	-.041250
22	-.045752	.070379	.034728	-.055014
23	-.045125	-.022937	-.088806	-.084017
24	-.046376	-.014697	-.085494	-.087237
25	-.069896	-.027623	-.068507	-.085851
26	-.064489	-.049214	.007144	-.090706
27	.005726	-.113696	.039774	-.023242
28	.072214	-.148194	.011265	.023504
29	.091928	-.133401	.003459	.052889
30	.125654	-.100107	.007125	.105843

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-02
0	.005199	.025680	.005623	.021808
1	.068517	.232042	.100679	.255887
2	.094072	.380651	.146495	.299901
3	.114115	.585670	.203431	.298613
4	.090622	.524055	.232838	.213612
5	.051203	.343244	.259684	.153420
6	.032112	.221323	.266661	.144914
7	.026258	.134643	.200375	.114151
8	.020999	.123598	.140091	.068557
9-11	.015496	.151952	.117723	.043305
12-14	.011658	.132341	.096452	.032306
15-21	.006800	.118897	.074503	.019724
22-30	.006209	.113617	.084197	.026051

RUN NO. 43 16M 10-17-61 1040-1146 EST
 RUN NO. 43 40M 10-17-61 1040-1146 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.774554	.715421	.815957	.793740
1	.689146	.727617	.793998	.770204
2	.598949	.669867	.734135	.749562
3	.463193	.635637	.692439	.700070
4	.292783	.591729	.682469	.594375
5	.300712	.519427	.627928	.515238
6	.317871	.452567	.508240	.485846
7-8	.209590	.384504	.530354	.350360
9-11	.143611	.326282	.385403	.265339
12-15	.142059	.220229	.210420	.146142
16-20	.193669	.137548	.206885	.231841
21-27	.124419	.064927	.070493	.103815
28-36	.138634	.135893	.092460	.093607
37-47	.096398	.080565	.084524	.158312
48-60	.172833	.122099	.101351	.148899

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.982340	.941733	.962595	.966647
1	.902806	.774823	.767637	.955533
2	.874464	.797192	.713865	.939203
3	.878922	.838241	.762441	.913760
4	.898336	.878099	.851536	.889298
5	.874930	.894731	.886831	.825707
6	.762511	.847008	.867271	.721810
7	.729382	.795104	.821362	.705644
8	.663399	.707914	.787352	.766982
9-11	.614491	.642741	.757984	.824799
12-14	.571833	.612468	.713581	.688730
15-21	.305883	.582045	.616713	.484703
22-30	.235627	.381226	.573271	.337908

RUN NO. 47 16M 10-25-61 1215-1331 EST

GROSS STATISTICS

CLEAR	WIND SPEED	6.41 M/SEC	WIND DIRECTION	209 DEG
NEUTRAL/UNSTABLE	SIGMA A	5.4 DEG	SOLAR RADIATION	0.84
WATER-LAND	SIGMA E	2.9 DEG	NET RADIATION	0.47

	WITH NO RUNNING MEAN	WITH 301 POIN/ RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.57071E-00	0.41025E-00	0.31259E-00	0.25551E-00
V	0.37174E-00	0.24724E-00	0.14626E-00	0.17216E-00
W	0.10175E-00	0.91342E-01	0.75716E-01	0.40193E-01
T	0.27985E-01	0.86875E-02	0.55092E-02	0.65734E-02
E	0.52210E-00	0.37442E-00	0.26729E-00	

GUSTINESS RATIOS

U	0.11786	0.09992	0.08722	0.07886
V	0.09512	0.07757	0.05966	0.06473
W	0.04976	0.04715	0.04291	0.03128

COVARIANCES

U,V	0.52563E-01	0.69906E-01	0.48467E-01	0.48914E-01
U,W	-0.86557E-01	-0.92193E-01	-0.68590E-01	-0.52190E-01
U,T	-0.45689E-01	-0.33457E-01	-0.21868E-01	-0.26162E-01
V,W	0.37592E-01	0.17326E-01	0.13664E-02	0.17162E-01
V,T	0.30606E-01	-0.23968E-03	-0.30265E-02	0.92754E-03
W,T	0.10441E-01	0.94572E-02	0.61157E-02	0.69482E-02
WE	0.17689E-01	0.15539E-01	0.70987E-02	

NORMALIZED COVARIANCES

U,V	0.11412	0.21950	0.22667	0.23322
U,W	-0.35920	-0.47625	-0.44585	-0.51500
U,T	-0.36153	-0.56042	-0.52696	-0.63838
V,W	0.19330	0.11529	0.01298	0.20632
V,T	0.35890	-0.00517	-0.10662	0.02757
W,T	0.34560	0.33572	0.29944	0.42746

RUN NO. 47 16M 10-25-61 1215-1331 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21382 10E 00	0.15384 10E 00	0.41488 10E-01	0.10526 10E 00	0.28385 10E-01	0.20423 10E-01
0	.226689	-.445909	-.527183	.012944	-.106625	.299625
1	.191812	-.350708	-.484637	.015901	-.094720	.262451
2	.151059	-.235946	-.413518	.019968	-.077558	.206193
3	.114630	-.166923	-.350142	.016916	-.059677	.158737
4	.079910	-.129090	-.297504	.014139	-.039111	.126038
5	.053825	-.095054	-.250722	.010497	-.024456	.105666
6	.031511	-.074062	-.205536	.009691	-.012214	.091409
7	.011732	-.063201	-.162165	.011754	-.000276	.072546
8	-.003820	-.051479	-.116989	.011323	.015817	.048562
9	-.016646	-.040065	-.076244	.009809	.027521	.028780
10	-.023595	-.028425	-.038168	.009574	.035651	.012378
11	-.025225	-.018082	-.008195	.007819	.040093	.002350
12	-.029166	-.007123	.015439	.005241	.044790	-.003133
13	-.026643	-.001368	.033249	-.001640	.045702	-.011548
14	-.028137	.014391	.051696	-.004631	.042904	-.023871
15	-.033557	.023390	.068138	-.004927	.042729	-.032490
16	-.036562	.024641	.083176	-.006209	.042942	-.036771
17	-.041553	.031107	.101004	-.004218	.040740	-.041266
18	-.052496	.049812	.121787	-.007000	.034281	-.049438
19	-.056633	.061165	.142909	-.017019	.029506	-.059969
20	-.056645	.071710	.165356	-.025859	.030898	-.071838
21	-.059018	.079212	.181423	-.024452	.033178	-.078379
22	-.058036	.095075	.190472	-.016840	.031562	-.085309
23	-.058709	.105702	.194118	-.008637	.032034	-.088281
24	-.059808	.098967	.185621	-.005039	.027112	-.083928
25	-.060960	.094451	.174073	-.000717	.024323	-.072725
26	-.058759	.099232	.166568	.004663	.018542	-.066677
27	-.049187	.105092	.157567	.004887	.006358	-.067404
28	-.039449	.106034	.147618	.002006	-.006844	-.070163
29	-.030010	.101510	.137827	-.001021	-.015124	-.070539
30	-.018587	.089564	.122387	-.009434	-.018903	-.064004
31	-.009915	.069027	.098208	-.016703	-.023668	-.050224
32	.002789	.058883	.080177	-.023364	-.027857	-.038890
33	.007701	.061441	.076858	-.023203	-.028683	-.038691
34	.010761	.070529	.077071	-.019724	-.030113	-.044270
35	.021773	.069442	.074617	-.011691	-.036574	-.045232
36	.024448	.063316	.072124	.005817	-.042132	-.046660
37	.023212	.057005	.070600	.022265	-.041886	-.042145
38	.021344	.060983	.072678	.025991	-.038427	-.040898
39	.019281	.065004	.075776	.016587	-.036092	-.044894
40	.023489	.058019	.072588	.007997	-.032874	-.046015
41	.023515	.050907	.062394	.002412	-.023001	-.041900
42	.019269	.043025	.052285	-.000969	-.011825	-.037892
43	.014581	.037152	.042150	.001658	-.005168	-.030511
44	.012806	.029183	.028793	-.001767	-.003637	-.017244
45	.018252	.018386	.013644	-.004305	-.005456	-.003942
46	.020209	.009544	.001540	-.000335	-.006457	.003868
47	.018515	-.002963	-.006185	.010519	-.001602	.015454
48	.015995	-.022309	-.015169	.020448	.000560	.028599
49	.013226	-.041014	-.026563	.022326	-.005652	.042159
50	.009871	-.049230	-.033401	.019892	-.011556	.045431
51	.009058	-.053512	-.034537	.010514	-.015151	.040582
52	.006419	-.059181	-.033003	-.002465	-.012201	.033131
53	-.001859	-.056923	-.030291	-.003754	-.005173	.021567
54	-.011360	-.050773	-.029337	.001341	.002541	.010173
55	-.019123	-.051553	-.031319	.011671	.012550	.006875
56	-.032538	-.050090	-.033312	.015502	.022083	.006348
57	-.040414	-.047650	-.039875	.018233	.025065	.011887
58	-.038290	-.041220	-.044809	.015423	.023087	.012031
59	-.034608	-.036340	-.050553	.009564	.027424	.012998
60	-.029682	-.028315	-.060713	.006037	.037214	.020285

RUN NO. 47 16M 10-25-61 1215-1331 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21382 10E 00	0.15384 10E 00	0.41488 10E-01	0.10526 10E 00	0.28385 10E-01	0.20423 10E-01
1	.028874	-.086286	-.017802	.005513	.019058	-.032615
2	.055545	-.125931	-.034731	.009678	.032450	-.045976
3	.075945	-.140425	-.045054	.010894	.047792	-.049460
4	.089752	-.137501	-.051536	.016441	.057444	-.049494
5	.097337	-.124940	-.055324	.018001	.062343	-.048283
6	.099673	-.108182	-.060707	.016605	.065860	-.047572
7	.096056	-.095640	-.066394	.009950	.065201	-.051140
8	.093050	-.082471	-.071408	.000824	.062442	-.053912
9	.088199	-.067321	-.075106	-.000313	.064034	-.043363
10	.087046	-.057731	-.075559	.003880	.067581	-.031896
11	.087518	-.051215	-.070565	.010043	.071760	-.029934
12	.086893	-.048622	-.070085	.028912	.072967	-.028000
13	.083406	-.046572	-.070653	.043636	.075007	-.021489
14	.070819	-.036707	-.064197	.049866	.069963	-.015659
15	.055364	-.029793	-.050677	.051168	.069064	-.014046
16	.044265	-.025874	-.036686	.050336	.068727	-.013404
17	.032985	-.025959	-.026202	.053712	.062548	-.015976
18	.023362	-.032711	-.020804	.047868	.051593	-.018052
19	.017740	-.039083	-.019878	.037890	.038163	-.017565
20	.012412	-.040471	-.017248	.030374	.022121	-.012229
21	.012100	-.026773	-.011997	.031221	.010215	-.006045
22	.011926	-.010865	-.005550	.037197	.002394	-.000844
23	.014480	-.003659	-.000688	.044034	-.000353	.005558
24	.009800	.000597	.002651	.040032	-.004308	.010007
25	.002138	.007979	.003131	.027699	-.009551	.013513
26	-.006016	.016088	.003614	.008661	-.013487	.016169
27	-.012879	.031708	.008353	-.002059	-.015744	.016452
28	-.010043	.040761	.014350	-.006216	-.017929	.015663
29	-.004335	.049522	.018149	-.002053	-.021561	.010969
30	-.004012	.059013	.016638	.002227	-.025790	.006918
31	-.003728	.054186	.009671	.005779	-.027710	.002646
32	.002410	.036629	.005303	.011724	-.020915	-.008649
33	.003452	.019304	.007286	.009458	-.013915	-.019344
34	.002026	.010609	.009018	.013046	-.011023	-.025681
35	-.004443	.004486	.003901	.014581	-.008898	-.030721
36	-.011103	.003097	-.002886	.008938	-.013815	-.023145
37	-.016288	.005905	-.008344	.001329	-.024868	-.009468
38	-.017472	.005996	-.008258	.007141	-.032900	-.001300
39	-.017466	.004796	-.005233	.006003	-.039241	-.003221
40	-.010903	.006040	-.003183	.002691	-.038588	.000765
41	-.003429	.007494	-.005753	.008217	-.032748	.014187
42	.000103	.009893	-.005981	.010696	-.028751	.024858
43	.002724	.015825	-.004444	.003539	-.023724	.029535
44	.008917	.021032	-.004278	.002443	-.014037	.032549
45	.010875	.030363	.001666	.000076	-.001408	.031748
46	.010232	.039431	.009332	-.008192	.007053	.031672
47	.005567	.050653	.012320	-.013514	.008833	.036030
48	-.003096	.049308	.013827	-.023387	.011538	.033196
49	-.009982	.035460	.014789	-.032726	.007862	.025278
50	-.010555	.017943	.011632	-.034541	.005735	.018023
51	-.006024	.005763	.005096	-.024166	.010104	.012927
52	-.002554	-.000062	-.002519	-.016870	.010863	.012443
53	.002422	.000680	-.007279	-.006562	.010658	.011469
54	-.000788	.002788	-.011635	-.003957	.007635	.011885
55	-.009698	.007189	-.016345	-.001385	-.001749	.010129
56	-.021950	.007690	-.016947	.004300	-.007219	.009863
57	-.031764	.006255	-.017406	.010014	-.019159	.008694
58	-.040137	.006189	-.017457	.007873	-.032083	.011012
59	-.046233	.004815	-.018576	-.002698	-.039564	.013331
60	-.047236	.000719	-.017181	-.012596	-.042863	.016916

RUN NO. 47 16M 10-25-61 1215-1331 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.31252 10E 00	0.14629 10E 00	0.75734 10E-01	0.55076 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.817722	.815876	.718868	.876644
2	.610314	.609447	.409034	.720368
3	.462088	.443849	.217422	.593367
4	.354132	.300682	.107221	.491781
5	.265370	.190796	.050113	.408293
6	.195799	.111479	.020007	.333416
7	.142802	.048221	-.008014	.259674
8	.093700	.000264	-.022379	.179527
9	.052700	-.037150	-.028658	.111348
10	.013329	-.066513	-.037881	.047235
11	-.025521	-.088521	-.044148	-.006574
12	-.056810	-.114680	-.041354	-.049438
13	-.075282	-.129855	-.053011	-.091458
14	-.099225	-.144547	-.074984	-.126524
15	-.119224	-.149563	-.079114	-.150983
16	-.133135	-.145933	-.067598	-.169708
17	-.152071	-.142015	-.058177	-.188083
18	-.176473	-.138528	-.066992	-.204192
19	-.195286	-.138690	-.082196	-.220132
20	-.212981	-.143166	-.093716	-.238330
21	-.231056	-.144750	-.111304	-.256490
22	-.251960	-.149613	-.132419	-.273569
23	-.262241	-.155630	-.142054	-.286823
24	-.253291	-.162242	-.134931	-.293710
25	-.249631	-.173470	-.121526	-.300242
26	-.252207	-.179589	-.120932	-.301430
27	-.243057	-.176871	-.146261	-.292310
28	-.227169	-.158050	-.147885	-.277387
29	-.205931	-.133123	-.132669	-.254318
30	-.168506	-.099994	-.101894	-.222195
31	-.126122	-.065909	-.050076	-.183334
32	-.095854	-.040942	-.013267	-.152632
33	-.088826	-.027623	-.005213	-.136282
34	-.085286	-.018193	-.028958	-.124358
35	-.075379	-.011148	-.046706	-.112993
36	-.071245	-.006608	-.049620	-.102560
37	-.063259	-.000888	-.050274	-.087325
38	-.061706	.002218	-.048817	-.077887
39	-.059803	.007336	-.042388	-.069471
40	-.042596	.002211	-.023611	-.057759
41	-.023859	-.014152	-.013908	-.044129
42	-.019940	-.030494	-.008762	-.026142
43	-.014757	-.034769	-.006803	-.017072
44	-.004241	-.035893	-.010597	-.009648
45	.005122	-.031716	-.006030	-.003296
46	.017624	-.025344	-.006240	.002889
47	.028040	-.013854	-.009656	.009771
48	.050387	-.001766	.005702	.012254
49	.074491	.012451	.038470	.012256
50	.083891	.021252	.054480	.013204
51	.080905	.024665	.062294	.013014
52	.082658	.021385	.062054	.013000
53	.083518	.015003	.041821	.017171
54	.072417	.005963	.015714	.019390
55	.061518	.003644	.024402	.023282
56	.046379	-.008001	.025049	.023477
57	.036797	-.016651	.014639	.019757
58	.033107	-.015222	.012403	.024362
59	.036597	-.015501	.009230	.035165
60	.039387	-.005059	.002830	.050496

RUN NO. 47 16M 10-25-61 1215-1331 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-03	10E-03	10E-02
0	.050326	-.010369	-.045669	.071341	.005696	.012018
1	.432793	-.102665	-.450585	.464956	.036319	.109554
2	.671424	-.108649	-.501964	.646876	-.255484	.118158
3	.843354	-.081271	-.430061	.625566	-.681555	.097424
4	.546109	-.043275	-.239664	.220321	-.617975	.057316
5	.299248	-.030904	-.120832	.026892	-.313801	.035955
6	.315738	-.028716	-.081385	-.090450	-.251930	.024670
7-8	.307653	-.031901	-.087649	-.152300	-.201614	.026564
9-11	.146188	-.021105	-.029504	.074298	-.040528	.012856
12-15	.061318	-.016653	-.022863	.062520	-.042168	.010526
16-20	.049975	-.010456	-.015584	-.052752	-.033370	.008107
21-27	.026526	-.006841	-.007815	-.040222	-.007313	.003121
28-36	.017400	-.005204	-.004010	-.013462	-.003564	.001544
37-47	.015011	-.002207	-.001935	-.017567	-.006957	.001086
48-60	.009225	-.001531	-.001106	.008707	-.003353	.000642

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-03	10E-03
1	.617197	-.256798	-.090247	.234698	.588766	-.219597
2	.647267	-.426861	-.095803	.155078	.802805	-.260592
3	.673413	-.499287	-.102665	.058606	.801078	-.270723
4	.500956	-.374003	-.072798	-.021835	.393646	-.285027
5	.312068	-.236857	-.029565	-.063919	.117256	-.183494
6	.177253	-.251667	-.008520	-.035761	-.012025	-.064591
7-8	.074835	-.296042	-.001700	.028712	.060983	-.145831
9-11	.062473	-.136391	-.003080	.037277	.089595	-.026286
12-15	.024275	-.096302	-.004593	-.010652	.004879	-.036132
16-20	-.007275	-.036871	-.002974	-.005237	-.014848	-.028904
21-27	.003984	-.019691	.001199	.004225	.007525	-.011880
28-36	-.000988	-.010732	.000302	.001660	-.001793	-.010608
37-47	-.000041	-.006274	.000034	.000089	.007325	-.001093
48-60	-.000869	-.002990	.000237	-.000938	.002599	-.001070

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.038354	.018132	.057710	.010541
1	.415678	.153088	.574778	.098872
2	.510491	.183658	.694837	.111802
3	.475262	.198542	.683676	.099473
4	.280047	.149663	.488315	.056264
5	.171920	.107918	.395490	.033089
6	.154397	.101291	.417885	.027800
7-8	.146475	.077802	.418461	.019934
9-11	.082488	.045287	.293871	.009180
12-15	.060280	.029550	.234065	.007340
16-20	.037251	.015996	.151625	.005044
21-27	.024277	.010067	.098258	.002882
28-36	.016709	.007048	.060983	.001650
37-47	.009980	.005501	.042223	.001181
48-60	.007177	.003399	.025452	.000786

RUN NO. 47 16M 10-25-61 1215-1331 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20975 10E 00	0.10134 10E 00	0.40972 10E-01	0.83169 10E-01	0.33626 10E-01	0.16246 10E-01
0	.233199	-.515008	-.638542	.206355	.027584	.427689
1	.104880	-.261569	-.375796	.194339	.074809	.242491
2	.035202	-.050283	-.097278	.164374	.075144	.086384
3	.028757	.073021	.007363	.123474	.040538	.012742
4	.009361	.136938	.062202	.097915	.026943	-.030226
5	-.014423	.084138	.025712	.065564	.034408	-.023201
6	-.036896	.059081	-.002086	.005484	.040769	-.012533
7	-.043377	.050066	-.005504	-.037537	.016751	-.022225
8	-.038192	.054965	.067380	-.072328	.001084	-.064761
9	-.056092	.052179	.099386	-.077614	-.027404	-.034245
10	-.059394	.048403	.091335	-.097678	-.006324	-.036342
11	-.090564	.004413	.112774	-.100035	.018486	-.065257
12	-.044415	.007402	.123074	-.096233	-.007555	-.104421
13	-.052389	.004586	.089297	-.107961	-.047715	-.072912
14	-.031534	-.002613	.066660	-.098188	-.068372	-.091265
15	.035749	.013163	.031173	-.086065	-.091141	-.079422
16	.096194	-.009556	.024720	-.057801	-.099657	-.041671
17	.069172	-.010000	.040631	-.052244	-.090391	-.033992
18	.019188	.013163	-.003669	-.015750	-.060284	-.024210
19	.008800	-.013330	-.061752	.005592	-.048689	.024542
20	-.032705	.035076	-.019052	.011287	-.030247	-.026883
21	-.098340	.067128	.045882	.039608	.037860	-.030529
22	-.060818	-.022219	.038845	-.046879	.025619	.052574
23	-.008969	.004956	.054770	-.027007	.005702	.034266
24	.051626	-.014214	.023473	-.103478	-.011392	.008260
25	.038328	.043957	.042288	-.070849	-.020603	-.006445
26	.024283	.086380	.128692	-.029980	-.012479	-.037411
27	.052271	.049238	.152763	-.025633	.007135	-.031546
28	.083606	.004048	.070228	.024127	.030455	.025901
29	.038047	-.078256	.024129	-.001576	.018254	.050835
30	.020164	-.027216	.046716	.022005	.007296	-.003555

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-02	10E-03
0	.013203	-.010988	-.026704	.041358	.007735	.043677
1	.259720	-.191686	-.242707	.482321	.107299	.648135
2	.465696	-.269556	-.274208	.545155	.100649	.846664
3	.724616	-.418286	-.302420	.485479	.031418	.817891
4	.663021	-.518260	-.218733	.217828	-.017652	.509004
5	.174529	-.500685	-.139166	.041691	.017247	.445409
6	.047701	-.451810	-.164107	.045789	.023368	.530728
7	.396570	-.434115	-.194398	-.000680	-.015742	.520296
8	.286270	-.409908	-.195303	-.025206	-.013382	.420723
9-11	.117237	-.333541	-.156175	.017216	.012674	.330852
12-14	.166075	-.139246	-.074111	.021392	-.018350	.210568
15-21	.159458	-.092587	-.050229	-.005234	-.012417	.122277
22-30	.101458	-.094581	-.025456	.001194	-.006800	.097337

RUN NO. 47 16M 10-25-61 1215-1331 EST
 3C1 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20975 10E 00	0.10134 10E 00	0.40972 10E-01	0.83169 10E-01	0.33626 10E-01	0.16246 10E-01
1	.085267	-.092622	-.108002	.070354	-.010800	-.044398
2	.070159	-.025083	-.117671	.111956	-.022410	-.022553
3	.067435	.022565	-.119738	.099619	-.063368	-.002614
4	.032194	-.000897	-.125112	.080965	-.102879	.007176
5	-.004990	-.001712	-.087535	-.007323	-.113347	.003091
6	-.057675	-.059461	-.075945	-.061301	-.145188	-.038917
7	-.077349	-.115202	-.051237	-.101316	-.149424	-.070614
8	-.044862	-.100391	-.042551	-.083141	-.111057	-.046412
9	-.058264	-.053804	-.044126	-.061056	-.134600	-.017009
10	-.129397	-.033314	-.050430	-.103512	-.167818	-.013644
11	-.134523	-.033140	-.025547	-.093167	-.145187	-.077778
12	-.147251	-.077199	-.005597	-.083268	-.100858	-.082753
13	-.113533	-.049754	-.022766	-.089011	-.076926	-.060018
14	-.044266	-.039288	-.009993	-.018133	.011056	-.032297
15	.015898	-.013224	.058222	.005621	.051714	-.039408
16	.020144	.007333	.075511	.071997	.049773	-.051424
17	.021116	.001677	.080087	.091823	.023615	-.024997
18	.012410	.022855	.055139	.091778	.024539	.014599
19	.081997	.033027	.004958	.138068	.047823	.045063
20	.103818	.079009	.000686	.109606	.063538	.057210
21	.092344	.127697	.017625	.067505	.048432	.076835
22	.077235	.100609	.004440	.061801	.067276	.064714
23	.056134	.010052	-.003915	.040630	.083690	.047977
24	.029274	.010193	-.017454	-.000873	.067406	.034898
25	-.014590	-.023203	-.023773	-.061236	.042558	.031475
26	.017184	-.012889	-.023233	-.059996	.092915	.054009
27	.044331	.072293	.043341	-.041535	.108075	.078408
28	.010509	.071808	.077295	-.080753	.030767	.024557
29	-.010459	.001721	.051891	-.092611	.005696	-.033148
30	.007525	-.019388	.069689	-.042765	.021615	-.042577

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-02	10E-03
1	-.768930	-.311407	-.108768	-.140983	-.226611	-.469537
2	-.598227	-.305434	-.154272	-.208196	-.219606	-.340393
3	.223571	-.085791	-.165790	.039130	-.114391	.036367
4	.808223	.090046	-.090597	.365617	.015482	.132242
5	.476326	.035920	-.063582	.272658	.044004	-.047310
6	.181497	.060203	-.089341	.152330	.010174	-.017908
7	.173852	.055614	-.069719	.173791	-.013541	.033475
8	.291232	-.041063	-.026332	.155366	.014844	-.024805
9-11	.164012	-.162457	-.022420	.019680	.025295	-.135016
12-14	.008888	-.059432	-.015563	-.018880	.001547	-.057563
15-21	.070576	-.077253	-.014497	.009610	.003974	-.031323
22-30	.072557	.000051	-.000925	-.011532	.004310	-.017393

RUN NO. 47 16M 10-25-61 1215-1331 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.25558 10E 00	0.17214 10E 00	0.40182 10E-01	0.45684 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.475133	.556819	.411487	.571586
2	.084398	.370401	.148721	.198474
3	-.063846	.224802	-.015185	.001712
4	-.090669	.067536	-.124483	-.066822
5	-.036423	-.025394	-.123013	-.063242
6	-.036617	-.128404	-.109768	-.045543
7	-.026608	-.140274	-.131266	-.032849
8	-.076770	-.254175	-.123979	-.088156
9	-.129402	-.296492	-.085084	-.080985
10	-.133244	-.250646	-.081257	-.070569
11	-.112023	-.236696	-.055863	-.150558
12	-.103482	-.142637	-.068502	-.177496
13	-.093063	-.140277	-.056569	-.149657
14	-.081000	-.078435	-.089314	-.161388
15	-.050215	-.014389	-.082631	-.108948
16	-.030639	.031385	.019721	-.067151
17	-.059629	.017903	-.019162	-.018768
18	-.019338	.003466	-.003826	.013531
19	.031051	.002094	.037952	.053272
20	-.001479	-.131859	-.037358	-.012230
21	-.061910	-.143842	-.067276	-.066065
22	-.043807	-.125327	-.011663	-.066342
23	-.040864	-.107185	-.041797	-.090792
24	-.002958	-.083557	-.038907	-.081437
25	-.062333	-.105525	-.040282	-.079270
26	-.178531	-.073584	-.046298	-.124918
27	-.146919	-.053861	-.045275	-.162611
28	-.014452	.000808	.084835	-.093976
29	.044974	.111611	.143390	-.044837
30	.012592	.118909	.041619	-.036687

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-03
0	.017246	.018335	.016964	.076288
1	.182698	.197760	.221579	.659913
2	.212313	.233731	.291048	.704083
3	.236257	.276407	.367746	.723838
4	.194277	.236239	.362796	.531011
5	.150052	.119065	.316770	.399776
6	.154776	.059543	.303528	.506612
7	.167244	.066437	.271772	.534712
8	.173130	.058850	.205187	.413956
9-11	.152788	.049998	.177880	.317022
12-14	.088972	.024787	.115111	.198902
15-21	.059756	.034493	.097929	.113379
22-30	.048460	.038285	.113736	.090386

RUN NO. 47 40M 10-25-61 1215-1331 EST

GROSS STATISTICS

CLEAR WIND SPEED 6.68 M/SEC WIND DIRECTION 214 DEG
 NEUTRAL/UNSTABLE SIGMA A 5.2 DEG SOLAR RADIATION 0.84
 WATER-LAND SIGMA E 4.1 DEG NET RADIATION 0.47

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.36274E-00	0.21364E-00	0.15907E-00	0.13357E-00
V	0.35721E-00	0.20450E-00	0.14837E-00	0.11699E-00
W	0.22788E-00	0.20743E-00	0.15544E-00	0.11066E-00
T	0.24404E-01	0.83986E-02	0.51780E-02	0.60190E-02
E	0.47392E-00	0.31280E-00	0.23145E-00	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
GUSTINESS RATIOS				
U	0.09016	0.06919	0.05971	0.05471
V	0.08947	0.06770	0.05766	0.05120
W	0.07146	0.06818	0.05902	0.04980

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
COVARIANCES				
U,V	-0.72049E-01	0.86714E-02	0.49841E-02	0.10039E-01
U,W	-0.46397E-01	-0.56139E-01	-0.32875E-01	-0.49467E-01
U,T	-0.96981E-02	-0.19323E-01	-0.10166E-01	-0.16114E-01
V,W	-0.76897E-01	-0.48385E-01	-0.43844E-01	-0.21808E-01
V,T	-0.15302E-02	-0.97447E-02	-0.65332E-02	-0.65023E-02
W,T	0.31039E-01	0.22137E-01	0.14426E-01	0.15690E-01
WE	0.42302E-01	0.28719E-01	0.16827E-01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
NORMALIZED COVARIANCES				
U,V	-0.20015	0.04149	0.03244	0.08031
U,W	-0.15138	-0.26668	-0.20906	-0.40687
U,T	-0.10308	-0.45617	-0.35423	-0.56832
V,W	-0.26952	-0.23493	-0.28870	-0.19166
V,T	-0.01639	-0.23514	-0.23570	-0.24503
W,T	0.41622	0.53038	0.50849	0.60792

RUN NO. 47 40M 10-25-61 1215-1331 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.15365 10E 00	0.15728 10E 00	0.28701 10E-01	0.15188 10E 00	0.27715 10E-01	0.28369 10E-01
0	.032562	-.209251	-.354252	-.288738	-.235755	.508448
1	.041412	-.209578	-.330642	-.253160	-.201460	.446974
2	.049699	-.192627	-.286271	-.189233	-.155613	.347056
3	.049644	-.159773	-.238560	-.126767	-.113855	.259492
4	.043218	-.122055	-.192906	-.070638	-.082294	.190401
5	.035256	-.100041	-.157524	-.019801	-.050806	.130953
6	.021753	-.077160	-.125681	.015349	-.021723	.086595
7	.008745	-.059085	-.099009	.032320	.006772	.054926
8	.000906	-.038641	-.073281	.039411	.034903	.030032
9	-.016058	-.021810	-.047248	.041272	.054161	.012157
10	-.037425	-.008078	-.021455	.038766	.066141	.003123
11	-.057641	.001007	.001074	.037167	.065519	-.004558
12	-.064660	.012239	.019938	.036292	.058915	-.015637
13	-.067564	.028956	.035726	.035080	.055834	-.028412
14	-.065166	.046553	.050356	.036345	.058222	-.041067
15	-.057630	.049349	.058555	.037867	.064332	-.055009
16	-.044511	.044559	.063912	.047052	.069431	-.074971
17	-.031597	.040824	.071542	.055690	.070150	-.093640
18	-.020445	.036846	.081681	.058475	.063179	-.100459
19	-.012297	.039342	.090294	.057200	.056360	-.103401
20	-.005660	.043198	.094780	.051595	.042648	-.099630
21	-.000412	.046328	.100858	.049758	.028744	-.097379
22	.003422	.050537	.105224	.045655	.022777	-.095192
23	.010314	.056987	.107708	.043374	.020260	-.091589
24	.011331	.068156	.107256	.046433	.010235	-.088555
25	.011540	.068213	.100177	.048530	.003707	-.087003
26	.011846	.060570	.089378	.044785	-.003537	-.078468
27	.016680	.053484	.082159	.037083	-.012278	-.071368
28	.022296	.045593	.069746	.022508	-.023915	-.067398
29	.026444	.037152	.051906	.008605	-.037057	-.066589
30	.030820	.027078	.039255	-.002378	-.037325	-.063211
31	.035016	.024176	.033357	-.012427	-.034940	-.050550
32	.044263	.027983	.029095	-.023614	-.042356	-.043393
33	.049824	.028277	.023287	-.033886	-.052073	-.033811
34	.049758	.024144	.021782	-.040484	-.057936	-.021135
35	.045415	.014071	.014897	-.036794	-.053430	-.018188
36	.037196	-.000741	.007580	-.025217	-.041215	-.017499
37	.024003	-.012196	.005271	-.010497	-.031970	-.012306
38	.010165	-.015768	.009788	-.003613	-.025402	-.008011
39	-.000192	-.013000	.018163	-.001712	-.014994	-.005484
40	-.005269	-.010690	.025959	-.004127	-.009255	-.007679
41	-.005288	-.009608	.026889	-.011849	.003641	-.009823
42	-.005496	-.007292	.019108	-.016320	.015937	-.013770
43	-.013293	-.004833	.007211	-.025079	.027939	-.014838
44	-.025892	-.003060	-.000989	-.035015	.035670	-.013959
45	-.034388	-.007751	-.001072	-.034889	.039515	-.015239
46	-.039552	-.013994	-.003702	-.019794	.048666	-.021061
47	-.043117	-.010874	-.004231	-.003941	.059658	-.028249
48	-.046719	-.001796	-.002040	.007632	.071317	-.030066
49	-.046745	.004026	-.002524	.018164	.070661	-.034249
50	-.045823	.007357	-.006286	.029574	.069268	-.040264
51	-.049722	.009996	-.010046	.047960	.067347	-.045072
52	-.051066	.015122	-.011779	.066499	.064006	-.049477
53	-.045563	.021357	-.011011	.069985	.059047	-.045824
54	-.036634	.020356	-.005862	.068331	.049887	-.034567
55	-.027346	.018076	-.001115	.057985	.038141	-.022632
56	-.025047	.017790	.000527	.035460	.028516	-.012426
57	-.020633	.017665	.003249	.018801	.021726	-.007178
58	-.016295	.019815	.004727	.009558	.016538	-.003361
59	-.008392	.023684	.005055	.008512	.010025	-.001090
60	.001114	.026267	.008392	.010103	-.006138	-.007027

RUN NO. 47 40M 10-25-61 1215-1331 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.15365 10E 00	0.15728 10E 00	0.28701 10E-01	0.15188 10E 00	0.27715 10E-01	0.28369 10E-01
1	.038367	-.021948	-.027141	-.000594	-.002370	-.010009
2	.064644	-.034011	-.044296	.005090	-.005197	-.007062
3	.079426	-.042732	-.050561	.002987	-.010923	-.002561
4	.084845	-.050185	-.053453	.001431	-.019117	.000365
5	.085242	-.057754	-.056661	-.002349	-.021093	.002260
6	.082863	-.068190	-.064521	-.011577	-.020525	.001387
7	.081091	-.073771	-.072044	-.016955	-.016199	.001839
8	.087743	-.068211	-.075118	-.021361	-.011585	.001348
9	.094738	-.062781	-.069615	-.027325	-.011425	-.002583
10	.092072	-.059518	-.059366	-.032722	-.015692	-.006837
11	.085554	-.053707	-.048628	-.031419	-.015073	-.009153
12	.074087	-.046843	-.042837	-.021383	-.012078	-.015280
13	.064412	-.048537	-.041505	-.017923	-.011515	-.018126
14	.058334	-.051505	-.039259	-.015292	-.008107	-.014121
15	.046621	-.054365	-.037796	-.007293	-.005667	-.003757
16	.031434	-.051458	-.033683	.001967	-.004831	.006337
17	.014057	-.050622	-.024004	.007681	-.006041	.014816
18	-.000301	-.047827	-.014405	.010427	-.004703	.016591
19	-.005925	-.041483	.001156	.012937	.005103	.007867
20	-.006196	-.030610	.015674	.015999	.014644	-.006384
21	-.005922	-.016668	.023941	-.011685	.020117	-.019650
22	-.006721	-.006823	.028742	.009067	.024854	-.028098
23	-.003400	.002434	.032517	.006726	.026258	-.032313
24	.001940	.010156	.034154	.003902	.024828	-.028336
25	.007067	.011975	.031274	.006516	.022538	-.016946
26	.007488	.005205	.027352	.008490	.019425	-.005321
27	.007381	-.001621	.023025	.016114	.019362	-.001683
28	.004619	-.004807	.019099	.025130	.021672	-.004445
29	.003372	-.008022	.014654	.028872	.019387	-.004306
30	.005031	-.009797	.006477	.031673	.019011	-.001518
31	.003841	-.011126	-.000762	.033938	.023868	-.002599
32	-.001418	-.004803	-.005912	.030522	.024722	-.000892
33	-.016929	.002186	-.005261	.018483	.022241	.001917
34	-.032879	.004453	-.000507	.006158	.011245	.005198
35	-.044764	.007828	-.000279	-.003657	-.001494	.003964
36	-.053817	.009684	-.000910	-.012599	-.014849	.006221
37	-.055550	.013671	-.005938	-.024034	-.031618	.011526
38	-.050570	.019825	-.012695	-.029743	-.041145	.014137
39	-.044335	.024099	-.018327	-.032156	-.048696	.015024
40	-.041142	.018341	-.021169	-.028815	-.058804	.008340
41	-.034229	.009065	-.025746	-.027498	-.066586	-.000213
42	-.030429	-.002665	-.031964	-.026121	-.072614	-.002621
43	-.025057	-.008496	-.038027	-.021325	-.066993	.004527
44	-.015407	-.015294	-.041080	-.012951	-.055095	.011370
45	-.008514	-.018502	-.040797	-.016629	-.046799	.015440
46	-.002414	-.019926	-.032984	-.016729	-.040696	.018421
47	.004465	-.013285	-.022524	-.010204	-.033423	.025933
48	.001503	-.004138	-.014830	-.000341	-.022364	.030907
49	.001106	-.003086	-.009346	.008597	-.013844	.033132
50	.009681	-.004878	-.005699	.011197	-.003626	.035039
51	.019279	-.003729	-.000164	.013733	.004475	.036493
52	.023799	-.002589	.004174	.014254	.012938	.029737
53	.026476	-.005808	.001652	.011853	.021027	.026574
54	.028413	-.005649	-.001045	.007791	.024490	.018622
55	.025618	.002599	-.000619	.012651	.031682	.015463
56	.019524	.010833	.003089	.020400	.041650	.011742
57	.015981	.015566	.007312	.027909	.047411	.006211
58	.011649	.015191	.006955	.023755	.044594	-.007917
59	.006421	.018179	.003996	.017086	.039953	-.020447
60	.006892	.022350	.001313	.011762	.034273	-.018527

RUN NO. 47 40M 10-25-61 1215-1331 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.15912 10E 00	0.14838 10E 00	0.15546 10E 00	0.51769 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.828833	.805591	.770255	.840568
2	.610559	.563861	.499035	.647861
3	.439873	.372344	.300065	.501374
4	.309560	.232155	.162027	.392241
5	.211257	.129183	.062958	.304924
6	.135922	.048531	-.001473	.231853
7	.081691	-.011813	-.033884	.163256
8	.038915	-.065717	-.042808	.103040
9	-.011676	-.115427	-.048169	.051949
10	-.057487	-.146686	-.048054	.003575
11	-.089119	-.154804	-.049420	-.035373
12	-.116956	-.152698	-.052178	-.074124
13	-.140650	-.144754	-.058482	-.106784
14	-.152230	-.147717	-.068810	-.135205
15	-.166038	-.149329	-.073106	-.167958
16	-.180173	-.153244	-.074495	-.190460
17	-.190469	-.157416	-.077295	-.204106
18	-.193650	-.156913	-.083447	-.215504
19	-.194347	-.156460	-.094247	-.229350
20	-.185781	-.145321	-.103768	-.236321
21	-.184067	-.141560	-.113466	-.240192
22	-.187624	-.145016	-.124325	-.234150
23	-.192663	-.143470	-.122789	-.225820
24	-.195569	-.133574	-.130699	-.208238
25	-.181936	-.118306	-.130828	-.187522
26	-.160590	-.095713	-.122648	-.170136
27	-.141191	-.072142	-.112845	-.149237
28	-.118700	-.056177	-.106262	-.127262
29	-.091798	-.041369	-.101410	-.110117
30	-.069335	-.027341	-.079305	-.096088
31	-.055161	-.005295	-.045630	-.074899
32	-.040851	.013329	-.026092	-.061895
33	-.024105	.029628	-.011025	-.042858
34	-.010375	.039258	.012820	-.022277
35	.009917	.035032	.020949	-.005096
36	.027050	.026239	.014736	.002882
37	.050984	.016455	.006921	.002056
38	.066983	.013563	-.001031	.004240
39	.069543	.015869	.001475	.001961
40	.064030	.032326	-.002263	.000496
41	.057421	.038927	-.019635	-.011422
42	.046924	.027748	-.025706	-.024012
43	.038961	.003964	-.023663	-.033711
44	.028351	-.013589	-.021859	-.037733
45	.011115	-.026463	-.017833	-.044255
46	-.002001	-.038749	-.027214	-.045277
47	-.008065	-.045592	-.025920	-.048098
48	-.015204	-.049841	-.025932	-.047303
49	-.016012	-.047516	-.033806	-.046351
50	-.016720	-.048121	-.053098	-.050776
51	-.012096	-.053378	-.068183	-.058379
52	-.001141	-.058867	-.069868	-.067669
53	-.002388	-.057375	-.065327	-.057594
54	-.008469	-.050902	-.048308	-.036813
55	-.013456	-.041918	-.018621	-.019457
56	-.023050	-.030605	.005704	-.008416
57	-.030015	-.014983	.020444	-.002859
58	-.029573	-.003188	.021181	.000963
59	-.027524	.001025	.006410	.009657
60	-.025327	.007321	-.007589	.013452

RUN NO. 47 40M 10-25-61 1215-1331 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-02	10E-02
0	-.000285	-.117240	-.030951	-.032279	-.007179	.031930
1	-.027613	-.676169	-.198198	-.261800	-.036729	.212447
2	-.005126	-.695741	-.206800	-.408387	-.044406	.216493
3	.223491	-.693842	-.201169	-.617866	-.101206	.216233
4	.363099	-.428988	-.127463	-.516206	-.119561	.151993
5	.208689	-.258964	-.064324	-.339567	-.071260	.095881
6	.107944	-.227756	-.043286	-.325241	-.050119	.080520
7-8	-.006515	-.129433	-.040094	-.345298	-.038483	.068799
9-11	-.066456	-.044934	-.016037	-.220912	-.020609	.053855
12-15	-.000875	-.041836	-.017979	-.079037	-.003714	.022262
16-20	-.015685	-.007932	-.005973	-.033941	-.009165	.013963
21-27	-.009340	.008457	-.001779	-.020095	-.003705	.008010
28-36	-.005827	.008861	-.001129	-.014007	-.002551	.004514
37-47	-.001385	.000594	-.000851	-.004276	-.001126	.001734
48-60	-.001875	.002520	-.000297	-.002813	-.001264	.001130

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-02	10E-03	10E-03
1	.272398	-.381826	-.354840	.007189	-.006627	-.109414
2	.421053	-.368763	-.389420	-.028303	.043465	-.114706
3	.449029	-.347446	-.681559	-.134197	-.261266	.015396
4	.320402	-.209430	-.641280	-.121432	-.277964	.045040
5	.293712	-.106239	-.284130	.007571	.038692	-.017094
6	.173856	-.046945	-.087145	.010417	-.011769	-.058577
7-8	-.002148	-.051111	-.056827	.042941	-.016223	.040114
9-11	.056854	-.022404	-.063498	.030980	-.038291	.006941
12-15	.041736	.006211	.000326	.003437	.006573	-.039911
16-20	.023398	-.011468	-.057419	-.002068	.028541	-.017047
21-27	-.002007	-.009450	-.007410	-.003066	-.000952	-.014897
28-36	.003462	.001086	-.003312	.000499	-.001807	-.006324
37-47	.000641	-.003384	-.000196	-.005466	-.002951	-.006847
48-60	-.000083	-.000693	.001163	-.000983	.001698	-.000212

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-03
0	.021884	.011570	.019097	.098475
1	.159565	.102917	.133303	.717149
2	.203726	.140162	.144855	.797070
3	.241560	.188450	.157142	.849845
4	.174857	.166593	.120985	.598106
5	.110406	.119188	.090619	.326494
6	.097151	.104588	.098845	.240740
7-8	.074168	.088612	.095188	.200588
9-11	.048065	.051120	.066700	.135255
12-15	.033165	.030700	.042096	.087166
16-20	.020525	.022823	.023308	.058423
21-27	.011099	.011702	.015697	.036898
28-36	.007625	.007825	.010032	.021807
37-47	.004479	.004686	.006172	.014292
48-60	.002875	.003319	.004235	.009599

RUN NO. 47 40M 10-25-61 1215-1331 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12501 10E 00	0.12160 10E 00	0.28351 10E-01	0.11380 10E 00	0.26534 10E-01	0.25810 10E-01
0	.080306	-.406804	-.568395	-.191623	-.245060	.607885
1	.003696	-.237702	-.371179	-.028337	-.084441	.337572
2	.048804	-.115957	-.193574	.018031	-.081366	.136224
3	.108553	-.026457	-.111660	-.002333	-.113929	.044586
4	.061472	.022080	-.028695	.025652	-.036155	-.084699
5	.043708	.092713	.006268	.077455	.025025	-.157501
6	.071078	.124277	.051484	.046251	.002500	-.137513
7	.122964	.113267	.061599	-.017618	-.035161	-.104649
8	-.000992	.136718	.109898	.032897	.051726	-.149721
9	-.066494	.092439	.092584	.087423	.096334	-.112016
10	-.064322	.072128	.090674	.013920	.018903	-.084910
11	-.062544	.050746	.133867	.013289	.076442	-.137026
12	-.048479	.056289	.153424	-.024277	.052468	-.134842
13	-.037977	.024225	.160208	-.093950	-.004749	-.082248
14	-.062843	.024041	.157603	-.103749	.004418	-.032190
15	-.094253	-.001469	.118206	-.063327	.049422	.008546
16	-.096019	-.030676	.070601	-.115111	.020418	.088314
17	-.119835	-.078131	-.002694	-.085109	.059261	.097423
18	-.097380	-.038259	-.004908	-.011008	.066167	.099517
19	-.035180	-.048989	-.008753	-.007761	.012033	.134414
20	-.063043	-.023614	.030626	.036311	.021823	.074552
21	-.001651	-.051225	.012524	.047121	-.008556	.021397
22	.008739	-.013563	.035660	.046057	-.030776	.000795
23	-.012176	.018712	.007084	.047857	.015413	-.021490
24	-.019360	.004391	-.017072	.071938	.063827	-.017808
25	.017774	.000478	-.022987	.096845	.077707	-.021790
26	.005624	.018796	.006852	.068558	.056748	-.045146
27	.025043	.055429	.054535	.105696	.048857	-.101507
28	.065470	.015106	.042560	.055402	.013773	-.064640
29	.042045	-.003075	.006091	.039362	-.017688	-.027247
30	-.005978	.025609	.030252	.044021	-.054177	-.061601

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-03	10E-02
0	.015415	-.002600	-.015419	-.026306	-.103246	.001229
1	.487625	-.154581	-.204380	.027182	-.976732	.043577
2	.492302	-.428940	-.260726	.121175	-.975014	.126971
3	.147509	-.802528	-.259105	-.125188	-.69509	.242767
4	-.150462	-.769670	-.157095	-.377842	-.584422	.212287
5	-.147676	-.519259	-.096695	-.177934	-.346731	.123514
6	-.160294	-.405830	-.108568	-.006961	-.121764	.127385
7	-.152783	-.310086	-.108815	-.079797	.027244	.136600
8	.016737	-.179676	-.060658	-.173498	-.209811	.093706
9-11	.042056	-.142250	-.049281	-.103502	-.097382	.045483
12-14	-.121740	-.119899	-.038124	-.007490	.063960	.031236
15-21	.099978	-.090241	-.026048	-.131134	-.303290	.038530
22-30	.069749	-.676415	-.016238	-.089196	-.244921	.022314

RUN NO. 47 40M 10-25-61 1215-1331 EST
 301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12501 10E 00	0.12160 10E 00	0.28351 10E-01	0.11380 10E 00	0.26534 10E-01	0.25810 10E-01
1	.083221	-.096729	-.075898	-.008863	-.042235	.017194
2	.013122	-.092687	-.040790	.013697	-.074569	.046561
3	-.014184	-.042765	-.043639	-.003972	-.113424	.059159
4	-.055148	-.047903	-.069171	-.052682	-.181772	.074875
5	-.055212	-.019910	-.049362	-.010570	-.150932	.078428
6	-.080494	.031138	-.013269	-.035942	-.142933	.034027
7	-.123132	.025934	.017729	-.081132	-.160878	-.020257
8	-.087955	.020745	-.006536	-.102898	-.153379	-.023930
9	-.085467	.004648	-.007524	-.100855	-.133085	-.016385
10	-.095130	-.005534	-.027100	-.097101	-.132982	-.041114
11	-.092380	-.050493	-.067548	-.106480	-.105558	-.054931
12	-.027011	-.086859	-.055743	-.028154	-.043743	-.066082
13	-.015227	-.097419	-.046994	-.029277	-.025234	-.095789
14	.006590	-.072924	-.034976	.006297	.029080	-.084170
15	.073911	-.076688	-.024056	.000064	.057121	-.070229
16	.068818	-.055138	-.012534	.005993	.048363	-.081843
17	.017798	-.013976	.031126	.004182	.052831	-.062004
18	.071455	.005174	.037414	.043808	.068929	-.011583
19	.101468	.036455	.042504	.050839	.050786	.029298
20	.032548	.067247	.037935	.030486	.016273	.101893
21	-.015748	.102827	.065527	.036826	.017499	.157173
22	-.025630	.068065	.025407	.007884	.001875	.104792
23	-.025118	.098595	.024347	.032219	.026749	.088085
24	-.005321	.105604	.053502	.071176	.102760	.091893
25	.046028	.065976	.033079	.063666	.102825	.067183
26	-.005901	.108948	.045115	.078905	.096657	.065543
27	.048415	.059437	.012022	.022885	.080258	.060532
28	.039478	.070217	.048444	-.014955	.053596	.009246
29	.046068	.043625	.044637	.012881	.043335	-.037487
30	.017430	.010159	.032076	.029936	.055456	-.074487

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-02	10E-02	10E-03
1	-.384491	-.276073	-.557254	-.406375	-.173558	-.405813
2	-.459999	-.191351	-.569625	-.377670	-.190180	-.077134
3	-.306063	.092150	-.195071	-.131223	-.146155	.840411
4	.122631	-.026087	-.071951	.133790	-.044664	.747325
5	.256632	-.332830	-.429194	.173221	.009115	.120032
6	.114285	-.312162	-.533822	.077181	-.007785	.216132
7	.092022	-.181866	-.295296	-.019489	-.018367	.182249
8	.103889	-.105534	-.071599	-.059101	-.001776	-.081740
9-11	.095905	-.080616	.033773	.014760	.010330	-.142792
12-14	.083090	-.053447	-.116965	.031137	.007291	.025530
15-21	.064779	-.064998	-.158172	-.043510	-.008418	-.005696
22-30	.049198	.012875	-.045802	.007051	.005633	-.010159

RUN NO. 47 40M 10-25-61 1215-1331 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.13357 10E 00	0.11700 10E 00	0.11070 10E 00	0.60176 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.417209	.397574	.474471	.592197
2	.158567	.271741	.207859	.282820
3	.087544	.224148	.068426	.165654
4	-.000342	.077555	-.119782	-.005322
5	-.104523	-.039683	-.250842	-.089294
6	-.148762	-.013581	-.199225	-.081890
7	-.134666	.005739	-.165158	-.080922
8	-.115491	-.150498	-.193508	-.154972
9	-.079447	-.185681	-.132556	-.141839
10	-.076678	-.161195	-.126347	-.115362
11	-.127246	-.315045	-.176935	-.178909
12	-.125836	-.226128	-.120183	-.212406
13	-.111682	-.103071	-.133442	-.225152
14	-.160189	-.132831	-.072252	-.211336
15	-.110604	-.123113	.031959	-.169559
16	-.107215	-.060105	.153481	-.067956
17	-.074008	-.138424	.151000	-.013891
18	.007998	-.102571	.090147	.050337
19	.005532	-.060353	.080925	.070008
20	-.014914	-.038371	.029496	-.021519
21	.015817	-.111489	-.004671	-.067118
22	-.010876	-.080774	-.026921	-.058727
23	-.010878	-.080051	-.046547	-.078341
24	.016079	-.041137	.021288	-.067149
25	.022581	-.015570	-.053157	-.049664
26	.051305	.099027	-.095512	-.059971
27	-.032207	.116025	-.103216	-.102828
28	-.007079	.114045	-.042874	-.073508
29	.000272	.149899	-.086303	.001121
30	.011306	.114163	-.106336	-.022868

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-03
0	.006069	.010361	.002744	.063325
1	.093407	.136899	.040603	.673598
2	.131620	.159869	.081720	.804618
3	.140894	.146458	.144262	.843578
4	.108778	.096796	.137552	.575809
5	.096770	.051707	.089034	.377273
6	.097006	.035552	.083379	.448531
7	.078026	.046056	.091346	.438296
8	.049685	.053119	.064099	.256100
9-11	.038402	.030667	.030457	.196159
12-14	.046063	.021123	.020304	.116797
15-21	.040562	.037552	.032223	.135720
22-30	.033604	.036848	.023018	.076322

RUN NO. 47 16M 10-25-61 1215-1331 EST
 RUN NO. 47 40M 10-25-61 1215-1331 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.673031	.469449	.791386	.820767
1	.522490	.360325	.695197	.728483
2	.443946	.244310	.631258	.646053
3	.397250	.274638	.590363	.578216
4	.339123	.407716	.561708	.547566
5	.219308	.410056	.481852	.434327
6	.078623	.345483	.466833	.209856
7-8	.090613	.326036	.525593	.108966
9-11	.143616	.234043	.398980	.183174
12-15	.104959	.099036	.299569	.124345
16-20	.098108	.067431	.148561	.063762
21-27	.103333	.136199	.084443	.097223
28-36	.078895	.055916	.083445	.101451
37-47	.090168	.086680	.105071	.137003
48-60	.079465	.089973	.091156	.103845

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.522484	.939466	.225800	.672934
1	.625403	.904191	.539578	.853173
2	.537607	.820277	.590707	.823793
3	.489861	.667659	.683589	.858743
4	.375041	.613936	.765436	.826841
5	.465166	.575796	.762322	.740204
6	.656047	.463404	.723830	.851411
7	.584622	.391684	.753422	.868226
8	.501268	.323460	.724955	.759808
9-11	.512819	.334598	.647504	.646045
12-14	.370032	.182856	.506524	.612050
15-21	.359398	.483846	.610589	.566278
22-30	.108393	.376732	.519693	.428817

RUN NO. 63A 16M 05-07-62 1037-1153 EST

GROSS STATISTICS

6 CS CU	MIND SPEED	8.08 M/SEC	MIND DIRECTION	296 DEG
UNSTABLE	SIGMA A	16.6 DEG	SOLAR RADIATION	1.37
LAND	SIGMA E	6.4 DEG	NET RADIATION	1.00

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>VARIANCES</u>				
U	0.43589E 01	0.24907E 01	0.13557E 01	0.18676E 01
V	0.57029E 01	0.28833E 01	0.15532E 01	0.21462E 01
W	0.68838E 00	0.67812E 00	0.60681E 00	0.30480E-00
T	0.24580E-00	0.17301E-00	0.97780E-01	0.12914E-00
E	0.53751E 01	0.30267E 01	0.17579E 01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>GUSTINESS RATIOS</u>				
U	0.25839	0.19532	0.14410	0.16913
V	0.29555	0.21015	0.15424	0.18131
W	0.10268	0.10192	0.09641	0.06833

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>COVARIANCES</u>				
U,V	-0.16982E 01	-0.58283E 00	-0.10479E-00	-0.56372E 00
U,W	-0.53935E 00	-0.43893E-00	-0.34828E-00	-0.30912E-00
U,T	-0.38169E-00	-0.31688E-00	-0.14828E-00	-0.26337E-00
V,W	0.95808E-01	0.10892E-00	-0.40958E-01	0.10823E-00
V,T	0.10230E-00	0.13578E-00	0.91485E-02	0.14015E-00
W,T	0.17085E-00	0.15639E-00	0.10863E-00	0.10967E-00
WE	-0.99926E-01	0.20577E-00	0.80330E-01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>NORMALIZED COVARIANCES</u>				
U,V	-0.34061	-0.21749	-0.07221	-0.28157
U,W	-0.31137	-0.33774	-0.38399	-0.40971
U,T	-0.36875	-0.48272	-0.40728	-0.53628
V,W	0.04836	0.07789	-0.04219	0.13381
V,T	0.08641	0.19224	0.02348	0.26621
W,T	0.41535	0.45657	0.44596	0.55279

RUN NO. 63A 16M 05-07-62 1037-1153 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14511 10E 01	0.90715 10E 00	0.36403 10E 00	0.97101 10E 00	0.38966 10E 00	0.24360 10E 00
0	-.072097	-.384054	-.407321	-.042332	.023594	.446101
1	-.071186	-.340109	-.369674	-.038504	.023883	.378946
2	-.073101	-.268077	-.307988	-.038330	.024603	.284915
3	-.074507	-.204885	-.245045	-.034627	.030332	.215488
4	-.070295	-.154519	-.186097	-.022660	.031282	.166320
5	-.059897	-.115019	-.140278	-.011589	.033638	.131569
6	-.056089	-.079705	-.107027	.000604	.041144	.096541
7	-.054907	-.049676	-.076752	.012073	.045296	.067387
8	-.048222	-.020341	-.044392	.015131	.041590	.037160
9	-.038796	.010426	-.013249	.019190	.029204	.010418
10	-.021900	.026355	.009896	.008441	.003631	-.011005
11	-.003745	.031917	.021747	-.001370	-.015087	-.022758
12	.014293	.039603	.032813	-.008647	-.029995	-.035043
13	.030618	.057839	.048767	-.018977	-.041513	-.047601
14	.045248	.080090	.064903	-.024392	-.048278	-.059425
15	.055606	.095163	.078942	-.028567	-.059116	-.074229
16	.057313	.103376	.090607	-.01987	-.067732	-.085083
17	.054704	.113735	.104855	-.02231	-.070057	-.091899
18	.051769	.120287	.120519	-.024840	-.070256	-.100074
19	.047420	.126707	.135992	-.017632	-.070114	-.114226
20	.041470	.130361	.143263	-.005328	-.067727	-.122840
21	.037319	.134188	.148893	.005986	-.063827	-.125157
22	.037950	.136612	.150661	.011724	-.059964	-.128300
23	.041533	.137473	.146086	.007229	-.056865	-.135049
24	.040726	.133151	.143423	.005101	-.048409	-.137268
25	.032729	.122569	.130216	.013560	-.035004	-.137430
26	.022639	.103550	.107756	.016323	-.020703	-.127104
27	.013326	.079568	.082662	.026626	-.003285	-.097994
28	.010351	.055485	.060483	.038589	.013660	-.070081
29	.012575	.043646	.046604	.038289	.025168	-.055062
30	.011325	.031182	.031995	.034947	.032701	-.053571
31	.008398	.019309	.014780	.035480	.039838	-.050548
32	.005948	.005261	.000416	.035273	.044669	-.042628
33	.003937	-.005350	-.006220	.036242	.048271	-.024324
34	-.000674	-.013192	-.008513	.027504	.053074	-.012438
35	-.004454	-.016523	-.013593	.013250	.056679	-.002798
36	-.003791	-.021585	-.019532	.005857	.055183	.004180
37	-.003029	-.025688	-.018910	.010578	.053036	.005212
38	-.004892	-.031330	-.019782	.015686	.051932	.003061
39	-.007743	-.040013	-.023666	.017625	.050851	.008206
40	-.012289	-.048012	-.029496	.018693	.055172	.011735
41	-.017435	-.051359	-.031776	.019893	.058315	.016501
42	-.018751	-.050646	-.030588	.022813	.055578	.016070
43	-.020041	-.048400	-.035287	.028626	.058118	.010161
44	-.023654	-.054440	-.035839	.033978	.057859	.008697
45	-.020506	-.070035	-.029963	.032931	.056578	.007372
46	-.020284	-.070330	-.021319	.037548	.055964	-.001677
47	-.016102	-.061891	-.016472	.033380	.049153	-.005306
48	-.006327	-.054374	-.012153	.020647	.032543	-.009985
49	-.002491	-.047978	-.005493	.008943	.019846	-.002287
50	.001107	-.042669	.000558	.007724	.013746	.010345
51	.000153	-.034518	.006784	.013132	.013608	.021022
52	.000934	-.025427	.010152	.001325	.007012	.028963
53	.006530	-.011201	.016055	-.014154	-.005245	.028799
54	.018836	-.001097	.018213	-.030193	-.015009	.020095
55	.029207	-.001214	.016015	-.043251	-.025809	.013585
56	.034488	.000987	.015405	-.048601	-.035295	.009189
57	.032716	.008780	.017584	-.046262	-.037165	.008845
58	.026126	.012603	.021651	-.034489	-.029099	.014761
59	.020176	.024585	.024826	-.023520	-.019100	.007867
60	.013764	.035490	.026656	-.018398	-.015621	-.001269

RUN NO. 63A 16M 05-07-62 1037-1153 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14511 10E 01	0.90715 10E 00	0.36403 10E 00	0.97101 10E 00	0.38966 10E 00	0.24360 10E 00
1	.010025	-.052759	-.052589	.018447	.000228	.019183
2	.016759	-.091846	-.087977	.031888	.009790	.034496
3	.011633	-.102617	-.109878	.035957	.018519	.043755
4	.002681	-.093589	-.122934	.029963	.024101	.045005
5	-.009570	-.078835	-.126904	.015385	.023787	.048251
6	-.015600	-.063453	-.127760	.004249	.015467	.051500
7	-.018121	-.056060	-.124521	.001514	.010220	.055820
8	-.021179	-.054741	-.120660	-.000517	.011754	.065311
9	-.024830	-.052464	-.117011	-.001229	.015967	.067389
10	-.028505	-.042590	-.111439	.000570	.018551	.060043
11	-.029094	-.036233	-.111125	.006926	.018842	.051762
12	-.032551	-.043425	-.115049	.002258	.015704	.049048
13	-.034431	-.048078	-.114620	-.012271	.007558	.047448
14	-.037230	-.044299	-.106019	-.020819	.002424	.040345
15	-.039925	-.034272	-.093377	-.026185	.000764	.034525
16	-.045603	-.025778	-.078479	-.037599	-.002038	.035227
17	-.049785	-.018191	-.065059	-.041483	-.005037	.034326
18	-.052567	-.010182	-.057192	-.042888	-.010261	.033821
19	-.052313	-.000495	-.047514	-.037337	-.013306	.025975
20	-.052348	.007704	-.044119	-.022353	-.010538	.016953
21	-.052698	.008029	-.038376	-.006023	-.008821	.012005
22	-.048775	.010576	-.030908	.001852	-.010349	.009626
23	-.045200	.022056	-.020335	-.002258	-.014109	.011218
24	-.038171	.031572	-.005478	-.011696	-.017675	.013551
25	-.030448	.034999	.005489	-.011010	-.016970	.011230
26	-.021090	.038369	.011353	-.004525	-.010355	.004631
27	-.011862	.041172	.015068	.000418	-.004638	.000866
28	-.004782	.040770	.017254	.001918	-.000027	.003022
29	.004611	.033363	.019302	-.001189	.001984	.007388
30	.016272	.025919	.016680	-.005235	.008813	.008027
31	.023545	.020042	.014135	-.002514	.016192	.002168
32	.028029	.017935	.014374	-.000205	.013899	-.005835
33	.030620	.024441	.013838	.002696	.008836	-.007106
34	.028384	.023949	.008252	.003330	.001650	-.010174
35	.026670	.020802	.001206	.000473	-.001861	-.021139
36	.024876	.016992	.000258	-.001543	-.000805	-.030711
37	.023230	.012909	-.000635	-.004081	.003132	-.028646
38	.024347	.013702	.002083	-.000648	.006607	-.020707
39	.027715	.014048	.005937	.010329	.012290	-.014553
40	.031049	.013631	.011916	.015770	.014489	-.010550
41	.034984	.005198	.019062	.020822	.018223	-.008091
42	.038024	-.002203	.021522	.024004	.021366	-.008115
43	.036036	-.012105	.017624	.034574	.022907	-.005208
44	.036525	-.014593	.014286	.039064	.021146	-.002979
45	.039408	-.013532	.011258	.037880	.015887	.000315
46	.039189	-.010285	.008473	.031412	.006235	.003449
47	.033834	-.011014	.011625	.024178	-.002149	.003923
48	.022614	-.012583	.015444	.017116	-.005529	-.000040
49	.016516	-.016592	.012407	.009723	-.006348	-.002752
50	.012583	-.019227	.009234	.005904	-.007772	.001446
51	.011380	-.023359	.005832	.002446	-.009056	.006781
52	.008596	-.020095	.003089	.000515	-.009362	.003800
53	.010896	-.019974	.000225	-.007094	-.011130	-.004282
54	.015289	-.024226	-.003160	-.010113	-.007861	-.017895
55	.023845	-.028782	-.007251	-.008648	-.002202	-.030808
56	.037639	-.042086	-.018975	-.005595	.001372	-.037299
57	.046511	-.047413	-.029075	.001075	.004594	-.033219
58	.050252	-.046477	-.031859	.003277	.009425	-.024775
59	.052134	-.043059	-.031721	.002672	.008988	-.018665
60	.048048	-.038682	-.022658	.003561	.010533	-.016363

RUN NO. 63A 16M 05-07-62 1037-1153 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.13556 10E 01	0.15532 10E 01	0.60704 10E 00	0.97755 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.842943	.829819	.707275	.839967
2	.650072	.628483	.420494	.634665
3	.497917	.487414	.246923	.496589
4	.368628	.385434	.142058	.377487
5	.269124	.313770	.086812	.322309
6	.189283	.256630	.060400	.260918
7	.115526	.208857	.036373	.194976
8	.044346	.161665	.003462	.129623
9	-.013979	.113086	-.025533	.069507
10	-.056378	.062811	-.043546	.019158
11	-.090465	.013539	-.053155	-.019148
12	-.111537	-.037554	-.065338	-.055544
13	-.135108	-.091288	-.089629	-.091286
14	-.158821	-.143833	-.109819	-.122463
15	-.180536	-.169524	-.128003	-.156629
16	-.203577	-.182535	-.142688	-.186416
17	-.224171	-.199504	-.143372	-.206632
18	-.239290	-.217082	-.151890	-.218760
19	-.245540	-.231827	-.164871	-.232914
20	-.242593	-.238226	-.163899	-.244031
21	-.245964	-.243897	-.164220	-.255496
22	-.246516	-.243349	-.161493	-.263758
23	-.243570	-.240936	-.174744	-.262967
24	-.228793	-.242891	-.188520	-.256047
25	-.204393	-.241825	-.195354	-.249454
26	-.176017	-.234477	-.187206	-.236250
27	-.147770	-.228917	-.155780	-.210538
28	-.117531	-.229153	-.132529	-.178987
29	-.090894	-.228382	-.110624	-.150667
30	-.072348	-.208806	-.104378	-.133233
31	-.048600	-.182530	-.093567	-.110398
32	-.031867	-.163717	-.062536	-.089292
33	-.027748	-.148910	-.018956	-.078468
34	-.022596	-.135482	.012193	-.072976
35	-.019564	-.125836	.020018	-.062399
36	-.016177	-.108047	.025546	-.050565
37	-.015664	-.079096	.037416	-.041023
38	-.009768	-.056059	.055826	-.030825
39	-.007483	-.036765	.063045	-.023082
40	-.011977	-.030621	.063899	-.018530
41	-.010003	-.025915	.059498	-.019290
42	-.008767	-.014859	.052849	-.018489
43	-.004196	.001308	.044616	-.019595
44	.006224	.025051	.050207	-.014062
45	.023327	.039729	.055432	-.009103
46	.040129	.045148	.039629	-.017344
47	.059088	.049807	.024334	-.029260
48	.069417	.053593	.027266	-.027547
49	.066783	.058237	.045396	-.021368
50	.060497	.064887	.064034	-.017344
51	.054719	.067242	.068856	-.014612
52	.048369	.083254	.063134	-.007792
53	.039467	.095331	.062928	.001362
54	.026982	.093206	.043849	.003779
55	.023258	.087470	.028245	.006787
56	.021052	.082655	.017663	.006144
57	.007929	.084910	.017314	.000583
58	-.005614	.084493	.026947	.000822
59	-.012623	.074604	.018379	.006909
60	-.011457	.059892	.010987	.007124

RUN NO. 63A 16M 05-07-72 1037-1153 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-01
0	-.030076	-.021812	-.022956	-.004193	-.002755	.010549
1	-.231155	-.307169	-.192294	-.125061	-.033809	.129779
2	-.330104	-.570329	-.264818	-.096346	.033598	.177686
3	-.400739	-.721470	-.310320	-.003101	.113718	.190339
4	-.247068	-.448283	-.194126	.022988	.067864	.117043
5	-.082340	-.215749	-.082368	-.020433	-.009106	.058662
6	.020930	-.162482	-.061318	-.083463	-.034804	.052070
7-8	.067980	-.174768	-.075069	-.070266	-.021322	.051744
9-11	.018281	-.094106	-.035407	-.020871	-.012435	.026637
12-15	-.015369	-.049199	-.019447	.011507	.004334	.018100
16-20	.008721	-.038709	-.012808	.002224	.002385	.014491
21-27	.005613	-.016328	-.003428	.001659	-.001811	.008411
28-36	-.004292	-.010837	-.002871	.000276	.000662	.004514
37-47	-.000269	-.004634	-.001970	-.002306	.000504	.002260
48-60	-.000961	-.002236	-.000956	-.000436	-.000349	.001368

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
1	-.253122	-.046432	-.154018	-.608135	.072977	.486676
2	-.296021	-.145722	-.163145	-.624530	.038599	.520548
3	-.120475	-.242123	-.159400	.048280	.192952	.465005
4	.096335	-.184869	-.105774	.592411	.309336	.268133
5	.094317	-.099238	-.053659	.715728	.187573	.184889
6	.019211	-.069380	-.029361	.792272	.065823	.130593
7-8	.000099	-.081523	-.030634	.168854	-.006653	.029210
9-11	.035545	-.074884	-.019867	.183164	.029902	.016542
12-15	.024334	-.040870	-.008707	.374154	.043639	.023465
16-20	.015440	-.023692	-.003440	.047840	-.030432	.025970
21-27	.001623	.001927	-.001258	-.014258	-.027060	-.003613
28-36	-.001754	-.001991	-.001264	-.003281	-.000678	.003002
37-47	-.000627	.001731	-.000470	-.003231	-.009780	-.001705
48-60	-.001701	.000121	.000099	-.000200	-.000309	.001403

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.015625	.022744	.022911	.015275
1	.148774	.231249	.373153	.141069
2	.198917	.279281	.616834	.165654
3	.224817	.253248	.719385	.163779
4	.163299	.145641	.457107	.103424
5	.098319	.091314	.290074	.055469
6	.068498	.067101	.310355	.042128
7-8	.064780	.045243	.277725	.037182
9-11	.036565	.039999	.219579	.022763
12-15	.021236	.031515	.165127	.016239
16-20	.015843	.017847	.124850	.012919
21-27	.008337	.011844	.077352	.007471
28-36	.005558	.007563	.052728	.004499
37-47	.004024	.004915	.036058	.002742
48-60	.002381	.002941	.025557	.001369

RUN NO. 63A 16M 05-07-62 1037-1153 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20032 10E 01	0.75465 10E 00	0.49107 10E 00	0.00893 10E 00	0.52639 10E 00	0.19830 10E 00
0	-.281411	-.409621	-.536311	.133792	.266240	.553039
1	-.239193	-.174651	-.377189	.166960	.248158	.274826
2	-.186079	-.035580	-.229693	.165460	.203419	.089534
3	-.140740	-.043357	-.196931	.160470	.218530	.058105
4	-.106382	-.059920	-.149745	.132639	.194001	.021946
5	-.048119	-.020520	-.067514	.057625	.106661	.012780
6	.000643	.038712	-.012341	-.018134	.016312	.015837
7	.021375	.044489	.010223	-.071478	-.056272	.003187
8	.054301	.074785	.072424	-.111812	-.116651	-.028325
9	.121284	.003539	.074397	-.126748	-.160565	-.017482
10	.169065	.055115	.129355	-.148405	-.185551	-.097448
11	.181773	.061773	.159710	-.140240	-.180464	-.134032
12	.145464	.072624	.159283	-.110737	-.136286	-.117989
13	.105260	.035514	.183424	-.112723	-.147095	-.103093
14	.072400	.070382	.199334	-.083665	-.161143	-.130060
15	.070703	.074712	.195246	-.067488	-.159564	-.151062
16	.070636	.019368	.176379	-.047934	-.155194	-.092283
17	.028891	.030850	.163007	-.007995	-.098233	-.076589
18	-.022092	.033751	.135964	.004181	-.064039	-.089076
19	.012104	.028758	.090219	-.017811	-.033265	-.068391
20	.011377	.021131	.079448	-.015336	-.006840	-.050264
21	.007910	.020632	.034955	-.003793	.026242	-.028119
22	-.002900	-.026924	-.029097	.017173	.038600	.007558
23	-.011297	-.021953	-.026695	.003589	.022238	.010936
24	-.018285	.040306	-.026233	.047071	.035538	-.012054
25	-.035109	.053356	-.031018	.110908	.078761	-.020328
26	-.021542	.023083	-.062558	.103230	.089881	.055308
27	-.033592	-.034517	-.095338	.063935	.102164	.112861
28	-.061280	-.048672	-.094675	.057243	.112752	.105133
29	-.047057	-.046772	-.062723	.046870	.092537	.096125
30	-.034996	-.009696	-.034690	.046241	.055952	.051300

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-01
0	-.010868	-.028596	-.048331	.005419	.017052	.007917
1	-.121958	-.310049	-.560898	.330773	.400676	.134796
2	-.157324	-.352868	-.615082	.542853	.549408	.156848
3	-.151787	-.325516	-.433831	.546806	.455713	.115364
4	-.072212	-.217457	-.172931	.262646	.160308	.054134
5	-.009869	-.162887	-.131204	.020559	.025057	.047011
6	.002399	-.145392	-.117458	-.086529	-.034123	.058215
7	-.012132	-.114801	-.084260	-.078530	-.080562	.064959
8	-.020883	-.094032	-.070253	-.088506	-.063271	.063973
9-11	-.007116	-.102040	-.057419	-.043715	.006989	.046753
12-14	-.005793	-.169453	-.060631	-.002400	.020659	.038579
15-21	-.003639	-.099398	-.051485	-.004409	.019440	.029633
22-30	-.001897	-.058446	-.014269	-.021237	-.009694	.017553

RUN NO. 63A 16M 05-07-62 1037-1153 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20032 10E 01	0.75465 10E 00	0.49107 10E 00	0.80893 10E 00	0.52639 10E 00	0.19830 10E 00
1	-.024612	-.087289	-.142239	-.019881	.019753	.072474
2	-.036507	-.052950	-.144315	-.038409	.014707	.044079
3	-.011566	-.056814	-.148659	-.027729	.022308	.028595
4	.020383	-.090566	-.134103	.002159	.050767	-.017060
5	.003910	-.087806	-.109698	-.023099	.009471	-.016871
6	.008763	-.126126	-.089322	-.020103	.020047	-.059677
7	-.026739	-.052195	-.032795	-.028920	.003573	-.041631
8	-.046945	-.006299	-.046654	-.015567	-.010953	.005687
9	-.010929	-.045443	-.064688	.043306	.025225	.010928
10	.049671	-.060940	-.058970	.017195	.008233	.037111
11	.099937	-.055642	-.033208	-.013042	-.013516	.003267
12	.102607	-.053696	-.001888	-.012857	-.028252	-.025588
13	.097703	-.002727	.029377	.001367	-.028806	-.009038
14	.081130	.005302	.019732	.017337	-.015432	.013183
15	.051604	.001547	.027642	.030682	-.012101	-.004705
16	.034824	.011992	.048821	.025788	-.022544	-.007467
17	.015205	.071697	.048535	-.016563	-.038162	.057083
18	.002873	.063585	.041418	-.010849	-.030740	.019829
19	-.012086	.057277	.012042	.020921	-.021192	-.020546
20	-.057340	.068668	.005300	-.044042	-.056520	-.026368
21	-.097746	.071600	-.016347	-.078549	-.055214	-.012356
22	-.110144	.064090	-.082593	-.042156	-.035355	.030961
23	-.071260	.056754	-.078535	-.010140	-.037970	.064776
24	-.026420	.037738	-.051540	.011718	-.041868	.056492
25	-.010802	.004352	-.003928	-.018794	-.028881	-.006094
26	.026336	-.003296	.034322	.009285	.020116	-.002896
27	.030052	-.007017	.047059	.018177	.052183	-.025939
28	.047185	-.016225	.040726	.039803	.037384	-.048882
29	.048881	-.020898	.016444	.039738	.017947	-.050666
30	.049601	-.052561	-.042744	.020714	.025878	-.010552

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
1	.453818	-.197523	-.167308	-.338641	-.383142	-.002111
2	.190121	-.290933	-.193589	-.232790	.463658	-.070194
3	-.370560	-.214486	-.232834	-.744401	.585741	-.042122
4	-.351650	-.073397	-.149945	-.710572	.306561	.013653
5	.160657	-.086076	-.090765	-.194106	.263119	.095398
6	.198693	-.081440	-.121029	-.394201	.092966	.184196
7	.040927	-.034556	-.102223	-.253781	.125497	.269213
8	-.176221	.009537	-.076658	.206561	.178691	.394756
9-11	-.206072	.012953	-.024384	-.366485	-.102541	.121755
12-14	.019997	-.089713	-.038960	-.138448	.034937	.065238
15-21	.004372	-.032729	-.018351	.133175	.109638	.053831
22-30	-.007685	-.005367	-.012064	-.057612	-.064596	.069086

RUN NO. 63A 16M 05-07-62 1037-1153 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	G.18688 10E 01	0.21472 10E 01	0.30475 10E 00	0.12904 10E 00
0	1.000000	1.000000	1.000000	1.000000
1	.623277	.653658	.284459	.609350
2	.403653	.379368	-.002849	.308888
3	.311257	.224398	-.003303	.179341
4	.198600	.104877	.023328	.058417
5	-.117286	.070117	.018845	.000086
6	.010771	-.022695	-.034724	-.007219
7	-.040600	-.118185	-.096424	-.019991
8	-.143697	-.185353	-.146271	-.045808
9	-.164319	-.223344	-.020896	-.079699
10	-.210474	-.256765	-.189429	-.163852
11	-.258706	-.268033	-.208098	-.222197
12	-.273603	-.256269	-.140494	-.221179
13	-.252112	-.167958	-.089878	-.255723
14	-.232821	-.145854	-.081264	-.264873
15	-.239749	-.133718	-.114304	-.240369
16	-.185260	-.110575	-.032290	-.182625
17	-.191579	-.131520	-.003010	-.172902
18	-.106590	-.083073	-.054840	-.166550
19	-.035198	-.057854	-.041940	-.139908
20	-.021944	-.033459	.035558	-.092745
21	-.022432	-.019112	.055486	-.035950
22	.006643	.026236	.081072	.009688
23	-.031161	.035087	.066896	-.019283
24	-.078123	.059138	-.003746	-.053761
25	-.079752	.067449	-.052657	-.040945
26	-.033761	.062110	.040296	.031079
27	.C10218	.078755	.110065	.082350
28	.052837	.070266	.082243	.077976
29	.075419	.122684	.063146	.125787
30	.022773	.087338	.081319	.095053

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.042266	.037467	.002401	.016764
1	.343852	.313386	.147253	.197369
2	.357150	.365349	.248325	.214269
3	.299669	.353266	.276566	.163964
4	.153286	.225563	.177950	.086513
5	.085390	.133006	.117798	.073678
6	.079758	.083040	.111603	.083318
7	.060709	.079292	.124035	.081641
8	.052482	.093694	.150961	.071184
9-11	.046485	.073446	.136520	.042667
12-14	.045660	.054191	.165675	.028728
15-21	.033284	.027892	.110806	.025723
22-30	.028670	.027660	.090414	.015926

RUN NO. 63B 16M 05-07-62 1207-1323 EST

GROSS STATISTICS

6 CS CU	WIND SPEED	8.27 M/SEC	WIND DIRECTION	306 DEG
UNSTABLE	SIGMA A	15.6 DEG	SOLAR RADIATION	1.40
LAND	SIGMA E	6.2 DEG	NET RADIATION	0.98

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>VARIANCES</u>				
U	0.36651E 01	0.25079E 01	0.14275E 01	0.18214E 01
V	0.51484E 01	0.31679E 01	0.15446E 01	0.24377E 01
W	0.68268E 00	0.65065E 00	0.58712E 00	0.24029E-00
T	0.23048E-00	0.18000E-00	0.93642E-01	0.13450E-00
E	0.47481E 01	0.31636E 01	0.17796E 01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>GUSTINESS RATIOS</u>				
U	0.23149	0.19149	0.14447	0.16319
V	0.27437	0.21522	0.15028	0.18879
W	0.09991	0.09754	0.09265	0.05927

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>COVARIANCES</u>				
U,V	-0.10676E 01	-0.32804E-00	-0.10062E-00	-0.32250E-00
U,W	-0.58356E 00	-0.49851E-00	-0.32459E-00	-0.32788E-00
U,T	-0.49110E-00	-0.29145E-00	-0.15141E-00	-0.23243E-00
V,W	0.15554E-00	0.70104E-01	0.36664E-01	0.59551E-01
V,T	0.12658E-00	-0.48620E-01	-0.24373E-01	-0.31334E-01
W,T	0.16767E-00	0.14764E-00	0.98217E-01	0.92672E-01
WE	0.35226E-00	0.13332E-00	0.77954E-01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>NORMALIZED COVARIANCES</u>				
U,V	-0.24578	-0.11638	-0.06776	-0.15305
U,W	-0.35892	-0.39025	-0.35455	-0.49562
U,T	-0.53433	-0.43378	-0.41412	-0.46961
V,W	0.08297	0.04883	0.03850	0.07781
V,T	0.11620	-0.06439	-0.06408	-0.05472
W,T	0.42252	0.43140	0.41888	0.51548

RUN NO. 638 16M 05-07-62 1207-1323 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14848 10E 01	0.91538 10E 00	0.36552 10E 00	0.95237 10E 00	0.38029 10E 00	0.23444 10E 00
0	-.067711	-.354497	-.414022	.038419	-.063916	.419060
1	-.066888	-.300775	-.380051	.035275	-.056886	.441777
2	-.062949	-.216335	-.322319	.020626	-.043541	.239776
3	-.056866	-.154014	-.269670	.004829	-.032134	.164129
4	-.046862	-.119157	-.230722	.002413	-.023206	.118869
5	-.037882	-.086195	-.193292	.000592	-.013449	.092252
6	-.027422	-.058462	-.151107	.006285	-.006390	.081011
7	-.015216	-.040802	-.109176	.007385	.000138	.071383
8	-.010954	-.025255	-.070724	.008762	.007101	.057630
9	-.002535	-.008455	-.040727	.007271	.003754	.041493
10	.008496	.005262	-.018071	.001180	-.001345	.027234
11	.015081	.025381	.003046	-.005216	-.000279	.010902
12	.021292	.042109	.020948	-.003000	.004591	-.009252
13	.026850	.059388	.046235	-.003831	.010155	-.032113
14	.028624	.074811	.072776	-.024495	.016329	-.051684
15	.031107	.080999	.096758	-.040713	.016972	-.063547
16	.041491	.079750	.117355	-.045736	.012307	-.072027
17	.051938	.079858	.130161	-.045194	.009641	-.081876
18	.057081	.085838	.139994	-.035301	.013419	-.081894
19	.054163	.096190	.153970	-.021207	.023372	-.088676
20	.049662	.094963	.164725	-.012079	.030593	-.092858
21	.047102	.085466	.168486	.000470	.033401	-.088716
22	.043807	.072931	.164174	.003665	.026809	-.087986
23	.046415	.065215	.153973	.002185	.016346	-.100284
24	.055149	.059670	.140986	-.002562	.007866	-.103432
25	.061262	.062303	.131157	-.010151	.005725	-.105707
26	.057054	.068665	.120524	-.006136	.010517	-.098835
27	.051851	.072377	.110821	-.004285	.018724	-.085328
28	.050003	.066788	.098276	-.003515	.020750	-.079530
29	.049185	.061251	.079356	-.003285	.014451	-.079998
30	.046012	.054912	.063053	-.004130	.001472	-.071919
31	.032440	.038872	.049257	-.001858	-.004935	-.065487
32	.015101	.016891	.038551	.003883	-.004156	-.066014
33	-.000476	.004228	.021844	.005988	-.004381	-.062600
34	-.014691	-.005981	.021756	.010791	-.004936	-.061202
35	-.028719	-.010764	.009468	.020632	-.002006	-.057648
36	-.039000	-.009242	.004426	.027218	.001416	-.050120
37	-.045326	-.005587	.003458	.028355	.005332	-.045979
38	-.050108	-.002060	.000883	.026384	.007323	-.043723
39	-.050262	-.001420	-.009085	.020260	.001071	-.034579
40	-.047764	-.007225	-.022313	.009401	-.006218	-.018287
41	-.041955	-.011215	-.034272	.003977	-.012472	-.008518
42	-.038304	-.024435	-.042990	-.000515	-.014460	.001323
43	-.038524	-.035222	-.053412	.003033	-.018330	.014968
44	-.039730	-.046212	-.060191	.009237	-.017936	.035189
45	-.040310	-.048272	-.062648	.018860	-.009075	.039964
46	-.043088	-.037320	-.060334	.022420	-.001249	.033583
47	-.045490	-.024862	-.052459	.018904	.001892	.026537
48	-.044087	-.012596	-.043207	.013637	.005603	.017474
49	-.041519	-.000979	-.034756	.004017	.010696	.016743
50	-.038572	.009811	-.027325	-.003723	.012322	.015363
51	-.036151	.016263	-.018629	-.001386	.007877	.019778
52	-.039262	.011224	-.011874	.007254	.002322	.023523
53	-.042258	-.004644	-.010842	.013242	.003008	.034792
54	-.045597	-.015435	-.011674	.018971	.001664	.048851
55	-.043510	-.017031	-.008305	.019780	-.002449	.055531
56	-.039160	-.013604	-.006400	.015497	-.007757	.053546
57	-.030475	-.008410	.004711	.005319	-.009657	.049551
58	-.025544	-.004006	.004047	.005167	-.012589	.040380
59	-.020552	-.006144	.002426	.003927	-.016785	.033555
60	-.014878	-.014096	.002774	-.003080	-.022886	.032636

RUN NO. 638 16M 05-07-62 1207-1323 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14848 10E 01	0.91538 10E 00	0.36552 10E 00	0.95237 10E 00	0.38029 10E 00	0.23444 10E 00
1	.010605	-.073751	-.049401	-.003967	.008086	.017613
2	.014725	-.102159	-.082888	.003659	.013266	.022918
3	.023713	-.103165	-.105293	.008474	.015537	.021321
4	.034445	-.098205	-.117116	.010034	.016867	.020827
5	.040594	-.084482	-.117889	.009430	.016644	.014041
6	.034910	-.078797	-.118418	.014759	.021615	.004179
7	.029093	-.070279	-.116730	.016244	.027356	-.001831
8	.027661	-.054428	-.112475	.018403	.033962	.004233
9	.029011	-.038880	-.112767	.016398	.038677	.014105
10	.029100	-.041564	-.114159	.010709	.039456	.023663
11	.030687	-.052296	-.110263	.013849	.041071	.025098
12	.028206	-.068272	-.109170	.013442	.043380	.021331
13	.022647	-.076224	-.105413	.012164	.042372	.016707
14	.025108	-.066890	-.099988	.012087	.038900	.012797
15	.037560	-.050593	-.093407	.014943	.040491	.006113
16	.047318	-.042507	-.087746	.016021	.038579	.007524
17	.051976	-.033365	-.079936	.014309	.035919	.011232
18	.058819	-.028772	-.071063	.016788	.033429	.008798
19	.061997	-.024272	-.059324	.022525	.037025	.002987
20	.061005	-.017486	-.046588	.024142	.036940	.007378
21	.052931	-.023044	-.038938	.022512	.030890	.017133
22	.042296	-.034933	-.031936	.027092	.019916	.017415
23	.032906	-.033526	-.026010	.025165	.009016	.015373
24	.026334	-.025308	-.024350	.014464	-.001105	.017147
25	.028818	-.022368	-.024425	.016938	-.002151	.014958
26	.034507	-.014676	-.019762	.020503	-.000163	.009992
27	.036267	-.003199	-.007632	.023100	.000985	.008218
28	.034771	.004012	.002794	.022541	.000090	.009779
29	.028306	.009741	.011847	.016439	-.001596	.008223
30	.020405	.016781	.018148	.008653	-.008201	.005880
31	.009021	.022964	.029199	-.002101	-.014712	.004775
32	-.001237	.028554	.043072	-.016200	-.019758	.002106
33	-.003132	.028833	.054694	-.020458	-.022395	-.005459
34	-.008892	.025017	.056015	-.022505	-.031269	-.005863
35	-.015502	.022512	.054337	-.019750	-.038134	-.004491
36	-.022199	.021999	.056593	-.015523	-.037884	-.004002
37	-.032606	.023103	.059126	-.015339	-.031401	-.008467
38	-.040894	.027751	.058532	-.023764	-.026155	-.012883
39	-.042055	.028337	.055363	-.018823	-.018182	-.011482
40	-.045081	.028391	.050508	-.014132	-.011278	-.006272
41	-.047855	.029991	.048759	-.016067	-.012976	-.006738
42	-.049856	.027226	.045071	-.023773	-.017718	-.014994
43	-.048641	.021146	.042843	-.025723	-.017491	-.021954
44	-.049810	.014937	.035648	-.024638	-.014970	-.019317
45	-.055768	.016391	.026931	-.028358	-.017125	-.009283
46	-.057309	.021789	.016384	-.025569	-.018341	-.000877
47	-.061885	.024809	.009563	-.027552	-.019332	.009844
48	-.061292	.028088	.003653	-.030461	-.018842	.010549
49	-.056594	.031398	.003577	-.032145	-.017033	.005225
50	-.043731	.032057	.003219	-.037095	-.014053	-.000109
51	-.034367	.030264	.006654	-.043758	-.012493	-.009845
52	-.023794	.030925	.002864	-.041964	-.011795	-.013345
53	-.012563	.026830	-.002824	-.032253	-.004964	-.010695
54	-.005377	.019353	-.004349	-.019664	.007487	-.008134
55	-.002798	.013107	-.007313	-.010165	.022214	-.014018
56	.000578	.009584	-.011676	-.002503	.039351	-.012325
57	.007028	.003234	-.017421	.010687	.050593	-.010178
58	.011288	-.013707	-.019760	.019249	.050937	-.010563
59	.019484	-.028785	-.023654	.027934	.044460	-.014572
60	.035507	-.039952	-.029015	.030661	.040270	-.025259

RUN NO. 638 16M 05-07-62 1207-1323 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.14272 10E 01	0.15449 10E 01	0.58711 10E 00	0.93614 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.841836	.835228	.650225	.836504
2	.647031	.631560	.325163	.636732
3	.505999	.475807	.158672	.490466
4	.396481	.362385	.056606	.392351
5	.308205	.267785	.000893	.314038
6	.235191	.196942	.001622	.247995
7	.174696	.142010	-.001234	.185190
8	.123694	.086748	-.020978	.129585
9	.080402	.032485	-.024807	.077374
10	.044425	-.011677	-.026203	.031828
11	.004838	-.041024	-.030748	-.007346
12	-.046910	-.067876	-.051377	-.042545
13	-.104559	-.089659	-.077689	-.082058
14	-.151897	-.113435	-.088714	-.123544
15	-.191653	-.142154	-.100193	-.157758
16	-.218853	-.170034	-.107921	-.183144
17	-.229694	-.193630	-.116153	-.203364
18	-.247203	-.209340	-.123792	-.216435
19	-.262112	-.217253	-.128433	-.228549
20	-.268482	-.223571	-.111791	-.236490
21	-.266183	-.234951	-.084551	-.249550
22	-.263464	-.246052	-.080840	-.258050
23	-.259749	-.254423	-.094604	-.264590
24	-.250959	-.262206	-.106457	-.270220
25	-.249600	-.266113	-.125276	-.266760
26	-.254682	-.258325	-.124379	-.256811
27	-.250889	-.234326	-.110973	-.244158
28	-.241081	-.211364	-.117690	-.223216
29	-.226734	-.185506	-.125072	-.200627
30	-.195829	-.155537	-.103390	-.175704
31	-.152671	-.123599	-.066811	-.144321
32	-.117420	-.094652	-.022037	-.117601
33	-.087900	-.066287	.011946	-.085893
34	-.059682	-.043578	.014357	-.063366
35	-.044333	-.025928	.012713	-.045316
36	-.037420	-.015458	.015748	-.036568
37	-.030845	-.010415	.000250	-.031505
38	-.022820	-.007109	-.016081	-.026816
39	-.004241	.004884	-.022710	-.018848
40	.016067	.021748	-.014037	-.003403
41	.033315	.037936	-.006409	.014618
42	.054343	.044788	.006280	.034646
43	.064298	.047925	.023658	.053078
44	.070204	.048149	.041324	.061827
45	.081044	.045706	.040199	.061630
46	.089087	.043447	.023465	.051547
47	.091944	.042094	.016677	.039099
48	.084599	.034896	.014780	.026214
49	.068280	.029449	.002234	.016084
50	.052788	.022405	-.016491	.008091
51	.043434	.020062	-.011844	-.002871
52	.039476	.023402	.002023	-.012933
53	.042797	.035077	.042048	-.002424
54	.040548	.050696	.069355	.018307
55	.032829	.061312	.083605	.031452
56	.034630	.069213	.079038	.030914
57	.046348	.066210	.071021	.027846
58	.053842	.065911	.045937	.027911
59	.051609	.062309	.023660	.021806
60	.043368	.053257	.013729	.018775

RUN NO. 638 16M 05-07-62 1207-1323 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-01
0	.035511	-.028425	-.026322	-.056178	-.001365	.009862
1	.008056	-.315803	-.235997	-.243518	-.186613	.126664
2	-.295306	-.467256	-.321838	.340539	-.356422	.159769
3	-.416074	-.543483	-.344910	.950870	-.457865	.143072
4	-.153710	-.367054	-.196850	.747963	-.300241	.081047
5	-.026912	-.227413	-.087958	.292604	-.148841	.053548
6	-.079950	-.177198	-.051614	.045964	-.118061	.038525
7-8	-.022110	-.116291	-.049859	-.281236	-.147245	.032773
9-11	-.020679	-.105236	-.030972	.328774	-.113052	.031348
12-15	.007893	-.070385	-.011404	.103515	-.052011	.025686
16-20	.000376	-.036468	-.010847	.190162	.007370	.015671
21-27	-.002169	-.029216	-.007148	.010791	-.020651	.008654
28-36	.002430	-.015770	-.002400	-.013387	-.006513	.004734
37-47	-.002185	-.003213	-.000844	-.010968	-.000034	.002677
48-60	.001188	-.003605	-.000997	-.006502	-.001426	.001819

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.351525	-.207012	-.138801	.086554	.488776	.196551
2	.350033	-.263308	-.179673	.102361	.698239	.178106
3	.106961	-.226390	-.158220	.027872	.536103	.089553
4	-.040119	-.126804	-.073740	-.020415	.090518	.021706
5	.031990	-.099620	-.048950	.008225	-.050665	.056492
6	.048637	-.107117	-.042987	.030053	-.018866	.056579
7-8	.065145	-.080946	-.021748	.002973	-.019545	.008161
9-11	.014292	-.095025	-.022480	-.002784	-.009799	.036976
12-15	.007198	-.042240	-.008398	-.003343	.040433	.069939
16-20	-.015006	-.019905	-.002704	-.000927	.021793	.004848
21-27	.000083	-.019011	-.001135	-.003179	-.002620	.003357
28-36	.006271	-.006382	-.000570	-.003951	-.001138	.013476
37-47	.000533	-.004733	-.000970	-.001161	.003051	.001048
48-60	.001833	.001379	.000151	-.001452	-.001365	-.002407

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.018270	.019507	.018413	.014313
1	.189377	.191020	.304276	.131721
2	.250394	.247766	.452415	.161804
3	.251394	.252972	.510280	.158545
4	.144373	.150329	.371585	.090931
5	.082075	.087637	.278533	.050719
6	.065102	.082712	.282490	.043634
7-8	.048311	.070575	.253875	.035341
9-11	.041821	.043025	.250095	.023891
12-15	.025001	.026613	.182479	.015864
16-20	.013910	.019719	.131243	.011591
21-27	.010395	.010470	.089834	.007120
28-36	.006607	.007440	.065630	.004214
37-47	.003803	.003897	.044891	.002542
48-60	.002412	.002955	.028534	.001741

RUN NO. 638 16M 05-07-62 1207-1323 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21079 10E 01	0.66196 10E 00	0.49505 10E 00	0.76558 10E 00	0.57255 10E 00	0.17980 10E 00
0	-.152997	-.495322	-.469515	.077785	-.054727	.515410
1	-.125181	-.265077	-.300478	.029669	-.032369	.280906
2	-.109887	-.124954	-.154598	.016722	-.019207	.103858
3	-.117646	-.099287	-.110227	.044326	-.028973	.029482
4	-.148702	-.065890	-.048289	.042452	-.031215	-.012224
5	-.130921	-.011089	.002821	.042624	-.014908	.010101
6	-.059633	.021038	.057341	.004344	-.032967	.000208
7	.005793	.066188	.094539	-.025205	-.007878	-.042597
8	.049073	.085957	.098201	-.034949	.000173	-.080262
9	.089770	.128602	.083732	-.033167	.014809	-.074226
10	.123206	.097857	.090316	-.020829	.032432	-.086292
11	.127741	.143674	.130047	-.009865	.059085	-.131786
12	.134203	.131458	.146349	-.054576	.035004	-.114170
13	.134683	.128729	.129262	-.083948	.028583	-.110041
14	.119568	.075910	.090863	-.056509	.031915	-.078468
15	.107042	.037704	.075410	-.046300	.048614	-.021398
16	.106684	.032670	.035036	-.014230	.084729	-.019707
17	.060419	.034349	.011451	.013041	.082870	-.036514
18	.019493	.027379	.008108	.036569	.035119	-.059903
19	.023858	.027541	-.009170	-.034106	-.015273	-.030456
20	-.005336	.026832	-.009592	-.024384	-.024991	-.056735
21	-.032888	.013899	.018507	.007474	-.017351	-.030701
22	-.020692	.020302	.021758	.027188	-.042568	-.018850
23	-.025851	.017238	.013777	.041975	-.027795	-.019800
24	-.058875	.024173	-.005796	.048782	-.012838	.014912
25	-.095926	.001428	-.054587	.082601	-.002206	.071033
26	-.088216	-.034653	-.065753	.076053	-.005418	.071334
27	-.054607	-.052430	-.066686	.040533	-.026002	.068577
28	-.034803	-.068303	-.070149	.035328	.001189	.069508
29	-.034712	-.072477	-.065503	.060445	.019952	.058332
30	-.058062	-.084253	-.023287	.071216	.026219	.035756

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-01
0	-.007161	-.021316	-.019361	-.001675	.005396	.005049
1	-.110379	-.374086	-.272630	.079880	-.077080	.090707
2	-.146750	-.495662	-.378051	.165819	-.124374	.119457
3	-.109259	-.501010	-.397902	.140470	-.067935	.115651
4	-.008721	-.322085	-.256621	.018137	.028689	.079863
5	.029837	-.151883	-.143009	-.023830	.012484	.049345
6	.029438	-.104465	-.130371	-.016206	-.001968	.039945
7	.022079	-.133048	-.132441	.004909	.023426	.057835
8	.013647	-.130364	-.075562	-.045637	-.011065	.059746
9-11	-.007077	-.099655	-.047726	.008416	-.011716	.043349
12-14	-.014749	-.104733	-.076642	.034444	-.013373	.031851
15-21	-.001805	-.085126	-.043136	.023279	-.012875	.017653
22-30	-.002189	-.054258	-.022849	.016072	.000352	.014389

RUN NO. 638 16M 05-07-62 1207-1323 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21079 10E 01	0.66196 10E 00	0.49505 10E 00	0.76558 10E 00	0.57255 10E 00	0.17980 10E 00
1	.023582	-.095846	-.124524	.027619	.040975	.030849
2	.013442	-.108963	-.141799	-.004894	.031123	.006443
3	.001527	-.087175	-.126043	.007705	.034335	-.025899
4	-.037550	-.054582	-.121840	-.004555	.036161	-.040862
5	-.059394	-.02636	-.124972	-.035770	.039780	-.040299
6	-.053941	-.075502	-.128137	-.001585	.040519	-.074326
7	-.078831	-.069913	-.111949	-.003543	.000197	-.039430
8	-.115275	-.015419	-.084900	-.039615	-.028114	-.003751
9	-.136468	-.020974	-.077527	-.076726	-.044529	-.002868
10	-.133530	.001616	-.057402	-.089417	-.052356	-.011742
11	-.138254	.024127	-.010553	-.090993	-.061481	-.007182
12	-.123745	.042470	.055133	-.083913	-.065522	-.004902
13	-.098411	.041883	.070958	-.079940	-.079976	-.004581
14	-.029438	.005358	.059289	-.030648	-.078071	.005400
15	-.006846	-.032278	.055834	-.031239	-.070108	-.054678
16	.012286	-.041336	.030162	-.031786	-.074311	-.008672
17	.013242	-.035571	.042004	-.011554	-.054116	-.005169
18	.043100	.001006	.071384	-.011648	-.040256	.004594
19	.070975	.023291	.086476	.021867	.004683	-.003048
20	.088844	.037197	.096314	.071738	.019199	.023361
21	.126964	.063286	.086390	.071341	.046484	.029582
22	.112334	.007551	.064883	.081136	.059440	.011019
23	.088055	-.011420	.038273	.034552	.046198	.025322
24	.048126	-.009806	.025271	.003618	.002388	.005285
25	.053111	.013792	-.006609	.011478	.018172	.025383
26	.051666	.000861	-.045780	.053361	.043187	.057729
27	.019589	.032956	-.051525	.041771	.014571	.045528
28	.031336	.040539	-.058412	.074713	.038026	.029178
29	.056781	.018563	-.081122	.075937	.030349	.000539
30	.072551	-.005277	-.083105	.057527	.029129	-.024039

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
1	-.112778	-.112859	-.111552	-.262500	-.157326	-.267563
2	-.101490	-.139823	-.254866	-.167861	-.020061	-.244244
3	-.015126	-.167401	-.281555	.048060	.141045	-.157557
4	.051271	-.174138	-.154470	.132277	.125340	-.129656
5	.030775	-.130424	-.074887	.034185	.031657	-.079142
6	.009447	-.028351	-.023734	-.012187	.023833	.068991
7	-.001952	-.013091	-.040844	-.031239	.010459	.164628
8	.000721	-.095868	-.085578	-.026775	-.017328	.140635
9-11	.010886	-.070033	-.037161	.043477	.004762	.099360
12-14	.007232	-.053705	-.046175	.008996	.026238	-.000415
15-21	-.011246	-.003583	-.012480	.012688	.007093	.051187
22-30	.001888	-.005149	-.003644	.012700	.006403	.015151

RUN NO. 63B 16M 05-07-62 1207-1323 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.18226 10E 01	0.24379 10E 01	0.24042 10E 00	0.13447 10E 00
0	1.000000	1.000000	1.000000	1.000000
1	.629837	.710661	.250053	.663589
2	.349288	.497019	.023351	.377758
3	.220882	.369579	-.054617	.213421
4	.140551	.246565	-.030845	.093414
5	.053751	.133191	-.019102	-.012786
6	-.027532	.032180	.037406	-.093912
7	-.131698	-.075828	-.055487	-.166206
8	-.181733	-.166374	-.125091	-.241429
9	-.231418	-.245869	-.114296	-.249013
10	-.271959	-.265070	-.075819	-.302909
11	-.299529	-.259335	-.082385	-.373622
12	-.283712	-.277201	-.094711	-.366184
13	-.229842	-.283370	-.150997	-.307782
14	-.190824	-.294276	-.061802	-.249804
15	-.187553	-.292935	.019621	-.180614
16	-.148659	-.280718	.047184	-.084129
17	-.115862	-.255350	-.019211	-.011223
18	-.087814	-.134745	-.042799	.031710
19	-.051736	-.107563	-.053508	.064215
20	-.027057	-.106982	-.051477	.066610
21	-.069613	-.058631	-.005864	.058701
22	-.044055	-.020969	-.006359	.081423
23	-.020008	-.020875	-.068984	.088448
24	-.018438	.013192	-.074096	.148511
25	.031701	.041757	.003849	.174105
26	.076224	.063423	.053353	.166607
27	.076879	.091551	.061563	.111302
28	.107495	.123382	.039856	.097627
29	.130815	.150057	-.011243	.080815
30	.113849	.178981	.017423	.052227

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.016905	.054264	.010109	.005683
1	.254655	.509831	.125775	.139190
2	.321379	.546003	.156721	.238051
3	.302866	.433697	.175035	.264824
4	.182506	.219430	.147414	.147630
5	.096437	.132821	.097798	.069176
6	.070428	.095950	.087777	.065683
7	.071658	.059759	.118391	.076058
8	.069213	.048409	.128024	.057647
9-11	.058920	.063532	.129272	.036495
12-14	.051829	.038310	.094351	.033708
15-21	.030759	.032727	.084958	.019777
22-30	.022663	.025856	.087929	.014014

RUN NO. 64A 16M 05-09-62 0941-1057 EST

GROSS STATISTICS

CLEAR	WIND SPEED	8.33 M/SEC	WIND DIRECTION	316 DEG
UNSTABLE	SIGMA A	14.6 DEG	SOLAR RADIATION	1.41
LAND	SIGMA P	6.2 DEG	NET RADIATION	0.98

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.46224E 01	0.33059E 01	0.15749E 01	0.25527E 01
V	0.46442E 01	0.30824E 01	0.15506E 01	0.23094E 01
W	0.69025E 00	0.68595E 00	0.59046E 00	0.27765E-00
T	0.39055E-00	0.17091E-00	0.96237E-01	0.12470E-00
E	0.49784E 01	0.35377E 01	0.18580E 01	

GUSTINESS RATIOS				
U	0.25810	0.21827	0.15065	0.19180
V	0.25871	0.21077	0.14949	0.18243
W	0.09974	0.09943	0.09225	0.06326

COVARIANCES				
U,V	0.96904E-01	-0.13073E-00	0.13442E-01	-0.13513E-00
U,W	-0.48224E-00	-0.47267E-00	-0.29987E-00	-0.32591E-00
U,T	-0.56149E 00	-0.30210E-00	-0.16580E-00	-0.23840E-00
V,W	0.11440E-01	0.45310E-01	0.22288E-01	0.56639E-01
V,T	-0.19792E-00	-0.45411E-01	-0.42435E-02	-0.36760E-01
W,T	0.13595E-00	0.14802E-00	0.10307E-00	0.95342E-01
WE	0.65281E-01	-0.52708E-02	0.32689E-01	

NORMALIZED COVARIANCES				
U,V	0.02091	-0.04095	0.00860	-0.05565
U,W	-0.26998	-0.31388	-0.31097	-0.38712
U,T	-0.41789	-0.40190	-0.42589	-0.42255
V,W	0.00639	0.03116	0.02329	0.07073
V,T	-0.14696	-0.06256	-0.01099	-0.06850
W,T	0.26184	0.43231	0.43237	0.51239

RUN NO. 64A 16M 05-09-62 0941-1057 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.15628 10E 01	0.96417 10E 00	0.38927 10E 00	0.95690 10E 00	0.38634 10E 00	0.23835 10E 00
0	.008578	-.311066	-.425814	.023269	-.010812	.432434
1	.008079	-.265683	-.389504	.024373	-.008700	.356574
2	.004394	-.204516	-.327375	.021675	-.004392	.263289
3	.003165	-.167107	-.272187	.015558	.003071	.202329
4	.003958	-.136880	-.219972	.001530	.009810	.146495
5	.003063	-.111133	-.180450	-.005425	.015076	.101558
6	.002451	-.086929	-.149230	.003571	.017238	.071123
7	.007536	-.066506	-.127506	.008454	.013320	.046115
8	.013749	-.043772	-.108512	.000529	.010925	.026555
9	.016691	-.020442	-.089891	.002389	.012133	.015906
10	.016403	-.004399	-.061137	.005916	.014353	.005932
11	.018241	.009539	-.032454	.010146	.021688	-.004747
12	.017208	.022611	-.009619	.017336	.028885	-.015969
13	.013025	.029058	.011967	.025411	.034773	-.026755
14	.003034	.032090	.034263	.029427	.038326	-.032026
15	-.006896	.039174	.054867	.034937	.036500	-.029273
16	-.009643	.050569	.075037	.033942	.029974	-.030945
17	-.010997	.056198	.085437	.024013	.026151	-.039648
18	-.008839	.060059	.102094	.004605	.022153	-.051020
19	-.003912	.062967	.116859	-.008582	.013425	-.061936
20	-.000771	.065820	.121609	-.011394	.006601	-.057201
21	.001368	.064697	.128335	-.013055	-.001254	-.055168
22	-.006072	.061899	.130003	-.017031	-.006592	-.061405
23	-.012790	.055105	.127891	-.016210	-.005099	-.064164
24	-.012306	.061463	.128487	-.018980	-.004964	-.065590
25	-.010245	.069115	.134642	-.022931	-.007088	-.074309
26	-.005076	.072720	.139798	-.027002	-.010220	-.088224
27	-.004628	.071186	.137678	-.024773	-.009988	-.092287
28	-.010000	.062152	.124674	-.020741	-.004645	-.100728
29	-.012084	.054116	.109622	-.013366	.000973	-.103547
30	-.011811	.051908	.100916	-.005316	-.000578	-.088729
31	-.011125	.053814	.094190	-.000127	-.002248	-.063587
32	-.010952	.050834	.083574	-.002291	-.002897	-.047234
33	-.001549	.056571	.071948	-.000205	-.004798	-.034147
34	.005172	.068551	.063722	-.001628	-.009972	-.037978
35	.000011	.070978	.051576	-.004245	-.018732	-.044352
36	.000428	.059950	.042044	-.016340	-.033415	-.045622
37	.001960	.052665	.039905	-.022444	-.043191	-.043934
38	.000824	.045671	.043515	-.025021	-.051760	-.040750
39	.003630	.043740	.049516	-.035778	-.060481	-.035287
40	.002267	.035109	.051081	-.052852	-.068156	-.028939
41	.000911	.036080	.053583	-.060696	-.072495	-.021670
42	-.001253	.040398	.054847	-.056693	-.075532	-.018401
43	-.000828	.042560	.058291	-.048881	-.071847	-.016100
44	.002457	.036719	.054486	-.036216	-.064515	-.007503
45	.006027	.022328	.044616	-.023005	-.056716	.003395
46	.008063	.017447	.026849	-.011942	-.050977	.003256
47	.002845	.008782	.009440	.004986	-.043659	-.005277
48	-.001018	.000556	-.000217	.018135	-.033523	-.018969
49	-.007645	-.007630	-.004559	.018128	-.022375	-.031254
50	-.007636	-.014711	-.007407	.015578	-.013922	-.039145
51	-.005071	-.026237	-.010408	.016703	-.011807	-.041869
52	-.006486	-.037824	-.012495	.012957	-.003518	-.031892
53	-.006841	-.045206	-.010973	.007534	.001287	-.012907
54	-.006852	-.052813	-.005498	.008127	.004862	.001517
55	-.007601	-.050658	-.002166	.006820	.003943	.007237
56	-.005875	-.048263	-.001166	.016442	.013687	.008309
57	-.001337	-.040561	.005944	.022698	.018367	.005878
58	-.001905	-.028668	.006480	.027869	.021536	-.003794
59	-.003545	-.026417	.003863	.030641	.022226	-.006555
60	-.003972	-.036071	-.005246	.031021	.025144	-.001062

RUN NO. 64A 16M 05-09-62 0941-1057 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.15628 10E 01	0.96417 10E 00	0.38927 10E 00	0.95690 10E 00	0.38634 10E 00	0.23835 10E 00
1	-.004158	-.064331	-.050081	-.001972	-.003589	.035570
2	-.010167	-.089721	-.078400	-.003748	-.007654	.047396
3	-.015068	-.095497	-.093870	-.010177	-.015307	.046052
4	-.020068	-.089270	-.099576	-.022287	-.021175	.046076
5	-.031325	-.075460	-.098262	-.026656	-.021846	.050143
6	-.038085	-.063080	-.097111	-.022702	-.021649	.044552
7	-.049064	-.052991	-.096143	-.020538	-.024797	.038203
8	-.058105	-.046619	-.093573	-.026606	-.027172	.029773
9	-.062909	-.039283	-.091829	-.027502	-.026545	.022686
10	-.063022	-.032853	-.095376	-.018884	-.028244	.020676
11	-.068413	-.022140	-.093387	-.007133	-.027155	.026591
12	-.073584	-.017210	-.093151	.002505	-.020511	.032206
13	-.080375	-.015133	-.089893	-.001620	-.017373	.038120
14	-.077395	-.013716	-.087629	-.007658	-.017886	.039454
15	-.068295	-.015995	-.083984	-.004733	-.011617	.036286
16	-.055940	-.008807	-.083965	.001922	-.005543	.031924
17	-.040632	-.008918	-.087779	-.001835	-.001660	.025327
18	-.029192	-.006523	-.081893	-.010458	-.001210	.008401
19	-.025217	-.002724	-.070339	-.018356	-.000467	-.006663
20	-.023032	-.000828	-.067122	-.021186	.004682	-.009090
21	-.020886	-.001114	-.065763	-.018253	.006845	-.004330
22	-.020379	-.008146	-.063704	-.018955	.004510	-.001734
23	-.019830	-.013289	-.059401	-.012779	.007942	.001253
24	-.016657	-.019314	-.055635	-.006162	.016835	.004136
25	-.013013	-.026613	-.054978	-.002781	.018635	.010865
26	-.007268	-.026407	-.054068	.005957	.020657	.012408
27	.001433	-.022855	-.053060	.014374	.023841	.009692
28	.010203	-.018477	-.047906	.020490	.022474	.008763
29	.017860	-.015736	-.041523	.019785	.019364	.006646
30	.020083	-.008341	-.037146	.011543	.012933	.003852
31	.023759	-.005029	-.031759	.013750	.007034	-.003061
32	.027908	-.005049	-.021846	.017695	.005512	-.011776
33	.030188	-.008802	-.011728	.018790	.003050	-.012383
34	.024531	-.006472	-.004368	.002509	-.001500	-.010365
35	.020428	.000709	.007975	-.007512	-.000623	-.015743
36	.018460	.012215	.021990	-.006691	.004081	-.016495
37	.015774	.017986	.031483	-.013693	.001666	-.020165
38	.012995	.019983	.039495	-.020413	-.001848	-.022784
39	.011012	.021392	.037212	-.023977	-.002530	-.027719
40	.008061	.029167	.033312	-.022109	-.005900	-.023829
41	.006838	.028599	.030044	-.021980	-.012462	-.017330
42	.008908	.028606	.029792	-.016007	-.021233	-.011987
43	.010800	.033878	.032607	-.009156	-.024558	-.003188
44	.004759	.034025	.034206	.000375	-.020404	.000496
45	-.004800	.028344	.035698	.005151	-.016658	.003624
46	-.004277	.006152	.036335	.004962	-.015780	.003669
47	.000813	-.003064	.037896	.003446	-.017879	.002017
48	.003938	-.001478	.038451	.003124	-.014090	.004700
49	.011147	-.003137	.040768	.004472	-.007228	.004823
50	.024324	-.006264	.043239	.013630	.003006	.001013
51	.032082	-.011412	.037313	.020709	.006476	-.011861
52	.038744	-.008249	.031750	.019664	.010611	-.014846
53	.046928	-.004969	.029621	.017500	.011016	-.017868
54	.051268	-.000542	.027624	.016048	.007654	-.020603
55	.045873	.001175	.022941	.021396	.006462	-.017756
56	.041564	.001550	.013633	.028260	.014919	-.003615
57	.044193	.000558	.005878	.030553	.024103	.007377
58	.041271	-.005434	.003269	.025682	.026666	.019180
59	.034409	-.007572	.006804	.019628	.028627	.034148
60	.028379	-.000914	.014315	.013737	.031416	.039447

RUN NO. 64A 16M 05-Q9-62 0941-1057 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.15747 10E 01	0.15510 10E 01	0.59036 10E 00	0.96232 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.840332	.822339	.671749	.836783
2	.653821	.613954	.366322	.636687
3	.516526	.463795	.207290	.488358
4	.408341	.355545	.108624	.378726
5	.311605	.266614	.043605	.286837
6	.227670	.195947	.012019	.221160
7	.158757	.141789	.000472	.175478
8	.106808	.105797	-.007774	.142376
9	.063036	.070487	-.022170	.115148
10	.016165	.031274	-.046525	.090923
11	-.027349	.001421	-.081840	.058600
12	-.063120	-.025166	-.113674	.024392
13	-.089490	-.048630	-.124774	-.018635
14	-.118039	-.067079	-.115569	-.051588
15	-.143233	-.082959	-.093849	-.081419
16	-.162252	-.105135	-.068076	-.108170
17	-.170720	-.129008	-.060335	-.128622
18	-.187628	-.159312	-.064833	-.150143
19	-.207200	-.190114	-.084070	-.160614
20	-.221423	-.215914	-.090370	-.163025
21	-.228219	-.221659	-.090851	-.168140
22	-.219031	-.216947	-.088425	-.175344
23	-.210342	-.214992	-.094253	-.180025
24	-.204071	-.221433	-.095474	-.185837
25	-.199661	-.227720	-.117966	-.204232
26	-.191171	-.234522	-.142888	-.225702
27	-.176565	-.241346	-.140732	-.232697
28	-.160357	-.243400	-.155007	-.229976
29	-.141332	-.213705	-.155897	-.220685
30	-.124920	-.175536	-.121389	-.206619
31	-.104523	-.139078	-.075239	-.183367
32	-.083664	-.116711	-.040968	-.155423
33	-.064776	-.100171	-.015316	-.133875
34	-.060861	-.083239	-.008573	-.126074
35	-.058462	-.075426	-.021273	-.123387
36	-.058842	-.065192	-.021547	-.114216
37	-.063931	-.049133	-.025108	-.108002
38	-.070103	-.035064	-.022096	-.106599
39	-.075967	-.032248	-.029778	-.103980
40	-.073458	-.022720	-.012963	-.098402
41	-.075529	-.009357	.010077	-.086411
42	-.079049	.001254	.018820	-.079544
43	-.080720	.008470	.019775	-.077944
44	-.067415	.005864	.036101	-.078266
45	-.046034	.006801	.056144	-.074451
46	-.032370	.019284	.053827	-.069075
47	-.028237	.028256	.039289	-.068560
48	-.023476	.030367	.038743	-.074554
49	-.012974	.023848	.047847	-.085331
50	-.007061	.021661	.043583	-.090696
51	-.008189	.019058	.029594	-.088774
52	-.010254	.007943	.022747	-.074234
53	-.008471	-.000065	.041107	-.053091
54	-.009096	-.006383	.062057	-.034631
55	-.004118	-.009821	.061450	-.024410
56	-.006036	-.020603	.045150	-.016005
57	-.002306	-.035020	.036520	-.008625
58	.000704	-.045044	.014471	-.008134
59	.007493	-.044084	.006796	-.011319
60	.017241	-.040061	.022709	-.010057

RUN NO. 64A 16M 05-09-62 0941-1057 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-01	10E-01	10E-02	10E-01
0	.097288	-.046463	-.039488	.005208	.059437	.019821
1	.687954	-.509232	-.355944	.106471	.642323	.154522
2	.675135	-.550166	-.373759	.075194	.201509	.154779
3	.421507	-.451738	-.309671	-.006328	-.304791	.131032
4	-.186161	-.307685	-.166882	-.025609	-.185126	.083134
5	-.423759	-.226154	-.077526	-.035230	-.201636	.066460
6	-.311211	-.150498	-.055754	-.016617	-.206247	.066582
7-8	-.242443	-.105668	-.051437	.066903	.102231	.049715
9-11	.257470	-.062311	-.039855	.014339	-.053449	.033110
12-15	.070818	-.040908	-.025087	.002056	-.067882	.019108
16-20	.017073	-.035975	-.010888	.004976	.007440	.009833
21-27	-.009731	-.022181	-.004874	-.007333	.003553	.008102
28-36	.042190	-.014477	-.003351	-.000190	-.002683	.005819
37-47	-.014660	-.007069	-.001950	.000719	.001943	.003678
48-60	-.010480	-.002660	-.000638	-.000723	-.002282	.001509

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
1	-.336651	-.143991	-.216615	-.556245	-.083905	.253114
2	-.394909	-.150205	-.181566	-.515537	-.186738	.328169
3	-.346631	-.122728	-.106073	-.613468	-.410461	.314015
4	-.137115	-.118999	-.051178	-.417981	-.343775	.204645
5	.007825	-.167215	-.052198	-.025390	-.089584	.181451
6	.022334	-.141883	-.040901	-.344444	-.024579	.129713
7-8	.063154	-.091755	-.023780	-.429573	-.018579	.045036
9-11	-.001141	-.076614	-.021345	.179544	.021502	.157722
12-15	.012118	-.038963	-.011682	.052998	-.012539	.015085
16-20	-.007856	-.026258	-.004311	-.002007	.004837	.025048
21-27	.002288	-.009275	-.002491	.083761	.013090	.028560
28-36	-.001217	-.006613	-.001282	-.057866	-.001723	.015748
37-47	.002871	-.003383	-.000883	.003451	-.002608	-.000677
48-60	-.002252	-.001177	-.000115	.004067	-.000393	.003712

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.029566	.027858	.029154	.022258
1	.238262	.226025	.361476	.172949
2	.255298	.251761	.501518	.165200
3	.244849	.228334	.526666	.131917
4	.170492	.128582	.381123	.077948
5	.102965	.080762	.343914	.051607
6	.074847	.079531	.362054	.047073
7-8	.065750	.070354	.279933	.036467
9-11	.040350	.046247	.196778	.031196
12-15	.025525	.029048	.192423	.017813
16-20	.014731	.017572	.107118	.009855
21-27	.011379	.012292	.086644	.006969
28-36	.007092	.007916	.063014	.004663
37-47	.004488	.004891	.041313	.002493
48-60	.003024	.003260	.027080	.001819

RUN NO. 64A 16M 05-09-62 0941-1057 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.24281 10E 01	0.84207 10E 00	0.56476 10E 00	0.80106 10E 00	7.53670 10E 00	0.18612 10E 00
0	-.055650	-.387040	-.422578	.070705	-.068492	.512255
1	-.045023	-.231891	-.274380	.010510	-.073742	.254736
2	-.041913	-.082930	-.107650	-.016522	-.085454	.066869
3	-.033390	.001511	-.021081	-.031508	-.096436	-.085312
4	-.039077	.055591	.027464	-.036011	-.098732	-.150682
5	-.028237	.030883	.036071	-.005071	-.060328	-.179890
6	-.014683	.013896	.026917	.025254	.004438	-.125799
7	.006589	.049240	.015754	.026013	.040506	-.100545
8	.008761	.052233	.025710	-.002101	.066399	-.009130
9	.026715	.074969	.050451	-.021648	.068481	.005609
10	.039757	.044278	.014384	.018855	.038093	.086098
11	.067430	.040190	.013039	.038615	.007321	.087149
12	.102425	.041562	.029037	-.024094	-.039963	.052364
13	.083749	.097401	.103970	-.038235	-.049761	-.034000
14	.072161	.112765	.147304	-.079422	-.041615	-.107862
15	.066408	.031461	.082496	-.030008	-.004546	-.024520
16	.033498	-.024966	.033565	.006475	.032551	.036896
17	.005968	-.038489	.014860	.000690	.016451	.057973
18	.006812	-.099892	-.013632	.000111	.005548	.078994
19	-.003864	-.056842	.010130	.020716	.020844	.060489
20	.004415	-.016904	.053685	.023280	.039895	.017191
21	-.002546	.030298	.071771	.032519	.058462	-.050919
22	.011012	.052794	.075102	.026032	.045846	-.074357
23	-.013369	.034955	.057832	.042222	.056466	-.040065
24	-.059102	.008458	.020077	.030204	.076786	-.028126
25	-.085947	.015109	.016555	.039827	.030541	-.014225
26	-.102756	.001895	.008845	.043826	.004041	-.026425
27	-.080955	-.013671	-.014416	.015724	-.002430	.009746
28	-.083201	.003981	-.026365	.002020	.018554	.004290
29	-.075574	.017973	-.015646	.007312	.034757	-.020422
30	-.023018	.061278	-.004805	-.033514	.007609	-.050140

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-01
0	.063722	-.028086	-.029729	-.082244	-.046503	.006253
1	-.282508	-.237137	-.298303	-.267263	-.207154	.022909
2	-.701255	-.326474	-.300307	.286134	-.171042	.023502
3	-.525950	-.433205	-.258157	.143030	-.113305	.058242
4	.029646	-.325023	-.196625	-.540612	-.134920	.093919
5	.200157	-.187546	-.178259	-.044217	-.057499	.114466
6	.047860	-.271886	-.228740	.751611	.054297	.141127
7	-.133961	-.306522	-.222014	.792732	.109185	.119116
8	-.014737	-.158527	-.108221	.364385	.085413	.048525
9-11	.022411	-.191206	-.120083	.809435	.004700	.043236
12-14	-.061881	-.060141	-.034718	-.093781	-.009078	.018745
15-21	.009445	-.052295	-.040695	.200727	.000438	.019206
22-30	-.022374	-.039674	-.019558	.271379	.000006	.019224

RUN NO. 64A 16M 05-09-62 0941-1057 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.24281 10E 01	0.84205 10E 00	0.56416 10E 00	0.80106 10E 00	0.53670 10E 00	0.18612 10E 00
1	.000298	-.030842	-.143620	.030301	.047600	.079838
2	.020221	-.002137	-.216635	.065522	.095772	.084931
3	.061794	.021233	-.246856	.095136	.110145	.124901
4	.068516	.060102	-.223116	.094417	.105674	.108985
5	.078827	.068074	-.208774	.102734	.100846	.117757
6	.062864	.100341	-.198382	.084379	.087368	.140969
7	.004294	.099183	-.181032	.046032	.060376	.106747
8	-.028891	.108828	-.177591	-.045279	-.000903	.092402
9	-.050751	.065299	-.191981	-.056811	-.028514	.062311
10	-.046938	.073267	-.148964	-.051313	-.010423	.056152
11	-.036679	-.009220	-.142259	-.021388	.034613	-.011156
12	-.009916	-.046895	-.123710	-.043132	.004753	-.000668
13	-.014975	-.083818	-.077554	-.046044	-.020696	-.011202
14	.013993	-.064698	-.042802	-.027151	-.057854	-.001922
15	.018492	-.023241	.006449	-.030421	-.069112	-.014852
16	.029454	-.040223	.005272	-.013865	-.056598	-.013323
17	.046188	-.050170	.013297	.018745	-.027412	.003089
18	.063490	-.011980	.034126	.035857	-.001540	.052984
19	.052771	.003262	.046692	.068361	.003739	.042927
20	.056520	-.026715	.046189	.072195	.012651	.018994
21	.069461	-.075056	.050976	.091466	.013059	-.048201
22	.078376	-.058397	.096961	.082668	.038537	-.074689
23	.081321	-.048519	.107648	.031716	.043252	-.083549
24	.056550	-.010652	.094970	-.002296	.026986	-.069077
25	.039920	.051664	.115226	-.043705	.027936	-.024049
26	.032348	.066112	.134756	-.054248	.017342	-.023880
27	.021821	.036430	.119257	-.075917	.022967	-.049432
28	.004186	-.009213	.059893	-.053605	.033787	-.025950
29	-.024887	-.035809	.027578	-.014676	.032522	-.038234
30	-.029941	-.048436	.021262	-.019991	.007354	-.067065

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
1	.348790	.116747	-.630448	.068133	.076897	.885501
2	.005411	.256269	-.580902	.066408	.129789	.862604
3	.350696	.273370	-.387135	.238768	.206256	.752523
4	.659070	.076357	-.189251	.315976	.155931	.562528
5	.426360	-.108333	-.134904	.152888	.084333	.226895
6	.127724	-.182411	-.137468	.073535	.082074	-.005259
7	-.128189	-.077716	-.134440	.016613	.056768	.104386
8	-.233538	.008681	-.082911	-.068906	-.010495	.070113
9-11	-.139537	-.036605	-.044404	-.027602	-.005611	.083325
12-14	-.000683	-.010983	-.007499	.030307	.015045	.057901
15-21	-.038277	-.015768	-.003915	-.015236	-.008616	.014992
22-30	.025697	-.025477	-.010543	.009996	.000212	.055169

RUN NO. 64A 16M 05-09-62 0941-1057 EST
 301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.25524 10E 01	0.23099 10E 01	0.27780 10E 00	0.12470 10E 00
0	1.000000	1.000000	1.000000	1.000000
1	.688069	.677636	.288842	.629254
2	.441910	.402011	.081083	.318236
3	.284527	.191013	-.103822	.065673
4	.138529	.059611	-.101375	-.084246
5	.040643	-.027485	-.087983	-.137790
6	-.000518	-.128508	-.119746	-.093959
7	-.059977	-.170968	-.203804	-.027343
8	-.129213	-.217412	-.108928	.020205
9	-.189682	-.254303	-.128300	-.000934
10	-.205233	-.264676	.046227	-.001023
11	-.250647	-.286568	-.000779	-.042427
12	-.304120	-.313408	.008545	-.088884
13	-.388862	-.318440	-.070384	-.196374
14	-.396767	-.286380	-.119034	-.257040
15	-.314915	-.194930	.028287	-.194572
16	-.253277	-.084121	.095275	-.098180
17	-.167139	.006240	.055382	-.098548
18	-.090134	.102808	.061036	-.087802
19	-.061066	.108967	.044730	-.122707
20	-.039735	.076392	-.008157	-.167170
21	-.007929	.090327	-.042326	-.189948
22	-.000195	.127575	-.079109	-.152903
23	.019590	.123655	-.076191	-.096767
24	.036323	.119970	-.084281	-.060504
25	.037884	.124117	-.053875	-.049110
26	.034869	.162842	-.031905	-.027120
27	.056195	.177959	.033075	.028225
28	.062069	.133906	-.026476	.085696
29	.070941	.086523	.010177	.064268
30	.031601	.058626	-.035209	.041002

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.033287	.017773	.009965	.019995
1	.442081	.234005	.086052	.173985
2	.530364	.391599	.117627	.155946
3	.435264	.448116	.204073	.115544
4	.193566	.254149	.241278	.098095
5	.129406	.138132	.202291	.109969
6	.164599	.150738	.199643	.128958
7	.144406	.145895	.178394	.124756
8	.082287	.086339	.101871	.075063
9-11	.070599	.067854	.130890	.043335
12-14	.033019	.045120	.107898	.016272
15-21	.038726	.026351	.070579	.018405
22-30	.026733	.028045	.111521	.017118

RUN NO. 64A 40M 05-09-62 0941-1057 EST

GROSS STATISTICS

CLEAR	WIND SPEED	8.90 M/SEC	WIND DIRECTION	321 DEG
UNSTABLE	SIGMA A	13.4 DEG	SOLAR RADIATION	1.41
LAND	SIGMA E	8.6 DEG	NET RADIATION	0.98

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.47910E 01	0.29030E 01	0.14008E 01	0.22908E 01
V	0.42016E 01	0.27874E 01	0.14525E 01	0.20488E 01
W	0.13915E 01	0.13213E 01	0.10892E 01	0.68470E 00
T	0.29207E-00	0.12249E-00	0.69275E-01	0.93142E-01
E	0.51921E 01	0.35067E 01	0.19713E 01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
GUSTINESS RATIOS				
U	0.24594	0.19144	0.13299	0.17006
V	0.23031	0.18759	0.13542	0.16083
W	0.13254	0.12916	0.11726	0.09297

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
COVARIANCES				
U,V	0.46265E-01	-0.15732E-01	0.87233E-01	-0.41323E-01
U,W	-0.89928E 00	-0.71815E 00	-0.39292E-00	-0.54016E 00
U,T	-0.59351E 00	-0.26302E-00	-0.14052E-00	-0.21256E-00
V,W	-0.21582E-00	-0.82050E-01	-0.42460E-01	-0.21551E-01
V,T	-0.91726E-01	-0.43910E-01	0.50514E-02	-0.40490E-01
W,T	0.23353E-00	0.19504E-00	0.12089E-00	0.13296E-00
WE	0.94458E 00	0.57287E 00	0.33071E-00	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
NORMALIZED COVARIANCES				
U,V	0.01031	-0.00553	0.06115	-0.01907
U,W	-0.34828	-0.36668	-0.31810	-0.43130
U,T	-0.50173	-0.44106	-0.45108	-0.46017
V,W	-0.08926	-0.04275	-0.03376	-0.01820
V,T	-0.08280	-0.07515	0.01592	-0.09269
W,T	0.36631	0.48479	0.44008	0.52651

RUN NO. 64A 40M 05-09-62 0941-1057 EST
 61 POINT RUNNING MEAN, NQ BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14264 10E 01	0.12352 10E 01	0.31148 10E 00	0.22578 10E 01	0.31719 10E 00	0.27467 10E 00
0	.061205	-.318021	-.451190	-.033595	.015781	.439901
1	.050212	-.294216	-.425922	-.011218	.012403	.384534
2	.042592	-.243661	-.373357	.014927	.012014	.292953
3	.040912	-.151886	-.311643	.024972	.015490	.219199
4	.036803	-.145947	-.248740	.030223	.016152	.165799
5	.033453	-.111195	-.196895	.027829	.008995	.123358
6	.039177	-.086358	-.153199	.007005	.003160	.087180
7	.042521	-.066370	-.113976	.000668	.002269	.058481
8	.041258	-.047452	-.076271	-.002340	.004215	.038365
9	.035346	-.027553	-.042587	.001552	.005970	.018346
10	.018684	-.012375	-.013564	.011608	.008788	-.003555
11	.004186	-.002688	.006830	.017109	.007030	-.021108
12	-.004236	.005626	.021745	.017612	.003673	-.030428
13	-.016300	.014682	.035310	.016641	.004356	-.036630
14	-.030647	.025138	.049123	.014283	.008892	-.047775
15	-.041440	.041008	.065115	.013483	.016299	-.061187
16	-.052619	.051628	.080190	.021005	.023959	-.071356
17	-.057987	.057608	.090687	.027086	.027949	-.076515
18	-.059710	.061088	.100666	.032251	.028927	-.076785
19	-.061117	.064984	.107804	.035968	.026086	-.071492
20	-.062898	.071181	.112983	.036474	.022551	-.066545
21	-.066534	.078501	.124296	.036000	.022018	-.065609
22	-.064743	.085178	.140170	.028430	.021463	-.066669
23	-.062742	.086801	.157130	.018354	.019259	-.079031
24	-.061835	.083192	.171306	.009172	.015168	-.093952
25	-.052478	.082667	.184533	-.003224	.012522	-.101679
26	-.042399	.087686	.194190	-.019277	.003061	-.096415
27	-.033157	.091956	.197335	-.038288	-.011727	-.090161
28	-.026552	.093668	.193444	-.055459	-.026480	-.088153
29	-.022719	.092686	.180371	-.062028	-.036015	-.090314
30	-.017607	.087688	.161486	-.067831	-.039084	-.088146
31	-.010990	.085966	.142726	-.076127	-.035902	-.077891
32	-.003602	.084682	.126483	-.078944	-.030391	-.067081
33	.009821	.076683	.106893	-.076252	-.028565	-.063402
34	.023617	.065931	.087479	-.069807	-.033536	-.055563
35	.033037	.053563	.072286	-.067775	-.038949	-.049021
36	.046880	.043218	.059703	-.059976	-.046406	-.037265
37	.058263	.032246	.047650	-.057231	-.052127	-.028351
38	.062616	.027124	.038797	-.052721	-.054198	-.028293
39	.060516	.027629	.028192	-.038541	-.055381	-.028904
40	.050702	.020776	.013452	-.025003	-.057874	-.024455
41	.047813	.006957	-.000672	-.021807	-.061411	-.017874
42	.053087	-.008012	-.013616	-.017705	-.063099	-.008370
43	.054912	-.018438	-.027956	-.006780	-.060815	.001847
44	.048504	-.029008	-.043338	-.005142	-.058065	.009981
45	.039256	-.038233	-.056394	-.007964	-.054813	.021282
46	.036120	-.031673	-.067007	-.005670	-.046521	.031048
47	.036082	-.021815	-.077849	.000997	-.042393	.028262
48	.037214	-.021945	-.087788	.005829	-.043056	.021783
49	.036485	-.021605	-.093779	.005140	-.035186	.015986
50	.036878	-.019910	-.099508	.007447	-.021846	.015218
51	.038474	-.021900	-.106205	.009974	-.010433	.011317
52	.033661	-.025484	-.110489	.012770	-.002849	.006128
53	.026898	-.024557	-.107824	.018678	-.001502	.004072
54	.015831	-.020963	-.101032	.034962	.000106	.005367
55	.003335	-.016891	-.091299	.042735	.004699	.006552
56	-.007349	-.016490	-.082304	.047608	.010550	.009436
57	-.013678	-.016409	-.074279	.048085	.017924	.012933
58	-.018971	-.014562	-.066856	.046754	.025364	.017195
59	-.020230	-.013996	-.057798	.047200	.030922	.019811
60	-.020819	-.011322	-.045965	.040924	.028001	.022101

RUN NO. 64A 40M 05-09-62 0941-1057 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14264 10E 01	0.12352 10E 01	0.31148 10E 00	0.12578 10E 01	0.31719 10E 00	0.27467 10E 00
1	.009846	-.018992	-.042870	-.021153	.004256	.028235
2	.015615	-.029960	-.070673	-.034498	.005227	.046915
3	.009310	-.037205	-.086005	-.044341	.006372	.055398
4	-.005492	-.038594	-.091309	-.052554	.002660	.058305
5	-.023575	-.041755	-.096673	-.052754	-.005911	.060826
6	-.032047	-.046595	-.100506	-.054001	-.012370	.061051
7	-.039158	-.046088	-.101202	-.054324	-.014307	.065166
8	-.039389	-.040229	-.102369	-.058757	-.012963	.069412
9	-.033908	-.033912	-.100465	-.057583	-.007866	.066414
10	-.025338	-.032216	-.095604	-.055281	-.004886	.062240
11	-.022725	-.027374	-.092190	-.050315	.002886	.063233
12	-.022936	-.025653	-.093099	-.041049	.014110	.067773
13	-.022616	-.027803	-.092004	-.028708	.022820	.067090
14	-.024345	-.026125	-.087568	-.014531	.028209	.060064
15	-.022189	-.023970	-.081448	-.010240	.030267	.048404
16	-.022110	-.018905	-.074526	-.011582	.025464	.041512
17	-.028940	-.011883	-.066797	-.015470	.016910	.035929
18	-.034265	-.001353	-.059104	-.016269	.011841	.029556
19	-.039948	.002325	-.054681	-.012230	.006158	.024020
20	-.047586	.011519	-.046886	-.006115	-.001374	.021642
21	-.055802	.016965	-.038087	-.001520	-.004218	.018992
22	-.058468	.021607	-.031303	.002130	-.004171	.011920
23	-.058874	.023249	-.024516	.006362	-.004958	.005953
24	-.057963	.021054	-.018741	.008641	-.006006	.004258
25	-.053212	.015438	-.014881	.007922	-.010956	.001009
26	-.042368	.002839	-.013778	.003595	-.012774	-.004862
27	-.036783	-.011544	-.015331	.006091	-.013736	-.009769
28	-.029381	-.023307	-.012589	.013980	-.014523	-.012527
29	-.020627	-.024638	-.001389	.019055	-.011042	-.012388
30	-.004530	-.023304	.009869	.023287	-.003760	-.010781
31	.019149	-.020526	.017489	.026485	.005646	-.011721
32	.042004	-.019499	.022035	.029470	.017045	-.017198
33	.057573	-.016615	.027026	.027863	.023235	-.015762
34	.074401	-.014907	.029163	.025988	.023504	-.004442
35	.088316	-.015930	.026597	.026309	.019753	.003511
36	.096168	-.017572	.020752	.029735	.012866	.004526
37	.098742	-.014561	.019027	.039039	.010271	.003642
38	.099798	-.016320	.021654	.046485	.011578	.001570
39	.090232	-.013200	.023593	.047705	.013662	-.001660
40	.079330	-.010255	.022743	.045631	.017968	-.003789
41	.077205	-.014644	.017393	.037878	.024773	-.008793
42	.074059	-.019769	.008218	.023970	.028211	-.010836
43	.072644	-.018376	-.000779	.020398	.026282	-.011988
44	.073998	-.019728	.001539	.018991	.026002	-.016106
45	.068203	-.015501	.006698	.014315	.025509	-.020311
46	.055165	-.012018	.008870	.006957	.023440	-.024643
47	.040157	-.008499	.009034	.000730	.022679	-.031739
48	.030450	-.006008	.007376	-.008745	.021681	-.034725
49	.021712	-.002963	.002904	-.016960	.021000	-.032559
50	.012549	.001872	-.000687	-.019806	.019977	-.027966
51	-.003178	.002992	-.002964	-.019589	.020585	-.021320
52	-.017882	.007499	-.007741	-.014583	.017337	-.017437
53	-.030247	.013371	-.011948	-.011708	.010641	-.017519
54	-.034429	.021033	-.007142	-.009968	.009020	-.016069
55	-.032915	.023972	-.003698	-.004544	.011053	-.011781
56	-.031774	.023502	-.006222	-.006784	.004032	-.003018
57	-.034403	.029050	-.006804	-.011292	-.006107	.008621
58	-.034466	.037864	-.004333	-.004676	-.007564	.017070
59	-.031837	.045082	.002991	.001942	-.004171	.019796
60	-.026816	.050582	.012026	.008250	-.003418	.022098

RUN NO. 64A 40M 05-09-62 0941-1057 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.14007 10E 01	0.1457 10E 01	0.10892 10E 01	0.69264 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	-.864068	.829317	.776849	.884382
2	.694596	.619710	.531721	.708643
3	.562324	.471544	.369314	.565435
4	.446812	.359954	.260994	.450242
5	.353008	.270774	.176510	.353366
6	.273323	.208854	.110127	.275216
7	.200223	.162792	.056822	.209201
8	.131411	.123959	.022637	.145167
9	.068251	.088218	-.003547	.083601
10	.011131	.035498	-.040420	.027389
11	-.038178	-.024733	-.081499	-.022010
12	-.073031	-.067969	-.110666	-.061459
13	-.101796	-.085318	-.131308	-.093356
14	-.131137	-.100604	-.144603	-.127239
15	-.159323	-.118663	-.165137	-.164427
16	-.179427	-.132677	-.180338	-.196311
17	-.197541	-.145612	-.184551	-.217838
18	-.217995	-.164015	-.179599	-.231613
19	-.239605	-.190632	-.176951	-.239543
20	-.261827	-.221822	-.176293	-.243708
21	-.277496	-.245742	-.170360	-.248184
22	-.285880	-.263429	-.162306	-.256044
23	-.293944	-.274049	-.163634	-.266334
24	-.300653	-.277101	-.170446	-.280192
25	-.302169	-.277378	-.171988	-.290653
26	-.301217	-.268571	-.162545	-.288004
27	-.295545	-.245908	-.150712	-.278384
28	-.276595	-.225283	-.139776	-.266049
29	-.247897	-.203273	-.131908	-.250970
30	-.212365	-.175766	-.123109	-.224739
31	-.174715	-.135720	-.096329	-.190106
32	-.140205	-.098174	-.076462	-.156505
33	-.109435	-.075559	-.065772	-.130506
34	-.083810	-.068807	-.054192	-.112908
35	-.063360	-.063587	-.044217	-.098509
36	-.039848	-.058098	-.031954	-.084561
37	-.018629	-.051616	-.023345	-.072463
38	.000215	-.047876	-.019233	-.066206
39	.017498	-.041567	-.016110	-.055648
40	.031840	-.033600	-.009670	-.037390
41	.042549	-.022649	.006160	-.019474
42	.051548	-.005920	.016979	-.001525
43	.061471	.004832	.027107	.015383
44	.072635	.011184	.044083	.028761
45	.073560	.022863	.062803	.044846
46	.068860	.034105	.076140	.064262
47	.067521	.038813	.082683	.079461
48	.068122	.042358	.086273	.085808
49	.069634	.049195	.088011	.086180
50	.069891	.054969	.074297	.090618
51	.067483	.055577	.057615	.092797
52	.066695	.051468	.046630	.090419
53	.068099	.038828	.033854	.091063
54	.064160	.019067	.027925	.094790
55	.050527	.006271	.039847	.092276
56	.038982	-.000873	.054001	.086936
57	.029413	.000382	.060944	.080551
58	.020712	.009701	.055651	.072306
59	.017666	.022401	.046933	.059197
60	.017686	.022913	.036995	.045869

RUN NO. 64A 40M 05-09-62 0941-1057 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
0	-.006470	-.072223	-.019213	-.006424	.007156	.020152
1	.016919	-.700729	-.257848	.185491	.505975	.175201
2	.265787	-.811108	-.338024	.141164	.209280	.197906
3	.420553	-.678288	-.283532	-.109654	-.264365	.179193
4	.146623	-.349964	-.125934	-.150719	-.102727	.114170
5	-.063067	-.268370	-.090449	.050187	.132866	.090281
6	-.058536	-.239469	-.095119	.100724	.146595	.078354
7-8	-.046035	-.160998	-.062386	-.025228	.029830	.051868
9-11	.006429	-.113364	-.026560	-.015081	-.001953	.035512
12-15	.025250	-.055246	-.011826	-.041098	.008992	.020340
16-20	.013505	-.036719	-.008374	-.035771	-.036667	.014598
21-27	-.001515	-.005831	-.001071	-.011166	.008591	.007933
28-36	.006144	-.005639	-.000968	-.006765	.012006	.003637
37-47	.005836	-.001763	-.000710	-.008758	.001933	.001723
48-60	.002329	-.000095	-.000281	-.001210	.001669	.000756

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	-.152252	-.161055	-.121485	-.057602	.182653	.595629
2	-.342783	-.098596	-.125486	-.210920	.015983	.676007
3	-.111379	-.133903	-.110170	-.249497	.078167	.645338
4	.159477	-.178562	-.058886	-.144149	.039294	.440994
5	-.028990	-.121264	-.033647	-.123373	-.156062	.195538
6	-.130469	-.033430	-.027376	-.097105	-.205064	.081042
7-8	.018262	-.008377	-.015417	-.037235	-.018721	.086220
9-11	.049959	-.039586	-.013648	-.001311	.099788	.067278
12-15	.040136	.000094	-.005791	-.022824	.025063	.044153
16-20	.012934	-.007250	-.003929	.001184	.011898	.025514
21-27	.001162	-.005803	-.001439	-.000616	-.009497	.004624
28-36	-.004331	.002022	-.000417	-.003479	.002027	.008546
37-47	.000822	-.002093	-.000201	-.001700	.004239	-.002477
48-60	-.002002	-.001009	-.000214	.001181	.000343	.000976

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E 00	10E-01
0	.020320	.020523	.007494	.010327
1	.204226	.201594	.095177	.108300
2	.264397	.243652	.135447	.133854
3	.257724	.228708	.146318	.123547
4	.140289	.129830	.103546	.070614
5	.081456	.074727	.076506	.044547
6	.077669	.069838	.061693	.036448
7-8	.057805	.066549	.046577	.026329
9-11	.029666	.034707	.035185	.016697
12-15	.020017	.032135	.024692	.009957
16-20	.013356	.016157	.015673	.006865
21-27	.007527	.011184	.011643	.003489
28-36	.005073	.006947	.006724	.002159
37-47	.003612	.004360	.004605	.001031
48-60	.001984	.002605	.003072	.000556

RUN NO. 64A 40M 05-09-62 0941-1057 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21652 10E 01	0.12525 10E 01	0.46176 10E 00	0.11842 10E 01	0.43660 10E 00	0.25255 10E 00
0	-.019085	-.431273	-.460326	-.018198	-.092739	.526473
1	-.024480	-.274558	-.289407	-.025327	-.112164	.295694
2	-.054453	-.143560	-.148114	-.029088	-.092673	.147480
3	-.042737	-.048912	-.065695	-.066026	-.099236	.034768
4	-.016050	-.002390	-.056805	-.024126	-.089639	-.029898
5	-.013093	-.001701	-.078082	.012899	-.030006	-.038135
6	-.025991	.025812	-.025665	.046527	.027458	-.072962
7	-.009352	.039711	.031920	.046686	.055053	-.071355
8	.017481	-.036228	.053197	-.032413	.054501	-.037877
9	.024647	.013379	.037572	-.050894	.042990	.000269
10	.037551	.022622	.012654	-.025876	.001208	.011426
11	.052948	.087229	.062803	.038531	.002074	.027166
12	.076183	.146960	.111670	.019487	-.007690	-.056793
13	.059523	.122043	.124457	-.022015	.014188	-.073394
14	.092995	.104595	.098966	-.030238	.006109	-.093714
15	.080430	.050180	.043953	.009005	.007368	-.086481
16	.074739	.020386	.045640	.012339	.029099	-.028070
17	.066951	.027903	.069183	.005071	.031437	-.045080
18	.032501	-.002739	.062737	-.018225	.041614	-.032035
19	.036297	-.000862	.050570	-.027315	.001287	-.037163
20	-.003261	.031539	.072246	.028384	.027527	-.071445
21	-.038688	.064202	.096110	.025408	.052471	-.092002
22	-.048748	.073369	.110596	.054556	.072540	-.060736
23	-.049206	.096757	.123944	.036475	.050720	-.061046
24	-.075282	.053712	.094472	.033981	.036138	-.068588
25	-.102410	.026432	.071491	.049985	.021188	-.012331
26	-.105117	.000282	.063972	.032658	-.030989	-.025268
27	-.093982	.004684	.033759	.006181	-.024838	-.004161
28	-.086435	-.029485	-.009309	-.058674	-.004664	.043360
29	-.088325	-.028068	-.019347	-.050676	.018056	.003844
30	-.079043	-.060307	-.045155	-.033307	.020446	.052004

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-01
0	.090169	-.075923	-.050077	-.040168	-.031390	.021047
1	-.188217	-.763307	-.403076	-.167269	-.175424	.163466
2	-.624881	-.793139	-.340793	-.065643	-.130099	.144174
3	-.345120	-.715446	-.250583	-.054512	-.106970	.121762
4	.165202	-.470039	-.168412	-.096094	-.105346	.118620
5	.077829	-.283050	-.099763	-.064626	-.066828	.124189
6	-.000037	-.405675	-.105228	-.071852	-.010463	.129396
7	.019540	-.495238	-.120510	-.046368	.034023	.107841
8	.017602	-.295426	-.081893	.042807	.058572	.051917
9-11	.026950	-.146276	-.082526	.158740	.019803	.042089
12-14	.088016	-.177450	-.083213	-.058222	-.011310	.036293
15-21	.022478	-.052225	-.020808	-.010290	-.002428	.019113
22-30	-.024096	-.078201	-.030580	.010187	.010596	.027128

RUN NO. 64A 40M 05-09-62 0941-1057 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21652 10E 01	0.12525 10E 01	0.46176 10E 00	0.11142 10E 01	0.43660 10E 00	0.25255 10E 00
1	.022633	-.046495	-.137592	.011729	.037766	.112417
2	.029807	-.029656	-.189220	.066653	.055292	.106724
3	.079432	-.044433	-.216854	.063405	.058234	.129906
4	.125457	-.036767	-.241303	.117126	.067218	.122093
5	.081337	.002853	-.247129	.068926	.055128	.094801
6	.032442	.027505	-.241149	.036892	.008452	.118122
7	-.003922	.030533	-.207968	-.005228	-.042841	.090579
8	-.002388	.025673	-.202878	-.036053	-.042508	.043199
9	.008843	.007505	-.205945	-.024349	-.031655	.036872
10	.017970	.021288	-.140198	-.012266	.009375	.043137
11	.010401	-.011785	-.126667	-.008464	.035090	.050856
12	-.006979	-.063520	-.110433	-.052708	.021959	.045359
13	.020339	-.077501	-.058344	-.025039	.019244	-.003444
14	.000205	-.072548	-.040287	-.030776	.008942	.015255
15	.006568	-.014863	.002101	-.037497	.024870	-.021052
16	.074714	.011949	.027440	.030060	.094789	.009000
17	.093140	.022954	.047969	.025701	.093208	.034659
18	.081515	-.000110	.059914	.049014	.077791	.007060
19	.100359	-.012121	.043971	.075379	.047623	-.008208
20	.102105	-.020069	.033840	.065790	.014779	-.047121
21	.092442	-.008943	.043622	.055333	-.003581	-.048371
22	.044556	-.021865	.057169	.039372	-.016060	-.045448
23	-.004146	-.007148	.067267	-.012976	-.079379	-.018412
24	-.033900	.009379	.066387	-.014803	-.090541	-.046471
25	-.053447	.036079	.069977	-.057055	-.104045	-.049467
26	-.030802	.041889	.105760	-.023711	-.072677	-.068008
27	-.009293	-.023757	.111959	-.017061	-.044477	-.084339
28	-.017142	-.013158	.103702	.004344	-.034818	-.064906
29	-.051919	-.035086	.062603	.021152	.007919	-.097823
30	-.088576	-.029603	.054232	-.044748	-.008002	-.078340

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
1	.780247	-.145821	-.521675	.100322	.901711	.110790
2	.239476	-.027805	-.496293	.065787	.241381	.110319
3	.298649	.052502	-.363504	.238115	-.033916	.090577
4	.616187	-.018496	-.165671	.370733	.850939	.069339
5	.337277	-.179981	-.082278	.196120	.975269	.051842
6	.147708	-.265034	-.075594	.099898	.537305	.032720
7	.197757	-.130464	-.059391	.109713	.566789	.027833
8	.009526	.029632	-.030683	.001805	.236395	.021286
9-11	-.213635	-.043477	-.024361	-.091349	-.287686	.011873
12-14	-.080518	.033704	-.016871	-.001911	.135608	.015128
15-21	.074086	-.040786	-.012261	.002165	.041667	.007541
22-30	-.001306	-.021883	-.004971	-.057106	-.012503	.006118

RUN NO. 64A 40M 05-09-62 0941-1057 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.22900 10E 01	0.20472 10E 01	0.68503 10E 00	0.93111 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.676382	.670124	.323352	.605162
2	.436492	.400772	.034527	.306503
3	.289850	.214051	-.051698	.145389
4	.206752	.088497	-.096008	.063076
5	.149795	.011865	-.035790	.050729
6	.057019	-.070672	-.096395	-.039309
7	-.031416	-.133542	-.126752	-.110853
8	-.073774	-.220373	-.081851	-.120272
9	-.093586	-.274085	.015717	-.126893
10	-.142921	-.321553	.010409	-.118073
11	-.272128	-.345312	-.000426	-.122117
12	-.356105	-.327384	-.074444	-.197150
13	-.399010	-.313609	-.098438	-.198401
14	-.387046	-.249083	-.124564	-.159119
15	-.288909	-.177099	-.079336	-.094091
16	-.243244	-.054214	.014315	-.043461
17	-.234685	.011548	-.026793	-.079150
18	-.174875	.061832	-.028678	-.114622
19	-.119065	.040355	-.050720	-.116758
20	-.128763	.065163	.002274	-.136917
21	-.143287	.074365	-.051292	-.134591
22	-.138661	.147847	.012075	-.129304
23	-.098813	.198303	-.036878	-.136940
24	-.040025	.216601	-.053636	-.119223
25	-.018708	.159684	-.006440	-.088076
26	.024898	.142897	-.040834	-.117896
27	.062050	.145099	-.048156	-.008743
28	.101752	.102939	-.037066	.050500
29	.102623	.041628	-.002164	.033793
30	.083628	-.011082	.086077	.087865

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.044885	.021283	.038248	.016037
1	.487414	.226417	.372947	.138636
2	.498192	.362508	.415086	.132510
3	.349035	.405234	.443914	.116501
4	.141886	.220305	.425929	.089924
5	.082441	.102830	.454921	.060487
6	.118131	.092488	.506974	.050648
7	.131008	.111755	.460229	.052782
8	.078457	.093424	.316054	.041169
9-11	.052813	.064928	.300000	.032894
12-14	.060195	.038403	.316606	.027909
15-21	.028316	.024981	.198323	.013780
22-30	.0.8091	.024075	.218775	.014357

RUN NO. 64A 16M 05-09-62 0941-1057 EST
 RUN NO. 64A 40M 05-09-62 0941-1057 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.873725	.690964	.818040	.882098
1	.741544	.695665	.794191	.820463
2	.626201	.655840	.761589	.766645
3	.526714	.606567	.692965	.695225
4	.449580	.528525	.607811	.607118
5	.353207	.489181	.581542	.546229
6	.163297	.498290	.526570	.439806
7-8	.099881	.451257	.471700	.398711
9-11	.090284	.344808	.457034	.349362
12-15	.114615	.334249	.273683	.219906
16-20	.125628	.157136	.285064	.135033
21-27	.091856	.137386	.155134	.110095
28-36	.079825	.073206	.159500	.122713
37-47	.127206	.120174	.102846	.096072
48-60	.107598	.074535	.079236	.121337

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.971215	.990617	.898809	.945689
1	.967362	.953041	.883378	.945529
2	.950132	.935273	.812211	.892176
3	.907374	.899808	.851311	.809572
4	.810601	.849273	.910565	.810908
5	.791772	.785102	.856628	.884009
6	.843144	.803696	.825736	.933537
7	.846181	.776255	.782998	.923751
8	.844797	.672694	.642619	.888769
9-11	.628124	.644471	.771752	.773098
12-14	.556130	.601913	.708085	.737577
15-21	.436711	.379393	.571710	.547945
22-30	.306462	.392457	.483443	.469813

RUN NO. 64L 16M 05-09-62 1103-1216 EST

GROSS STATISTICS

CLEAR	WIND SPEED	9.62 M/SEC	WIND DIRECTION	319 DEG
UNSTABLE	SIGMA A	15.8 DEG	SOLAR RADIATION	1.49
LAND	SIGMA E	5.9 DEG	NET RADIATION	1.02

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.54770E 01	0.43788E 01	0.21112E 01	0.35081E 01
V	0.81343E 01	0.50987E 01	0.24602E 01	0.39328E 01
W	0.86023E 00	0.86051E 00	0.78970E 00	0.30937E-00
T	0.36557E-00	0.21207E-00	0.12282E-00	0.15356E-00
E	0.72358E 01	0.51693E 01	0.26806E 01	

GUSTINESS RATIOS				
U	0.24327	0.21752	0.15104	0.18907
V	0.29647	0.23472	0.16305	0.20615
W	0.09641	0.09643	0.09238	0.05782

COVARIANCES				
U,V	0.11099E 01	0.27206E-00	-0.30229E-01	0.25093E-00
U,W	-0.68301E 00	-0.71942E 00	-0.50238E 00	-0.46249E-00
U,T	-0.38008E-00	-0.48840E-00	-0.23669E-00	-0.39431E-00
V,W	0.22621E-00	0.13952E-00	0.97727E-01	0.78685E-01
V,T	0.24571E-00	-0.10735E-00	-0.41058E-01	-0.83928E-01
W,T	0.21055E-00	0.19572E-00	0.14469E-00	0.12021E-00
WE	-0.18364E-00	-0.28244E-01	0.17760E-00	

NORMALIZED COVARIANCES				
U,V	0.16628	0.05758	-0.01326	0.06957
U,W	-0.31466	-0.37062	-0.38907	-0.45717
U,T	-0.26860	-0.50684	-0.46481	-0.55324
V,W	0.08552	0.06613	0.07011	0.07133
V,T	0.14249	-0.10324	-0.07469	-0.10800
W,T	0.37545	0.45818	0.46458	0.55153

RUN NO. 648 16M 05-09-62 1103-1216 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.22787 10E 01	0.12910 10E 01	0.50926 10E 00	0.13937 10E 01	0.54976 10E 00	0.31147 10E 00
0	-.013149	-.389208	-.464807	.069993	-.074707	.464605
1	-.012747	-.326530	-.426465	.057173	-.070523	.373012
2	-.012993	-.248491	-.363693	.043465	-.062984	.267533
3	-.014699	-.184143	-.299275	.031821	-.049667	.200037
4	-.016232	-.131445	-.240601	.017006	-.038040	.151536
5	-.010255	-.077638	-.184459	.006840	-.032821	.105072
6	-.018132	-.034899	-.130787	-.002027	-.026358	.065149
7	-.018956	-.009119	-.086278	-.006546	-.017379	.028287
8	-.016586	.007189	-.053449	-.007345	-.009310	.006582
9	-.013185	.022043	-.031696	-.005473	-.001506	-.008502
10	-.008127	.030552	-.011269	-.004039	.007725	-.017592
11	-.005650	.034999	.002935	-.003346	.016669	-.026614
12	-.006829	.040575	.021373	.000013	.024314	-.042279
13	-.004311	.043844	.043374	.005044	.030752	-.063049
14	-.001103	.045276	.065731	-.004231	.029858	-.084510
15	.007268	.046967	.081342	-.005921	.036938	-.086342
16	.013338	.050351	.098043	-.004296	.043463	-.086038
17	.014029	.061688	.113098	-.006551	.042667	-.089433
18	.017364	.071385	.126511	-.013745	.039989	-.086077
19	.024384	.076292	.132321	-.018821	.034851	-.089092
20	.031482	.075812	.126780	-.024062	.027121	-.086090
21	.041996	.072104	.120195	-.032685	.016654	-.080473
22	.044856	.072960	.121226	-.044291	.003360	-.084258
23	.046051	.074945	.122413	-.039632	-.004254	-.084922
24	.047390	.074732	.120944	-.023130	-.008471	-.086392
25	.048814	.073029	.120684	-.018297	-.013439	-.092386
26	.047026	.069756	.119055	-.021178	-.016550	-.099703
27	.042289	.060855	.114247	-.022428	-.014253	-.100334
28	.033704	.052083	.106695	-.019676	-.015512	-.081373
29	.015641	.041929	.093662	-.011596	-.010534	-.054636
30	.001393	.033678	.080917	-.002470	-.002685	-.040118
31	-.010910	.032619	.067625	.009056	.001502	-.024275
32	-.011959	.025925	.051727	.005067	-.002181	-.018310
33	-.008120	.023164	.035190	.003849	-.001920	-.016271
34	-.009844	.017457	.023161	.013561	.003051	-.008015
35	-.014526	.018181	.020033	.017056	.009611	-.000091
36	-.015646	.010983	.020891	.014786	.015392	.009097
37	-.019047	.009530	.020024	.015240	.016686	.007990
38	-.028623	.012769	.017271	.013849	.017293	.002219
39	-.033622	.017046	.020698	.019759	.018313	-.000616
40	-.034093	.026351	.032709	.024145	.017780	-.007549
41	-.029121	.027128	.040276	.019548	.013725	-.010781
42	-.025362	.025461	.042100	.016515	.011647	-.019608
43	-.028402	.014500	.036866	.022460	.008836	-.028517
44	-.029336	-.006231	.028259	.030739	.009925	-.024093
45	-.028536	-.012599	.017662	.030368	.013173	-.007270
46	-.022238	-.019224	.008254	.020684	.011592	.002216
47	-.020445	-.026571	-.000538	.010390	.006032	.006650
48	-.017647	-.029676	-.011362	.001382	-.003046	.014052
49	-.010831	-.040928	-.026580	.003391	-.009272	.034158
50	-.005679	-.044172	-.039495	.005975	-.009550	.044963
51	-.002424	-.042624	-.049515	.007296	-.008232	.043911
52	.006729	-.042201	-.057647	-.003431	-.015017	.044147
53	.013657	-.043934	-.057823	-.013003	-.024837	.040163
54	.013021	-.043446	-.055557	-.021637	-.031085	.037897
55	.016577	-.038748	-.049471	-.023250	-.028399	.034670
56	.020596	-.024568	-.044612	-.015603	-.016898	.023531
57	.024063	-.015972	-.041452	-.006034	-.003582	.010359
58	.024982	-.020238	-.037831	-.003867	.007046	.004011
59	.024983	-.020132	-.029916	-.003339	.014390	-.001719
60	.022292	-.023519	-.017793	-.005528	.018334	-.002995

RUN NO. 648 16M 05-09-62 1103-1216 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.22787 10E 01	0.12910 10E 01	0.50926 10E 00	0.13937 10E 01	0.54976 10E 00	0.31147 10E 00
1	.009940	-.070905	-.061400	.008749	.004481	.031276
2	.019560	-.095302	-.095405	.009086	.008657	.037254
3	.027839	-.104692	-.116470	.001652	.008155	.034559
4	.029798	-.100541	-.132193	-.006948	.004836	.025324
5	.026798	-.088448	-.138485	-.019896	-.002622	.017971
6	.019638	-.078182	-.144326	-.025376	-.012551	.013186
7	.011123	-.066879	-.147775	-.024034	-.015260	.006484
8	.002319	-.058577	-.152815	-.019509	-.011616	.000362
9	-.001202	-.049532	-.157465	-.017915	-.005085	.000439
10	-.003172	-.047707	-.153534	-.017834	-.002544	-.001932
11	.003100	-.045727	-.145554	-.014954	-.001781	-.000089
12	.010572	-.045269	-.138415	-.014326	-.000489	.002368
13	.011985	-.057310	-.138790	-.017310	.000519	-.004179
14	.013977	-.062339	-.134597	-.020629	.004118	-.007093
15	.018816	-.050601	-.119408	-.012126	.009757	-.013934
16	.016890	-.044499	-.105711	-.014267	.015967	-.012185
17	.012768	-.040493	-.088394	-.021517	.017255	-.012112
18	.011165	-.035070	-.072278	-.024791	.019671	-.016839
19	.010463	-.035081	-.054578	-.017337	.027430	-.022220
20	.011922	-.028949	-.034556	-.009434	.026871	-.025791
21	.014347	-.025957	-.014833	-.009370	.018777	-.025567
22	.011216	-.015667	.002034	-.006589	.007073	-.019822
23	.004582	-.000632	.016168	-.002090	.000629	-.013547
24	.000578	.006335	.027941	.002628	-.001945	-.013929
25	-.002994	.002289	.033149	.007324	-.010186	-.015902
26	-.011712	-.004255	.035611	.004715	-.018637	-.015641
27	-.020970	-.006836	.039774	-.003944	-.026272	-.015417
28	-.026657	.001207	.039773	-.011806	-.029923	-.007539
29	-.030772	.007133	.031213	-.012587	-.024598	.003204
30	-.029752	.017781	.028109	-.013427	-.015940	.015009
31	-.028185	.030960	.034947	-.004615	-.011663	.028689
32	-.026966	.038145	.036556	.004266	-.007195	.038805
33	-.022422	.037533	.036922	.005387	-.005390	.041780
34	-.017185	.041844	.040270	.001985	-.004878	.035069
35	-.011860	.042052	.041200	.003471	-.002354	.019992
36	-.004450	.045738	.043249	.005477	.000895	.007476
37	.002572	.035777	.042498	.006482	-.000280	.000810
38	.006008	.032690	.038995	.009748	.004370	-.008981
39	.016822	.030913	.034188	.016222	.009768	-.014293
40	.027571	.029757	.023868	.025659	.018888	-.008002
41	.029580	.032617	.016255	.021393	.025250	.006916
42	.026613	.044429	.018448	.015470	.024474	.010244
43	.022393	.052664	.017965	.017689	.019261	.014621
44	.016937	.044207	.015251	.024983	.015665	.024050
45	.008130	.034878	.014311	.030370	.014098	.032889
46	.001173	.028231	.015560	.028384	.013400	.038701
47	-.000256	.024349	.016143	.021193	.009271	.034598
48	.003303	.027448	.016748	.016446	.008434	.029359
49	.009009	.030568	.018614	.015205	.007341	.014866
50	.010686	.027824	.010775	.007018	.001053	.011211
51	.009459	.019232	.001123	-.002104	.000614	.002442
52	.009373	.003867	-.006248	-.010664	-.001067	-.007109
53	.009409	-.007775	-.009276	-.016726	-.001783	-.011673
54	.009630	-.017460	-.011490	-.017185	-.004032	-.016077
55	.007465	-.028498	-.012363	-.013657	-.006701	-.017419
56	.005982	-.039035	-.009228	-.005843	-.008131	-.016379
57	-.000297	-.040694	-.006053	-.007678	-.014002	-.021229
58	-.007773	-.042886	-.003588	-.007383	-.016198	-.029927
59	-.014351	-.039535	.000680	-.008978	-.014948	-.030314
60	-.019740	-.030308	-.001541	-.013254	-.017878	-.027218

RUN NO. 64B 16M 05-09-62 1103-1216 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOVARIANCE

M	U	V	W	T
	0.21109 10E 01	0.24600 10E 01	0.78962 10E 00	0.12286 10E 00
0	1.000000	1.000000	1.000000	1.000000
1	.831148	.838918	.635633	.849150
2	.640909	.640833	.338783	.658825
3	.495849	.501048	.188787	.517531
4	.376970	.394854	.089252	.406348
5	.273751	.309809	.022235	.312060
6	.193562	.237745	-.022692	.226248
7	.135432	.169165	-.049684	.151561
8	.084194	.113864	-.051373	.096588
9	.042586	.069206	-.063777	.054574
10	.006354	.031083	-.080974	.020904
11	-.015275	-.007287	-.089880	-.014811
12	-.034569	-.040998	-.099654	-.060072
13	-.054778	-.072679	-.102684	-.103669
14	-.081911	-.109083	-.111107	-.136810
15	-.111275	-.144550	-.101020	-.164611
16	-.136456	-.171148	-.086231	-.196179
17	-.166024	-.190089	-.081367	-.219168
18	-.187038	-.204888	-.078390	-.229403
19	-.197493	-.216044	-.097944	-.233072
20	-.208487	-.224234	-.106117	-.231938
21	-.215866	-.216901	-.104537	-.232932
22	-.222729	-.209247	-.106896	-.238871
23	-.226777	-.198995	-.098778	-.247239
24	-.218593	-.196202	-.081245	-.257857
25	-.200043	-.193327	-.075640	-.265106
26	-.189850	-.182357	-.084836	-.265647
27	-.181323	-.171505	-.097238	-.250305
28	-.172868	-.163102	-.092546	-.216763
29	-.168849	-.149975	-.064990	-.178447
30	-.160950	-.135668	-.048538	-.144192
31	-.136575	-.120655	-.028919	-.101361
32	-.103637	-.101344	-.025061	-.063413
33	-.079263	-.079931	-.007240	-.039255
34	-.056387	-.055942	.003218	-.020722
35	-.038585	-.040150	-.005047	-.011462
36	-.026602	-.030070	.005917	-.009398
37	-.026345	-.020312	.010876	-.014363
38	-.029878	-.014136	-.008083	-.016883
39	-.036410	-.012666	-.021447	-.011693
40	-.038763	-.019275	-.025411	-.001904
41	-.038776	-.029064	-.005398	.003958
42	-.034834	-.030770	.007577	.004157
43	-.025512	-.030169	.011050	-.000413
44	-.006990	-.027466	.026270	.000007
45	-.000217	-.024678	.039218	.008566
46	.004931	-.018493	.043784	.014738
47	.015261	-.006603	.042749	.016426
48	.025954	-.007660	.031664	.019517
49	.036708	-.008262	.049952	.026655
50	.052523	-.000929	.044492	.034997
51	.061855	-.003067	.028662	.042227
52	.063442	-.007531	.030365	.051853
53	.065255	-.013587	.030725	.054719
54	.063314	-.024931	.035966	.053031
55	.059486	-.035969	.056420	.045699
56	.051683	-.043050	.040801	.032247
57	.047702	-.048194	.017831	.018123
58	.041038	-.054205	.004580	.008825
59	.023490	-.063959	-.003812	.002019
60	.009845	-.075264	-.009222	-.001908

RUN NO. 64B 16M 05-09-62 1103-1216 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
0	.022035	-.050586	-.046511	.005675	-.057370	.013254
1	-.002275	-.519756	-.399373	.042698	-.495694	.143788
2	-.225280	-.676127	-.461051	.124488	-.592242	.192953
3	-.313264	-.708849	-.446177	.184532	-.799422	.212139
4	-.009817	-.527956	-.290830	.076614	-.984117	.153750
5	.166550	-.386268	-.163178	.009532	-.705900	.098012
6	.068597	-.318693	-.118601	.047718	-.131900	.083027
7-8	-.032391	-.303828	-.099313	.095088	.053777	.067216
9-11	.029111	-.173362	-.066104	.045646	-.119244	.043979
12-15	.001818	-.079598	-.019276	.019803	-.036222	.026313
16-20	-.010147	-.044283	-.010317	.006413	-.032899	.016067
21-27	.003441	-.032546	-.008840	.001324	-.010262	.014303
28-36	-.001000	-.026857	-.004404	.005694	.015371	.008985
37-47	.000604	-.011289	-.002113	.005332	-.003044	.005709
48-60	-.000907	-.009666	-.001709	.001648	-.005551	.002888

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.048337	-.211050	-.196554	-.098077	.060123	-.051492
2	.103778	-.364667	-.273418	-.123749	.062489	-.128917
3	.187810	-.337930	-.300079	-.075635	.145889	.033897
4	.065326	-.179586	-.188714	-.030831	-.109488	.247605
5	-.064079	-.142979	-.080877	-.027089	-.396688	.247136
6	.050330	-.139787	-.028803	.011570	-.152754	.089381
7-8	.118054	-.130891	-.026150	-.001186	.195064	.086056
9-11	.074558	-.125216	-.027650	.015594	.037153	.107378
12-15	.011651	-.055921	-.013025	.024448	.101734	.084209
16-20	-.008696	-.032686	-.009589	.019482	.015903	.037632
21-27	-.001959	-.012732	-.002289	.000740	-.019360	.034777
28-36	-.000583	-.010475	-.003004	.000673	.001817	.010980
37-47	-.000517	-.009500	-.002163	.000784	-.002810	.011733
48-60	.001230	-.001602	.000324	-.000779	-.001470	.001817

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.040005	.052317	.023465	.019031
1	.299937	.368932	.350522	.167115
2	.333837	.395120	.547470	.205678
3	.319465	.388106	.666092	.210534
4	.203503	.256422	.557324	.131249
5	.126058	.151482	.466543	.071373
6	.107076	.115842	.438831	.060831
7-8	.096834	.090045	.400278	.051875
9-11	.064890	.070013	.290159	.033813
12-15	.032888	.038928	.232025	.018556
16-20	.022628	.027703	.150297	.011651
21-27	.013481	.018923	.116200	.009268
28-36	.010483	.010951	.092634	.005015
37-47	.006626	.007244	.069526	.003228
48-60	.004635	.003995	.044589	.001861

RUN NO. 64B 16M 05-09-62 1103-1216 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.36058 10E 01	0.10114 10F 01	0.71237 10E 00	0.11027 10E 01	0.77668 10E 00	0.21786 10E 00
0	.069590	-.457266	-.553527	.071353	-.108059	.551774
1	.065669	-.203562	-.369720	.053457	-.063594	.235693
2	.071769	-.086184	-.197660	.034424	-.026922	.075978
3	.056522	-.037519	-.098741	.044115	-.014417	.030130
4	.027910	.051297	.001740	.056711	.008729	-.069626
5	.026550	.046198	.050163	.012120	.009345	-.050391
6	-.000439	.088905	.106013	.007523	.025148	-.107161
7	-.022829	.155843	.173134	-.006328	.015562	-.131633
8	-.048946	.192482	.210649	-.000387	-.013668	-.156854
9	-.087953	.153348	.213581	-.006049	-.026442	-.132068
10	-.047495	.119919	.188260	-.019031	-.026440	-.128836
11	-.047382	.100335	.159809	-.012562	.012737	-.138566
12	-.070867	.019522	.101879	.017633	.050535	-.106939
13	-.000738	-.002197	.022370	-.045978	-.003417	-.043074
14	.038339	-.067678	-.075119	-.097606	-.069582	.026169
15	.055346	-.074723	-.122406	-.061229	-.094405	.087186
16	.059347	-.105849	-.143878	-.093506	-.105558	.159337
17	.007645	-.099365	-.116781	-.077143	-.080123	.138674
18	-.037480	-.096113	-.068247	-.032675	-.021906	.077290
19	-.058710	-.090624	-.029668	-.009677	.035609	.086555
20	-.062879	-.019799	.024990	.024633	.092763	.038651
21	-.032869	-.037717	.025703	-.000613	.105172	.026182
22	-.011990	-.029539	.039100	.052415	.124602	.012233
23	-.023445	.056069	.098541	.069000	.111648	-.037317
24	-.015131	.038736	.084209	.033771	.077108	.009892
25	-.007202	.046461	.100462	.010347	.073929	.022548
26	-.014768	.071577	.125586	-.022252	.080710	-.045780
27	-.022313	.052200	.106530	-.018489	.092021	-.052444
28	-.011960	.058324	.071116	.007879	.075667	-.063298
29	.023416	.024229	.017446	-.026388	.022978	-.040825
30	.038999	.018721	-.004984	-.010102	.020672	-.047277

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-01
0	.058355	-.003643	-.036645	.015972	-.046571	.000850
1	.656088	-.021222	-.276619	.241335	-.160477	.009893
2	.705457	-.258457	-.411581	.285544	.001653	.072979
3	.880189	-.753167	-.773524	.137615	-.047601	.180871
4	.876602	-.796454	-.782425	-.043940	-.182762	.171693
5	.151057	-.385272	-.335884	.059459	-.041868	.073529
6	-.487729	-.163801	-.098201	.090163	-.004499	.044165
7	-.165796	-.139764	-.154443	-.039867	-.145098	.072329
8	.223734	-.161188	-.200092	-.066931	-.110644	.069557
9-11	-.017542	-.197721	-.126066	.010745	.022416	.043723
12-14	-.045938	-.144779	-.089717	.010278	-.048999	.041727
15-21	-.050720	-.110358	-.054639	.038446	-.009853	.030891
22-30	.068539	-.115961	-.039548	-.011399	-.014821	.031085

RUN NO. 648 16M 05-09-62 1103-1216 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.36058 10E 01	0.10114 10E 01	0.71237 10E 00	0.11027 10E 01	0.77668 10E 00	0.21786 10E 00
1	.025461	-.077110	-.161756	-.006494	.014018	.025915
2	.036971	-.042063	-.180596	.008885	.037297	.026769
3	.021259	-.012938	-.195923	.003942	.020116	.050836
4	.026565	.018527	-.209545	.028887	.026112	.082327
5	.007370	.007620	-.203647	-.005183	.005899	.070677
6	-.014100	-.051954	-.201721	-.007649	.001753	.047148
7	-.035637	-.049434	-.180394	-.017284	-.006610	.034165
8	-.040622	-.029584	-.126831	-.031372	-.003961	.032771
9	-.002136	-.041910	-.073316	.002163	.024982	.006140
10	-.003616	-.041240	.005185	-.005712	.020056	-.033382
11	-.038825	-.026121	.082249	-.052857	-.042712	-.091207
12	-.053049	.004083	.124291	-.071956	-.072235	-.077944
13	-.070220	.061440	.150231	-.052424	-.073871	-.043784
14	-.095667	.072890	.151122	-.076325	-.078285	-.026456
15	-.082814	.016294	.110332	-.078402	-.053609	-.030969
16	-.048179	.000518	.068185	-.027233	-.034259	-.037353
17	-.036186	-.004199	.006937	-.020423	-.004591	-.025167
18	.032761	.017634	-.030225	.087379	.042873	-.002093
19	.071552	.047445	-.078579	.114697	.086723	.063268
20	.072245	.033178	-.092801	.083531	.101587	.062011
21	.076027	.034161	-.086132	.105780	.127398	.061455
22	.085069	.013692	-.116154	.111414	.110173	.096608
23	.097092	.006463	-.102360	.109781	.092454	.050580
24	.099630	-.045860	-.069518	.069871	.058575	-.034447
25	.069420	-.040912	-.040502	.008838	.000251	-.038631
26	.044173	-.018094	.001190	.001134	-.027446	-.034906
27	.005818	-.044856	.021437	-.040911	-.065428	-.011462
28	-.016001	.015026	.079638	-.046332	-.084144	.016694
29	-.044930	.009702	.134805	-.067413	-.076265	.011334
30	-.053129	-.026120	.173333	-.082513	-.038133	-.059398

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
1	-.668872	-.044547	-.255362	-.136478	-.039624	-.001910
2	-.423039	-.136760	-.370961	-.161906	-.053841	-.148969
3	.562931	-.151330	-.670552	.120921	.127296	.612062
4	.549833	-.018452	-.539130	.175872	.133987	.633330
5	-.091976	.053838	-.109199	-.080027	-.061397	.119763
6	.188856	.048059	.014895	-.029876	-.013697	-.047232
7	.501223	-.052769	-.055855	.085366	.078517	-.784103
8	.289934	-.154226	-.098551	.037761	.069030	-.100545
9-11	-.074170	-.082099	-.073279	-.033643	-.002977	.016803
12-14	.076646	-.105770	-.045621	-.013997	.010186	-.055175
15-21	.039444	-.020676	-.035899	.007139	-.000228	.056852
22-30	-.055947	-.020118	-.011806	-.033889	-.019067	-.001462

RUN NO. 648 16M 05-09-62 1103-1216 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.33072 10E 01	0.39313 10E 01	0.30933 10E 00	0.15344 10E 00
0	1.000000	1.000000	1.000000	1.000000
1	.702120	.680973	.110224	.621794
2	.434443	.415005	-.007979	.312833
3	.261077	.249540	-.046236	.125496
4	.057784	.105953	-.112223	.002129
5	-.060065	.016580	-.006356	-.099285
6	-.172289	-.089243	-.087973	-.185784
7	-.287395	-.093891	-.118805	-.263457
8	-.351250	-.075071	-.091135	-.331755
9	-.353324	-.139823	-.042307	-.342722
10	-.326114	-.209412	-.090475	-.313816
11	-.303599	-.223219	-.165989	-.260734
12	-.213140	-.239204	-.103537	-.190793
13	-.126812	-.198339	-.020467	-.083154
14	-.000531	-.131404	.014330	.039609
15	.068703	-.036622	.046664	.154223
16	.097240	.025407	.108376	.252815
17	.102161	-.023564	.058355	.214814
18	.096836	-.077769	.028219	.131018
19	.065373	-.117422	.040693	.083102
20	-.011861	-.207287	.014247	.010333
21	-.026812	-.243127	.027512	-.016549
22	-.071289	-.271060	.038666	-.016991
23	-.123891	-.219047	-.010764	-.068494
24	-.117559	-.190557	-.022246	-.047282
25	-.159400	-.226321	.083461	-.072941
26	-.159918	-.193894	-.034035	-.130752
27	-.150853	-.159172	-.054144	-.148189
28	-.131259	-.117202	-.018946	-.138873
29	-.069174	-.098117	-.040623	-.105303
30	-.026871	-.024884	-.014221	-.113359

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.036403	.085258	.002621	.013049
1	.340762	.699800	.038232	.090674
2	.466234	.626467	.109278	.154930
3	.677652	.582089	.212038	.284829
4	.588827	.478089	.201675	.267068
5	.269857	.241940	.123200	.117338
6	.123757	.179108	.107107	.050714
7	.124119	.257494	.152916	.075222
8	.119472	.206213	.167571	.078818
9-11	.081009	.076791	.119709	.053081
12-14	.060354	.078093	.150105	.036601
15-21	.042720	.053777	.110660	.024951
22-30	.030567	.046767	.163925	.020009

RUN NO. 648 40M 05-09-62 1103-1216 EST

GROSS STATISTICS

CLEAR	WIND SPEED	10.25 M/SEC	WIND DIRECTION	324 DEG
UNSTABLE	SIGMA A	14.0 DEG	SOLAR RADIATION	1.49
LAND	SIGMA E	6.8 DEG	NET RADIATION	1.02

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.49507E 01	0.36393E 01	0.16678E 01	0.28923E 01
V	0.66467E 01	0.41494E 01	0.18688E 01	0.31831E 01
W	0.13075E 01	0.12703E 01	0.10670E 01	0.58082E 00
T	0.30462E-00	0.15929E-00	0.77945E-01	0.12258E-00
E	0.64525E 01	0.45296E 01	0.23018E 01	

GUSTINESS RATIOS				
U	0.21708	0.18612	0.12599	0.16592
V	0.25152	0.19873	0.13337	0.17406
W	0.11156	0.10996	0.10077	0.07435

COVARIANCES				
U,V	0.10486E 01	0.34383E-00	0.13287E-00	0.24933E-00
U,W	-0.10037E 01	-0.93226E 00	-0.49790E-00	-0.71625E 00
U,T	-0.32801E-00	-0.39241E-00	-0.16154E-00	-0.33657E-00
V,W	-0.12532E-00	-0.71695E-01	-0.47296E-02	-0.72060E-01
V,T	0.32332E-00	-0.10664E-01	-0.19060E-01	-0.92685E-02
W,T	0.27950E-00	0.24463E-00	0.14922E-00	0.16467E-00
WE	0.61196E 00	0.57120E 00	0.37144E-00	

NORMALIZED COVARIANCES				
U,V	0.18280	0.08977	0.07526	0.08217
U,W	-0.39448	-0.43359	-0.37324	-0.55262
U,T	-0.26709	-0.51539	-0.44804	-0.56525
V,W	-0.04251	-0.03123	-0.00335	-0.05300
V,T	0.22722	-0.01312	-0.04994	-0.01484
W,T	0.44287	0.54383	0.51742	0.61714

RUN NO. 648 40M 05-09-62 1103-1216 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.17655 10E 01	0.13340 10E 01	0.36053 10E 00	0.14121 10E 01	0.38163 10E 00	0.28836 10E 00
0	.075072	-.373260	-.447934	-.003437	-.049897	.517442
1	.063949	-.342865	-.423541	-.006980	-.049359	.450937
2	.044732	-.278444	-.372366	-.016324	-.045817	.341069
3	.024020	-.212326	-.312870	-.020593	-.040797	.236551
4	.002138	-.155368	-.252244	-.018885	-.030709	.151596
5	-.017513	-.103519	-.192095	-.010808	-.017562	.093391
6	-.034941	-.058813	-.138005	.002304	-.008689	.048554
7	-.041103	-.021463	-.092003	.016794	-.004550	.011421
8	-.043095	.006882	-.054657	.029594	.000293	-.013475
9	-.049019	.022031	-.029058	.038760	.008380	-.031047
10	-.051420	.023561	-.011633	.049827	.016788	-.036179
11	-.051822	.019303	.005996	.053060	.022149	-.038651
12	-.049278	.014871	.028005	.039679	.015524	-.047293
13	-.039228	.016159	.054244	.017826	.006113	-.058497
14	-.026228	.026951	.075688	.004552	-.000851	-.060532
15	-.014111	.041513	.096730	.003069	-.000762	-.061145
16	-.004212	.053922	.111824	-.001273	.002983	-.063720
17	.003668	.058627	.117448	-.012720	.005194	-.072852
18	.006524	.058422	.119485	-.026418	.006031	-.085958
19	.009480	.058527	.122339	-.026585	.006112	-.098775
20	.008162	.056946	.125239	-.018838	.013946	-.100786
21	.001437	.060374	.126610	-.012063	.022572	-.090735
22	-.003260	.071351	.128116	-.018124	.025842	-.085910
23	.000292	.084609	.133191	-.017706	.030397	-.085730
24	.008847	.086617	.136814	-.021554	.034689	-.091294
25	.016345	.089431	.140017	-.025538	.039091	-.094798
26	.019962	.094750	.138124	-.019981	.046086	-.096271
27	.022624	.100280	.129259	-.007537	.050148	-.099707
28	.025193	.096110	.118591	-.011332	.045673	-.100270
29	.031581	.089855	.106781	-.024345	.037975	-.093724
30	.042953	.084576	.094266	-.028517	.031901	-.078803
31	.042947	.074977	.078227	-.027881	.027886	-.051522
32	.040523	.058613	.058156	-.018074	.024062	-.023896
33	.036040	.047028	.039327	-.009848	.022666	-.003258
34	.035610	.035022	.020640	-.002193	.022954	.005959
35	.034297	.024577	.005802	.000606	.022961	.010548
36	.027858	.011665	-.007063	.000239	.017792	.020476
37	.018344	.001183	-.021490	.003696	.014571	.038966
38	.009926	-.007349	-.035211	.005950	.008388	.053068
39	-.002982	-.011854	-.039491	.015971	.000164	.051593
40	-.014218	-.010956	-.039149	.022680	-.005911	.037329
41	-.015498	-.007309	-.035229	.029282	-.007970	.023069
42	-.018901	-.009359	-.029844	.033598	-.004762	.013309
43	-.020102	-.015754	-.027258	.034629	-.004834	.011440
44	-.009376	-.016247	-.024823	.034139	-.014536	.007335
45	.000278	-.014477	-.023311	.034816	-.024196	-.002854
46	.004854	-.012484	-.018382	.028290	-.027383	-.009214
47	.000372	-.012848	-.014275	.014801	-.025341	-.010582
48	.002777	-.017022	-.014143	.002627	-.026136	-.011803
49	.011072	-.027429	-.018505	-.003687	-.031562	-.012690
50	.016717	-.035758	-.022650	-.006802	-.042232	-.013541
51	.014995	-.043091	-.025707	-.012694	-.053275	-.010653
52	.005515	-.046456	-.029876	-.007416	-.060722	.000551
53	-.002687	-.046422	-.033814	.005284	-.063610	.013287
54	-.004663	-.044060	-.035869	.013625	-.061131	.022219
55	-.004418	-.039540	-.034641	.016033	-.057445	.023691
56	-.005924	-.030401	-.027905	.011475	-.053218	.021246
57	-.011287	-.025620	-.020859	.007330	-.040859	.023596
58	-.020147	-.027867	-.016631	.010834	-.025995	.027285
59	-.027950	-.031091	-.010651	.015291	-.011593	.024841
60	-.029655	-.024344	-.001240	.016097	.001926	.018489

RUN NO. 64B 40M 05-09-62 1103-1216 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.17655 10E 01	0.13340 10E 01	0.36053 10E 00	0.14121 10E 01	0.38163 10E 00	0.28836 10E 00
1	.001421	-.034098	-.038755	-.008805	-.001168	.020444
2	.005648	-.058828	-.063408	-.012209	.000016	.025816
3	.013359	-.068228	-.076986	-.007750	.002357	.024991
4	.020916	-.070778	-.085165	-.002289	.007565	.020807
5	.028931	-.069990	-.087909	.001253	.015782	.011525
6	.032016	-.065876	-.085560	.000452	.022239	.003462
7	.027839	-.066015	-.081260	-.001527	.021098	-.005936
8	.022992	-.069176	-.077259	.001126	.017228	-.014449
9	.023275	-.070227	-.075937	-.000250	.010704	-.025872
10	.026455	-.068298	-.075325	-.007117	.002282	-.033549
11	.024516	-.068147	-.073087	.000410	-.003227	-.034641
12	.018744	-.065183	-.069800	.012868	-.005313	-.028576
13	.011930	-.071003	-.067799	.016809	-.004082	-.018290
14	.008574	-.071965	-.069554	.012395	-.001569	-.012687
15	.009328	-.065559	-.072712	.010882	.000194	-.012449
16	.012581	-.064605	-.077434	.008234	.008988	-.007810
17	.019808	-.064761	-.079349	.015548	.020140	-.000905
18	.027378	-.056877	-.078550	.021319	.026540	.002798
19	.032080	-.051609	-.070945	.020089	.030462	.001916
20	.029704	-.045628	-.060667	.013962	.031711	.004172
21	.026983	-.036446	-.046689	.014995	.033807	.004617
22	.023382	-.027009	-.034612	.017581	.031728	.007296
23	.021469	-.018168	-.025610	.020836	.027870	.011038
24	.009921	-.005555	-.017702	.027528	.026138	.013221
25	-.003186	.007763	-.010210	.030801	.025115	.013508
26	-.008824	.022177	-.004025	.021570	.020436	.017284
27	-.009834	.028923	-.001025	.009310	.013356	.020869
28	-.007340	.031342	.003270	.001149	.010167	.021964
29	-.004315	.028973	.010665	-.009495	.006576	.019430
30	-.004745	.023176	.016537	-.012824	.000030	.012811
31	-.008621	.021444	.017976	-.011771	-.007169	.005740
32	-.013493	.024856	.017146	-.008171	-.013324	-.000593
33	-.016087	.032333	.020840	-.003863	-.019775	-.005596
34	-.018058	.037449	.023713	-.000659	-.024406	-.003180
35	-.016442	.041903	.025813	.009362	-.023758	.003949
36	-.015425	.046538	.028135	.014457	-.020494	.012290
37	-.014448	.050505	.029073	.018295	-.016263	.019695
38	-.013640	.051570	.027807	.011927	-.015682	.026440
39	-.013385	.051463	.024074	.003815	-.015219	.027535
40	-.012040	.056941	.019753	-.002886	-.008998	.030646
41	-.011898	.061141	.015899	.001861	.003257	.026367
42	-.008198	.061242	.013914	.009059	.012132	.018039
43	-.006255	.054593	.013762	.005060	.014741	.014852
44	-.011017	.049487	.012994	.004867	.018651	.013691
45	-.020313	.046893	.010743	-.001483	.017643	.016765
46	-.025994	.039942	.008765	-.001443	.014181	.018216
47	-.026395	.030884	.008680	.001181	.009927	.018956
48	-.025201	.024851	.009279	-.003285	.006656	.018321
49	-.021217	.018206	.005822	-.012934	.004833	.014160
50	-.022034	.006235	-.003871	-.023160	-.002045	.007181
51	-.018737	-.005628	-.012140	-.031592	-.009576	.001280
52	-.014886	-.015929	-.016524	-.035448	-.013219	-.002724
53	-.010769	-.024817	-.020822	-.038880	-.010219	-.009169
54	-.009458	-.034024	-.024173	-.040429	-.011296	-.010987
55	-.005438	-.038101	-.025712	-.041435	-.019306	-.008339
56	.002161	-.039748	-.025264	-.035330	-.021585	-.004981
57	.007523	-.040754	-.023438	-.025702	-.018376	-.003291
58	.016315	-.041791	-.023588	-.010409	-.015825	-.009280
59	.026814	-.044258	-.027675	.004991	-.011909	-.011025
60	.035578	-.052578	-.027181	.010656	-.004683	-.011845

RUN NO. 648 40M 05-09-62 1103-1216 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16679 10E 01	0.18688 10E 01	0.10670 10E 01	0.77934 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.860829	.827594	.732341	.878549
2	.685489	.614731	.430447	.693552
3	.537881	.465360	.233795	.530370
4	.417269	.357424	.124151	.395806
5	.318312	.255677	.061091	.286972
6	.228754	.167568	.022015	.193764
7	.156347	.097899	-.019492	.114846
8	.100414	.042266	-.050500	.052635
9	.055530	-.007557	-.069641	.004164
10	.016113	-.042766	-.078131	-.031314
11	-.016030	-.071720	-.073209	-.063951
12	-.046428	-.095347	-.078610	-.096897
13	-.075701	-.124224	-.101404	-.127865
14	-.097919	-.146979	-.113750	-.151770
15	-.127339	-.149471	-.117616	-.169071
16	-.157193	-.136541	-.123877	-.180055
17	-.176160	-.140049	-.126038	-.191389
18	-.190284	-.146446	-.128059	-.206312
19	-.202408	-.144805	-.133563	-.222600
20	-.218682	-.135197	-.137068	-.231330
21	-.237829	-.134755	-.133285	-.230669
22	-.248453	-.135935	-.117815	-.228904
23	-.252750	-.133755	-.093493	-.234525
24	-.249331	-.126513	-.080998	-.246373
25	-.247063	-.123467	-.083899	-.250338
26	-.250325	-.120764	-.097510	-.239886
27	-.244389	-.118259	-.115676	-.223192
28	-.223203	-.113362	-.126922	-.201939
29	-.196423	-.106093	-.112462	-.174726
30	-.170895	-.089043	-.098284	-.136007
31	-.144335	-.064459	-.066299	-.085203
32	-.122744	-.049630	-.031214	-.036509
33	-.102857	-.053362	-.006027	-.000253
34	-.081092	-.063110	-.002340	.019456
35	-.054779	-.064967	.000884	.036034
36	-.030994	-.061834	.016416	.054727
37	-.015219	-.054508	.050852	.074940
38	-.002478	-.049344	.065874	.090493
39	.007197	-.057462	.049108	.095005
40	.017321	-.070226	.020340	.091512
41	.027399	-.079408	-.001036	.085910
42	.043202	-.081131	-.007231	.075739
43	.057201	-.074999	.003788	.062931
44	.057892	-.069422	.010762	.046371
45	.057982	-.063799	.007565	.024926
46	.053225	-.055679	.007634	.005728
47	.047897	-.047968	.012928	-.004151
48	.042219	-.041484	.015293	-.006139
49	.042831	-.034224	.022719	-.003749
50	.049158	-.026610	.018692	-.003755
51	.052429	-.014036	.016432	-.005885
52	.053940	-.002921	.014184	-.005567
53	.057904	.012968	.026569	.000325
54	.066004	.030194	.030362	.006072
55	.063733	.036285	.030406	.003460
56	.056754	.035011	.023656	-.003573
57	.045122	.036428	.014822	-.012468
58	.031784	.032612	.015513	-.021281
59	.018447	.014475	.018130	-.034991
60	.001537	-.006262	.018565	-.051241

RUN NO. 648 40M 05-09-62 1103-1216 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
0	-.006124	-.083640	-.035933	.001554	.074195	.019812
1	-.148992	-.689656	-.267861	.029864	-.176370	.152022
2	-.119687	-.829588	-.330586	.080939	-.575381	.193049
3	.081964	-.783398	-.342840	.045067	-.426276	.219010
4	.269101	-.464562	-.200064	-.111916	-.075292	.149624
5	.234439	-.370721	-.109419	-.147494	-.152386	.100965
6	.190753	-.414634	-.101287	-.114503	-.276854	.113312
7-8	.206413	-.307598	-.064149	-.074175	-.221982	.088151
9-11	.037397	-.182842	-.039707	.051004	.004379	.059064
12-15	.042781	-.041711	-.011903	.032915	.004757	.028486
16-20	.007723	-.041985	-.003814	-.000748	-.011847	.014899
21-27	.001198	-.016548	-.003536	.008879	.019172	.008949
28-36	.007035	-.007918	-.001344	.003736	-.003618	.003456
37-47	.001050	-.001206	-.000302	-.000912	.000199	.002496
48-60	.001272	-.000840	-.000418	-.001158	.000894	.001214

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.143467	-.255211	-.123361	.121128	.363309	.086553
2	.208603	-.449033	-.131568	.066359	.286327	-.132678
3	.150969	-.396214	-.110049	-.002513	.089155	-.172125
4	.039073	-.148355	-.046018	-.046117	-.163236	-.076874
5	.013448	-.066092	-.019983	-.060675	-.044880	.026287
6	.053768	-.038354	-.023254	-.007856	.245223	.173151
7-8	.064511	-.087239	-.030650	.001668	.130824	.165702
9-11	-.030855	-.044582	-.015373	-.000605	-.054577	.138279
12-15	.002815	-.030576	-.006780	-.016756	-.055335	.016791
16-20	-.021127	-.018273	-.001905	-.015536	-.009944	.024148
21-27	.005095	-.001076	-.001885	-.006136	.006249	.010261
28-36	-.002739	-.002752	-.000822	.004353	.000496	.010185
37-47	.000394	.001002	-.000217	-.001512	-.000940	.006259
48-60	.000874	-.000063	.000010	.000887	-.001724	-.001150

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E 00	10E-01
0	.032902	.035465	.005713	.013389
1	.246320	.246720	.062843	.094774
2	.288490	.248766	.091140	.120407
3	.279669	.248115	.109961	.137103
4	.161862	.204240	.086103	.087502
5	.100238	.150656	.066180	.049299
6	.093685	.115719	.065144	.050554
7-8	.075127	.083986	.052167	.038673
9-11	.045192	.050552	.044957	.022177
12-15	.024528	.033535	.028949	.012387
16-20	.015593	.020134	.021328	.006657
21-27	.009688	.015170	.013738	.004510
28-36	.005680	.010245	.007964	.002134
37-47	.003816	.005238	.005205	.001295
48-60	.002776	.003468	.003492	.000732

RUN NO. 648 40M 05-09-62 1103-1216 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.30337 10E 01	0.12960 10E 01	0.59526 10E 00	0.13598 10E 01	0.62456 10E 00	0.26681 10E 00
0	.082188	-.552655	-.565409	-.052993	-.014840	.617165
1	.047956	-.344338	-.406336	-.014612	.017204	.373391
2	.066679	-.194666	-.261216	-.037071	.023549	.218846
3	.066916	-.062723	-.162519	-.008181	.032929	.112487
4	.046927	.014309	-.068428	.011633	.017154	.032703
5	-.028730	.075187	.023233	.012472	-.003737	-.095143
6	-.011481	.159367	.107199	.016179	.016233	-.150337
7	-.027310	.231182	.178602	.001957	.028859	-.229488
8	-.014808	.279003	.201044	-.027081	-.003730	-.284433
9	-.063517	.230933	.195098	.001684	.025845	-.261721
10	-.097112	.180601	.189748	.038068	.048895	-.211034
11	-.107995	.096039	.138939	.078592	.063817	-.138725
12	-.093809	.028421	.105292	.088260	.052823	-.089967
13	-.042921	-.065996	.032866	.016643	-.006811	-.014130
14	-.007285	-.066871	.013221	-.012637	-.031173	.032119
15	.049528	-.104004	-.013222	-.074057	-.069940	.118927
16	.064201	-.131237	-.054294	-.066527	-.103117	.127901
17	.040634	-.157426	-.068955	-.122699	-.153607	.178659
18	.023245	-.136482	-.039810	-.065297	-.125330	.162252
19	.011449	-.077252	.008927	-.031761	-.113952	.120708
20	.007063	-.033843	.048732	-.056815	-.095579	.050974
21	.032745	.022436	.047377	-.024749	-.074432	.029945
22	.028388	.044972	.081190	.028668	-.030190	-.011707
23	.018465	.130423	.152768	.023146	.009935	-.108495
24	.000335	.143600	.137914	.057454	.040922	-.129860
25	-.017006	.131803	.094085	.066442	.080025	-.089370
26	-.047313	.111073	.088291	.058221	.110472	-.092698
27	-.085259	.089266	.058723	.086773	.128225	-.101557
28	-.079933	.078514	.041207	.057838	.131049	-.079970
29	-.065623	.026449	-.010886	.106368	.118090	-.055711
30	-.031579	-.034387	-.037566	.077555	.077805	-.050142

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E 00	10E-01	10E-01	10E-01	10E-01
0	.004557	-.003255	-.044925	-.030225	-.002701	.010625
1	.036241	-.024289	-.417239	.008563	.144224	.070439
2	.067943	-.054089	-.494273	-.008478	.097106	.155297
3	.106783	-.139474	-.675989	-.248093	-.103777	.342558
4	.055688	-.157835	-.627582	-.159752	-.064083	.334746
5	-.024385	-.077969	-.297009	.145176	.096593	.143688
6	-.039749	-.030487	-.121992	.037555	.037866	.060318
7	-.000906	-.018384	-.101484	-.193223	-.041988	.049269
8	.023378	-.014609	-.075788	-.186458	-.046421	.034961
9-11	-.014257	-.027538	-.074613	.062814	-.006594	.047878
12-14	.003528	-.017739	-.066892	-.011918	-.032090	.034756
15-21	.003226	-.008190	-.038663	.003773	.003794	.031969
22-30	.010796	-.011329	-.030171	-.058025	-.016776	.023778

RUN NO. 64B 40M 05-09-62 1103-1216 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.30337 10E 01	0.12960 10E 01	0.59526 10E 00	0.13598 10E 01	0.62456 10E 00	0.26681 10E 00
1	.026379	-.074852	-.122371	.040556	.014395	.029516
2	.038100	-.060512	-.184813	.068144	.027727	.086070
3	.023066	-.023570	-.223059	.057334	.006448	.111698
4	.016755	-.009651	-.234102	.041113	.004664	.120919
5	-.006710	-.056750	-.245400	.005324	-.027934	.103856
6	.001058	-.092081	-.227791	.020856	-.040119	.070860
7	-.022353	-.063725	-.181085	.007795	-.047665	.030939
8	-.040142	-.034622	-.142081	-.001163	-.061990	.021482
9	-.040931	-.007802	-.098646	-.013486	-.056670	.007335
10	-.039110	.007065	-.025500	.013654	-.026519	-.041521
11	-.058107	-.006315	.020080	-.045948	-.055272	-.065147
12	-.065283	.013338	.058324	-.030189	-.038263	-.088001
13	-.053642	.046179	.095558	-.012190	-.021849	-.085836
14	-.066122	.068666	.094841	-.034557	-.021134	-.079423
15	-.104587	.014781	.085266	-.046115	-.023338	-.085024
16	-.109186	.004703	.074384	-.049853	-.030836	-.080096
17	-.085755	.009214	.047655	-.079720	-.028380	-.069972
18	-.005862	-.019781	-.006875	-.008109	.017949	-.037095
19	.039270	-.014455	-.039764	.061417	.062999	.007552
20	.072538	-.034679	-.074685	.078221	.099437	.046514
21	.095195	-.057812	-.107119	.076261	.115514	.064127
22	.109282	-.087647	-.122443	.048076	.107550	.068758
23	.107176	-.078193	-.112955	.024135	.058806	.057324
24	.113379	-.075605	-.088155	.024362	.031945	.066281
25	.088300	-.019479	-.021721	.000432	-.025287	.081078
26	.081014	.026182	.021452	-.002821	-.027460	.076700
27	.054548	.016872	.049021	-.024597	-.046938	.056502
28	.013370	.065586	.105111	-.026193	-.039455	.027116
29	-.003697	.094675	.176091	-.038014	-.022333	-.012453
30	-.024290	.087320	.214488	-.023262	.013971	-.066376

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-01
1	-.909262	-.187742	-.353289	-.042845	-.123911	-.019617
2	-.429186	-.167986	-.401740	.039086	-.132936	.040903
3	.580044	-.329513	-.571476	.260334	-.005392	.129259
4	.443797	-.234988	-.408157	.228485	.070509	.101230
5	-.040311	.007457	-.100942	.052648	.022099	.032483
6	.281143	.024156	-.043436	.144772	.067581	.020776
7	.282744	.005312	-.043797	.162122	.057573	.013498
8	-.019751	-.036772	-.032673	.035665	-.002475	.001675
9-11	.092609	-.100300	-.026464	.074273	.009018	-.004423
12-14	.054757	-.146868	-.020261	.015501	.006604	-.006809
15-21	-.002331	-.014844	-.005232	-.002263	.003066	-.003305
22-30	-.041145	-.016902	-.007650	-.033136	-.016131	-.001828

RUN NO. 648 40M 05-09-62 1103-1216 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOVARIANCE

M	U	V	W	T
	0.28914 10E 01	0.31830 10E 01	0.58091 10E 00	0.12255 10E 00
0	1.000000	1.000000	1.000000	1.000000
1	.688823	.695790	.325861	.687349
2	.439334	.516189	.119461	.455166
3	.251927	.344821	.004118	.287154
4	.095234	.160460	-.058258	.136299
5	-.040480	.061210	-.091871	-.066468
6	-.170204	-.024738	-.147461	-.211087
7	-.284368	-.097700	-.174144	-.311676
8	-.310938	-.118152	-.280722	-.375336
9	-.293728	-.185822	-.244231	-.422979
10	-.285556	-.220119	-.211950	-.399901
11	-.234305	-.243870	-.150253	-.305467
12	-.196649	-.239967	-.113841	-.215950
13	-.095337	-.198651	.025799	-.103929
14	-.044560	-.170008	.057947	-.034996
15	.002406	-.122561	.129524	.043570
16	.053159	-.053241	.136284	.103122
17	.084007	-.049246	.191369	.145741
18	.074300	-.053418	.157040	.140608
19	.020673	-.120222	.115121	.124949
20	-.052044	-.193565	.033233	.075040
21	-.097517	-.224328	.027041	.054820
22	-.158841	-.265137	-.020046	-.006414
23	-.209260	-.265442	-.102842	-.106604
24	-.206600	-.277613	-.106785	-.131684
25	-.181383	-.258193	-.090147	-.087668
26	-.139687	-.243688	.009235	-.119365
27	-.106045	-.223080	-.080269	-.125975
28	-.100195	-.169494	-.098101	-.129928
29	-.038345	-.126446	-.017715	-.118466
30	.025527	-.036219	-.042767	-.110583

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.038391	.084555	.013398	.013584
1	.352890	.666662	.098434	.116173
2	.413886	.586705	.296384	.178570
3	.545423	.521779	.718382	.273814
4	.488568	.390830	.741531	.226647
5	.240410	.182195	.354207	.096155
6	.128517	.131235	.196760	.039674
7	.112485	.156877	.237602	.030164
8	.075736	.111401	.251365	.027512
9-11	.066454	.056511	.258495	.026610
12-14	.062974	.037956	.196179	.020192
15-21	.033869	.036151	.170127	.018227
22-30	.033028	.045936	.202858	.014131

RUN NO. 648 16M 05-09-62 1103-1216 EST
 RUN NO. 648 40M 05-09-62 1103-1216 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.843509	.773472	.614537	.819984
1	.778414	.794396	.641155	.747253
2	.725349	.694718	.648145	.738190
3	.661250	.596653	.628098	.754175
4	.581872	.570802	.590731	.748000
5	.463559	.593557	.593435	.681439
6	.326239	.553527	.574740	.623806
7-8	.329131	.483486	.390907	.506946
9-11	.187232	.429607	.466042	.340989
12-15	.208716	.324619	.401768	.331813
16-20	.091349	.125247	.294698	.213876
21-27	.093016	.133667	.152139	.137413
28-36	.080812	.101603	.158598	.123786
37-47	.124194	.082271	.113611	.126414
48-60	.094920	.126044	.085078	.116055

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.973203	.977490	.542612	.888950
1	.959869	.974612	.484759	.850830
2	.941950	.944156	.640534	.893542
3	.943198	.900103	.739621	.924565
4	.940859	.889580	.785949	.920708
5	.876526	.894567	.697709	.875126
6	.736096	.868705	.487829	.668469
7	.720037	.852114	.529507	.621259
8	.729044	.851792	.610226	.713631
9-11	.781139	.679918	.674859	.773358
12-14	.734081	.661427	.709176	.734202
15-21	.583453	.458335	.609450	.770367
22-30	.461357	.537163	.672790	.566977

RUN NO. 65A 16M 05-09-62 1304-1420 EST

GROSS STATISTICS

CLEAR	WIND SPEED	9.10 M/SEC	WIND DIRECTION	316 DEG
UNSTABLE	SIGMA A	15.5 DEG	SOLAR RADIATION	1.33
LAND	SIGMA E	6.0 DEG	NET RADIATION	0.83

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.43255E 01	0.33613E 01	0.21559E 01	0.24306E 01
V	0.65559E 01	0.39599E 01	0.20634E 01	0.29666E 01
W	0.85238E 00	0.84401E 00	0.77121E 00	0.35693E-00
T	0.30863E-00	0.15250E-00	0.89349E-01	0.10898E-00
E	0.58669E 01	0.40830E 01	0.24953E 01	

GUSTINESS RATIOS

U	0.22855	0.20147	0.16135	0.17132
V	0.28137	0.21868	0.15785	0.18927
W	0.10146	0.10096	0.09650	0.06565

COVARIANCES

U,V	-0.59816E-01	-0.19218E-01	0.14553E-01	0.12540E-01
U,W	-0.52513E 00	-0.57607E 00	-0.44635E-00	-0.40107E-00
U,T	-0.39798E-00	-0.36063E-00	-0.20905E-00	-0.28236E-00
V,W	0.26568E-00	0.13434E-00	0.10837E-00	0.76260E-01
V,T	0.27349E-00	-0.27945E-01	0.24381E-02	-0.26179E-01
W,T	0.18587E-00	0.16331E-00	0.12088E-00	0.10397E-00
WE	-0.86120E-01	0.10060E-00	0.96317E-01	

NORMALIZED COVARIANCES

U,V	-0.01122	-0.00527	0.00690	0.00467
U,W	-0.27348	-0.34202	-0.34616	-0.43060
U,T	-0.34445	-0.50369	-0.47631	-0.54863
V,W	0.11239	0.07348	0.08591	0.07411
V,T	0.19227	-0.03596	0.00568	-0.04604
W,T	0.36238	0.45521	0.46051	0.52718

RUN NO. 65A 16M 05-09-62 1304-1420 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21093 10E 01	0.12895 10E 01	0.43896 10E 00	0.12617 10E 01	0.42949 10E 00	0.26258 10E 00
0	.007030	-.346158	-.476153	.085948	.005831	.460410
1	.004904	-.310010	-.437204	.073517	.012153	.381592
2	.008500	-.259748	-.382315	.062733	.012546	.285256
3	.014117	-.220051	-.329648	.050020	.009755	.214945
4	.020446	-.185201	-.276810	.037723	.006199	.171456
5	.018706	-.152833	-.220948	.033841	.013415	.140988
6	.016862	-.122660	-.173945	.033826	.021457	.113948
7	.012722	-.086273	-.130084	.033108	.028121	.081938
8	.006713	-.053415	-.088193	.029314	.029997	.051206
9	-.003488	-.018514	-.047672	.023884	.033657	.024900
10	-.018153	.007785	-.009810	.024739	.043659	.000528
11	-.030937	.035621	.026917	.021640	.043283	-.027699
12	-.041396	.062035	.064722	.017745	.039505	-.056188
13	-.048008	.086122	.093904	.016334	.040123	-.075399
14	-.047431	.101447	.119984	.011192	.044114	-.092762
15	-.040455	.115533	.137737	.002290	.042738	-.105778
16	-.033874	.124661	.143586	-.000973	.035526	-.117851
17	-.029873	.140550	.155340	.002413	.025702	-.131905
18	-.022008	.150301	.169776	-.002982	.014882	-.142157
19	-.014573	.149718	.179192	-.012570	.001694	-.143803
20	-.007514	.142621	.185250	-.029575	-.017446	-.137770
21	-.007283	.135755	.186729	-.037519	-.030683	-.136380
22	-.010192	.127612	.189423	-.048460	-.041506	-.126929
23	-.013588	.117662	.181108	-.059889	-.053780	-.112359
24	-.014239	.099957	.160582	-.064901	-.061929	-.103273
25	-.009145	.087165	.138686	-.061321	-.065271	-.093667
26	.000326	.076806	.116032	-.051899	-.064526	-.089702
27	.007534	.073803	.101784	-.046894	-.062484	-.085758
28	.014704	.078234	.095711	-.039628	-.053116	-.081784
29	.020809	.070676	.091274	-.040480	-.044837	-.076097
30	.021506	.050683	.080334	-.038219	-.035665	-.059705
31	.020738	.034738	.059715	-.035781	-.026769	-.038643
32	.016390	.018064	.035186	-.030861	-.016658	-.015874
33	.015389	-.002435	.010371	-.022939	-.012522	.005026
34	.014646	-.023564	-.006844	-.024002	-.014813	.017734
35	.017378	-.044746	-.015224	-.028618	-.021712	.016820
36	.020766	-.058682	-.018369	-.026489	-.031449	.013186
37	.017644	-.064730	-.023371	-.030786	-.034491	.018124
38	.019307	-.071545	-.030096	-.028455	-.032165	.033844
39	.020373	-.069523	-.029460	-.027668	-.029568	.045162
40	.026094	-.062251	-.026772	-.023693	-.032637	.051039
41	.030461	-.051362	-.025391	-.022086	-.030133	.049884
42	.036717	-.043101	-.023073	-.023027	-.026310	.043128
43	.043353	-.039457	-.020117	-.021939	-.024279	.035780
44	.049757	-.034926	-.019963	-.017674	-.021938	.028101
45	.059433	-.029752	-.020254	-.014842	-.015694	.020822
46	.063734	-.020244	-.020897	-.010355	-.009791	.007825
47	.058412	-.011779	-.026636	.006303	-.001955	-.002785
48	.047078	-.005231	-.027096	.024352	.008437	-.013986
49	.040866	-.000675	-.021974	.041943	.019289	-.024693
50	.036726	.008274	-.018609	.045487	.019105	-.029558
51	.030176	.017020	-.019539	.037207	.013620	-.023717
52	.021465	.021278	-.023831	.027060	.010898	-.017847
53	.013623	.025751	-.023305	.024551	.015477	-.012472
54	.001325	.028156	-.021871	.020999	.020523	-.007568
55	-.004762	.028651	-.020814	.012397	.020090	-.011643
56	-.006033	.035792	-.019882	.008352	.021171	-.023822
57	-.007308	.040723	-.022110	.000935	.018139	-.031752
58	-.005637	.040331	-.028483	.001433	.019628	-.041178
59	-.006403	.036721	-.029063	.005095	.020677	-.035915
60	-.005764	.032061	-.028323	.011315	.022787	-.023392

RUN NO. 65A 16M 05-09-62 1304-1420 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21093 10E 01	0.12895 10E 01	0.43896 10E 00	0.12617 10E 01	0.42949 10E 00	0.26258 10E 00
1	-.003527	-.063200	-.044015	-.002008	-.004665	.033027
2	-.003950	-.092390	-.070454	-.004978	-.006182	.048015
3	-.001122	-.102188	-.086755	-.011216	-.006703	.051815
4	.004371	-.091589	-.094960	-.017356	-.007680	.050122
5	.005009	-.075527	-.102119	-.020681	-.006733	.047429
6	.006382	-.072090	-.110040	-.028655	-.006268	.042056
7	.004830	-.066667	-.114565	-.036634	-.006874	.042166
8	.009062	-.049644	-.117217	-.039626	-.005270	.049566
9	.013365	-.042851	-.117363	-.035639	-.000431	.052014
10	.015377	-.041454	-.112092	-.026318	.003695	.046514
11	.012782	-.040956	-.107565	-.012347	.008639	.038927
12	.003845	-.042436	-.104187	.004599	.004200	.034396
13	-.004129	-.035926	-.093794	.019387	.000369	.035316
14	-.003078	-.022340	-.078895	.025799	-.003152	.042261
15	.000343	-.009905	-.065786	.023470	-.005371	.051203
16	-.000118	-.004487	-.055780	.022247	-.008538	.049205
17	.001655	-.001653	-.048400	.013755	-.010448	.042639
18	.002947	-.000636	-.042609	-.002072	-.014187	.034189
19	.001186	.003235	.038996	-.015322	-.019437	.027562
20	-.000287	.005597	-.041317	-.026829	-.022815	.023687
21	.001484	.011413	-.038846	-.035909	-.024759	.021959
22	.005453	.012850	-.033959	-.037903	-.021873	.020753
23	.013992	.017724	-.030965	-.027625	-.016250	.021365
24	.01370	.015329	-.027688	-.010800	-.017378	.021920
25	.012932	.016233	-.020482	-.002290	-.012220	.021718
26	.011819	.020576	-.012887	-.002371	-.013082	.015349
27	.010362	.026567	-.002573	-.002953	-.018761	.001368
28	.002845	.030204	.006223	.000648	-.022036	-.010725
29	-.002355	.035188	.016137	-.003758	-.022334	-.019948
30	-.000753	.030561	.018251	-.011645	-.024616	-.028524
31	.009725	.025535	.020947	-.012954	-.027705	-.032839
32	-.003819	.017622	.023275	-.009562	-.029860	-.029419
33	-.012712	.010762	.023892	-.014031	-.029878	-.025237
34	-.020702	.007611	.025024	-.015774	-.030031	-.024689
35	-.029198	.005298	.021731	-.019430	-.028718	-.028551
36	-.029308	.003834	.025807	-.020526	-.022921	-.032692
37	-.021553	.006028	.030958	-.016541	-.013940	-.034951
38	-.007767	.007032	.034627	-.006128	-.005403	-.032253
39	.001794	.002844	.033663	.001819	-.005242	-.023754
40	.003758	-.002282	.027154	.004233	.000226	-.015320
41	.002555	-.009835	.019625	.003773	.009473	-.007616
42	-.000956	-.015268	.016681	.007371	.014992	-.003431
43	-.004412	-.020883	.011497	.013366	.015687	-.005241
44	-.010526	-.026922	.004056	.028349	.015870	-.006263
45	-.022478	-.033117	-.003382	.034812	.020028	-.004239
46	-.033842	-.041843	-.007960	.021844	.012876	-.001207
47	-.039727	-.035842	-.005540	.014754	.004762	.001917
48	-.029908	-.025316	-.001097	.015297	.005012	.003001
49	-.020022	-.012249	.006449	.014404	.011875	.009443
50	-.015415	-.011190	.008754	.015290	.020484	.010741
51	-.014636	-.014329	.011232	.010935	.023637	.003854
52	-.012254	-.010420	.016793	.007903	.016473	-.009395
53	-.009063	-.005476	.025369	.004422	.006906	-.019616
54	-.005886	-.001457	.028976	.004775	.002953	-.020464
55	-.004230	.001143	.025569	.003854	.001718	-.018511
56	-.001691	.006736	.027166	.007447	-.002705	-.017448
57	-.000797	.013693	.032177	.016221	-.007309	-.014703
58	.003197	.017280	.038960	.021180	-.014690	-.009016
59	.006943	.026553	.043775	.022058	-.020346	.001641
60	.010718	.034785	.044531	.014673	-.019509	.007535

RUN NO. 65A 16M 05-09-62 1304-1420 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.21558 10E 01	0.20638 10E 01	0.77139 10E 00	0.89381 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.855993	.826291	.691619	.828069
2	.689719	.627769	.417830	.625270
3	.555363	.480703	.251125	.479543
4	.441582	.371977	.164764	.374674
5	.346802	.290329	.113139	.292639
6	.270603	.217977	.077368	.222103
7	.201994	.160517	.035286	.165393
8	.139932	.109299	-.008907	.119128
9	.081416	.063808	-.040467	.071748
10	.023969	.024625	-.063977	.019240
11	-.034021	-.005693	-.100432	-.026679
12	-.080355	-.032653	-.126133	-.072602
13	-.123416	-.057445	-.141951	-.108382
14	-.162645	-.088308	-.149924	-.139215
15	-.201556	-.113277	-.158576	-.161663
16	-.240774	-.141081	-.171897	-.179322
17	-.266977	-.169326	-.180157	-.202647
18	-.285685	-.175845	-.175219	-.227460
19	-.300370	-.221227	-.173755	-.236411
20	-.310385	-.231207	-.165404	-.239625
21	-.320002	-.233644	-.154798	-.242047
22	-.322193	-.235760	-.144084	-.241966
23	-.316971	-.236825	-.124096	-.238186
24	-.303960	-.246430	-.130092	-.231332
25	-.287918	-.259246	-.138452	-.211393
26	-.270020	-.262351	-.127749	-.195980
27	-.249155	-.259748	-.120261	-.191764
28	-.230420	-.247253	-.104345	-.187398
29	-.207442	-.234387	-.081280	-.178884
30	-.171859	-.214830	-.050496	-.159726
31	-.129356	-.182890	-.024152	-.124095
32	-.098725	-.150315	.000480	-.093101
33	-.067826	-.124324	.037438	-.075551
34	-.038481	-.114178	.056439	-.062847
35	-.019103	-.105960	.057021	-.051441
36	-.004336	-.089482	.055242	-.039555
37	.014745	-.071400	.055123	-.018321
38	.031644	-.054419	.058690	.004624
39	.037713	-.033520	.044087	.019489
40	.041224	-.012230	.051507	.025110
41	.041209	.009021	.049680	.030038
42	.045197	.024902	.029310	.036178
43	.050125	.039769	.035240	.026461
44	.053674	.054847	.042498	.019685
45	.058494	.060780	.033228	.016146
46	.059511	.066051	.016268	.002789
47	.051540	.073541	.000037	-.005597
48	.044880	.080046	-.004612	-.013586
49	.051393	.090361	-.022110	-.020183
50	.055966	.095115	-.042099	-.014841
51	.053876	.098725	-.044756	-.000782
52	.050586	.100300	-.041719	.014020
53	.043464	.100251	-.022595	.021192
54	.043352	.090452	-.012529	.015638
55	.049787	.089274	-.012869	.003424
56	.053326	.087356	-.012362	-.009491
57	.059323	.080678	-.013217	-.013583
58	.063379	.068991	-.033248	-.012981
59	.064832	.053591	-.046641	-.009274
60	.059620	.035798	-.039551	-.000517

RUN NO. 65A 16M 05-09-62 1304-1420 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E 00	10E-01	10E-01	10E-02	10E-01
0	-.019509	-.004268	-.032235	.011575	.016170	.012498
1	-.216565	-.049326	-.310815	.277895	.767059	.128400
2	.003155	-.083567	-.433215	.321469	.757900	.187084
3	.245174	-.109764	-.492480	.188426	.112563	.226026
4	.211256	-.070806	-.312907	.020960	-.505703	.148271
5	.138629	-.030146	-.140301	-.022057	-.584218	.072046
6	.019256	-.020660	-.084095	.003323	-.254144	.052927
7-8	-.058587	-.008591	-.059772	.071187	.198235	.034087
9-11	-.095432	-.008332	-.031002	.012137	-.023790	.032081
12-15	.006934	-.004255	-.023041	.027693	.039498	.022309
16-20	-.004181	-.003320	-.006297	.011471	-.000388	.015307
21-27	.002077	-.002183	-.005718	.002156	-.004036	.010919
28-36	.005247	-.001309	-.005281	.002002	-.021642	.005071
37-47	.001456	-.000810	-.002577	.003831	-.005116	.003435
48-60	.002423	-.000326	-.001565	.002874	-.008310	.002356

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-01	10E-01	10E-02	10E-02
1	.209361	-.080507	-.160363	-.106307	-.541584	.429371
2	.833328	-.162067	-.179221	-.063881	-.166026	.566370
3	.296978	-.302085	-.166921	-.016866	.165611	.502726
4	-.106594	-.266988	-.098283	-.050081	.062779	.169729
5	.278826	-.171272	.353383	-.087825	-.071484	.077577
6	.617717	-.153202	-.053067	-.090204	-.017467	.166479
7-8	-.244893	-.123148	-.019357	-.070559	-.134309	.111708
9-11	-.261725	-.093087	-.007130	.076372	-.006239	.098580
12-15	-.027321	-.066892	-.010417	-.004403	.007804	.036768
16-20	-.053139	-.025097	-.004959	-.003957	-.018157	.058161
21-27	-.054715	-.018416	-.002600	.003263	.002796	.002509
28-36	.007052	.001177	-.000988	.000579	-.005199	.012622
37-47	.004907	-.008096	-.000728	-.001099	-.002537	.000049
48-60	-.026379	-.000885	-.000260	.000137	.002349	.002554

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.025192	.028983	.033410	.013389
1	.285768	.289927	.421071	.118300
2	.397290	.357754	.691453	.144011
3	.421760	.324157	.934262	.147083
4	.247798	.175249	.719253	.092336
5	.120348	.115551	.449593	.053149
6	.093078	.104909	.400591	.042918
7-8	.076378	.085738	.315797	.031716
9-11	.051718	.059448	.250416	.024052
12-15	.032499	.034084	.194401	.017090
16-20	.020040	.024498	.153441	.010032
21-27	.011883	.015765	.109239	.006988
28-36	.008060	.009837	.065699	.004367
37-47	.005792	.006559	.049272	.002772
48-60	.004012	.004467	.038747	.001780

RUN NO. 65A 16M 05-09-62 1304-1420 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

N	U,V	U,W	U,T	V,W	V,T	W,T
	0.26867 10E 01	0.93185 10E 00	0.51497 10E 00	0.10295 10E 01	0.56896 10E 00	0.19734 10E 00
0	.004668	-.430400	-.548308	.074071	-.046013	.526862
1	-.003279	-.176042	-.326791	.063900	-.034309	.236595
2	-.015080	.023778	-.127495	.004024	-.068233	.029637
3	-.029033	.008213	-.078693	-.022306	-.071213	.005024
4	.052064	-.003279	-.014181	-.025215	-.067900	-.027209
5	-.044469	.068903	.039419	.022527	-.019374	-.060583
6	-.008800	.103395	.093194	.037939	.022638	-.103844
7	-.031329	.043711	.145911	.039589	.038640	-.024577
8	-.073313	.084415	.172143	.054129	.046267	-.042096
9	-.039818	.17009	.168661	.040860	.058904	-.127749
10	-.017685	.100410	.175331	-.022314	.031348	-.124893
11	.028749	.114616	.182314	-.012397	.046250	-.141627
12	.021620	.085777	.156011	.005992	.089419	-.110183
13	-.030723	.005245	.096083	.038625	.113119	-.052450
14	.030949	-.076734	.039461	-.017248	.062981	-.002684
15	.022123	-.047819	.013576	-.034444	.022393	.005790
16	.000485	-.055747	-.011228	-.034506	-.008935	.008288
17	-.016386	-.082120	-.068080	-.080866	-.021223	.061382
18	-.019531	-.044424	-.114281	-.061605	-.012689	.100037
19	-.046305	-.069693	-.110227	-.059168	-.008009	.051737
20	-.098204	-.053981	-.116984	.001853	.002880	.047147
21	-.094307	-.048895	-.123561	.017028	-.006394	.074804
22	-.061264	.001299	-.044994	-.009274	-.037663	.019328
23	.002803	.059962	-.011423	-.035971	-.053512	-.029368
24	.053621	.016180	-.022192	-.070040	-.086733	-.002996
25	.040531	.016343	-.050422	-.045929	-.046406	.040407
26	.004164	.004915	-.038665	-.007718	-.014669	.022136
27	-.023071	.025799	.027308	-.021828	-.012398	.011578
28	-.009698	.026155	.042852	.007840	.009260	.002243
29	.011273	.042022	.059356	-.027504	.016095	-.027148
30	.053081	-.008108	.088462	-.032283	-.005012	-.079432

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-01
0	.024496	.009056	-.002727	.035052	.011914	.000766
1	.301819	.024431	-.113518	.234873	-.045302	.027491
2	.137751	-.182959	-.339572	.111896	-.156905	.080118
3	.018940	-.532618	-.554297	-.045679	-.177376	.135934
4	.327100	-.510039	-.386489	-.055444	-.055483	.103259
5	.221597	-.202206	-.165867	.043531	.021041	.049021
6	-.320465	-.121459	-.134592	.075522	.026906	.050991
7	-.377479	-.202400	-.130565	.060046	.008583	.070330
8	-.334895	-.256887	-.109723	.155519	.048097	.072023
9-11	-.011247	-.175026	-.096562	.096573	.041392	.044412
12-14	.090442	-.192427	-.101991	.034526	.002638	.036924
15-21	-.015385	-.161657	-.061727	-.009244	-.005004	.032773
22-30	.019004	-.060789	-.027055	-.011563	-.011781	.019908

RUN NO. 65A 16M 05-09-62 1304-1420 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.26867 10E 01	0.93185 10E 00	0.51497 10E 00	0.10295 10E 01	0.56896 10E 00	0.19734 10E 00
1	-.020054	-.080902	-.144686	-.041949	-.051885	.062936
2	-.044265	-.015920	-.137021	-.045673	-.091043	.050125
3	-.066554	-.007683	-.138169	-.081051	-.113329	.014407
4	-.084954	-.033384	-.126793	-.037392	-.099744	-.024735
5	-.079153	-.007399	-.107241	-.017293	-.075213	-.013874
6	-.061042	-.000105	-.084218	.003631	-.053293	-.037423
7	-.024231	.008142	-.083678	-.006080	-.017699	-.025915
8	-.004480	-.070134	-.127786	.002563	.017636	-.016869
9	.015091	-.036391	-.101615	.018903	.060636	-.006664
10	.037474	-.012687	-.061851	.021304	.064713	-.003385
11	.023309	-.023084	-.026457	.049965	.039578	-.017706
12	.027594	.008400	.008905	.049772	.047348	-.016564
13	-.011054	-.046864	.032281	.031962	.049096	-.073835
14	-.030292	-.014448	.048603	.062066	.056767	-.052215
15	-.024643	.054634	.056985	.098207	.072880	.012154
16	-.070666	.039443	.052987	.080051	.050736	.031308
17	-.077893	.041599	.048289	.049198	.048382	.051638
18	-.045130	-.008372	.003832	-.001694	.067411	.033702
19	-.051553	-.057575	-.001987	-.025772	.066619	.011227
20	-.067730	.015644	.029914	-.056363	.055175	.027421
21	-.067592	.038959	.070712	-.043211	.027814	.009429
22	-.022374	.006090	.065069	.001706	.019379	.014598
23	-.009769	-.016151	.054126	-.039770	.014780	-.023432
24	-.011175	.023634	.055759	-.052111	-.014473	-.021761
25	.034218	.015399	.005744	-.037427	-.027636	-.020379
26	.060573	-.058754	-.098121	-.019001	-.032338	-.016440
27	.059452	-.034850	-.119103	-.033187	-.041775	.013051
28	.042221	-.007804	-.090438	-.026305	-.022762	.051907
29	.031810	-.017330	-.050199	-.022121	-.037483	.014818
30	.031077	-.031952	-.025767	-.014199	-.074530	-.001013

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
1	-.698331	-.095464	-.183173	.168863	.106760	-.175556
2	-.252301	-.107359	-.259920	-.001051	-.077343	-.167680
3	-.396271	-.082823	-.263181	-.234957	-.202452	-.013093
4	-.787952	-.003639	-.144562	-.196255	-.177868	.185264
5	-.508746	.015363	-.059424	-.049265	-.142496	.092831
6	-.089336	-.041006	-.042260	-.089864	-.093770	.030582
7	.098646	-.091079	-.105340	-.131216	-.031542	.234303
8	.114555	-.052705	-.105963	-.051005	-.002596	.336295
9-11	.057158	-.064159	-.052394	-.041372	-.006293	.107002
12-14	.025392	-.003900	-.016938	.033636	.001295	.122401
15-21	-.002280	-.068737	-.028836	-.005031	.003520	.034841
22-30	-.003721	-.020619	-.013481	-.032441	-.003517	.029316

RUN NO. 65A 16M 05-09-62 1304-1420 EST
 30 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.24317 10E 01	0.29683 10E 01	0.35709 10E 00	0.10905 10E 00
0	1.000000	1.000000	1.000000	1.000000
1	.551328	.679695	.151400	.593013
2	.203592	.431887	-.097336	.304213
3	.098207	.262372	-.030314	.140453
4	.046207	.168887	-.061240	.024959
5	-.037944	.128954	-.114648	-.066509
6	-.090989	.027821	-.102441	-.152030
7	-.171186	-.060730	.024950	-.152993
8	-.199675	-.123871	-.041734	-.184202
9	-.255236	-.141333	-.106349	-.263546
10	-.234046	-.134284	-.074669	-.290006
11	-.212240	-.175218	-.093490	-.336328
12	-.168460	-.217643	-.095295	-.300115
13	-.121311	-.246570	-.022305	-.214990
14	-.057623	-.255937	-.017931	-.159867
15	-.016478	-.237324	.039739	-.094159
16	.017152	-.218177	.029621	-.049971
17	.090365	-.219736	.094633	.040418
18	.162008	-.192767	.056280	.114577
19	.132099	-.138320	.009744	.104661
20	.075031	-.114368	.001553	.119691
21	.033353	-.135740	.070893	.104223
22	-.041916	-.122829	.044513	.085978
23	-.069485	-.098538	-.060723	.094209
24	-.042788	-.055180	-.090144	.135000
25	-.037055	-.014648	-.079057	.167802
26	-.036846	-.019388	-.005244	.148093
27	-.124801	-.061033	-.031912	.083279
28	-.119359	-.051971	.002905	.012559
29	-.093683	-.018788	-.020329	-.071522
30	-.087669	.012908	-.053876	-.168902

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.027741	.072536	.006492	.004488
1	.186946	.606912	.062583	.077317
2	.259776	.572502	.117565	.152990
3	.373120	.422799	.214630	.197068
4	.289298	.244555	.203522	.123312
5	.135938	.182089	.134597	.061612
6	.110982	.155486	.153113	.057862
7	.117273	.121477	.196979	.066428
8	.097666	.087387	.208837	.056107
9-11	.103516	.092683	.156860	.033658
12-14	.081968	.069246	.137590	.027867
15-21	.056512	.032575	.175734	.019289
22-30	.033239	.037510	.143646	.016573

RUN NO. 65A 40M 05-09-62 1304-1420 EST

GROSS STATISTICS

CLEAR	WIND SPEED	9.64 M/SEC	WIND DIRECTION	322 DEG
UNSTABLE	SIGMA A	14.4 DEG	SOLAR RADIATION	1.33
LAND	SIGMA E	7.7 DEG	NET RADIATION	0.03

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.47963E 01	0.37750E 01	0.17985E 01	0.29697E 01
V	0.60237E 01	0.33282E 01	0.19772E 01	0.23589E 01
W	0.14471E 01	0.14433E 01	0.12373E 01	0.70934E 00
T	0.29712E-00	0.11678E-00	0.60622E-01	0.87807E-01
E	0.61336E 01	0.42739E 01	0.25065E 01	

GUSTINESS RATIOS

U	0.22718	0.20155	0.13912	0.17876
V	0.25460	0.18925	0.14586	0.15932
W	0.12479	0.12462	0.11539	0.08737

COVARIANCES

U,V	-0.59850E 00	-0.89567E-01	0.80748E-01	-0.18008E-00
U,W	-0.91148E 00	-0.89727E 00	-0.51141E 00	-0.69231E 00
U,T	-0.48638E-00	-0.35544E-00	-0.14495E-00	-0.30661E-00
V,W	-0.13840E-01	-0.97802E-01	-0.64911E-02	-0.17014E-01
V,T	0.44242E-00	0.36752E-01	0.18149E-01	0.34235E-01
W,T	0.25033E-00	0.20593E-00	0.12799E-00	0.14600E-00
WE	0.28502E-00	0.55697E 00	0.46764E-00	

NORMALIZED COVARIANCES

U,V	-0.11135	-0.02527	0.04202	-0.06804
U,W	-0.34597	-0.38440	-0.34282	-0.47700
U,T	-0.40742	-0.53534	-0.43898	-0.60044
V,W	-0.00469	-0.04462	-0.00415	-0.01315
V,T	0.33085	0.05895	0.05242	0.07522
W,T	0.38175	0.50160	0.46733	0.58502

RUN NO. 65A 40M 05-09-62 1304-1420 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,M	U,T	V,M	V,T	M,T
	0.18856 10E 01	0.14918 10E 01	0.33014 10E 00	0.15644 10E 01	0.34620 10E 00	0.27390 10E 00
0	.042824	-.343030	-.438861	-.004192	.052385	.467437
1	.031806	-.321398	-.414111	.003842	.048862	.405252
2	.022001	-.271647	-.365974	.016330	.043331	.311331
3	.018995	-.220576	-.311651	.030230	.038345	.243492
4	.015393	-.175874	-.258738	.036134	.032071	.196181
5	.009517	-.142985	-.212578	.039673	.031412	.156761
6	-.003140	-.119448	-.170434	.043374	.033356	.121415
7	-.012621	-.098569	-.136491	.043613	.035440	.095462
8	-.024601	-.066367	-.100767	.042335	.041397	.069504
9	-.034331	-.032172	-.062959	.041790	.048127	.042600
10	-.037606	-.005415	-.023432	.033680	.045256	.014970
11	-.033999	.019837	.010470	.021807	.035799	-.012044
12	-.025370	.041419	.043810	.011931	.021186	-.039938
13	-.017656	.056507	.070489	.005163	.011236	-.066450
14	-.010224	.062496	.095661	-.004987	.004878	-.088972
15	-.009447	.070123	.116406	-.014138	-.001691	-.107300
16	-.009677	.080006	.130212	-.022820	-.009168	-.121698
17	-.006656	.088108	.135004	-.028242	-.015959	-.126648
18	-.001427	.099343	.140870	-.029719	-.025884	-.128868
19	.002168	.108579	.147378	-.036465	-.032059	-.130688
20	.001622	.117338	.150724	-.043767	-.033352	-.131346
21	.003685	.119757	.146841	-.046074	-.032472	-.123161
22	.004063	.118823	.135928	-.043312	-.035974	-.110123
23	.004249	.114760	.123845	-.042751	-.043288	-.095861
24	.005724	.103263	.110157	-.045017	-.052516	-.087362
25	.007574	.091616	.099051	-.045258	-.061262	-.088953
26	.009629	.090916	.092849	-.040898	-.067294	-.094366
27	.011937	.089070	.086151	-.036304	-.062730	-.094321
28	.008779	.080238	.075489	-.028342	-.050936	-.087146
29	.008634	.068289	.062330	-.023925	-.045183	-.076741
30	.003219	.059805	.049144	-.022140	-.037295	-.063915
31	.000038	.058418	.036522	-.013504	-.030817	-.046389
32	-.001353	.048463	.019679	-.002183	-.028259	-.028414
33	-.001702	.034662	.001989	.003780	-.025760	-.013386
34	.001334	.016620	-.010473	.003867	-.025864	-.003516
35	.004518	.007869	-.016150	.004816	-.025794	-.002683
36	.011743	.000821	-.019326	.001031	-.028270	-.000751
37	.014746	-.008405	-.022283	-.002433	-.030813	.003065
38	.016029	-.014167	-.020902	-.002382	-.029450	.008484
39	.014769	-.017005	-.018131	.001069	-.029054	.011193
40	.011468	-.020874	-.014517	.001930	-.031084	.002750
41	.008973	-.017280	-.008441	.002237	-.031382	-.008565
42	.006512	-.006851	.003296	.000491	-.022027	-.008533
43	.000873	.000273	.013208	-.000355	-.011350	-.002750
44	-.002060	.006217	.018170	-.003191	-.010197	-.015396
45	-.000116	.006290	.023279	-.005890	-.013440	-.017068
46	.002499	.006420	.029989	-.014783	-.016352	-.010092
47	.008688	-.000822	.026474	-.018955	-.015869	-.004599
48	.012630	-.010268	.021045	-.017563	-.007575	-.004228
49	.014637	-.018490	.017705	-.020363	.004251	-.009197
50	.012672	-.015542	.018131	-.020793	.018600	-.010587
51	.008485	-.011122	.018812	-.017105	.033380	-.009948
52	.005374	-.010292	.025503	-.012909	.046432	-.007596
53	.008995	-.005362	.034643	-.009959	.053426	-.005816
54	.016472	.000292	.041377	-.009039	.053238	-.002344
55	.017119	.007012	.046938	-.003661	.049941	-.007636
56	.011522	.007633	.049638	.001907	.040139	-.012241
57	.007333	.006379	.046309	.006050	.028839	-.017407
58	.005061	.002337	.039523	.008438	.025651	-.019008
59	-.000404	-.005188	.028582	.009478	.026623	-.019791
60	-.004680	-.012444	.019171	.012258	.024686	-.018898

RUN NO. 65A 40M 05-09-62 1304-1420 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	M,T
	0.18856 10E 01	0.14918 10E 01	0.33014 10E 00	0.15644 10E 01	0.34620 10E 00	0.27390 10E 00
1	.006423	-.026199	-.044025	.012121	.001079	.036765
2	.008509	-.048595	-.072358	.022406	.001982	.056676
3	.004210	-.060225	-.088436	.026702	-.001340	.067762
4	-.003077	-.058822	-.095361	.027941	-.008393	.076100
5	-.007812	-.056682	-.096185	.028040	-.013049	.081446
6	-.008871	-.059715	-.096808	.021833	-.013372	.090744
7	-.007713	-.063656	-.096575	.011599	-.012521	.094768
8	-.007221	-.060404	-.096169	.011654	-.014760	.086457
9	-.010450	-.051323	-.092446	.016138	-.011163	.074909
10	-.015823	-.048145	-.090066	.013056	-.008332	.063288
11	-.022944	-.044227	-.087035	.003328	-.013065	.053743
12	-.029925	-.044655	-.087592	.000243	-.021424	.045274
13	-.035514	-.047532	-.089145	.002360	-.027445	.040406
14	-.040312	-.043292	-.084416	.000300	-.031567	.037495
15	-.037318	-.038671	-.072624	.000735	-.036418	.028719
16	-.029775	-.034796	-.058659	.003077	-.035327	.025844
17	-.023333	-.026564	-.049642	.007690	-.027004	.036341
18	-.019640	-.018669	-.043602	.011545	-.017852	.043277
19	-.018377	-.012523	-.037467	.016511	-.009726	.041043
20	-.016928	-.007997	-.036174	.020288	-.004023	.037201
21	-.011277	-.007680	-.035615	.018729	-.000965	.035916
22	-.003947	-.010301	-.031547	.011397	-.003479	.027823
23	.001225	-.011071	-.026146	-.000266	-.008352	.016084
24	.002853	-.009695	-.019097	-.010608	-.013290	.002319
25	.007624	-.009220	-.019993	-.020437	-.019287	-.008221
26	.012254	-.009384	-.018153	-.024907	-.023777	-.015575
27	.017914	-.008710	-.013375	-.031907	-.023378	-.017714
28	.016064	-.011593	-.011058	-.029038	-.016735	-.016197
29	.014720	-.015378	-.011881	-.025301	-.009401	-.015489
30	.018868	-.017101	-.009196	-.012873	-.001775	-.020279
31	.019124	-.014500	-.003614	-.008771	.000822	-.031289
32	.019104	-.008846	.001536	-.004301	.006739	-.044009
33	.023998	-.001393	.002213	-.000681	.015881	-.051964
34	.028761	.006169	-.001433	-.001298	.021195	-.052921
35	.026802	.013176	-.002592	-.004586	.026254	-.048476
36	.027137	.018774	.002109	-.006072	.032325	-.041545
37	.026661	.017682	.009715	-.010905	.033242	-.042042
38	.024515	.010843	.018437	-.015983	.031849	-.040750
39	.019212	.013377	.029866	-.014054	.035729	-.029758
40	.019095	.016342	.042924	-.010458	.045006	-.017149
41	.016428	.023908	.050830	-.006202	.050129	-.007070
42	.018800	.030728	.058866	-.006351	.047370	-.005644
43	.025797	.035026	.062643	.001141	.042498	-.004958
44	.023665	.044553	.068268	.008359	.039540	-.005238
45	.018925	.046661	.073888	.006370	.032695	-.002024
46	.013940	.041386	.071446	.004729	.025747	-.002113
47	.010299	.032036	.062919	.006929	.024499	-.005725
48	.007017	.022408	.053660	.000946	.023535	-.001115
49	.002568	.017069	.046780	-.002344	.019163	.006214
50	-.006148	.018266	.041630	-.001116	.015300	.011309
51	-.011645	.018933	.035368	.000890	.016002	.007235
52	-.018478	.012694	.026724	-.001224	.009297	.003071
53	-.027069	.001898	.014826	-.005875	-.003677	.006113
54	-.034309	-.001812	.007016	-.005899	-.016959	.002908
55	-.041829	-.001536	.002747	-.007049	-.026577	-.003393
56	-.050710	-.000189	.000457	-.008607	-.039041	-.012275
57	-.052158	.003411	.000102	-.006478	-.052290	-.016647
58	-.049891	.011401	.001870	-.003118	-.056440	-.016335
59	-.043788	.009823	-.001074	-.002037	-.056147	-.013733
60	-.037898	.001072	-.010468	-.008534	-.059180	-.010377

RUN NO. 65A 40M 05-09-62 1304-1420 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

N	U	V	W	T
	0.17981 10E 01	0.19774 10E 01	0.12377 10E 01	0.60613 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.860227	.828280	.756358	.863768
2	.685231	.617718	.492199	.670654
3	.543961	.458475	.330155	.519990
4	.429612	.343695	.234366	.412116
5	.334315	.249756	.156162	.326286
6	.260740	.182358	.097117	.252173
7	.195794	.140046	.062800	.189628
8	.134082	.096214	.024732	.137075
9	.079977	.048314	-.016761	.088623
10	.026947	.000737	-.054530	.042104
11	-.016185	-.044875	-.089927	-.004913
12	-.056587	-.084892	-.113385	-.050474
13	-.098875	-.121087	-.122673	-.097219
14	-.140064	-.148469	-.134583	-.140105
15	-.176050	-.169727	-.145652	-.171756
16	-.205714	-.189444	-.161701	-.191699
17	-.218777	-.203914	-.170362	-.200094
18	-.221051	-.203931	-.181188	-.208295
19	-.230186	-.203595	-.196468	-.215339
20	-.242500	-.207628	-.206098	-.222083
21	-.245933	-.210734	-.198661	-.220671
22	-.240459	-.217312	-.182532	-.215570
23	-.229860	-.222322	-.173686	-.215702
24	-.210738	-.230267	-.165539	-.220791
25	-.198396	-.240580	-.168969	-.219143
26	-.190051	-.241861	-.178353	-.211323
27	-.187347	-.230925	-.178396	-.199240
28	-.184184	-.216647	-.164972	-.187084
29	-.173743	-.200877	-.141451	-.174141
30	-.152010	-.173202	-.114613	-.154928
31	-.130092	-.139348	-.084977	-.122109
32	-.109120	-.105955	-.054644	-.088359
33	-.090715	-.078547	-.033926	-.061597
34	-.051724	-.055291	-.007014	-.047755
35	-.075697	-.047566	.021413	-.043887
36	-.069338	-.038971	.044400	-.040485
37	-.060034	-.026122	.061911	-.039684
38	-.050546	-.015727	.080877	-.038377
39	-.042604	-.008478	.085686	-.035751
40	-.033632	.002119	.078495	-.036886
41	-.023878	.017885	.059113	-.032899
42	-.015880	.027211	.045582	-.022404
43	-.012518	.030848	.032270	-.023041
44	-.005205	.046900	.023331	-.028986
45	-.005561	.068851	.013249	-.031812
46	-.005017	.080110	.020011	-.037180
47	.005164	.086435	.028827	-.039546
48	.020415	.101141	.026555	-.042229
49	.026440	.114604	.017515	-.039327
50	.031338	.123206	.007547	-.034779
51	.034897	.130496	-.000296	-.031493
52	.034281	.141448	-.015199	-.029311
53	.033089	.146438	-.017646	-.029292
54	.031662	.146371	-.007176	-.024921
55	.026573	.139066	-.005010	-.018619
56	.021479	.118771	-.003609	-.011790
57	.020404	.088563	.001244	-.009387
58	.023805	.059479	-.002819	-.010391
59	.030706	.034597	-.005669	-.005516
60	.033286	.018180	-.012103	-.000062

RUN NO. 65A 40M 05-09-62 1304-1420 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E 00	10E-01	10E-01	10E-02	10E-01
0	-.004645	-.008908	-.041609	-.010234	-.014852	.021025
1	-.063609	-.082595	-.266167	.160403	.670928	.177368
2	-.013052	-.104494	-.293054	.254982	.854235	.214230
3	.081434	-.109139	-.324535	.232540	.479732	.231910
4	.143983	-.066740	-.222264	.038376	-.001311	.159215
5	.166970	-.033324	-.100804	-.128305	-.184524	.084107
6	.152777	-.025136	-.057146	-.124819	-.144060	.055243
7-8	.076416	-.016895	-.033511	-.071004	.000021	.033742
9-11	.003369	-.008519	-.024649	-.038864	.052737	.035296
12-15	-.017907	-.007884	-.016155	-.013874	.058112	.022771
16-20	.020352	-.004379	-.006014	-.015785	-.008911	.013351
21-27	.008884	-.000719	-.001750	-.004534	.012938	.008806
28-36	.008968	-.000678	-.001538	-.004284	-.002629	.005214
37-47	.003458	.000042	-.000507	.001499	.005612	.001941
48-60	.003095	-.000015	-.000475	-.002364	-.000528	.001104

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	-.047253	-.283644	-.118852	-.001627	-.222551	.443460
2	-.199408	-.316587	-.129114	.074023	-.421383	.734964
3	-.184407	-.248805	-.097019	.116274	-.177511	.778973
4	.003657	-.190120	-.065867	.061963	.066618	.389167
5	.078054	-.175032	-.051877	.015449	-.043202	.257655
6	.084085	-.088514	-.023754	.039819	.021517	.353057
7-8	.034917	-.046407	-.018535	.099652	.086448	.239634
9-11	-.009444	-.054203	-.015074	.002554	-.084577	.017976
12-15	.015162	-.012619	-.007362	.025089	.066483	.027561
16-20	.016701	-.021042	-.004082	.002837	.004976	.027101
21-27	.003574	-.002417	-.000741	-.004478	.007522	.023319
28-36	.000178	.005438	-.000868	.002671	-.009626	.005966
37-47	-.000596	-.000103	-.000357	-.001223	.001251	.007080
48-60	.000501	-.000769	-.000058	-.000026	.000498	-.000939

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E 00	10E-01
0	.034511	.022372	.007121	.012250
1	.276288	.231353	.093456	.094326
2	.312415	.312186	.143188	.102581
3	.304216	.313770	.169714	.100316
4	.200642	.191703	.113420	.065935
5	.122053	.126013	.071031	.037881
6	.083992	.107085	.070916	.029139
7-8	.061622	.078771	.053454	.021335
9-11	.046839	.056253	.040254	.016049
12-15	.028570	.041262	.029386	.010706
16-20	.017577	.023929	.020834	.006143
21-27	.009700	.014097	.013782	.004148
28-36	.006628	.009963	.009683	.002141
37-47	.004286	.005233	.005173	.001150
48-60	.002881	.004032	.003888	.000722

RUN NO. 65A 40M 05-09-62 1304-1420 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.26467 10E 01	0.14503 10E 01	0.51067 10E 00	0.12028 10E 01	0.45523 10E 00	0.24944 10E 00
0	-.068038	-.477372	-.600413	-.013160	.075204	.585315
1	-.058354	-.291445	-.423000	-.041452	.058704	.335866
2	-.031795	-.114189	-.241543	-.089788	-.010669	.113681
3	-.025465	-.038744	-.147902	-.059192	-.015141	.051471
4	-.008764	.013321	-.029700	-.009456	.000539	-.061110
5	.008602	.070568	.074308	-.014461	.033028	-.084111
6	.001315	.103806	.141722	.045211	.050910	-.137099
7	.000074	.135138	.179621	.091540	.063474	-.105391
8	-.029068	.152260	.207542	.066475	.043745	-.137362
9	-.021424	.167535	.202586	.026068	.033226	-.154999
10	.036029	.162175	.223550	-.003610	.004413	-.166407
11	.047832	.146694	.234556	-.001477	.016934	-.191719
12	.042644	.111136	.203602	.025101	.008296	-.130259
13	.025225	.031734	.143195	.044474	.003743	-.073039
14	.021519	-.020775	.092749	.014622	-.012022	.002937
15	.018572	-.036087	.014274	-.030040	-.035314	.038362
16	.010157	-.113629	-.091508	-.043894	-.033229	.084665
17	-.024821	-.180652	-.166719	.009969	.004077	.131101
18	-.031147	-.148014	-.177809	.030065	-.022232	.157655
19	-.005315	-.115360	-.163367	-.022545	-.058157	.129009
20	-.003579	-.046950	-.149589	-.023432	-.056931	.080610
21	-.006346	-.043156	-.120255	-.002541	-.036392	.076402
22	-.002561	-.036201	-.092227	.031207	-.018947	.073533
23	-.000232	.017719	-.034167	.001400	-.024423	.002486
24	.027528	.069519	.018033	-.033918	-.048918	-.022836
25	.016786	.066961	.014550	-.026494	-.040915	-.037545
26	-.008796	.107778	.060207	-.008959	-.040566	-.047887
27	-.036768	.101333	.086769	-.011352	-.054463	-.041926
28	-.062175	.073821	.111245	.052774	-.022741	-.038447
29	-.022000	.037662	.130399	.030215	-.026222	-.065992
30	.005121	.006156	.123195	-.014430	-.029768	-.120224

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E 00	10E-01	10E-01	10E-01	10E-01
0	-.072728	-.002682	-.021196	-.002423	.028528	.004478
1	-.364887	-.016521	-.176078	-.075641	.129787	.033238
2	-.373596	-.058606	-.431109	-.168104	.042503	.125289
3	-.366832	-.136284	-.735158	-.271161	-.029217	.257327
4	-.121865	-.119345	-.508418	-.253655	-.030004	.208219
5	.036101	-.044431	-.183846	-.144772	-.005057	.090733
6	-.141042	-.030419	-.171265	-.033885	.016687	.082027
7	-.287580	-.041234	-.185704	.040497	.037981	.103541
8	-.206488	-.035813	-.112647	.136413	.049826	.093777
9-11	.033232	-.026492	-.057523	.120413	.048021	.051697
12-14	-.050960	-.020736	-.061135	.020205	.015127	.040697
15-21	-.030095	-.012761	-.047945	.058244	.005569	.033041
22-30	.025247	-.007094	-.020205	-.023444	-.009264	.017774

RUN NO. 65A 40M 05-09-62 1304-1420 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.26467 10E 01	0.14503 10E 01	0.51067 10E 00	0.12928 10E 01	0.45523 10E 00	0.24944 10E 00
1	-.016068	-.078889	-.112402	-.007568	-.029555	.057360
2	-.034670	-.084730	-.127544	-.040526	-.056342	.011526
3	-.021050	-.103098	-.156168	-.064551	-.049304	-.045905
4	-.026142	-.081795	-.137730	-.080339	-.036580	-.052307
5	-.020383	-.055278	-.127128	-.042596	-.046407	-.037896
6	-.043818	-.058533	-.139207	-.040503	-.061381	-.053554
7	-.002505	-.055259	-.136241	-.007725	-.023656	-.022971
8	.022313	-.065439	-.107677	-.004666	.028980	-.027034
9	.046903	-.010876	-.101539	.028503	.074142	.014924
10	.042013	-.020733	-.063591	.031370	.066710	-.009904
11	.022976	-.006331	-.024656	.071110	.038361	-.020004
12	.009096	.021931	.015109	.045968	.033850	-.051294
13	.042220	.035310	.067273	.067853	.091571	-.060908
14	.033127	.084418	.081875	.053435	.151285	-.004031
15	.015353	.062941	.063181	.045753	.130335	.016452
16	-.022970	.040021	.060652	.069648	.099785	.030378
17	-.022741	.079808	.061724	.069856	.078352	.047015
18	-.040842	.030219	.039776	.030379	.078259	.008633
19	-.043189	-.013144	.024335	.009412	.054192	-.027066
20	-.026987	-.006028	.044087	-.042038	.009295	-.046386
21	-.012973	.016438	.061051	-.006626	.007495	-.014379
22	.010609	.000597	.052959	-.024550	-.016398	-.006265
23	-.000420	.020785	.036771	-.016239	-.010118	-.005189
24	-.002169	-.046256	-.004064	.003925	-.008640	-.038933
25	.014634	-.075843	-.055314	-.036139	-.013651	-.026347
26	.023332	-.091876	-.115965	-.058440	-.003753	.013341
27	.027551	-.063861	-.124976	-.048839	-.033073	.016171
28	.016640	-.066395	-.101857	-.010887	-.033030	.009342
29	.013228	-.054178	-.067590	.013870	-.043066	.027500
30	.022930	-.026422	-.013812	.016032	-.054242	.019541

QUADRATURE SPECTRUM

M	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
1	.095576	-.131641	-.178759	.225081	.178864	-.444143
2	.061869	-.357262	-.287849	-.055157	-.013497	-.322758
3	-.220704	-.555189	-.320649	-.348783	-.152815	-.256343
4	-.475845	-.312198	-.163419	-.295505	-.100985	-.068759
5	-.249359	-.102212	-.049477	-.120604	-.024877	-.014882
6	-.011386	-.121116	-.018760	-.077892	-.030137	-.123758
7	-.018080	-.182734	-.063772	-.036807	-.022281	.056096
8	.035593	-.141614	-.076416	.033224	.018667	.375803
9-11	-.006925	-.083179	-.032568	.029967	-.004979	.160007
12-14	-.086731	-.012420	-.021118	.040617	-.018392	.209295
15-21	.025818	-.028758	-.010785	.007594	.006765	.102801
22-30	.048952	-.020699	-.014077	.029302	.001964	.029830

RUN NO. 65A 40M 05-09-62 1304-1420 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.29690 10E 01	0.23594 10E 01	0.70840 10E 00	0.87834 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.664448	.621029	.293104	.657360
2	.401268	.355935	-.045301	.347646
3	.224196	.223683	-.074466	.170378
4	.057838	-.162843	-.055075	.007888
5	-.060259	.138490	-.090686	-.089430
6	-.151723	.042090	-.107080	-.140711
7	-.259100	-.129508	-.070483	-.152172
8	-.302452	-.117081	-.100068	-.186448
9	-.327658	-.061377	-.141739	-.218843
10	-.359691	-.035583	-.126919	-.253428
11	-.364401	-.054538	-.156658	-.281799
12	-.286599	-.111492	-.116078	-.250643
13	-.190373	-.196050	-.018904	-.214399
14	-.132931	-.181569	.001574	-.159608
15	-.037121	-.186924	.042215	-.069520
16	.083482	-.217266	.040629	.042006
17	.199829	-.223883	.140589	.133891
18	.242228	-.231911	.092341	.149738
19	.228338	-.176770	.085147	.114563
20	.189501	-.146643	.028956	.098236
21	.147442	-.141225	.089164	.051260
22	.127393	-.153453	.114624	-.002116
23	.067748	-.145443	-.041340	-.041947
24	-.003940	-.136846	-.078117	-.026559
25	-.036778	-.076998	-.069056	-.008557
26	-.102298	-.107362	-.159722	-.010603
27	-.183468	-.103461	-.100457	-.024711
28	-.227284	-.038296	.005600	-.071476
29	-.213610	.014873	.010274	-.138858
30	-.171835	.037952	-.041389	-.193495

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.033826	.066776	.014492	.011048
1	.229057	.477582	.119269	.082433
2	.420385	.391303	.308252	.118231
3	.654588	.263626	.628474	.157775
4	.447828	.186607	.559318	.111155
5	.168270	.173213	.322227	.052857
6	.138956	.137598	.326761	.055007
7	.147088	.079772	.395239	.063184
8	.110270	.047465	.437840	.043799
9-11	.079695	.076686	.356809	.025819
12-14	.060807	.081906	.327608	.016746
15-21	.041633	.033920	.201365	.014253
22-30	.034766	.032884	.208274	.008956

RUN NO. 65A 16M 05-09-62 1304-1420 EST
 RUN NO. 65A 40M 05-09-62 1304-1420 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.814583	.713015	.684015	.845923
1	.780217	.775488	.629754	.811638
2	.687342	.762255	.634346	.760607
3	.546605	.697034	.655710	.695490
4	.402356	.586847	.650001	.615350
5	.328117	.560076	.573491	.545891
6	.249038	.560350	.574680	.498158
7-8	.152146	.482998	.487783	.337887
9-11	.136288	.453685	.423646	.284383
12-15	.116431	.268151	.326506	.350564
16-20	.102495	.129487	.289059	.170745
21-27	.132225	.134840	.187949	.127549
28-36	.082823	.089333	.089435	.086152
37-47	.101429	.116827	.134144	.138695
48-60	.083965	.077556	.124337	.083773

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.949011	.955236	.718212	.972304
1	.872236	.959900	.601781	.820874
2	.878359	.942288	.678860	.848902
3	.908825	.873346	.794059	.893395
4	.907467	.796224	.822710	.900994
5	.863973	.806124	.770769	.829106
6	.765482	.760023	.731109	.833296
7	.697614	.712850	.644724	.886335
8	.712039	.709708	.635508	.846301
9-11	.758062	.797896	.622679	.771280
12-14	.623632	.768405	.664094	.696378
15-21	.420167	.516376	.642244	.612055
22-30	.369301	.475772	.580599	.559858

RUN NO. 658 16M 05-09-62 1434-1550 EST

GROSS STATISTICS

CLEAR	WIND SPEED	9.62 M/SEC	WIND DIRECTION	322 DEG
UNSTABLE	SIGMA A	19.5 DEG	SOLAR RADIATION	0.98
LAND	SIGMA E	5.8 DEG	NET RADIATION	0.56

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<u>VARIANCES</u>				
U	0.68505E 01	0.40955E 01	0.22540E 01	0.30035E 01
V	0.11436E 02	0.45706E 01	0.21862E 01	0.35297E 01
W	0.88241E 00	0.87940E 00	0.78764E 00	0.34109E-00
T	0.16709E-00	0.89652E-01	0.54043E-01	0.65025E-01
E	0.95846E 01	0.47737E 01	0.26139E 01	

GUSTINESS RATIOS

U	0.27207	0.21037	0.15606	0.18015
V	0.35154	0.22224	0.15370	0.19530
W	0.09765	0.09748	0.09221	0.06071

COVARIANCES

U,V	0.35438E 01	0.18731E-00	0.48628E-01	0.16334E-00
U,W	-0.68920E 00	-0.68615E 00	-0.50524E 00	-0.44795E-00
U,T	-0.48917E-00	-0.32332E-00	-0.16816E-00	-0.25818E-00
V,W	0.94391E-01	0.12667E-00	0.87301E-01	0.97646E-01
V,T	-0.40949E-00	-0.56685E-01	-0.11901E-01	-0.50146E-01
W,T	0.13155E-00	0.12250E-00	0.97787E-01	0.70721E-01
WE	-0.22842E-00	-0.14322E-00	0.56181E-01	

NORMALIZED COVARIANCES

U,V	0.40037	0.04329	0.02191	0.05017
U,W	-0.28032	-0.36155	-0.37919	-0.44257
U,T	-0.45722	-0.53358	-0.48182	-0.58421
V,W	0.02971	0.06318	0.06653	0.08899
V,T	-0.29623	-0.08855	-0.03462	-0.10467
W,T	0.34258	0.43628	0.47396	0.47486

RUN NO. 658 16M 05-09-62 1434-1550 EST
 51 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.22199 10E 01	0.13323 10E 01	0.34899 10E 00	0.13122 10E 01	0.34372 10E 00	0.20629 10E 00
0	.021938	-.379226	-.481788	.066339	-.034725	.474212
1	.023756	-.325313	-.446035	.063120	-.026812	.394158
2	.019911	-.244927	-.378918	.050872	-.015998	.281566
3	.011873	-.183191	-.311643	.033333	-.010197	.203607
4	.006016	-.136984	-.250574	.028698	-.009918	.150323
5	.002690	-.107797	-.200183	.023036	-.011146	.106602
6	-.002501	-.086162	-.157799	.015950	-.011274	.077915
7	-.011040	-.067786	-.119233	.012336	-.009617	.057336
8	-.014822	-.039990	-.082184	.012520	-.003873	.037164
9	-.015178	-.013830	-.051174	.014887	.000346	.016177
10	-.012008	.005190	-.025135	.023854	-.000148	-.009061
11	-.014614	.030099	-.000158	.027210	-.003032	-.035081
12	-.014529	.057157	.028664	.025287	.002929	-.063673
13	-.017142	.073779	.058140	.018892	.008738	-.090011
14	-.014017	.079193	.088428	.013581	.010688	-.104089
15	-.005736	.083480	.117235	.007506	.015601	-.108544
16	.002264	.089147	.141989	.000414	.016324	-.111106
17	.004445	.094434	.148773	-.011642	.011899	-.108698
18	.007832	.091852	.154168	-.022796	.010577	-.105759
19	.009118	.090591	.159058	-.021680	.018060	-.103952
20	.009889	.087415	.158487	-.029653	.024626	-.101783
21	.010625	.087028	.157076	-.035252	.029504	-.106090
22	.012680	.081660	.158479	-.035936	.033114	-.107579
23	.011595	.076718	.155564	-.030539	.036888	-.101928
24	.006375	.080341	.152061	-.026691	.035517	-.098219
25	.004276	.073771	.141535	-.031811	.032440	-.089417
26	.003024	.070774	.128463	-.036851	.031757	-.082989
27	.007509	.080692	.114892	-.030454	.029230	-.079980
28	.015271	.085706	.101370	-.022032	.027630	-.073317
29	.014046	.080011	.093937	-.024293	.023593	-.057797
30	.008785	.065060	.089016	-.022098	.016878	-.040331
31	.010732	.053875	.081372	-.018348	.008904	-.025294
32	.015959	.043371	.070274	-.018315	.001884	-.012264
33	.021567	.034629	.054244	-.018124	-.002733	-.005935
34	.023964	.034461	.043518	-.023312	-.016875	-.009903
35	.025963	.037259	.038435	-.027816	-.033234	-.017937
36	.020836	.033094	.036941	-.029858	-.040977	-.022488
37	.019142	.017456	.033990	-.031869	-.043763	-.018811
38	.018464	.009738	.025173	-.035110	-.051766	-.011642
39	.021207	.003624	.012856	-.036460	-.058500	-.005519
40	.015127	-.007423	-.008739	-.027543	-.054728	-.001868
41	.007637	-.011901	-.007230	-.011310	-.048109	-.000281
42	.004084	-.014226	-.013818	-.002996	-.051063	.005160
43	.001961	-.015251	-.025575	-.001710	-.060161	.013323
44	.005281	-.025897	-.042734	-.003604	-.066913	.014077
45	.007495	-.032584	-.052601	.005023	-.065849	.009083
46	.004601	-.035956	-.055018	.009696	-.058947	.000537
47	-.002187	-.036481	-.055114	.007451	-.051527	-.001069
48	-.014056	-.035640	-.058720	.012232	-.047504	.007247
49	-.017072	-.035123	-.058896	.021551	-.044186	.019429
50	-.017664	-.033964	-.057858	.030553	-.032952	.030967
51	-.018931	-.035296	-.054301	.031171	-.017303	.034980
52	-.018307	-.036302	-.048963	.028210	-.000981	.036233
53	-.021518	-.032972	-.045758	.025914	.017311	.037314
54	-.027819	-.024548	-.041512	.025367	.030384	.032166
55	-.035425	-.023750	-.035412	.029032	.041256	.029628
56	-.037444	-.029776	-.030223	.032454	.048700	.027390
57	-.034519	-.021733	-.024276	.031437	.054296	.024849
58	-.028734	-.023861	-.016741	.029338	.062253	.023643
59	-.020067	-.032352	-.007890	.023028	.062235	.029216
60	-.009901	-.034495	.000869	.012920	.058700	.035781

RUN NO. 658 16M 05-09-62 1434-1550 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.22199 10E 01	0.13323 10E 01	0.34899 10E 00	0.13122 10E 01	0.34372 10E 00	0.20629 10E 00
1	.012033	-.086036	-.070422	.014841	.003417	-.027310
2	.014288	-.120189	-.110408	.011171	.003753	-.030781
3	.009935	-.126112	-.131894	.008869	.001429	-.023707
4	.005306	-.122182	-.144521	.005558	-.006232	-.022485
5	.000030	-.108209	-.154331	.003528	-.013542	-.030368
6	-.000918	-.084099	-.158260	-.000943	-.018897	-.038667
7	.000912	-.066172	-.152811	-.005613	-.017437	-.041388
8	.019613	-.053786	-.145401	-.000835	-.011581	-.044560
9	.028394	-.040283	-.139435	-.002490	-.008303	-.050893
10	.036193	-.032556	-.128182	-.002777	-.005100	-.045455
11	.040982	-.025953	-.111860	.003929	.009972	-.036421
12	.037983	-.021242	-.095117	.010925	.026968	-.028523
13	.031025	-.017001	-.077584	.015784	.038999	-.020537
14	.026772	-.012221	-.062434	.008729	.043047	-.022730
15	.020436	-.000848	-.052114	-.005626	.041495	-.032792
16	.013281	.013661	-.046282	-.010786	.032744	-.036207
17	.005848	.022141	-.042781	-.015415	.017536	-.034615
18	.005297	.024127	-.031926	-.016968	.007808	-.029829
19	.008360	.031694	-.016133	-.015680	.010264	-.020837
20	-.010254	.035354	-.005811	-.012685	.021281	-.021684
21	.013414	.034208	.002360	-.008322	.033231	-.030773
22	.014116	.032194	.010418	-.004261	.043383	-.037114
23	.014764	.033439	.023773	.001196	.045665	-.038183
24	.016372	.030540	.032122	-.000840	.039490	-.033920
25	.014429	.025265	.035143	-.008287	.029895	-.022310
26	.008173	.020525	.038430	-.002960	.023700	-.0208520
27	.004047	.021460	.047880	.006277	.017933	-.001192
28	-.001288	.021462	.050760	.014065	.011651	-.006886
29	-.006641	.016475	.048323	.015480	.006024	-.018865
30	-.012716	.010330	.045497	.014582	-.004717	-.030692
31	-.016562	.005661	.040996	.020126	-.014342	-.036805
32	-.021205	.000029	.031853	.024324	-.018722	-.025644
33	-.021320	-.009953	.020243	.012196	-.016480	-.019092
34	-.022018	-.020347	.012446	-.001464	-.009257	-.022852
35	-.023978	-.029948	.005635	-.015084	-.004086	-.028125
36	-.022198	-.033900	-.002270	-.022885	-.006107	-.035282
37	-.022307	-.033193	-.009885	-.019994	-.008436	-.039217
38	-.026626	-.036702	-.015589	-.015571	-.012496	-.039990
39	-.032622	-.037404	-.019088	-.011557	-.015358	-.035058
40	-.030712	-.030361	-.025348	-.004661	-.017784	-.023431
41	-.031597	-.022462	-.028212	-.008402	-.021492	-.019152
42	-.031739	-.021435	-.026207	-.014671	-.022273	-.016400
43	-.021657	-.014928	-.023576	-.017533	-.019857	-.001955
44	-.008758	.000070	-.016163	-.012131	-.015155	-.014220
45	.002384	.012749	-.002956	-.004972	-.013462	-.014091
46	.013796	.018527	.006193	-.000978	-.007341	-.009688
47	.029010	.021924	.012003	-.003151	-.002582	-.007658
48	.039478	.026438	.019149	-.007363	-.001594	-.004611
49	.042131	.026752	.026077	-.010189	.000362	-.004629
50	.037828	.020363	.025476	-.002564	.004059	-.006300
51	.028746	.005218	.018582	.006013	.008659	-.003509
52	.018831	-.006840	.013236	.002245	.005574	-.002273
53	.008952	-.012958	.014676	-.013872	-.005250	-.004372
54	.002041	-.007444	.016015	-.027448	-.016223	-.005449
55	-.001357	.003325	.018301	-.028201	-.019196	-.008319
56	-.001103	.006824	.017377	-.022003	-.015086	-.014895
57	-.003183	.020305	.014858	-.012780	-.006049	-.019495
58	-.009108	.030138	.014237	-.002076	.007153	-.015549
59	-.008603	.036731	.013142	.009626	.014551	-.011830
60	-.003540	.032201	.008240	.010110	.014271	-.010382

RUN NO. 658 16M 05-09-62 1434-1550 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.22539 10E 01	0.21863 10E 01	0.78751 10E 00	0.54037 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.842303	.827953	.667597	.851098
2	.647359	.628778	.345652	.652292
3	.493988	.486851	.184621	.505216
4	.370197	.387291	.095910	.397616
5	.264168	.308653	.042494	.311345
6	.180652	.246932	.018649	.235367
7	.115343	.201421	.009771	.167497
8	.053938	.157621	-.010349	.107407
9	.002016	.113100	-.034587	.050461
10	-.039202	.064706	-.052318	-.003112
11	-.076650	.010235	-.066848	-.050961
12	-.109958	-.035179	-.096593	-.093786
13	-.133312	-.070848	-.133995	-.129483
14	-.150880	-.098446	-.140459	-.163652
15	-.166318	-.128482	-.122741	-.198621
16	-.180424	-.162926	-.117615	-.223577
17	-.194702	-.187096	-.122149	-.232845
18	-.204998	-.216740	-.128137	-.239216
19	-.213911	-.247576	-.136415	-.251818
20	-.212692	-.274162	-.131706	-.258139
21	-.206455	-.283554	-.135208	-.258273
22	-.200414	-.276404	-.125297	-.256230
23	-.195489	-.259972	-.108816	-.251798
24	-.194080	-.237762	-.114278	-.244803
25	-.190247	-.218604	-.103088	-.236685
26	-.187240	-.200649	-.077220	-.224071
27	-.181937	-.182444	-.078271	-.210108
28	-.171430	-.159896	-.084543	-.193795
29	-.158582	-.138401	-.081323	-.174431
30	-.142896	-.121353	-.055831	-.150670
31	-.122161	-.101626	-.016149	-.121044
32	-.104404	-.083034	.011344	-.091652
33	-.083379	-.064392	.021621	-.075156
34	-.064450	-.053180	.014756	-.065680
35	-.053318	-.034555	-.000783	-.053386
36	-.043142	-.017883	-.017770	-.045230
37	-.028147	-.019695	-.021354	-.031185
38	-.012436	-.032084	-.013775	-.013686
39	-.001887	-.041113	-.007504	.001867
40	.011360	-.050014	-.003155	.013294
41	.017185	-.050926	.011216	.017475
42	.018726	-.052435	.026817	.025445
43	.020260	-.040095	.033445	.041506
44	.026632	-.032389	.032652	.053727
45	.041555	-.024566	.025806	.060571
46	.056811	-.020241	.010036	.062849
47	.060134	-.026396	.017052	.067745
48	.062940	-.035592	.041625	.076465
49	.065577	-.042721	.054627	.079409
50	.068164	-.047366	.063385	.074423
51	.069110	-.048113	.067342	.063013
52	.064724	-.037469	.061218	.057721
53	.061485	-.031039	.039425	.055145
54	.053558	-.032995	.015205	.053625
55	.044557	-.031867	.008663	.050285
56	.038286	-.027321	-.009047	.050916
57	.028937	-.022868	-.011942	.051139
58	.021502	-.012355	.003878	.044401
59	.015807	.007128	.028841	.037252
60	.011623	.031703	.032733	.026798

RUN NO. 65B 16M 05-09-62 1434-1550 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-01
0	.041274	-.041118	-.027199	.012236	.001189	.007032
1	-.005599	-.576213	-.268172	.211437	.150897	.095796
2	-.069455	-.822601	-.351482	.241318	-.238992	.137404
3	.054051	-.857530	-.354237	.140670	-.500079	.155611
4	.116858	-.569447	-.213107	.026686	-.021562	.113909
5	.098615	-.401339	-.116853	-.003392	.106557	.070434
6	.126153	-.289835	-.066659	-.019656	-.078394	.048352
7-8	.065990	-.155527	-.050989	.056806	-.048019	.036635
9-11	.002570	-.123631	-.041272	.054396	-.007888	.026496
12-15	.009732	-.109899	-.019596	.009858	-.034827	.024994
16-20	-.007109	-.062858	-.010881	.005310	-.030414	.011833
21-27	.008650	-.034367	-.005017	.008067	-.019241	.007990
28-36	-.008526	-.018088	-.002291	-.001618	-.009397	.005238
37-47	-.001051	-.009611	-.001057	-.004477	-.000320	.002259
48-60	-.001491	-.004830	-.000499	.01165	-.002533	.001264

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
1	.140471	-.052175	-.091244	-.195347	.408495	.281355
2	.241274	-.090808	-.125623	-.007722	.336957	.380622
3	.206202	-.259503	-.174156	-.094539	.021229	.314268
4	.006943	-.391232	-.149167	.187882	-.279442	.052653
5	.015638	-.295616	-.078532	.561100	-.219890	.035231
6	.021083	-.195325	-.053191	.140175	-.093585	.136202
7-8	-.073443	-.181837	-.044128	-.273956	-.089855	.056803
9-11	-.011197	-.147522	-.015108	.216930	.097873	-.009898
12-15	.053371	-.078654	-.010527	.215317	.025361	.007830
16-20	.023788	-.036372	-.005452	.063443	.027641	.041614
21-27	.004630	-.018131	-.004160	.050847	-.006855	.026846
28-36	.004152	-.017680	-.001916	.081375	.002428	.011670
37-47	.000373	-.003171	-.000792	.035665	-.000258	.001788
48-60	-.000147	-.001579	-.000212	.011056	.002101	.000645

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.028724	.042561	.026217	.065573
1	.265620	.334015	.384509	.677634
2	.340610	.365917	.612756	.904637
3	.355086	.358925	.761680	.943911
4	.242464	.226539	.615953	.600549
5	.170047	.107120	.448662	.361178
6	.137405	.073156	.367655	.265819
7-8	.097936	.079856	.341529	.199646
9-11	.064095	.057402	.279572	.136001
12-15	.038122	.042557	.253154	.092826
16-20	.023373	.025175	.161108	.061404
21-27	.014844	.016787	.120840	.038608
28-36	.010135	.010666	.087389	.021996
37-47	.005830	.006341	.054275	.012479
48-60	.004063	.004703	.034568	.007334

RUN NO. 658 16M 05-09-62 1434-1550 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.32546 10E 01	0.10124 10E 01	0.44176 10E 00	0.10974 10E 01	0.47884 10E 00	0.14895 10E 00
0	.050189	-.442470	-.584446	.088981	-.104723	.474793
1	.040731	-.194382	-.378750	.045051	-.106497	.175071
2	.043029	-.086075	-.197917	-.004448	-.086947	.015450
3	.023052	.001547	-.110487	-.006290	-.061214	-.000131
4	.013705	-.015702	-.048838	-.038339	-.091112	-.022342
5	-.014299	-.012160	-.024970	.010068	-.047771	.003714
6	-.040408	.022335	.068606	.014489	.023543	-.000858
7	-.057563	.045195	.107516	-.019295	.026083	-.026360
8	-.039338	.100266	.139436	-.027739	.040795	-.083752
9	-.036566	.078203	.125839	-.046430	.049548	-.045306
10	-.017858	.054383	.149760	-.045435	.052537	-.028204
11	.003559	.115596	.204580	-.039027	.024978	-.064601
12	.010513	.094577	.177110	-.014115	.050480	-.062618
13	.016652	.112627	.150376	-.005740	.074876	-.058985
14	.021624	.052953	.118815	-.037666	.049414	-.007278
15	-.010422	.023755	.091087	.020817	.050168	.006577
16	-.033246	.006516	.058624	.039273	.030835	.006914
17	-.023666	.023908	.046843	.034068	.032766	-.034985
18	-.018855	.055388	.071034	.013620	.026053	-.105204
19	-.010846	.076768	.094725	.014364	.019600	-.104470
20	.003622	.000672	.039247	.046961	.018419	-.068721
21	.019901	-.083011	-.024712	.047212	-.000363	-.007154
22	.021504	-.062918	-.019806	.067757	.035926	-.013829
23	.057935	-.040176	-.021424	.031109	.016831	-.014601
24	.080150	-.024613	-.041166	-.035209	-.012967	-.021560
25	.092450	-.010822	-.096688	-.036144	-.032350	-.024143
26	.079270	-.035628	-.120736	-.027536	-.048247	-.019129
27	.059214	-.028747	-.109740	-.031173	-.057205	.024478
28	.007576	-.073567	-.122829	-.006746	-.007379	.071622
29	-.027215	-.074376	-.127896	.004412	.007366	.110755
30	-.022989	-.049543	-.123779	-.019203	-.021366	.092873

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
0	-.004908	-.003754	-.003125	-.010181	-.013364	.015864
1	.010024	-.312804	-.288609	-.051047	-.156407	.513192
2	.307717	-.532038	-.447603	.060107	-.180371	.596716
3	.438944	-.568873	-.445563	.190579	-.145503	.545669
4	.471113	-.356042	-.282252	.108611	-.067842	.516110
5	.547481	-.237989	-.169744	.006925	-.024799	.415988
6	.132396	-.178798	-.110874	.016807	-.002377	.251490
7	-.173421	-.200382	-.121527	.040961	.011035	.325508
8	-.154597	-.261441	-.119630	.101510	.030766	.459343
9-11	-.046042	-.197450	-.074340	.109386	.003296	.357854
12-14	.040567	-.181398	-.087961	.019633	-.017658	.309834
15-21	-.013393	-.085434	-.033728	.020966	.003939	.226504
22-30	.036024	-.122349	-.029473	.010740	.000754	.170989

RUN NO. 658 16M 05-09-62 1434-1550 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

K	U,V	U,M	U,T	V,M	V,T	W,T
	0.32546 10E 01	0.10124 10E 01	0.44176 10E 00	0.10974 10E 01	0.47884 10E 00	0.14895 10E 00
1	-.001118	-.059874	-.118521	-.010690	.038353	.074235
2	-.016168	.028532	-.078649	-.038343	.083223	.102642
3	-.039901	-.018094	-.080830	-.042778	.080314	.065198
4	-.067650	-.037654	-.101734	-.049042	.076967	.028212
5	-.064769	-.024395	-.065318	-.039225	.078192	.036625
6	-.094955	-.020346	-.054361	-.024628	.064875	.007200
7	-.079813	-.027171	-.056848	.022434	.060901	.019289
8	-.087962	-.028868	-.014234	.017493	-.050922	-.003631
9	-.085046	-.013747	-.012225	.005510	.028334	.012755
10	-.089330	-.007627	.004031	.007227	.011584	.010238
11	-.063764	-.005772	.003557	.004990	.010667	-.003197
12	-.024291	-.005336	.028100	.023548	.005189	-.016804
13	-.017595	-.003002	.024149	.017170	-.048710	-.050418
14	.008333	-.028083	-.004035	.061656	-.048105	-.026198
15	.032502	-.002327	.005166	.065566	-.057342	-.018489
16	.080531	-.007743	-.005792	.082162	-.041286	-.002509
17	.129656	-.011657	-.007293	.096566	.005527	.039078
18	.143640	.007566	.001034	.099741	.015943	.038858
19	.114013	-.015683	.021065	.011718	.007134	.050667
20	.115499	.037767	.046326	-.029804	.021441	.007223
21	.111733	.020849	.026496	.014682	.051599	.012475
22	.078097	.041181	.040992	-.058343	.028975	.015836
23	.011788	.007037	.037638	-.111538	-.000776	-.005647
24	-.016451	-.028119	.036071	-.089704	-.029355	-.059695
25	-.006654	.011979	.044360	-.089233	-.011892	-.033051
26	-.021357	.002366	.007757	-.070072	-.004721	.015621
27	-.040262	.020281	-.009007	-.080093	-.032954	-.032169
28	-.049323	-.025405	-.028001	-.102831	-.045849	-.051537
29	-.074764	-.018979	-.035843	-.101312	-.043686	-.053374
30	-.060451	.014393	-.035782	-.020141	-.026985	-.008091

QUADRATURE SPECTRUM

K	U,V	U,M	U,T	V,M	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
1	-.058865	-.120710	-.066552	.160179	.089240	.129249
2	-.143797	-.108647	-.105945	-.047933	.114341	.131987
3	-.100266	-.064633	-.119517	-.253168	.156046	.240247
4	.027870	-.037521	-.114592	-.087798	.111578	.311353
5	.021927	-.035547	-.090297	-.033672	.022234	.163988
6	-.004988	.010167	-.040711	-.149925	.018677	.112060
7	.011089	.023672	-.029337	-.078268	.043597	.233133
8	.008943	-.002924	-.037985	.023619	.022797	.226406
9-11	.007716	-.009091	-.026042	.035902	.009348	.097791
12-14	-.000342	-.010522	-.026694	-.006158	.001534	.090832
15-21	.001892	-.074621	-.032183	.012704	-.004339	-.003156
22-30	.002927	-.053966	-.008622	.006608	-.004680	.004674

RUN NO. 658 16M 05-09-62 1434-1550 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.30025 10E 01	0.35278 10E 01	0.34135 10E 00	0.64995 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.602419	.683551	.231501	.574787
2	.403970	.396430	.036909	.289729
3	.248925	.233124	-.014216	.168241
4	.135846	.048518	-.042638	.079177
5	.066338	-.078036	-.009543	.030119
6	-.065467	-.117584	-.093101	-.079925
7	-.140769	-.180827	-.088692	-.147302
8	-.186507	-.251321	-.173200	-.215370
9	-.217491	-.297241	-.126461	-.192242
10	-.220724	-.339944	-.109212	-.213353
11	-.291818	-.371006	-.124930	-.245369
12	-.289899	-.395848	-.131405	-.174106
13	-.296538	-.335529	-.191319	-.132080
14	-.273694	-.221043	-.079146	-.123332
15	-.249367	-.085711	-.004130	-.099254
16	-.190251	.022011	.134494	-.064809
17	-.151502	.068275	.040344	-.059421
18	-.139269	.094012	.003074	-.118221
19	-.112510	.127513	-.044490	-.170474
20	-.035270	.115230	.081850	-.124010
21	.026973	.118866	.190915	-.080557
22	.058945	.125312	.149065	-.057397
23	.091090	.133336	.065175	-.011409
24	.101264	.117830	-.012168	.029658
25	.143813	.093316	-.037732	.095388
26	.182046	.064294	-.020524	.111195
27	.146324	.080263	-.027817	.127301
28	.136912	.048211	-.044069	.140211
29	.083422	-.004887	-.034308	.147291
30	.082275	.021353	-.053964	.152946

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.023353	.016895	.003563	.057933
1	.418957	.308346	.088998	.770262
2	.567505	.590430	.217335	.943292
3	.505486	.751561	.328350	.921798
4	.267051	.445790	.233301	.712300
5	.178815	.182290	.143228	.460982
6	.143066	.177020	.140973	.242556
7	.118356	.227342	.159204	.255444
8	.094173	.182982	.170995	.272034
9-11	.073920	.085219	.145773	.224960
12-14	.073617	.055402	.136385	.206312
15-21	.043516	.057974	.120097	.121634
22-30	.058395	.031000	.139355	.102563

RUN NO. 658 40M 05-09-62 1434-1550 EST

GROSS STATISTICS

CLEAR	WIND SPEED	10.74 M/SEC	WIND DIRECTION	327 DEG
UNSTABLE	SIGMA A	17.6 DEG	SOLAR RADIATION	0.98
LAND	SIGMA E	6.9 DEG	NET RADIATION	0.56

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.70961E 01	0.38744E 01	0.17917E 01	0.31514E 01
V	0.10205E 02	0.37243E 01	0.18122E 01	0.28653E 01
W	0.13059E 01	0.12673E 01	0.10773E 01	0.57377E 00
T	0.14942E-00	0.71703E-01	0.36601E-01	0.55676E-01
E	0.93037E 01	0.44338E 01	0.23406E 01	

GUSTINESS RATIOS

U	0.26014	0.19222	0.13072	0.17336
V	0.31197	0.18846	0.13146	0.16530
W	0.11160	0.10994	0.10136	0.07397

COVARIANCES

U,V	0.38596E 01	0.13388E-00	0.90230E-01	0.90576E-01
U,W	-0.12133E 01	-0.95512E 00	-0.54251E 00	-0.77261E 00
U,T	-0.37565E-00	-0.28379E-00	-0.12506E-00	-0.24459E-00
V,W	-0.46517E-00	-0.10345E-00	-0.36697E-01	-0.99937E-01
V,T	-0.12459E-00	0.64888E-02	0.15445E-01	0.58111E-03
W,T	0.15972E-00	0.13846E-00	0.87250E-01	0.95658E-01
WE	0.12714E-00	0.20568E-00	0.26987E-00	

NORMALIZED COVARIANCES

U,V	0.45354	0.03525	0.05008	0.03014
U,W	-0.39855	-0.43104	-0.39049	-0.57457
U,T	-0.36481	-0.53843	-0.48836	-0.58391
V,W	-0.12742	-0.04762	-0.02626	-0.07794
V,T	-0.10089	0.01256	0.05997	0.00145
W,T	0.36157	0.45931	0.43939	0.53520

RUN NO. 658 40M 05-09-62 1434-1550 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.18020 10E 01	0.13892 10E 01	0.25606 10E 00	0.13973 10E 01	0.25755 10E 00	0.19855 10E 00
0	.050389	-.390599	-.488499	-.026211	.059895	.439315
1	.042748	-.362005	-.465969	-.009520	.055543	.379021
2	.035529	-.311584	-.419531	-.000903	.047674	.289587
3	.032809	-.266323	-.365485	-.003494	.043842	.225657
4	.027343	-.218789	-.310212	-.010505	.044180	.177007
5	.021193	-.176154	-.257513	-.011486	.044155	.133574
6	.010972	-.141512	-.207054	-.006604	.041701	.099646
7	.001328	-.106516	-.160219	-.003164	.036136	.068157
8	-.008907	-.074300	-.117734	.000896	.030324	.036282
9	-.016992	-.040694	-.079409	.006280	.024560	.001786
10	-.023807	-.013247	-.044096	.010494	.016848	-.020293
11	-.026450	.011248	-.010680	.011973	.007038	-.036925
12	-.031582	.031891	.017857	.013517	.001319	-.046933
13	-.033175	.048361	.045719	.016624	-.000887	-.054143
14	-.028002	.061645	.072813	.016244	-.004576	-.061171
15	-.023272	.078795	.095768	.016501	-.010678	-.068385
16	-.020516	.100792	.118698	.010038	-.016641	-.080609
17	-.020321	.119151	.140512	.001951	-.01898	-.090994
18	-.019670	.125589	.155847	-.001565	-.019233	-.096128
19	-.022733	.133177	.166035	.000419	-.019744	-.101358
20	-.023319	.142665	.172496	.005564	-.019021	-.105424
21	-.020163	.148184	.177074	.005151	-.017691	-.107284
22	-.019589	.149578	.180217	.003056	-.013760	-.106475
23	-.021596	.146248	.179398	.000923	-.010174	-.099733
24	-.023912	.144621	.174281	-.004142	-.007207	-.092602
25	-.025706	.138097	.169983	-.011344	-.001929	-.091118
26	-.020982	.132643	.169613	-.013839	.010172	-.095304
27	-.013817	.127504	.168505	-.015958	.017127	-.094276
28	-.008096	.122151	.163888	-.011703	.017680	-.091646
29	.001214	.119209	.152641	-.005541	.011712	-.085187
30	.005844	.110251	.135994	-.002536	.004146	-.072968
31	.007369	.089819	.116645	.003602	.000726	-.058109
32	.012366	.066094	.094052	.009463	-.000966	-.053467
33	.016628	.045972	.074208	.012003	-.008027	-.054759
34	.016713	.037064	.059304	.020762	-.013414	-.053788
35	.021515	.030018	.048355	.020029	-.019166	-.045731
36	.033711	.012667	.038207	.011168	-.024466	-.034554
37	.045266	-.007702	.026593	.005367	-.029907	-.018542
38	.048667	-.019786	.012395	.002746	-.033480	-.001532
39	.045583	-.022665	-.000802	-.004919	-.037348	.011509
40	.045890	-.022241	-.014302	-.007670	-.038610	.018369
41	.043260	-.024260	-.026171	-.005605	-.039877	.023832
42	.033471	-.023355	-.036058	-.002140	-.044233	.020770
43	.026251	-.022635	-.045264	.005708	-.047564	.019128
44	.026346	-.028643	-.049154	.009669	-.055238	.020437
45	.023460	-.034129	-.046024	.008125	-.063157	.014744
46	.018503	-.034651	-.037416	.002461	-.068938	.010799
47	.018792	-.039359	-.025691	-.001227	-.068687	.009859
48	.014845	-.040659	-.016186	-.007104	-.065631	.011137
49	.008911	-.038841	-.010366	-.012321	-.057552	.014660
50	.005567	-.032258	-.010614	-.015866	-.045579	.020039
51	.001288	-.025763	-.010846	-.022270	-.035403	.021998
52	-.003174	-.031609	-.012434	-.024061	-.024558	.021317
53	-.005190	-.037458	-.013815	-.028864	-.013116	.018652
54	-.003058	-.042080	-.013338	-.028526	-.006164	.018023
55	-.005938	-.048881	-.015486	-.025436	-.000338	.023118
56	-.014533	-.056851	-.024356	-.021738	.006521	.032943
57	-.018112	-.057646	-.038186	-.012377	.007996	.045924
58	-.016755	-.057116	-.045096	-.006430	.014731	.053163
59	-.011967	-.064456	-.049771	-.003207	.023207	.057293
60	-.009460	-.066702	-.051166	.004341	.032773	.057908

RUN NO. 658 40M 05-09-62 1434-1550 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.18020 10E 01	0.13892 10E 01	0.25606 10E 00	0.13973 10E 01	0.25755 10E 00	0.19855 10E 00
1	-.001581	-.023622	-.039759	-.012800	-.003223	.023535
2	-.004753	-.043120	-.071131	-.023763	-.002294	.030096
3	-.015321	-.054318	-.096409	-.029759	-.001708	.032209
4	-.031000	-.065001	-.115868	-.027445	-.007869	.032499
5	-.041406	-.070684	-.124056	-.037115	-.020121	.028077
6	-.041836	-.070598	-.124587	-.051923	-.031543	.020700
7	-.044374	-.066503	-.121272	-.062471	-.035227	.015641
8	-.045115	-.059615	-.110698	-.069088	-.032840	.008708
9	-.043681	-.043455	-.095914	-.073538	-.027490	.002671
10	-.038020	-.023956	-.078724	-.069220	-.018104	-.006578
11	-.036280	-.011439	-.065400	-.059828	-.012039	-.001565
12	-.036485	-.008483	-.055248	-.054350	-.006030	.012479
13	-.032750	-.004924	-.047124	-.048316	.000380	.025043
14	-.025666	.000146	-.041545	-.037016	.006822	.032377
15	-.020050	.006527	-.037317	-.036195	.012535	.027680
16	-.012165	.015865	-.029280	-.041974	.017063	.024951
17	-.002309	.022350	-.021048	-.042423	.019514	.020915
18	.008298	.023713	-.015752	-.040876	.020406	.016121
19	.013763	.025414	-.011508	-.032560	.021258	.009065
20	.017343	.025458	-.008448	-.016699	.023614	.007415
21	.019529	.015286	-.006705	-.009124	.018667	.006138
22	.019507	.005898	-.003648	.000132	.019995	.001461
23	.021585	.001745	.000290	.013790	.022906	-.000815
24	.028048	.002318	.003294	.035553	.025151	.000117
25	.035854	.006878	.003414	.052977	.031855	.005440
26	.046300	.010896	.000827	.056561	.039664	.010707
27	.052379	.014235	-.004910	.045306	.043300	.018058
28	.059841	.006889	-.007059	.044641	.046468	.019067
29	.062378	-.005957	-.009728	.048419	.049701	.014424
30	.063933	-.018121	-.011931	.047112	.050426	.004878
31	.059566	-.020773	-.010806	.039645	.045746	-.002004
32	.051214	-.015415	-.006984	.038552	.038414	-.004065
33	.045094	-.008847	-.003313	.037827	.027297	-.004146
34	.035013	-.005029	-.003670	.033098	.010639	-.006331
35	.023690	-.005677	-.005857	.024210	-.002518	-.000582
36	.015802	-.008257	-.009672	.025028	-.007698	.007540
37	.011024	-.010506	-.013593	.032688	-.011600	.011008
38	.005053	-.017870	-.015927	.031276	-.017260	.014949
39	-.004131	-.024759	-.016669	.020836	-.026902	.017197
40	-.011680	-.030181	-.012946	.009330	-.030872	.010300
41	-.017384	-.038250	-.013592	.001341	-.030446	.003657
42	-.023789	-.044458	-.012480	-.004000	-.033965	-.009801
43	-.028265	-.037908	-.006005	-.009540	-.031795	-.025073
44	-.038496	-.027758	-.001907	-.018270	-.028818	-.025007
45	-.048590	-.026805	-.005460	-.031779	-.031809	-.018472
46	-.050739	-.026345	-.009576	-.044287	-.034365	-.012239
47	-.045874	-.014550	-.008258	-.043127	-.028295	-.009862
48	-.040821	-.001668	-.003001	-.042528	-.024430	-.008015
49	-.037400	.008936	.005798	-.040160	-.024357	-.005956
50	-.035237	.020178	.016454	-.035990	-.022938	-.005952
51	-.034862	.036902	.027880	-.026421	-.022416	-.002413
52	-.026983	.055068	.036995	-.023332	-.024244	.002836
53	-.017031	.062804	.041211	-.014817	-.026232	.000889
54	-.008886	.063169	.042717	-.012076	-.027109	-.007609
55	-.005550	.064696	.038784	-.011902	-.025586	-.012688
56	-.004748	.062289	.037442	-.015844	-.022799	-.010389
57	-.002075	.059061	.040075	-.017946	-.015824	-.013986
58	.004148	.053978	.038319	-.014492	-.004959	-.015066
59	.012251	.039821	.029161	-.003043	.004386	-.010166
60	.013892	.027489	.016128	.002868	.012706	.000300

RUN NO. 658 40M 05-09-62 1434-1550 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.17916 10E 01	0.18125 10E 01	0.10772 10E 01	0.36596 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.863011	.825319	.717034	.880541
2	.692882	.621055	.426093	.712810
3	.567813	.470061	.266487	.570401
4	.461664	.364307	.169262	.450171
5	.369908	.287149	-.093471	.346843
6	.290919	.222598	.036477	.261152
7	.215344	.168401	-.005190	.190922
8	.147816	.128873	-.031528	.125701
9	.090004	.092114	-.068360	.071418
10	-.034494	.056535	-.094450	.026050
11	-.024322	.017251	-.099065	-.015903
12	-.078927	-.018159	-.096092	-.056029
13	-.123525	-.058160	-.092962	-.091245
14	-.157403	-.093440	-.106131	-.119561
15	-.183322	-.120292	-.128823	-.148889
16	-.204350	-.137361	-.135602	-.184754
17	-.217983	-.149620	-.146400	-.217604
18	-.229775	-.172263	-.164130	-.241038
19	-.240344	-.208542	-.160508	-.261561
20	-.248711	-.244029	-.156993	-.277703
21	-.256132	-.269480	-.164599	-.284302
22	-.264416	-.282320	-.154203	-.283641
23	-.276398	-.283942	-.129950	-.276495
24	-.280538	-.277631	-.108244	-.269041
25	-.273639	-.259317	-.099916	-.265118
26	-.267002	-.227144	-.098112	-.265352
27	-.259012	-.195191	-.097558	-.258739
28	-.247400	-.166275	-.098562	-.244449
29	-.229499	-.140116	-.092266	-.228619
30	-.203363	-.122186	-.083624	-.203085
31	-.167266	-.094473	-.053976	-.166036
32	-.129931	-.074399	-.021404	-.136918
33	-.094851	-.057857	-.003959	-.115851
34	-.071501	-.053111	-.000676	-.091212
35	-.056484	-.051359	-.000357	-.067468
36	-.044388	-.052320	.006432	-.052315
37	-.028466	-.047870	.009002	-.039353
38	-.006119	-.042352	.021463	-.021556
39	.013866	-.046632	.024995	-.003237
40	.030575	-.044459	.015737	.008938
41	.039785	-.041441	.016101	.017765
42	.045596	-.030578	.015126	.025346
43	.057885	-.018683	.013782	.035161
44	.062372	-.008948	.023665	-.042851
45	.059817	-.002944	.024556	.045544
46	.053060	-.002986	.019133	.047705
47	.038692	.001964	.021636	.047554
48	.023697	.011022	.038210	.041832
49	.015682	.018135	.047071	.037795
50	.017505	.026080	.037404	.040671
51	.026829	.031356	.037926	.048472
52	.036131	.026659	.040432	.055909
53	.043075	.020462	.031100	.061528
54	.045331	.019664	.015036	.064535
55	.046468	.022242	.010868	.070316
56	.052918	.020051	.029166	.078861
57	.061066	.014144	.039600	.091696
58	.068903	.008758	.038853	.096480
59	.079088	.007078	.041797	.098151
60	.080738	.007710	.045639	.098683

RUN NO. 658 40M 05-09-62 1434-1550 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E 00	10E-01	10E-02	10E-02	10E-01
0	-.008306	-.007080	-.028664	.072199	.078356	.010273
1	-.079634	-.087940	-.253566	.093613	.583312	.110927
2	.093304	-.122522	-.306376	-.166029	.353551	.144321
3	.290176	-.122600	-.288945	-.265854	.240531	.145919
4	.187168	-.064777	-.149786	-.586551	.318067	.093302
5	.082709	-.031408	-.073819	-.727646	.118133	.063862
6	.115210	-.026510	-.057373	-.239729	-.066119	.053435
7-8	.056822	-.017961	-.034727	.140443	-.029853	.036106
9-11	-.016169	-.010414	-.021422	.169673	-.000980	.021769
12-15	.002030	-.004795	-.007299	-.099942	.011852	.012977
16-20	.003740	-.003361	-.003809	-.072134	.017539	.010916
21-27	.009343	-.001346	-.001719	-.132221	.014579	.005312
28-36	.005368	-.000893	-.000771	-.107793	.000416	.003843
37-47	.003471	-.000705	-.000503	-.042255	.000704	.001616
48-60	.001172	-.000000	-.000231	-.048656	-.000074	.000667

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
1	.125459	-.095485	-.735873	-.088165	.284026	.199840
2	-.116780	-.057426	-.667822	-.262925	.080543	.156272
3	-.407221	-.157718	-.749880	-.402475	-.305563	.097816
4	-.256240	-.261603	-.741430	-.198707	-.296977	.068986
5	-.020027	-.217016	-.558436	-.006263	-.053724	.045422
6	-.034933	-.183188	-.400553	.005593	-.071526	.025762
7-8	-.011232	-.084331	-.241105	-.029960	-.046248	.064257
9-11	.012056	-.025828	-.094026	.035989	.073496	.118468
12-15	.025429	.009554	.001964	-.008156	.036926	.005032
16-20	.013406	-.011806	-.012627	-.012769	-.002414	.016779
21-27	.006316	-.000955	-.000018	-.005943	-.015883	.004338
28-36	-.006298	-.004467	-.005280	.003910	-.004988	.010720
37-47	.000091	.002118	-.001962	.000113	-.000315	.004556
48-60	-.001303	.001262	-.000016	-.002326	.000370	.000724

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E 00	10E-02
0	.030847	.033519	.004631	.058389
1	.271687	.266368	.063379	.554501
2	.334828	.299140	.098041	.687481
3	.330825	.285970	.119799	.666090
4	.191801	.171550	.093690	.384037
5	.111015	.084708	.067930	.221589
6	.094755	.066494	.059459	.187216
7-8	.060931	.081586	.052571	.147791
9-11	.036600	.046843	.040771	.097419
12-15	.026777	.037771	.025199	.050131
16-20	.014990	.020385	.020769	.030644
21-27	.011348	.014697	.013488	.018509
28-36	.006818	.008313	.010178	.011164
37-47	.004559	.005673	.006113	.006768
48-60	.002466	.003869	.003733	.004121

RUN NO. 65B 40M 05-09-62 1434-1550 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.30069 10E 01	0.13453 10E 01	0.41912 10E 00	0.12819 10E 01	0.39937 10E 00	0.17868 10E 00
0	.030123	-.574297	-.583565	-.077960	.001455	.535348
1	.019461	-.341453	-.403705	-.021737	-.018452	.289336
2	.021853	-.159965	-.225372	-.041113	-.047562	.140726
3	.032276	-.069788	-.107877	-.036749	-.048554	.056516
4	.072795	-.044272	-.031296	-.030864	-.087646	-.001358
5	.042078	-.000932	.051167	-.052865	-.085871	-.034748
6	.030960	.003355	.101522	-.013522	-.032214	-.044687
7	.013723	.148548	.189949	-.006302	-.004389	-.163196
8	-.004124	.156045	.213176	.002036	-.009241	-.135994
9	-.008070	.129569	.218057	.050751	-.000463	-.131859
10	-.006950	.115112	.184932	.044942	.011311	-.115267
11	.009664	.129762	.190042	.030034	.027244	-.105647
12	-.019153	.116193	.172509	.082339	.070110	-.084259
13	-.043318	.123076	.137195	.041305	.083585	-.074463
14	-.033574	.083276	.087009	.024225	.072571	-.036715
15	-.055820	.045029	.016551	.001077	.077890	-.004769
16	-.071875	.029956	-.018571	-.005374	.084585	-.010340
17	-.076316	.074596	.004718	-.015022	.095166	-.033743
18	-.080533	.033024	-.001103	.029262	.108421	-.019488
19	-.075987	.032082	-.012826	.065814	.102630	-.017949
20	-.052027	-.022487	-.057755	.047602	.059846	.000410
21	-.007999	-.070788	-.100132	.015891	.015245	.031633
22	.013668	-.059958	-.112453	.004346	-.009860	.027754
23	.059476	.020730	-.057943	-.031146	-.047139	-.018697
24	.085665	.011207	-.029295	-.053022	-.090750	.000185
25	.102801	-.000038	-.031625	-.028100	-.089875	.000025
26	.130878	-.053672	-.087850	-.040350	-.120895	.055575
27	.129633	-.038622	-.078335	-.061798	-.144891	.026739
28	.084435	-.049709	-.081050	-.017643	-.109903	.048380
29	.039320	-.041133	-.063977	-.033513	-.091526	.056790
30	.022477	-.060801	-.067013	-.038738	-.078951	.074944

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E 00	10E-01	10E-01	10E-01	10E-01
0	.050545	-.004554	.006244	-.009182	.001985	.000891
1	.668608	-.075093	-.159207	-.210929	-.114930	.065436
2	.708447	-.110350	-.380286	-.277584	-.140081	.112932
3	.065557	-.122191	-.518612	-.203455	-.023722	.143862
4	-.259123	-.084165	-.372616	-.058591	.057899	.119869
5	.033339	-.053551	-.204312	.066040	.025734	.079055
6	-.163596	-.037172	-.121685	.136204	.037774	.048303
7	-.247406	-.026008	-.096213	.000684	.035145	.036308
8	-.153599	-.028295	-.097916	-.063091	.025545	.037878
9-11	.008301	-.031721	-.070614	-.015476	.018736	.035624
12-14	.070342	-.028293	-.058448	-.016456	-.014279	.031189
15-21	.042511	-.013389	-.030909	-.007502	.011518	.018326
22-30	.003230	-.008998	-.020487	-.074908	-.002662	.017031

RUN NO. 65B 40M 05-09-62 1434-1550 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.30069 10E 01	0.13453 10E 01	0.41912 10E 00	0.12819 10E 01	0.39937 10E 00	0.17861 10E 00
1	-.005039	-.052018	-.089853	-.040968	.035106	.031214
2	.014801	-.009964	-.086590	.002783	.083704	.059989
3	.031903	-.037501	-.110684	.040624	.126869	.067864
4	-.008800	-.033991	-.110720	.032656	.116130	.067971
5	-.028568	.007651	-.077240	.017693	.105127	.042189
6	-.022962	-.003094	-.055937	.026300	.116674	.022618
7	-.060839	-.041841	-.066767	.028750	.092306	.036035
8	-.062371	-.009471	-.032148	.043330	.064876	.015893
9	-.069421	.001318	-.020677	.021857	.031110	.019078
10	-.114298	.046951	-.007590	-.050469	-.038449	.031484
11	-.108041	.029816	.044921	-.038731	-.100410	-.001041
12	-.096534	.048961	.028868	-.016715	-.114478	-.002944
13	-.096639	.038493	-.005577	-.038339	-.125504	.007287
14	-.057219	.024103	-.011634	-.006834	-.094975	-.026520
15	-.020840	.011916	-.027085	-.011622	-.083172	-.006604
16	.010074	.004192	-.037018	.002226	-.061165	.014275
17	.082361	-.014011	-.016571	.029407	-.001919	-.007491
18	.127299	-.017206	.004019	.046387	.032703	-.037215
19	.122744	-.058012	.008357	-.010013	.042177	-.049944
20	.122201	-.012157	.038373	-.003116	.059462	-.036956
21	.137064	.005188	.044018	.028011	.074998	-.031142
22	.140265	.015041	.047772	.000828	.098184	-.000440
23	.111069	.000958	.058281	-.004392	.085588	-.007115
24	.111755	-.036884	.064690	.012506	.077934	-.046335
25	.087211	-.023359	.053269	-.007727	.060814	-.052432
26	.016573	.035969	.022318	-.026930	.010307	.034370
27	-.045373	-.006149	-.018773	-.032115	-.054522	.032700
28	-.084977	-.014673	-.025777	-.056686	-.082223	.044070
29	-.096456	-.013254	-.045780	-.035193	-.068433	.041342
30	-.097309	-.008904	-.056417	.018103	-.057856	.060216

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
1	-.079490	.052192	-.108042	.040792	.019982	.199571
2	-.110920	-.001849	-.122487	.058240	.080233	.341557
3	.003424	-.149188	-.113239	.138785	.224865	.327239
4	.088320	-.208193	-.116741	.161565	.193966	.212647
5	.023346	-.069921	-.099340	.019215	.028180	.194595
6	-.007313	.039337	-.037066	-.103688	-.026837	.142755
7	.005706	-.012976	-.021716	-.089992	-.008029	.103275
8	.013722	-.074618	-.035116	-.012730	.019744	.116245
9-11	.003351	-.080095	-.019483	-.005569	.011822	.009131
12-14	-.008779	.021958	-.006467	-.123819	-.011852	-.017044
15-21	-.009046	-.059267	-.016845	-.044217	-.007935	.014955
22-30	.004398	-.045835	-.008577	-.002729	.002970	-.021078

RUN NO. 658 40M 05-09-62 1434-1550 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	X
	0.31556 10E 01	0.28651 10E 01	0.57354 10E 00	0.55668 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.674521	.696038	.232232	.671498
2	.433945	.404241	.057742	.391477
3	.266714	.237681	.011752	.231626
4	.161962	.066403	-.047639	.096893
5	.024060	-.042238	-.020007	-.006272
6	-.059090	-.141433	-.029260	-.095369
7	-.202057	-.223881	-.213630	-.246339
8	-.261752	-.278566	-.098221	-.295891
9	-.290913	-.320051	-.102937	-.324962
10	-.273392	-.331019	-.084188	-.299400
11	-.304938	-.383435	-.093869	-.261065
12	-.313915	-.387549	-.054683	-.200296
13	-.285969	-.332874	-.103044	-.138349
14	-.245443	-.199182	-.136869	-.073778
15	-.170239	-.022761	-.082288	-.018834
16	-.113693	.080028	.073462	-.012731
17	-.117158	.107249	-.029285	-.031787
18	-.096208	.126434	-.012885	-.024635
19	-.059630	.134208	-.026009	-.022259
20	.037044	.093805	.001042	-.009709
21	.083071	.073893	.129300	.015208
22	.085164	.080552	.065688	.045970
23	.052577	.091002	-.069490	.011907
24	.039740	.107975	.027485	-.009892
25	.065079	.104015	-.039212	.018596
26	.104570	.036638	.035206	.063789
27	.106880	-.020634	.022542	.048873
28	.085365	-.027570	.053883	.036011
29	.079883	-.023971	.099139	.006616
30	.076007	.032969	.000466	.009796

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.027094	.016691	.010813	.006901
1	.423195	.251823	.232480	.063373
2	.600046	.472173	.385986	.085558
3	.610732	.630606	.485217	.103439
4	.360221	.401018	.386419	.080517
5	.200841	.147710	.305545	.044229
6	.139310	.120763	.269553	.020172
7	.106157	.176474	.244537	.015611
8	.096240	.137734	.202518	.019501
9-11	.080681	.065323	.240982	.017832
12-14	.069565	.057204	.238760	.012692
15-21	.043644	.040569	.192832	.008002
22-30	.036765	.024864	.237215	.005709

RUN NO. 658 16M 05-09-62 1434-1550 EST
 RUN NO. 658 40M 05-09-62 1434-1550 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	
	10E 00	10E 00	10E 00	10E 00
0	.777360	.750802	.800992	.786748
1	.700689	.737498	.751369	.786288
2	.643253	.704424	.664783	.763898
3	.610663	.697331	.608625	.729451
4	.570677	.664332	.596148	.666733
5	.434759	.524234	.538186	.595783
6	.283100	.433422	.461026	.536520
7-8	.228368	.485851	.493791	.492528
9-11	.134008	.289095	.440314	.202783
12-15	.051960	.242390	.271085	.239402
16-20	.086341	.146857	.250896	.134628
21-27	.165632	.168302	.188878	.110936
28-36	.071368	.073147	.125205	.171448
37-47	.101013	.079780	.153532	.109785
48-60	.112244	.086861	.090204	.134586

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
C	.945631	.952403	.417420	.898999
1	.959474	.946632	.680786	.929310
2	.954184	.945563	.724421	.905507
3	.935416	.942412	.752516	.859378
4	.897933	.933955	.764570	.857419
5	.864258	.862997	.796809	.884762
6	.727296	.770495	.770124	.766963
7	.573525	.782470	.770802	.668996
8	.664791	.775475	.796636	.739401
9-11	.670855	.605744	.747195	.776358
12-14	.666616	.739646	.652749	.735973
15-21	.582382	.642751	.612827	.599326
22-30	.383860	.315302	.530230	.439309

RUN NO. 66A 16M 05-09-62 1650-1806 EST

GROSS STATISTICS

CLEAR WIND SPEED 7.43 M/SEC WIND DIRECTION 324 DEG
 TRANSITIONAL SIGMA A 14.8 DEG SOLAR RADIATION 0.29
 LAND SIGMA E 6.0 DEG NET RADIATION 0.04

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.43039E 01	0.24950E 01	0.14017E 01	0.18818E 01
V	0.37591E 01	0.21227E 01	0.13213E 01	0.14630E 01
W	0.55465E 00	0.54509E 00	0.50990E 00	0.19197E-00
T	0.12214E-00	0.72270E-02	0.30761E-02	0.58179E-02
E	0.43088E 01	0.25815E 01	0.16165E 01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
GUSTINESS RATIOS				
U	0.27922	0.21259	0.15935	0.18463
V	0.26095	0.19609	0.15471	0.16279
W	0.10024	0.09937	0.09611	0.05897

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
COVARIANCES				
U,V	0.80064E 00	0.88197E-01	0.27906E-01	0.74981E-01
U,W	-0.47702E-00	-0.44728E-00	-0.32536E-00	-0.30581E-00
U,T	0.99489E-01	-0.61182E-01	-0.25434E-01	-0.52721E-01
V,W	0.35002E-01	-0.82542E-02	0.12462E-01	-0.73630E-02
V,T	0.23414E-00	-0.99358E-02	-0.87400E-02	-0.44617E-02
W,T	0.14978E-01	0.10265E-01	0.57043E-02	0.79328E-02
WE	-0.29635E-00	-0.43765E-01	0.21678E-01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
NORMALIZED COVARIANCES				
U,V	0.19905	0.03832	0.02050	0.04519
U,W	-0.30874	-0.38354	-0.38485	-0.50880
U,T	0.13722	-0.45563	-0.38734	-0.50388
V,W	0.02424	-0.00767	0.01518	-0.01389
V,T	0.34555	-0.08022	-0.13709	-0.04836
W,T	0.05754	0.16354	0.14403	0.23737

RUN NO. 66A 16M 05-09-62 1650-1806 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13613 10E 01	0.84564 10E 00	0.65674 10E-01	0.82115 10E 00	0.63772 10E-01	0.39614 10E-01
0	.020511	-.384547	-.387077	.015163	-.136874	.143821
1	.017293	-.335431	-.360914	.003331	-.115585	.134703
2	.008115	-.266120	-.320144	-.011057	-.084972	.117374
3	.001948	-.208645	-.278441	-.006016	-.061221	.089707
4	-.002975	-.156992	-.233669	.006778	-.048588	.057545
5	-.000373	-.111677	-.196076	-.002451	-.037113	.033188
6	.010875	-.075328	-.162670	-.022070	-.030905	.025785
7	.014498	-.049684	-.129907	-.033395	-.026460	.021134
8	.013380	-.033036	-.101963	-.030520	-.019606	.010142
9	.013911	-.019067	-.074373	-.019450	-.018787	-.004151
10	.013914	.004886	-.049307	-.011912	-.011802	-.018709
11	.011829	.027772	-.027644	-.009658	.001105	-.028875
12	.008367	.033460	-.004163	-.007328	.008678	-.029908
13	-.002341	.035094	.017516	.001406	.014040	-.027512
14	-.009457	.031634	.034705	.000611	.015785	-.024402
15	-.011538	.033866	.055561	.002291	.017837	-.022351
16	-.017480	.045375	.078121	.010365	.022974	-.022114
17	-.022385	.054896	.094766	.017111	.031222	-.020505
18	-.020926	.063122	.109996	.019570	.039232	-.017863
19	-.013747	.069216	.125056	.013139	.043423	-.022173
20	-.007105	.086071	.133155	.001690	.041576	-.026902
21	-.001890	.098067	.135757	.000548	.036135	-.028669
22	.009951	.103257	.135779	-.002960	.025656	-.026398
23	.022801	.106620	.134315	-.000019	.016276	-.023234
24	.031468	.113830	.132972	.004740	.013450	-.026051
25	.026333	.119711	.129532	.004301	.017406	-.027596
26	.014148	.115344	.122237	.001525	.018926	-.025137
27	.005972	.107621	.119376	.004396	.016187	-.032336
28	-.004927	.107852	.121059	.010461	.021639	-.035302
29	-.016290	.100253	.114215	.007576	.030397	-.029344
30	-.027388	.086323	.102699	.002552	.035165	-.028996
31	-.037124	.074887	.087955	.001799	.035002	-.028952
32	-.042668	.059605	.074086	.003307	.037025	-.021099
33	-.043106	.044742	.064105	-.001732	.038780	-.012487
34	-.040902	.031668	.052997	-.010207	.043256	-.000505
35	-.033758	.020207	.047164	-.002948	.049507	.011717
36	-.029418	.012798	.047261	.010817	.054480	.023525
37	-.017435	.008066	.043120	.014843	.053085	.031370
38	-.005477	-.000828	.033937	.014692	.042890	.029197
39	-.001320	-.008952	.022052	.018729	.031692	.025634
40	-.004643	-.017964	.016152	.018316	.019577	.024505
41	-.010034	-.018211	.014054	.008342	.005977	.022541
42	-.009475	-.005805	.010722	.006431	-.003735	.020482
43	-.007481	-.001349	.009865	.002447	-.007582	.015204
44	-.002598	-.003728	.006360	-.004915	-.016251	.013288
45	.002986	-.000109	.000084	.000353	-.025599	-.001857
46	.012187	-.005607	-.001625	.007532	-.032366	-.024332
47	.022846	-.012814	-.000428	.002370	-.035059	-.041629
48	.024991	-.011912	.006761	.001235	-.035986	-.049543
49	.030248	-.014568	.015687	.000750	-.031716	-.040242
50	.036080	-.023499	.024544	-.007677	-.026978	-.041447
51	.045017	-.025811	.029062	-.015430	-.024962	-.038021
52	.052364	-.026717	.027290	-.019257	-.022789	-.034781
53	.049125	-.023397	.029030	-.023864	-.021318	-.028857
54	.043518	-.012928	.028332	-.019567	-.022670	-.024783
55	.040171	-.005801	.032822	-.008871	-.025122	-.032441
56	.031838	.002241	.039759	-.002854	-.029559	-.043999
57	.018431	.002759	.043802	.002983	-.033558	-.041806
58	.005704	.008912	.043877	.000714	-.036176	-.034912
59	-.000968	.007938	.039904	.003386	-.043322	-.028429
60	-.001313	-.002930	.030798	.004375	-.046133	-.019564

RUN NO. 86A 16M 05-09-62 1650-1806 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13613 10E 01	0.84564 10E 00	0.65674 10E-01	0.82115 10E 00	0.63772 10E-01	0.39614 10E-01
1	-.002711	-.047703	-.032970	.001710	-.000881	-.000679
2	-.002710	-.066694	-.053755	.013044	-.000739	.000491
3	.005063	-.069355	-.062684	.036535	.002468	.005572
4	.009516	-.059435	-.068077	.046107	.004406	.013349
5	.011881	-.042199	-.071878	.044077	.006601	.018744
6	.012619	-.032039	-.074886	.042509	.008793	.023463
7	.014285	-.029792	-.077891	.039721	.009167	.016930
8	.016352	-.031708	-.080172	.030187	.007006	.009489
9	.010639	-.040248	-.084839	.019583	.007891	.014138
10	.003292	-.044050	-.082380	.005535	.013233	.016303
11	-.001696	-.035213	-.073541	-.015530	.016222	.010035
12	-.006200	-.028692	-.069098	-.026195	.007596	.009353
13	-.012198	-.023516	-.065208	-.027273	-.003400	.013146
14	-.013805	-.010895	-.061751	-.028778	-.009520	.025875
15	-.019332	-.010443	-.059507	-.032183	-.017478	.039251
16	-.023662	-.012135	-.058262	-.034106	-.024045	.043996
17	-.028389	-.004807	-.056446	-.031940	-.033232	.041012
18	-.032014	.000123	-.050938	-.019503	-.043036	.041589
19	-.037514	-.001403	-.045203	-.006777	-.049999	.043494
20	-.044484	.001425	-.030952	-.002657	-.055183	.042786
21	-.041754	.002874	-.017429	.001645	-.054198	.035136
22	-.036572	.009698	-.009841	.005509	-.049745	.031459
23	-.029159	.016929	-.004100	.004782	-.042440	.029638
24	-.021517	.020177	.002559	-.005322	-.035436	.025001
25	-.015398	.023235	.009162	-.017322	-.032167	.016521
26	-.009609	.023042	.015074	-.022504	-.031389	.010850
27	-.006098	.015576	.022885	-.034414	-.023254	-.002985
28	-.013819	.006817	.034895	-.051165	-.018678	-.017781
29	-.019893	.002137	.045715	-.053867	-.018886	-.024806
30	-.019698	-.000159	.049520	-.049782	-.023496	-.030933
31	-.020568	.006443	.047454	-.039596	-.029097	-.032630
32	-.021882	.022194	.046343	-.029468	-.034978	-.030071
33	-.021500	.032796	.044244	-.018182	-.037757	-.023283
34	-.016940	.034978	.037353	-.006289	-.032980	-.013639
35	-.005175	.031506	.032424	.001341	-.023911	-.009272
36	.006539	.023427	.028075	.007368	-.012838	-.010303
37	.011927	.018444	.027638	.010477	-.002486	-.009632
38	.018075	.013035	.029582	.013980	.005035	-.009442
39	.025643	-.001720	.024385	.023379	.007936	-.009469
40	.028156	-.012937	.017541	.031609	.011143	-.012282
41	.026031	-.012830	.010378	.035174	.019054	-.017993
42	.026750	-.012853	.007139	.038052	.030523	-.029888
43	.031728	-.010073	.008374	.040840	.040132	-.038021
44	.034220	-.007690	.007233	.043246	.049227	-.035726
45	.026411	-.005780	.004898	.040483	.053860	-.027481
46	.017955	-.014640	.007781	.029899	.048713	-.021299
47	.010317	-.021945	.014493	.016393	.044715	-.012185
48	.013467	-.026122	.012490	.013642	.047536	.000725
49	.023010	-.029351	.009601	.019957	.047836	.006922
50	.030149	-.029160	.011341	.021573	.042380	.001163
51	.029035	-.024472	.013613	.023748	.035805	.000124
52	.024615	-.018397	.012988	.015253	.029378	.005231
53	.019232	-.010895	.012140	.000322	.022205	.007531
54	.014322	-.000951	.010736	-.012410	.016910	-.000468
55	.008118	.001082	.009656	-.029189	.016329	-.007294
56	-.000369	-.003002	.005544	-.036664	.020570	.003419
57	-.004408	-.004113	.000616	-.027007	.027777	.013886
58	-.005824	.001810	-.000540	-.012944	.033551	.020532
59	-.007489	.006413	.003690	-.010645	.031446	.018631
60	-.011689	.011793	.011754	-.009547	.025764	.013510

RUN NO. 66A 16M 05-09-62 1650-1806 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.14019 10E 01	0.13219 10E 01	0.51009 10E 00	0.30765 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.851376	.825688	.662411	.856492
2	.675026	.616296	.346635	.676027
3	.540499	.464776	.190936	.534236
4	.431112	.350993	.091036	.417418
5	.345087	.262301	.021405	.318670
6	.275097	.193101	-.020243	.240968
7	.209334	.131665	-.045502	.189864
8	.151215	.080931	-.058600	.139549
9	.102149	.035735	-.067936	.084604
10	.054671	-.007012	-.077062	.033019
11	.023459	-.044890	-.092300	-.004433
12	-.002515	-.082822	-.095550	-.036871
13	-.033440	-.125522	-.085020	-.072503
14	-.062194	-.168772	-.069822	-.111862
15	-.086140	-.206300	-.081790	-.146337
16	-.116673	-.229920	-.102111	-.167921
17	-.147435	-.246893	-.103655	-.180711
18	-.179126	-.251725	-.090039	-.191650
19	-.207407	-.257716	-.087718	-.204509
20	-.231183	-.262217	-.085351	-.216410
21	-.256456	-.267973	-.093444	-.224584
22	-.274909	-.266763	-.118826	-.228861
23	-.280346	-.256188	-.133510	-.223113
24	-.287440	-.241129	-.159912	-.213432
25	-.288477	-.231828	-.168631	-.204243
26	-.282843	-.217160	-.149672	-.201171
27	-.272299	-.195416	-.117252	-.205430
28	-.270571	-.176315	-.098497	-.202361
29	-.257545	-.154400	-.098359	-.188287
30	-.231053	-.124477	-.071475	-.171410
31	-.207347	-.084377	-.036500	-.139903
32	-.186264	-.054508	.000890	-.116244
33	-.172760	-.031727	.034074	-.100151
34	-.163345	-.015742	.054780	-.089676
35	-.149603	-.003302	.072571	-.085897
36	-.132282	.012687	.071299	-.084101
37	-.106365	.021365	.051430	-.076466
38	-.080985	.035372	.050900	-.067580
39	-.059693	.049813	.050230	-.062872
40	-.049143	.056380	.035210	-.056174
41	-.044005	.062481	.031454	-.053744
42	-.035062	.067245	.023769	-.043617
43	-.020892	.072531	.025064	-.029663
44	-.005978	.075841	.010536	-.013653
45	.007835	.081264	.005310	.000219
46	.017534	.078619	.022335	.008429
47	.018050	.066453	.022028	.007022
48	.011155	.054739	.012257	.001576
49	.002736	.040781	.007996	-.001934
50	-.000094	.022504	.025473	-.008455
51	.002063	.008542	.030251	-.013988
52	.009159	-.004509	.019624	-.014532
53	.015624	-.005941	.009123	-.013277
54	.019563	-.010156	-.006406	-.007435
55	.017512	-.010987	-.016138	-.004212
56	.013645	-.013134	-.020515	-.007592
57	.013809	-.012195	-.031616	-.012591
58	.022701	-.012410	-.048769	-.016446
59	.031866	-.010094	-.052365	-.014683
60	.037759	-.011497	-.036627	-.011970

RUN NO. 66A 16M 05-09-62 1650-1806 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-02	10E-02
0	-.027623	-.042168	-.065540	-.052171	-.006942	.010716
1	.581994	-.457471	-.566134	-.406168	-.127840	.074831
2	.776848	-.576555	-.614703	-.357298	-.161385	.085191
3	.055090	-.543205	-.539829	-.187961	-.123143	.101359
4	.062923	-.292390	-.282028	-.060099	-.077458	.068760
5	.705398	-.186163	-.128365	.132954	-.078280	.046652
6	-.052569	-.218604	-.090566	.373532	-.029120	.060586
7-8	-.826420	-.177117	-.072524	.348187	-.016887	.029036
9-11	.453160	-.080882	-.049357	.049285	-.031693	.014015
12-15	.168100	-.055923	-.019773	-.029577	-.019580	.011445
16-20	.133981	-.025865	-.010347	-.071796	-.009100	.004941
21-27	.002918	-.017580	-.005588	.154586	-.008839	-.003219
28-36	-.006692	-.009590	-.003079	.069767	-.003045	.000089
37-47	.017231	-.006751	-.003177	.000339	-.000990	.000701
48-60	-.009398	-.003920	-.001104	.001107	-.001703	.000417

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-03
1	-.168011	-.027749	-.118926	-.722469	-.118572	.433955
2	-.109525	-.080217	-.198972	-.328626	-.058399	.568239
3	.052396	-.140329	-.216305	.656860	.048733	.325134
4	.115963	-.105838	-.108205	.764703	.062776	-.138056
5	.068656	-.069481	-.029791	.413492	.028003	-.218506
6	.052683	-.062880	-.032014	.959773	.016132	-.016392
7-8	-.019089	-.035001	-.033908	.827957	-.029215	.183783
9-11	.000434	-.038911	-.014035	-.145671	.002443	.012248
12-15	-.017326	-.045923	-.010549	-.065930	-.000316	-.066786
16-20	-.002043	-.019265	-.007331	-.029523	-.003922	-.016422
21-27	-.007049	-.004143	-.002364	-.108132	.001960	.002473
28-36	.001063	-.002477	-.001216	-.037941	-.001285	-.009038
37-47	.000873	-.003874	-.000520	.029375	.000423	.008371
48-60	.000739	-.000391	.000106	.007935	.000151	-.004408

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.024985	.013206	.017321	.062684
1	.244670	.139491	.222126	.495395
2	.272183	.201559	.369388	.533212
3	.277555	.229195	.477297	.492507
4	.117442	.145221	.347012	.314143
5	.072242	.078915	.244760	.197255
6	.068017	.061894	.300090	.149811
7-8	.059067	.051015	.286904	.116955
9-11	.033811	.039231	.189610	.082805
12-15	.020894	.024961	.142585	.051476
16-20	.014479	.015935	.106869	.030270
21-27	.008548	.010098	.078593	.015483
28-36	.005563	.006389	.055357	.013579
37-47	.003964	.004236	.037608	.007183
48-60	.002447	.002517	.022880	.004857

RUN NO. 66A 16M 05-09-62 1650-1806 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.16592 10E 01	0.60089 10E 00	0.10460 10E 00	0.53011 10E 00	0.92275 10E-01	0.33418 10E-01
0	.045192	-.508924	-.504050	-.013890	-.048352	.237378
1	.027200	-.213589	-.353279	-.082381	-.010361	.125102
2	.023073	-.071000	-.193730	-.035204	.029455	.077591
3	-.000362	.041646	-.091311	-.006149	.038553	.033283
4	-.006152	.036101	-.050562	.044201	.031619	.020058
5	.011538	.063678	-.008927	.030952	.000227	-.045513
6	-.016117	.025508	-.005420	.036088	.012878	-.016879
7	-.046300	.027781	-.022449	.046995	.019309	-.001163
8	-.050103	-.012571	-.049537	.103956	.013710	.020028
9	-.042653	.011325	-.015455	.042773	.015933	-.012605
10	-.045474	.003024	.022552	-.005852	.012756	.018019
11	-.028649	.090831	.094966	-.042947	.015285	-.034940
12	-.065172	.082272	.124553	.035506	.039575	-.049563
13	-.055872	.094427	.137939	-.002355	.031107	-.093274
14	-.034173	.054723	.133724	.026897	.023340	-.079385
15	.025059	.067110	.123139	.035178	.011465	-.078611
16	.035917	.046323	.053132	.024203	.012685	-.063319
17	.035938	.021732	-.011051	-.003157	.015201	-.024199
18	.002113	-.041868	-.024648	-.008500	.009451	.039828
19	.017812	-.045721	.035186	-.055651	.036565	.028920
20	.045888	-.026665	.043486	-.040328	-.012324	.017775
21	.097029	-.020455	.032055	-.085179	-.089876	.001204
22	.123598	-.022118	.019008	-.122284	-.091759	.045733
23	.094509	.042135	.049322	-.092701	-.108795	-.001496
24	.056822	.022771	.059895	-.044104	-.104715	.001857
25	.024605	-.004385	.038326	.018695	-.102952	.008044
26	.021112	-.054211	-.020281	.038035	-.115810	.024513
27	.020004	-.052113	-.028462	.008144	-.111087	.033152
28	.038137	-.017609	.022174	-.023640	-.110737	-.009427
29	.028995	.006991	.084291	.019757	-.097262	-.055728
30	.029893	.049015	.100922	.005176	-.088307	-.081201

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
0	-.044899	-.025284	-.020235	.014892	.045478	.015109
1	-.211134	-.201925	-.105055	.063389	.166911	.102282
2	.151950	-.256371	-.085692	-.034610	-.032045	.114238
3	.386930	-.271680	-.065934	-.106069	-.056654	.095312
4	.136869	-.172921	-.032933	-.071724	.027233	.033638
5	.002358	-.159905	-.022898	-.092563	-.037398	.042367
6	-.011622	-.256861	-.042212	-.083641	-.033087	.089024
7	.011284	-.271889	-.050835	.002655	-.040382	.076999
8	.066816	-.202626	-.031210	.022916	-.077126	.028988
9-11	.022017	-.127430	-.013703	-.020091	-.051244	.013486
12-14	.033911	-.115811	-.012091	.016487	-.049515	.011443
15-21	-.019701	-.066339	-.005990	.022006	-.005692	.020282
22-30	.031474	-.082514	-.004265	.028745	-.012359	.016680

RUN NO. 66A 16M 05-09-62 1650-1806 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.16592 10E 01	0.60089 10E 00	0.10460 10E 00	0.53011 10E 00	0.92275 10E-01	0.33418 10E-01
1	-.046434	-.038294	-.049229	-.033439	-.009525	.025397
2	-.096083	-.022726	-.027171	-.060498	-.026397	.032334
3	-.103653	-.015421	.003733	-.072020	-.009846	-.028083
4	-.095592	-.011463	-.006533	-.022727	.033200	-.033705
5	-.092680	-.022382	-.007992	-.029948	.055635	-.013869
6	-.101738	.029893	-.026509	-.018477	.042437	-.006717
7	-.094094	-.017861	-.052579	-.003614	.047228	-.011998
8	-.062460	.000738	-.055975	-.009643	.048553	-.018906
9	-.050415	-.032364	-.052917	-.022416	.013990	-.026941
10	-.038097	-.046673	-.019889	-.052949	.065818	-.046094
11	-.017073	-.031215	-.017190	-.088541	.050711	-.018269
12	.004313	.033671	.011115	-.052641	-.005006	.004488
13	-.000777	.037890	.029975	-.071833	-.041670	-.012905
14	.045658	.043165	.018712	-.020218	-.051269	-.006678
15	.091653	-.012239	.006897	-.014949	-.069882	.005464
16	.127767	-.008985	.019747	.023663	-.067771	.016998
17	.118959	-.004260	.047621	.054907	-.065214	-.036197
18	.161726	.000358	.066156	.108776	-.049036	-.062352
19	.163958	-.003427	.049217	.170037	-.005762	-.004926
20	.061810	.033146	.054483	.102793	-.005426	.005560
21	-.003378	-.010036	.058925	.010205	-.011401	-.064086
22	-.049740	-.003033	.056595	-.008987	-.022476	-.036225
23	-.076005	.024640	.041049	.005078	-.040259	.003145
24	-.082800	.065469	.040480	.010234	-.045954	.015273
25	-.056605	.024485	.034586	.038080	-.028544	.012844
26	-.049437	-.029839	.038008	.003380	.008897	.003739
27	-.006766	-.022050	.024792	.017098	.053985	.012577
28	.011631	-.019897	-.008015	.019300	.091000	.045300
29	.014475	-.038406	-.029472	.009836	.081585	.015944
30	.000676	-.051545	-.035700	-.012037	.050814	.021750

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-01	10E-02	10E-03
1	-.147543	-.183802	-.018588	-.080463	.034396	-.533908
2	-.689426	-.387755	-.189604	-.132669	.180439	-.211054
3	-.845045	-.369666	-.134041	-.052782	.174924	-.105095
4	-.199290	-.184264	.020814	.044260	-.028914	-.040513
5	-.072968	.063370	.050248	-.052295	-.144378	.157543
6	-.265907	.015110	.045780	-.121707	-.074455	.102126
7	-.045793	-.530355	.003624	-.046508	.012421	-.043572
8	.003630	-.728146	-.073682	-.020650	-.040490	.015147
9-11	-.073097	.058698	-.074001	-.006911	-.065661	.219895
12-14	-.014187	-.257632	-.045298	-.011911	.017851	.181497
15-21	.022051	-.167066	-.032280	.012512	.014499	-.003294
22-30	.009186	-.112895	-.000071	-.013508	.000959	-.058566

RUN NO. 66A 16M 05-09-62 1650-1806 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.18807 10E 01	0.14637 10E 01	0.19198 10E 00	0.58171 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.610337	.571404	.090934	.731640
2	.288007	.285868	-.015577	.490556
3	.059451	.195406	-.095553	.329958
4	-.022615	.131626	.007739	.194873
5	-.069188	.024834	-.104995	.097267
6	-.051263	-.065412	-.033280	.024123
7	-.043174	-.111174	-.085454	-.014278
8	-.050282	-.168135	.075879	-.032741
9	-.100581	-.270115	-.097227	-.070558
10	-.164628	-.270994	.043008	-.137864
11	-.245547	-.278826	-.103467	-.232515
12	-.265295	-.275347	.017766	-.279733
13	-.230011	-.293079	-.134819	-.301268
14	-.205479	-.208932	-.086126	-.284906
15	-.159007	-.120514	-.067673	-.290422
16	-.063868	-.130212	-.082308	-.222650
17	.020755	-.082940	-.026000	-.147797
18	.089400	-.019333	.012331	-.109162
19	.060792	.036063	.020530	-.094285
20	.041810	.070549	.052574	-.064653
21	.037594	.100194	.049192	-.027098
22	.034486	.132401	.065339	.010197
23	-.020298	.098732	.045679	.000519
24	.008031	.051340	-.042285	-.017855
25	.078952	.021938	.027964	-.011091
26	.141733	-.008267	-.020464	.023620
27	.143118	-.015429	.042002	.005509
28	.038419	-.002551	-.023062	-.035066
29	-.096034	.024893	.082297	-.075416
30	-.143439	.023507	-.026572	-.096304

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.026548	.011743	.005277	.020547
1	.196379	.159225	.057405	.129793
2	.249081	.234453	.084584	.120099
3	.263808	.248497	.092018	.091225
4	.153314	.133089	.063285	.042209
5	.094470	.067333	.078869	.030166
6	.137604	.061533	.109725	.036480
7	.164906	.057004	.097123	.033393
8	.123396	.059144	.081595	.021978
9-11	.072947	.047943	.077463	.010974
12-14	.046610	.039729	.080728	.010681
15-21	.026841	.034099	.080988	.006372
22-30	.026080	.022273	.099995	.005019

RUN NO. 66A 40M 05-09-62 1650-1806 EST

GROSS STATISTICS

CLEAR	WIND SPEED	7.99 M/SEC	WIND DIRECTION	329 DEG
TRANSITIONAL	SIGMA A	13.7 DEG	SOLAR RADIATION	0.29
LAND	SIGMA E	7.2 DEG	NET RADIATION	0.04

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.44309E 01	0.24965E 01	0.12911E 01	0.19538E 01
V	0.37116E 01	0.18800E 01	0.12288E 01	0.12781E 01
W	0.87947E 00	0.79612E 00	0.72412E 00	0.34220E-00
T	0.89768E-01	0.58713E-02	0.26909E-02	0.47983E-02
E	0.45110E 01	0.25864E 01	0.16220E 01	

GUSTINESS RATIOS				
U	0.26345	0.19775	0.14221	0.17494
V	0.24112	0.17160	0.13874	0.14149
W	0.11737	0.11167	0.10650	0.07321

COVARIANCES				
U,V	0.77257E 00	0.55676E-01	0.11287E-00	0.95936E-02
U,W	-0.79299E 00	-0.51205E 00	-0.31352E-00	-0.40091E-00
U,T	0.19243E-01	-0.69265E-01	-0.26128E-01	-0.60386E-01
V,W	-0.13095E-00	-0.81574E-01	-0.32798E-01	-0.51030E-01
V,T	0.22580E-00	0.23006E-01	0.86078E-02	0.18017E-01
W,T	0.11678E-01	0.17005E-01	0.10161E-01	0.13139E-01
WE	-0.18239E-00	0.19378E-01	0.68616E-01	

NORMALIZED COVARIANCES				
U,V	0.19050	0.02570	0.08961	0.00607
U,W	-0.40170	-0.36321	-0.32426	-0.49031
U,T	0.03051	-0.57211	-0.44328	-0.62367
V,W	-0.07248	-0.06668	-0.03477	-0.07716
V,T	0.39117	0.21898	0.14969	0.23007
W,T	0.04156	0.24872	0.23019	0.32426

RUN NO. 66A 40M 05-09-62 1650-1806 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12595 10E 01	0.96691 10E 00	0.58936 10E-01	0.94343 10E 00	0.57504 10E-01	0.44145 10E-01
0	.089391	-.324374	-.443099	-.034736	.149710	.230186
1	.082330	-.308535	-.416837	-.022535	.123281	.211387
2	.070271	-.265333	-.363854	-.007305	.086591	.172098
3	.059668	-.209277	-.305016	.002706	.057768	.129051
4	.051332	-.161906	-.252502	.002055	.037687	.090474
5	.046526	-.123169	-.206286	.006244	.024097	.062441
6	.038263	-.093258	-.163930	.010432	.012079	.036607
7	.026400	-.068233	-.131929	.017805	.001753	.014178
8	.014721	-.042738	-.101411	.022306	-.001711	.001617
9	.002296	-.019970	-.070017	.023488	.004143	-.004356
10	-.005350	-.001306	-.039070	.021514	.013162	-.009589
11	-.006094	.009048	-.012393	.021101	.016851	-.016647
12	-.007807	.023898	.011493	.016770	.006739	-.021790
13	-.014368	.042242	.034251	.004551	-.006098	-.027533
14	-.022987	.060770	.057219	-.007347	-.013432	-.040775
15	-.031615	.065412	.075157	-.007532	-.018502	-.048774
16	-.039556	.069197	.086888	-.012411	-.024426	-.049479
17	-.048546	.078437	.097910	-.015924	-.026999	-.047044
18	-.057226	.087485	.109185	-.010601	-.021823	-.044895
19	-.065839	.091770	.121683	-.005489	-.013728	-.045021
20	-.069221	.094603	.132776	-.000295	-.007771	-.049552
21	-.069033	.097783	.141262	.010014	-.006231	-.051467
22	-.066870	.098760	.152520	.012716	-.004433	-.054086
23	-.061006	.101827	.163659	.014813	-.002024	-.062062
24	-.052205	.099133	.165321	.012894	-.000830	-.071041
25	-.044417	.096023	.157946	.006819	-.007924	-.075507
26	-.037147	.089764	.146280	-.003612	-.018273	-.072528
27	-.031607	.077251	.134857	-.012718	-.025363	-.067555
28	-.022329	.061873	.121720	-.021378	-.028918	-.063884
29	-.012557	.046853	.104900	-.025594	-.035143	-.054848
30	-.007068	.032178	.083432	-.026544	-.035623	-.037559
31	-.003742	.018774	.066831	-.025409	-.032707	-.020782
32	.001533	.010898	.056422	-.021320	-.033191	-.003937
33	.010933	.005735	.049836	-.023128	-.041210	.011316
34	.019267	.001474	.046006	-.024836	-.049727	.018101
35	.023090	-.000657	.043932	-.025254	-.048758	.020468
36	.024522	.001650	.041671	-.016041	-.041695	.015016
37	.025120	.003150	.035049	-.006855	-.040526	.014028
38	.026110	-.002513	.024686	-.002833	-.038875	.010935
39	.024870	-.009972	.014357	-.000298	-.037058	.014612
40	.025696	-.017045	.005405	.003903	-.031939	.022578
41	.027304	-.022606	.001218	.008527	-.027708	.025429
42	.025094	-.021290	.003016	.005046	-.026527	.022315
43	.022068	-.017562	.004086	-.002158	-.023968	.022118
44	.022009	-.011518	.004191	-.007296	-.020159	.020078
45	.023377	-.002100	.001135	-.006684	-.011693	.016641
46	.022415	.003382	-.002592	.000256	.000337	.015308
47	.016603	.009570	-.008432	.006155	.009135	.015471
48	.013068	.015936	-.012519	.010877	.017877	.016963
49	.010562	.024062	-.014800	.021204	.028377	.015318
50	.011631	.025762	-.016100	.029139	.037421	.019874
51	.011845	.018921	-.020122	.036495	.041366	.023756
52	.003408	.016957	-.021061	.040203	.044769	.026603
53	-.007928	.021117	-.017361	.046828	.049663	.020244
54	-.018354	.029125	-.009309	.046230	.049002	.007169
55	-.024747	.038066	.001490	.039632	.040797	-.004386
56	-.025034	.050285	.012152	.027672	.034947	-.013289
57	-.020440	.054837	.020270	.018029	.030731	-.022916
58	-.014055	.053828	.024102	.013572	.023551	-.030231
59	-.003481	.044904	.024494	.007417	.021078	-.033141
60	.003699	.032802	.025252	-.002042	.021778	-.035778

RUN NO. 66A 40M 05-09-62 1650-1806 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12595 10E 01	0.96691 10E 00	0.58936 10E-01	0.94343 10E 00	0.57504 10E-01	0.44145 10E-01
1	.002774	-.013239	-.041268	-.011922	.025006	.022760
2	.003878	-.031841	-.070709	-.011300	.029902	.035286
3	.006766	-.044059	-.094568	-.004686	.029308	.045281
4	.006988	-.043948	-.114388	-.001051	.028945	.051839
5	.006930	-.043014	-.130948	.002397	.024715	.059287
6	.004469	-.044205	-.144343	-.005719	.014654	.070799
7	.003475	-.042676	-.157789	-.017450	.006532	.077706
8	.002455	-.042934	-.166964	-.035815	-.002107	.078879
9	.006042	-.041670	-.170500	-.049536	-.010843	.074087
10	.002715	-.039546	-.174665	-.054396	-.019521	.066082
11	-.002719	-.039153	-.173740	-.056468	-.025298	.060775
12	-.004640	-.043422	-.168523	-.055974	-.027390	.061700
13	-.004632	-.042804	-.160937	-.046043	-.025736	.064545
14	-.003606	-.033748	-.150981	-.031872	-.027090	.067028
15	-.005457	-.026658	-.139221	-.020543	-.027633	.065849
16	-.007348	-.019958	-.128176	-.016602	-.025861	.066397
17	-.007022	-.015554	-.116848	-.008823	-.025489	.061888
18	-.008945	-.014238	-.105693	-.001223	-.027109	.058682
19	-.009689	-.014045	-.093153	.004935	-.028767	.055283
20	-.006124	-.004053	-.075133	.012693	-.027415	.044302
21	-.001572	.008623	-.057700	.013581	-.028146	.036101
22	.001866	.011773	-.044540	.014788	-.024773	.025942
23	.003620	.008117	-.032052	.019307	-.023303	.009223
24	.009660	.002124	-.019507	.023627	-.022805	-.010570
25	.012627	-.005608	-.009547	.020020	-.029510	-.024249
26	.011113	-.013922	.000094	.009818	-.038425	-.024365
27	.003531	-.017296	.011874	-.006180	-.047145	-.023015
28	-.010107	-.007774	.026899	-.024253	-.057729	-.019629
29	-.022440	.009187	.043161	-.033566	-.064071	-.016464
30	-.022790	.023696	.062468	-.033531	-.059700	-.014268
31	-.016074	.031645	.075371	-.027274	-.049862	-.014209
32	-.016183	.035689	.079586	-.023644	-.034866	-.011120
33	-.022294	.036701	.082880	-.015074	-.023689	-.010445
34	-.020754	.038055	.085167	-.001944	-.014551	-.016182
35	-.018999	.038373	.084953	.018586	-.004370	-.020376
36	-.017027	.035155	.090072	.037118	.007119	-.025448
37	-.010806	.028029	.098948	.049338	.018967	.022947
38	-.004176	.018499	.107302	.052789	.030850	-.018261
39	.001586	.011647	.110428	.043162	.036619	-.018929
40	.004879	.004920	.105070	.035021	.041112	-.023101
41	.003694	.003884	.096902	.023805	.039160	-.025255
42	-.001510	.007269	.086263	.007007	.037715	-.028712
43	-.001275	.008474	.073772	-.004562	.035154	-.034020
44	-.003385	.001382	.057279	-.010847	.029940	-.040160
45	-.005538	-.014517	.041158	-.010375	.023827	-.044153
46	-.006152	-.031332	.025750	.000277	.023830	-.041713
47	-.006869	-.039148	.012993	.008220	.026093	-.038267
48	-.002669	-.034074	.004797	.008049	.028906	-.029627
49	.000316	-.022240	-.004729	.006054	.026411	-.019541
50	.003720	-.008213	-.010739	.010124	.025111	-.005723
51	.008841	.002573	-.017566	.012035	.024451	.007712
52	.011588	.009230	-.025000	.005982	.024166	.018286
53	.010962	.007180	-.034652	-.002503	.030460	.027548
54	.007988	.001731	-.041188	-.006244	.035802	.032248
55	.005338	.004798	-.043010	-.008107	.039234	.026124
56	.002834	.013130	-.045259	-.010149	.044676	.039548
57	-.002712	.014932	-.047790	-.017330	.044990	.043499
58	-.009862	.008100	-.045870	-.028771	.038328	.041979
59	-.012437	-.002719	-.046121	-.036842	.027372	.033890
60	-.008204	-.005505	-.046604	-.036352	.018293	.022439

RUN NO. 66A 40M 05-09-62 1650-1806 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12909 10E 01	0.12289 10E 01	0.72425 10E 00	0.26908 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.873924	.832507	.746743	.879696
2	.711437	.625417	.464109	.706460
3	.582780	.466023	.275699	.546579
4	.481694	.339034	.156116	.413391
5	.396034	.238223	.078183	.307627
6	.317270	.151763	.020441	.212382
7	.240921	.081131	-.026129	.144744
8	.169093	.034115	-.048574	.100820
9	.109492	.000330	-.053861	.061943
10	.057405	-.024581	-.047817	.020672
11	.014113	-.048001	-.048398	-.024206
12	-.023701	-.077380	-.061434	-.065166
13	-.071342	-.109049	-.068214	-.101908
14	-.123515	-.138255	-.078386	-.136424
15	-.168316	-.163428	-.100944	-.161519
16	-.196657	-.179612	-.135207	-.181064
17	-.214417	-.192476	-.167525	-.193734
18	-.228431	-.202725	-.186562	-.199996
19	-.248116	-.206477	-.191795	-.202304
20	-.270137	-.203682	-.175592	-.213093
21	-.287483	-.205645	-.171740	-.228117
22	-.300126	-.217109	-.179127	-.239330
23	-.308103	-.230019	-.188150	-.248030
24	-.309784	-.240377	-.194255	-.247440
25	-.302491	-.243188	-.177603	-.246245
26	-.292584	-.233205	-.143207	-.245439
27	-.272669	-.217195	-.122040	-.241682
28	-.246542	-.190190	-.101295	-.232047
29	-.219508	-.163955	-.077358	-.206093
30	-.190131	-.132761	-.054626	-.172162
31	-.161088	-.096589	-.022736	-.137793
32	-.143813	-.067949	-.001752	-.113953
33	-.134844	-.042720	.012781	-.104188
34	-.121137	-.020612	.033754	-.095041
35	-.111432	-.000024	.056935	-.080127
36	-.097876	.020479	.066330	-.063713
37	-.077131	.034558	.059321	-.050434
38	-.052639	.047182	.059512	-.037176
39	-.031345	.053410	.059753	-.016415
40	-.015749	.055348	.060117	.007773
41	-.008922	.054975	.061601	.022646
42	-.002833	.054101	.059364	.026955
43	.006765	.049617	.055143	.026708
44	.013809	.040115	.052376	.026228
45	.020043	.035560	.046387	.022567
46	.027471	.029172	.046259	.022628
47	.029174	.021355	.039473	.027977
48	.025934	.012828	-.014988	.034060
49	.028101	.008157	-.007640	.033141
50	.030003	-.003293	-.008896	.030085
51	.031648	-.002013	.004277	.030088
52	.027896	.000578	.017826	.039719
53	.018804	.001747	.010385	.046034
54	.010876	-.001796	-.006475	.045884
55	.004260	-.014291	-.016524	.041480
56	.001229	-.030698	-.029859	.036715
57	.000763	-.040892	-.045179	.028150
58	.001407	-.043533	-.052724	.024194
59	.000945	-.034550	-.056813	.025385
60	.001007	-.023425	-.048240	.029192

RUN NO. 66A 40M 05-09-62 1650-1806 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
0	-.009159	-.067242	-.065081	-.015182	.009868	.012890
1	.079133	-.499346	-.524511	.284258	.124261	.112122
2	.257914	-.590866	-.589750	.382662	.125402	.163739
3	.369527	-.644890	-.545638	-.115179	.074828	.188130
4	.195149	-.414318	-.300362	-.393042	.060336	.113236
5	.019699	-.204205	-.141673	-.141808	.077604	.065300
6	-.001190	-.162937	-.107971	-.272682	.049734	.074930
7-8	.042033	-.145030	-.099749	-.714748	.028663	.061617
9-11	.022362	-.073273	-.042288	.014090	.047220	.032875
12-15	-.001238	-.043065	-.032094	-.071066	.018285	.015783
16-20	.014158	-.017890	-.012457	-.105152	.008312	.005980
21-27	.003697	-.002860	-.004554	-.097184	.009791	.004221
28-36	.001959	-.000530	-.003021	-.032070	.002853	-.000005
37-47	.001753	.001087	-.000534	.001261	.002106	.001023
48-60	.000068	-.000396	-.000855	-.018106	.001332	.000145

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-01	10E-02	10E-02
1	-.531569	-.079212	-.268751	-.071387	-.113244	.101266
2	.019425	-.143483	-.414638	-.103824	-.064285	.133899
3	.228394	-.171936	-.378367	-.099366	.030538	.120654
4	-.015976	-.088120	-.144389	-.075864	.045081	.058412
5	.104714	-.057261	-.064746	-.063544	.005345	.016928
6	.486333	-.064141	-.043531	.026380	.031473	-.000943
7-8	.081459	-.000101	-.012303	.084145	.046173	.023103
9-11	.039068	-.033120	-.009241	.012855	.016638	.001333
12-15	-.010806	-.009358	-.007319	-.026755	.004564	-.000917
16-20	.041488	.000382	-.002346	-.010809	.005439	.005277
21-27	-.045854	.002367	-.002375	-.003081	.002807	.001314
28-36	.016665	.004251	-.001070	-.003239	.003454	.000305
37-47	.008436	.000902	-.000614	-.002025	.001134	.001099
48-60	.010622	-.000166	-.000351	.001672	.000474	-.000044

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.023573	.014154	.043200	.044053
1	.220583	.133456	.431968	.391452
2	.258765	.178698	.689984	.468746
3	.239291	.196188	.885514	.453742
4	.134008	.124009	.610234	.277302
5	.072149	.074715	.355670	.178911
6	.055823	.074182	.367204	.156342
7-8	.046307	.059615	.406625	.117583
9-11	.026706	.039249	.317174	.076209
12-15	.016949	.021724	.172140	.046987
16-20	.012053	.013127	.128376	.020384
21-27	.007164	.009440	.090635	.013527
28-36	.004220	.005498	.050164	.006811
37-47	.002704	.003705	.034542	.004669
48-60	.001759	.002201	.022057	.003265

RUN NO. 66A 40M 05-09-62 1650-1806 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

K	U,V	U,W	U,T	V,W	V,T	W,T
	0.15805 10E 01	0.81799 10E 00	0.96851 10E-01	0.143 10E 00	0.78314 10E-01	0.40532 10E-01
0	-.006070	-.490121	-.623496	-.077152	.230057	.324177
1	-.005841	-.272100	-.462838	-.086707	.173287	.168020
2	-.057733	-.095612	-.295204	-.072035	.152081	.104174
3	-.032326	-.042886	-.191843	-.061656	.108788	.070832
4	-.018447	.000840	-.111874	.002099	.049186	.041831
5	-.000798	.069616	-.029681	.038569	.027758	-.005634
6	.018033	.062429	-.000292	-.013340	-.013531	-.030456
7	.008201	.006986	.033971	.048992	-.048951	-.013464
8	.010467	.040723	.074392	.052587	-.079447	-.030016
9	.024988	.019884	.057389	.056698	-.116821	.002554
10	.040184	.037651	.103507	.046271	-.097124	-.014730
11	.053569	.064828	.174572	.019572	-.073804	-.028224
12	.036975	.066237	.189068	.041755	-.062913	-.011296
13	-.006930	.057495	.146529	.022065	-.030473	.001648
14	-.006553	.082853	.137806	.024941	-.026538	-.034264
15	-.011710	.090611	.104690	.059363	-.030537	-.057349
16	-.004365	.063769	.044050	.059789	-.026555	-.061489
17	.001831	.018766	-.011653	.046736	.017574	-.027419
18	-.004993	-.015306	-.038226	-.004905	-.014735	.011011
19	-.063451	-.028834	-.065266	.005074	.050488	-.021548
20	-.080205	-.006536	-.017549	.013513	.035061	-.030640
21	-.021177	-.056904	-.013605	-.057758	.008136	.012937
22	.045527	-.025915	-.023264	-.104840	-.035354	.013931
23	.073366	.008745	-.007257	-.122507	-.097548	.012560
24	.052600	.012826	.005703	-.098137	-.128378	-.017491
25	.089692	-.024075	.027094	-.091417	-.168949	.003287
26	.060697	-.042178	.037645	-.022985	-.147513	-.010393
27	.032094	-.001566	.075134	.015727	-.098184	-.043016
28	-.003376	.003222	.115786	.025807	-.036784	-.046403
29	.005133	.047450	.162394	-.002636	-.018716	-.062806
30	-.018837	.082743	.194961	-.003800	-.000118	-.113822

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
0	.003028	-.062216	-.023598	.004701	.042689	.046431
1	-.062785	-.391382	-.116653	-.050648	.353225	.209310
2	-.112406	-.442115	-.109503	-.170192	.365188	.162741
3	-.235813	-.453145	-.107618	-.182560	.441142	.140091
4	-.135738	-.306302	-.059136	-.083226	.313860	.107017
5	.075635	-.290590	-.028142	-.099577	.090080	.106046
6	.039023	.353786	-.035077	-.051161	.052528	.092673
7	.061382	-.298116	-.037530	.011122	-.004777	.054210
8	.036344	-.202556	-.024007	-.002497	-.001423	.032575
9-11	.092718	-.138329	-.011587	-.008386	.043171	.028620
12-14	.050932	-.107459	-.012740	.031494	-.002179	.036637
15-21	.038411	-.107633	-.006896	-.006705	.009249	.030883
22-30	-.038758	-.046432	-.003423	.014047	.031043	.028034

RUN NO. 66A 40M 05-09-62 1650-1806 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.15805 10E 01	0.81799 10E 00	0.96851 10E-01	0.66143 10E 00	0.78314 10E-01	0.40532 10E-01
1	-.011077	-.011838	-.091121	-.045926	-.007050	.095627
2	-.050181	.031595	-.096229	-.039786	-.034459	.112715
3	-.089570	.062564	-.043526	-.067010	-.054435	.064304
4	-.083225	.080663	-.013867	-.003850	-.000079	.035756
5	-.083099	.051587	-.040256	-.025211	-.012459	.029133
6	-.084579	.083747	-.047120	-.014341	.002445	.054986
7	-.057020	.035441	-.028332	-.005862	-.032263	.002424
8	-.054941	-.004641	-.015830	-.004591	-.028929	-.002250
9	-.041994	-.023833	.009498	-.006552	-.013592	-.026976
10	-.030972	-.022261	.017038	-.064085	.003039	-.051810
11	.008347	.014685	.032671	-.013748	.031812	-.036411
12	.061457	.048960	.048658	.003701	.017563	.003970
13	.053658	-.001469	.042695	.009989	-.000440	-.016165
14	.043181	-.064011	.035202	-.035364	-.029558	-.037142
15	.089696	-.061685	.043646	.027434	.006172	-.071249
16	.120810	-.068828	.078892	.064601	.013863	-.073376
17	.124281	-.075522	.100968	.085327	.037944	-.112952
18	.129803	-.091648	.103784	.092663	.026529	-.146339
19	.118151	-.094100	.059433	.098071	.023510	-.128726
20	.076532	-.047520	.047190	.067067	.015486	-.083178
21	.032502	.034951	.042803	-.008021	.029931	-.018542
22	.018056	.051226	.026528	.016008	.031982	.036150
23	-.007032	.044988	-.001186	-.008737	.021936	.044586
24	-.053530	.030473	-.016869	-.029313	.009803	.047942
25	-.069240	.034484	-.021378	-.036681	-.015070	.044787
26	-.083177	.019334	-.023365	-.014604	-.016040	.046402
27	-.120003	.026334	-.029588	-.026612	-.040644	.035450
28	-.091649	.016108	-.050407	-.006219	-.005269	.054699
29	-.059084	-.001426	-.067505	.020575	.008305	.034936
30	-.033059	.018409	-.073112	-.010803	-.007615	.067166

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-03	10E-02
1	.120805	-.016022	.168772	.012595	-.040724	-.086413
2	-.493133	.147099	-.136245	-.101962	-.673990	.054768
3	-.712884	.228452	-.269767	-.100104	-.716985	.120746
4	-.198039	.081432	-.132057	.013100	-.380810	.053000
5	-.027115	.052933	-.091693	-.031306	-.419885	.068099
6	-.079211	.106744	-.098940	-.097853	-.191359	.092509
7	-.001068	-.003442	-.047273	-.048524	-.004510	.025443
8	-.000270	-.045039	-.055675	-.032820	-.248871	.011506
9-11	.027135	-.037072	-.114364	-.019064	-.479731	.049480
12-14	.017847	-.022143	-.096583	-.031199	.276641	.028326
15-21	.042705	-.016550	-.006733	.010275	.227031	.003419
22-30	-.013427	-.018226	-.004279	-.028874	-.178545	-.003025

RUN NO. 66A 40M 05-09-62 1650-1806 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.19546 10E 01	0.12780 10E 01	0.34232 10E 00	0.47990 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.662801	.505615	.200838	.702057
2	.335916	.279806	-.019758	.498384
3	.157578	.125868	-.025857	.350255
4	.058232	.072882	-.034801	.262692
5	-.010040	-.042119	-.133498	.150240
6	-.039826	-.124679	-.092744	.105797
7	-.066665	-.145019	-.032434	.020453
8	-.126289	-.215941	-.114289	-.065850
9	-.131787	-.275320	-.033689	-.074708
10	-.210071	-.226183	.008175	-.127197
11	-.314537	-.133167	.004917	-.194488
12	-.341509	-.197075	-.000026	-.215388
13	-.308113	-.190579	-.023189	-.175310
14	-.271581	-.161057	-.136226	-.197826
15	-.205023	-.089387	-.133842	-.194449
16	-.101214	-.006319	-.059278	-.175186
17	.059942	.061669	-.055035	-.133781
18	.148641	.075509	-.013802	-.105110
19	.143359	.077801	.014193	-.060289
20	.083618	.111577	.013529	-.090827
21	.097074	.057586	.134761	-.097770
22	.103695	.113195	.070642	-.088648
23	.101418	.076246	.054604	-.117733
24	.084508	.060188	.011179	-.164744
25	.083784	-.039854	.007573	-.181748
26	.095434	-.033957	-.003381	-.211996
27	.077921	-.051421	-.037688	-.238344
28	-.002218	-.045284	.018172	-.219173
29	-.134223	-.028834	.017699	-.189759
30	-.216007	-.044111	-.033548	-.205556

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.033272	.012516	.013523	.022970
1	.231112	.101495	.119228	.121473
2	.313362	.154278	.170365	.093387
3	.340005	.201217	.193616	.070409
4	.164178	.137300	.164215	.038910
5	.075288	.077212	.220057	.021774
6	.129039	.067080	.244084	.021047
7	.153294	.055499	.164508	.017893
8	.101433	.039747	.118812	.014612
9-11	.064423	.044278	.150533	.011283
12-14	.051637	.028129	.124499	.009233
15-21	.027892	.028723	.151169	.005999
22-30	.017165	.030405	.129867	.005260

RUN NO. 66A 16M 05-09-62 1650-1806 EST
 RUN NO. 66A 40M 05-09-62 1650-1806 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.736046	.538613	.626276	.625123
1	.729652	.635837	.630846	.618677
2	.660269	.648595	.661113	.580634
3	.549342	.667739	.650452	.509261
4	.390058	.620044	.590292	.379324
5	.245446	.515172	.509993	.287020
6	.213185	.548094	.503409	.229018
7-8	.112449	.488830	.482961	.236745
9-11	.058516	.451695	.308640	.116269
12-15	.664737	.283393	.303442	.146064
16-20	.130298	.217468	.251042	.104402
21-27	.113123	.130875	.192670	.167309
28-36	.101092	.115558	.096218	.136236
37-47	.089520	.095705	.093091	.129204
48-60	.072170	.113687	.141377	.160666

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.984824	.990200	.573829	.992076
1	.954836	.937237	.668784	.918071
2	.921514	.886016	.702253	.794928
3	.897906	.857993	.718449	.689810
4	.791040	.851416	.706954	.676590
5	.551628	.817216	.671405	.670446
6	.742166	.693973	.668526	.682602
7	.865456	.544399	.665241	.671033
8	.812078	.567908	.642189	.604192
9-11	.697635	.609198	.636259	.685305
12-14	.628226	.624949	.627466	.555972
15-21	.402646	.545546	.546240	.472832
22-30	.240976	.177128	.609645	.338746

RUN NO. 668 16M 05-09-62 1818-1934 EST

GROSS STATISTICS

CLEAR	WIND SPEED	6.25 M/SEC	WIND DIRECTION	321 DEG
STABLE	SIGMA A	11.2 DEG	SOLAR RADIATION	0.02
LAND	SIGMA E	5.7 DEG	NET RADIATION	-0.18

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.21684E 01	0.16240E 01	0.97162E 00	0.12108E 01
V	0.15578E 01	0.92832E 00	0.76014E 00	0.51585E 00
W	0.39111E-00	0.37801E-00	0.34487E-00	0.15356E-00
T	0.27501E-00	0.18208E-01	0.13190E-01	0.11871E-01
E	0.20586E 01	0.14652E 01	0.10393E 01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
GUSTINESS RATIOS				
U	0.23561	0.20390	0.15771	0.17606
V	0.19970	0.14416	0.13950	0.11492
W	0.10006	0.09837	0.09423	0.06270

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
COVARIANCES				
U,V	-0.31631E-00	0.10209E-00	0.11103E-01	0.97888E-01
U,W	-0.32577E-00	-0.28334E-00	-0.20701E-00	-0.18885E-00
U,T	0.43603E-00	0.10486E-00	0.58627E-01	0.86924E-01
V,W	0.15154E-01	-0.99954E-02	0.55570E-02	-0.10993E-01
V,T	-0.28868E-00	0.12419E-01	0.26070E-02	0.10937E-01
W,T	-0.46463E-01	-0.35377E-01	-0.26642E-01	-0.21586E-01
WE	-0.17579E-00	-0.51873E-01	-0.40481E-01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
NORMALIZED COVARIANCES				
U,V	-0.17210	0.08314	0.01292	0.12386
U,W	-0.35375	-0.36162	-0.35658	-0.43797
U,T	0.56464	0.60981	0.51787	0.72506
V,W	0.01941	-0.01687	0.01082	-0.03906
V,T	-0.44106	0.09552	0.02604	0.13977
W,T	-0.14167	-0.42642	-0.39683	-0.50559

RUN NO. 668 16M 05-09-62 1818-1934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.85953 10E 00	0.58056 10E 00	0.11321 10E 00	0.51361 10E 00	0.10016 10E 00	0.67650 10E-01
0	.012650	-.356538	.517883	.010858	.025882	-.396609
1	.008286	-.306620	.483830	.009419	.025736	-.327946
2	.003273	-.227813	.416645	.010520	.027001	-.234500
3	.004033	-.166983	.354519	.002164	.028367	-.164235
4	.008224	-.121595	.298405	.002574	.023955	-.117529
5	.015835	-.090685	.246975	.004313	.017859	-.088096
6	.021216	-.065431	.197448	.005310	.014599	-.063754
7	.029361	-.047550	.147311	-.001585	.021769	-.040048
8	.031547	-.028536	.096048	-.014772	.024970	-.019146
9	.025014	-.009645	.048083	-.012734	.019175	-.000890
10	.015565	.014724	.004365	-.002193	.013162	.019297
11	.000544	.043037	-.033787	.003381	.010276	.038557
12	-.011334	.062035	-.069092	.009368	.004845	.053608
13	-.015607	.076409	-.102385	.004049	.000117	.065790
14	-.017504	.089152	-.129656	-.001521	-.004523	.075744
15	-.017138	.092405	-.152660	-.007906	-.007852	.079962
16	-.010084	.097948	-.171673	-.020958	-.006996	.083089
17	-.001826	.097367	-.186836	-.025418	-.004585	.085607
18	.001342	.088948	-.195700	-.016802	-.005358	.084120
19	-.001027	.081023	-.199650	-.009540	-.011754	.076224
20	-.008877	.082459	-.200759	.007303	-.014232	.076716
21	-.014677	.088327	-.200147	.020918	-.016508	.084555
22	-.015120	.095210	-.196774	.025945	-.020005	.082126
23	-.012904	.094080	-.191061	.022673	-.016589	.082880
24	-.018189	.086462	-.181824	.020806	-.009898	.079686
25	-.016064	.072352	-.166163	.013713	-.007059	.076927
26	-.008650	.062569	-.149118	.007284	-.007124	.071781
27	-.002286	.054113	-.127181	.003044	-.004186	.063826
28	.005387	.045845	-.103019	.006661	-.003780	.057304
29	.009057	.043738	-.080859	.002697	-.006157	.049547
30	.010657	.037019	-.061710	-.003534	-.007592	.037224
31	.009482	.020776	-.040323	-.008131	-.007179	.026787
32	.010352	.003502	-.019063	-.010715	-.006416	.019454
33	.008278	-.011685	-.000449	-.013298	-.007780	.013762
34	.010491	-.021539	.009848	-.017194	-.010078	.005330
35	.011302	-.031891	.016801	-.019715	-.005193	-.004241
36	.015895	-.033044	.022893	-.015024	-.000541	-.009362
37	.018353	-.027290	.031568	-.008416	-.000317	-.010589
38	.016929	-.021526	.043272	-.005098	.001885	-.014255
39	.012248	-.024281	.053746	.001331	-.001281	-.019398
40	.007384	-.034908	.067026	.000999	-.008603	-.026272
41	.003028	-.042955	.068041	.002835	-.010431	-.025463
42	.005033	-.036746	.060862	.007078	-.011664	-.016593
43	.010035	-.029976	.054001	.016457	-.008102	-.014354
44	.014863	-.021539	.050339	.020840	-.001663	-.014502
45	.012326	-.019904	.046840	.016323	.002988	-.008483
46	.011917	-.018193	.042822	.012144	.008195	-.006341
47	.009443	-.018933	.036893	.004886	.013625	-.003907
48	.006863	-.017145	.027923	.007033	.013251	.004941
49	.001526	-.013366	.018540	.015468	.006111	.014545
50	-.004584	-.016180	.012907	.010855	.004470	.008322
51	-.004159	-.018209	.007433	.004476	.004957	-.004715
52	.004813	-.014473	.004336	-.003234	.007951	-.013692
53	.014602	-.004155	-.002817	-.007698	.011201	-.014575
54	.021227	.003422	-.012607	-.011420	.013963	-.015105
55	.021042	.004758	-.025485	-.022936	.019391	-.008401
56	.017402	.008538	-.036470	-.028167	.029613	-.002213
57	.011249	.005058	-.041637	-.031124	.040082	-.000276
58	.002905	.010414	-.048487	-.023444	.041518	.005468
59	-.006224	.022316	-.052268	-.018491	.036156	.009139
60	-.016277	.033845	-.054678	-.014083	.025074	.007089

RUN NO. 668 16M 05-09-62 1818-1934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.85953 10E 00	0.58056 10E 00	0.11321 10E 00	0.51361 10E 00	0.10016 10E 00	0.67650 10E-01
1	-.001448	-.036392	.038555	-.010136	-.006722	-.058423
2	.005616	-.061607	.059980	-.010571	-.012559	-.079092
3	.009760	-.068076	.070259	-.009403	-.014998	-.080065
4	.014750	-.063522	.076405	-.011369	-.009620	-.076783
5	.022014	-.049112	.077198	-.015713	-.006569	-.071579
6	.031550	-.028256	.076704	-.016740	-.005199	-.074817
7	.035543	-.002885	.072228	-.015931	-.006406	-.079940
8	.037022	.014159	.062670	-.014290	-.004111	-.076005
9	.031970	.020280	.054093	-.023189	.001006	-.070691
10	.029710	.017305	.049254	-.035128	.012849	-.067769
11	.030229	.013057	.046587	-.039411	.025025	-.069062
12	.032670	.020792	.038960	-.033645	.027290	-.066121
13	.034373	.024912	.037564	-.022258	.022691	-.059421
14	.037532	.023491	.043159	-.020159	.020572	-.052717
15	.036470	.020723	.044280	-.025368	.025485	-.041192
16	.034708	.025465	.033589	-.030899	.029321	-.027340
17	.030402	.031917	.017953	-.032485	.028938	-.008155
18	.026437	.037935	.004535	-.025490	.026206	.007481
19	.019074	.035742	.001794	-.021847	.024373	.016344
20	.014565	.023402	.003408	-.025338	.022857	.017663
21	.016667	.011564	.002645	-.029989	.023694	.016057
22	.024330	.008660	-.000859	-.020100	.018439	.011886
23	.034727	.006315	-.003868	-.009064	.010645	.007576
24	.034151	.005218	-.007314	-.006619	.011269	.007525
25	.025278	.002251	-.013473	-.013745	.011406	.020094
26	.014851	-.005246	-.010850	-.010354	.000041	.032252
27	.008831	-.009908	-.004685	-.005279	-.012818	.039041
28	.006854	-.008604	.000730	.001272	-.019446	.038030
29	.003296	-.009794	.001440	.004169	-.019598	.041873
30	.002415	-.019474	.003389	.018497	-.024608	.051100
31	.001188	-.028241	.003785	.029310	-.033867	.051752
32	.005414	-.033124	.004371	.039423	-.039088	.045813
33	.006439	-.040344	.009606	.048431	-.038855	.043665
34	.006083	-.038167	.010543	.039954	-.036986	.046298
35	.004950	-.042946	.007435	.030941	-.035966	.042630
36	-.005877	-.036456	.003371	.025876	-.033229	.027633
37	-.016533	-.024493	-.000398	.024580	-.024684	.013778
38	-.019884	-.016555	-.005519	.027408	-.017663	.008214
39	-.016763	-.022220	-.002899	.029286	-.010647	.000376
40	-.010654	-.022778	-.000668	.029135	-.006444	-.010179
41	-.010594	-.019489	.002572	.025795	-.002456	-.015728
42	-.019422	-.015789	.004339	.021009	.000881	-.012320
43	-.031273	-.010619	.006912	.009791	-.013506	-.008727
44	-.038270	-.003543	.012379	.005618	-.006164	-.007519
45	-.036695	.003091	.014624	.001699	-.005317	-.003707
46	-.036951	.005955	.016043	-.004758	.000540	-.005227
47	-.037879	.010365	.016583	-.005158	.006118	-.012907
48	-.032813	.009354	.015712	.013006	-.000008	-.020434
49	-.022034	.006481	.013026	.033394	-.009226	-.023382
50	-.023128	.011330	.009203	.032992	-.008493	-.016469
51	-.028262	.015407	.006752	.013103	.004729	-.008998
52	-.037019	.014199	.006870	.006008	.022930	-.010437
53	-.044651	.011370	.004211	-.003558	.034510	-.009533
54	-.043152	.005427	.002063	-.006084	.035397	-.010071
55	-.040269	.013571	-.000911	-.015613	.041147	-.016295
56	-.038686	.020810	-.004063	-.021557	.050596	-.035025
57	-.032788	.021896	-.005811	-.028049	.054990	-.046340
58	-.020929	.025670	-.003001	-.018229	.051194	-.045121
59	-.001924	.029303	.000985	-.004031	.043643	-.038064
60	.008364	.033400	.002303	.007020	.031959	-.035495

RUN NO. 66B 16M 05-09-62 1818-1934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.97158 10E 00	0.76041 10E 00	0.34691 10E 00	0.13192 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.849465	.793381	.668818	.838227
2	.669071	.548164	.378989	.624916
3	.534455	.382012	.212993	.468400
4	.427011	.270195	.119484	.350540
5	.332609	.193374	.072544	.254628
6	.251525	.133896	.047749	.177124
7	.178798	.079484	.024885	.113740
8	.113831	.035959	.001520	.056318
9	.051894	.009540	-.026869	.010660
10	-.012355	-.026640	-.064827	-.026884
11	-.071129	-.068893	-.091406	-.059039
12	-.118266	-.091192	-.110310	-.089866
13	-.159012	-.103078	-.134286	-.116897
14	-.199760	-.122011	-.133528	-.150230
15	-.231106	-.151176	-.125112	-.180783
16	-.260053	-.166233	-.121557	-.199871
17	-.278965	-.169823	-.125817	-.213930
18	-.283088	-.177375	-.119865	-.226305
19	-.282170	-.189109	-.100991	-.230358
20	-.284009	-.200390	-.107295	-.238548
21	-.290690	-.213768	-.127147	-.258098
22	-.293412	-.230590	-.137103	-.266113
23	-.288836	-.236990	-.143878	-.260553
24	-.269038	-.226909	-.141761	-.244491
25	-.238971	-.212908	-.125438	-.228081
26	-.207451	-.198540	-.107722	-.207537
27	-.178926	-.194673	-.102075	-.182419
28	-.164560	-.178010	-.104600	-.150879
29	-.146799	-.153670	-.104180	-.124305
30	-.120497	-.119745	-.081629	-.095179
31	-.088590	-.085092	-.037297	-.061145
32	-.060723	-.060763	-.003681	-.035198
33	-.030481	-.032148	.012869	-.018065
34	-.007918	-.014656	.043853	-.013427
35	.010428	.005960	.045463	-.007225
36	.019003	.022467	.031113	.006208
37	.018090	.039600	.013859	.014641
38	.021623	.053314	.000103	.019734
39	.037660	.052931	-.004037	.033008
40	.051439	.045256	.010148	.044252
41	.057508	.041660	.015307	.044644
42	.066817	.043700	.010698	.036005
43	.080893	.037775	.010273	.029721
44	.083851	.036015	.016877	.029034
45	.081832	.039289	.017076	.025977
46	.084100	.041542	.020106	.023112
47	.083328	.042220	.024797	.016975
48	.077870	.035660	.015712	.007216
49	.073417	.036601	-.009996	.000620
50	.064695	.036897	-.006144	.001035
51	.057715	.042298	.014396	.003903
52	.048344	.043710	.023228	.004140
53	.036494	.040332	.019351	-.004423
54	.025507	.032836	.026102	-.011112
55	.015497	.013583	.002296	-.021634
56	-.000420	-.016455	-.018107	-.034987
57	-.016542	-.047683	-.019086	-.046727
58	-.035986	-.057771	-.017442	-.054955
59	-.048039	-.043369	-.014106	-.051020
60	-.057403	-.026336	-.019302	-.047724

RUN NO. 66B 16M 05-09-62 1818-1934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-01	10E-02	10E-03	10E-02
0	.147163	-.019853	.009839	.018102	.189285	-.023380
1	.293113	-.182306	.084407	.030484	.991298	-.249526
2	.331903	-.290555	.120521	.009010	.918415	-.356145
3	.582344	-.377033	.142733	-.002872	.730653	-.420134
4	.280321	-.266525	.089257	.095121	.345566	-.298470
5	-.150219	-.148572	.038873	.273507	.044893	-.186006
6	-.246252	-.115012	.023732	.096202	-.144580	-.157320
7-8	-.232004	-.077470	.016524	-.116513	-.059778	-.110409
9-11	-.282277	-.050187	.008389	.149046	-.007177	-.074249
12-15	.212301	-.050910	.005521	-.102359	.097465	-.062087
16-20	.041561	-.024829	.003621	.052495	-.045033	-.039402
21-27	.024821	-.013765	.001863	.014538	-.063447	-.023193
28-36	.016176	-.006776	.000852	-.021878	.041943	-.010599
37-47	.003608	-.004069	.000330	-.007517	-.004191	-.007434
48-60	.001018	-.001641	.000041	.015429	-.001089	-.004390

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-03	10E-02
1	.148575	.013385	.205135	-.378339	.257872	-.039475
2	.143193	.395607	.197743	-.737125	.877422	-.132518
3	.071673	.222246	.238026	-.559000	.696819	-.216418
4	.026018	-.548234	.213383	.028123	-.526780	-.155561
5	.019616	-.745257	.147958	.104223	-.855977	-.076250
6	.005822	-.555122	.087745	-.089003	-.328340	-.062384
7-8	-.001291	-.525140	.066851	.024844	-.214524	-.025188
9-11	-.002288	-.447087	.055990	-.010223	-.071894	-.035176
12-15	-.014640	-.221940	.010236	-.062122	.004294	-.020423
16-20	.000527	-.016132	.015225	.021610	-.116286	-.020012
21-27	.001560	-.024900	.008044	-.037997	.033953	-.011675
28-36	-.002463	-.000081	.001119	-.010124	.013819	-.002703
37-47	-.001764	.003900	.001999	-.004243	-.002137	-.002965
48-60	-.001168	.003179	-.000310	-.003726	-.010411	.000256

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.012177	.006619	.015740	.014705
1	.113553	.070570	.194921	.143672
2	.161768	.100452	.291538	.194300
3	.185651	.111900	.357774	.219880
4	.121278	.070621	.275457	.146584
5	.065304	.041903	.192368	.080604
6	.044191	.041314	.182501	.066301
7-8	.033751	.035973	.154984	.061396
9-11	.021911	.023356	.107247	.037966
12-15	.015414	.017349	.105168	.024467
16-20	.009769	.011560	.072266	.015836
21-27	.006201	.007413	.048398	.009680
28-36	.004089	.004213	.033101	.006133
37-47	.002648	.002876	.025617	.003370
48-60	.001674	.001750	.018427	.001992

RUN NO. 668 16M 05-09-62 1818-1934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.79040 10E 00	0.43120 10E 00	0.11986 10E 00	0.28159 10E 00	0.78277 10E-01	0.42704 10E-01
0	.123847	-.437958	.725183	-.039039	.139725	-.505483
1	.144115	-.179329	.396776	-.083018	.157647	-.172702
2	.099378	-.048529	.166866	-.026726	.101557	-.043972
3	.087977	-.047847	.104480	-.059165	.055840	-.006085
4	.035766	-.012936	.031973	-.043336	.000341	.035420
5	-.010380	.014208	-.049766	.003544	-.042322	.030294
6	-.051418	.069908	-.150220	-.051748	-.042951	.065378
7	-.103500	.083517	-.152921	.017421	-.110555	.047539
8	-.061538	.031301	-.191287	.034369	-.077466	.030804
9	-.054905	.049707	-.216245	.039627	-.1124124	.072808
10	-.057633	.060066	-.178498	.028946	.003602	.054013
11	-.027691	.050232	-.066754	.005270	-.025348	-.004442
12	-.052535	.025456	.003649	.093640	-.084991	.015777
13	-.037214	.044830	-.034884	.023426	-.069347	.061571
14	-.088111	.061590	-.032674	.082768	-.076250	.046416
15	-.069345	.020175	.001118	.123864	-.027754	.020498
16	-.029066	.034600	.005031	.087748	-.011937	-.002405
17	-.017399	.057087	-.033915	-.033191	.014952	.019611
18	-.050928	.019908	.003108	.034381	.014076	.000696
19	-.074512	.012486	.024950	.024379	-.035765	-.019566
20	-.022423	.018409	-.050612	-.013558	-.024305	-.002422
21	.034929	-.001251	-.077736	-.033019	.023669	-.016825
22	-.015453	.018995	-.078289	-.002765	-.039845	.037951
23	.011729	-.017527	-.066261	.030442	-.009214	.043663
24	.012518	-.025043	-.005198	-.039291	.019472	.014418
25	.052822	.003196	.008951	-.009175	.048762	.031451
26	.121788	-.017896	.056927	-.089890	.094268	.010886
27	.121227	-.091464	.092705	-.099120	.096741	-.050239
28	.155622	-.146093	.124159	-.009295	.095370	-.074944
29	.151859	-.083135	.068892	-.081610	.104904	-.021840
30	.127992	-.048992	.024274	-.079009	.054088	-.045856

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
0	-.016925	-.008158	.005812	.037457	-.012013	-.013751
1	.167281	-.138247	.067867	-.500725	.123762	-.121842
2	.315717	-.189876	.091716	-.841902	.257072	-.149106
3	.297671	-.195773	.121299	-.562169	.291904	-.182216
4	.212043	-.157086	.122136	-.002052	.229477	-.169579
5	.171013	-.134362	.082100	.030019	.172668	-.142070
6	.091872	-.112435	.042435	-.115736	.156712	-.140600
7	.017193	-.087683	.025951	.009858	.127058	-.119651
8	-.045091	-.064522	.019633	.187547	-.004904	-.089473
9-11	-.022813	-.055272	.033962	-.092610	-.021675	-.096088
12-14	.010554	-.075783	.021266	.014800	.026053	-.062544
15-21	-.001811	-.063670	.022765	-.042603	-.012060	-.069355
22-30	-.024376	-.044577	.013681	.197563	-.027429	-.071244

RUN NO. 668 16M 05-09-62 1818-1934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.79040 10E 00	0.43120 10E 00	0.11986 10E 00	0.28159 10E 00	0.78277 10E-01	0.42704 10E-01
1	.048500	-.003414	.083119	-.043366	.029630	-.088369
2	.062621	.011833	.080368	-.010656	.044436	-.008505
3	.067837	-.041873	.085740	.079718	-.023040	.019965
4	.042739	-.042408	.077796	.045368	.007869	-.007180
5	.018920	-.035128	.055870	.031903	.017119	-.001004
6	.035532	.002954	.022722	-.008739	.027453	-.022275
7	.090069	-.024440	-.015217	-.010102	-.043881	.033042
8	.109210	-.060961	-.010211	.028880	-.068137	.045536
9	.108879	-.049196	.014765	.055068	-.049096	.021394
10	.098698	-.028389	.015430	.064399	-.052685	.011556
11	.047913	-.007901	-.010166	.065987	-.023931	.014748
12	.000834	-.033604	.016222	.011265	-.009494	.002504
13	-.026192	-.050502	.011967	-.016679	.007988	.011226
14	-.026496	-.046184	-.024242	-.061664	.001795	.009156
15	-.022244	-.036810	-.001846	-.061231	-.018050	.033732
16	-.072907	-.004513	.000984	-.037627	-.002503	.049089
17	-.126481	.016969	-.018175	-.033099	.053196	.053342
18	-.090648	-.005180	.000125	.002767	.033093	.036886
19	-.029045	.029062	.006774	.024102	-.026167	-.043312
20	-.017677	.069781	-.009654	-.016177	-.034729	-.078974
21	.011115	.095804	-.029007	.030193	-.036975	-.122236
22	-.013139	.057983	-.031503	-.033163	-.008925	-.023009
23	-.068371	.047378	-.029900	-.083756	.062293	-.005900
24	-.061047	.032184	-.021372	.015523	.073090	.015345
25	-.011406	.005633	-.010601	-.021966	.044938	.039187
26	.019744	-.017042	-.019988	-.031051	.035921	.047116
27	.003042	.011507	-.045716	-.078043	.080520	.004744
28	-.052335	-.001497	-.019217	-.007344	.048783	-.044085
29	.004897	-.009875	.004285	.049981	-.038923	.020001
30	-.010210	.028840	.006449	.084954	.004988	-.053752

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03
1	.168555	-.889933	.130741	.235941	-.091137	.435640
2	.290644	-.856897	.192867	.427784	-.072421	.275094
3	.235282	-.171074	.214987	.361998	-.002055	-.200886
4	-.009008	.132453	.226302	.005394	.070680	-.275653
5	-.091530	-.216396	.227630	-.214323	.117201	-.016988
6	.015790	-.034851	.204183	.081186	.057653	-.430057
7	.093849	.091782	.181033	.423734	-.005402	-.363199
8	.094722	-.052356	.107589	.165265	-.008721	.215317
9-11	.062022	.037574	.015867	-.327021	.005021	-.148316
12-14	-.001380	.324218	.035102	-.269563	.063471	-.485807
15-21	.004196	-.004308	.043589	-.106014	.003025	-.311147
22-30	.003302	-.125907	.013988	.109876	-.030358	-.062996

RUN NO. 668 16M 05-09-62 1818-1934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12103 10E 01	0.51616 10E 00	0.15362 10E 00	0.11871 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.549323	.401973	.117131	.435652
2	.247181	.091039	-.051735	.116079
3	.178767	.027524	-.073936	.014311
4	.083630	.003734	-.133625	-.056401
5	-.009141	-.021319	-.052370	-.115345
6	-.144059	-.091542	-.096067	-.170644
7	-.210240	-.051544	.012360	-.092244
8	-.244163	-.064157	.074181	-.131373
9	-.300060	-.105599	-.009506	-.169547
10	-.272701	-.165348	-.004839	-.184122
11	-.175646	-.226267	-.015749	-.058474
12	-.092323	-.162141	-.081646	-.028565
13	-.126410	-.134379	-.052189	-.033680
14	-.093263	-.092164	-.149514	-.029158
15	-.079371	-.071497	-.066736	.012577
16	-.071996	-.040343	.038040	.070084
17	-.075328	-.067158	-.057397	-.002863
18	-.030239	-.082820	-.044456	.033290
19	-.049807	-.052389	.058234	.051583
20	-.090968	-.011931	.049191	-.024867
21	-.066946	.042102	.069490	-.088640
22	-.024421	.040848	-.072722	-.092515
23	.014867	.094957	-.069906	-.045968
24	.076271	.128035	.023585	.003414
25	.103936	.170324	-.019291	-.040454
26	.100966	.118602	.008065	.013687
27	.114172	.069325	.058086	.060059
28	.192577	.021155	.064453	.043761
29	.159554	-.081448	-.013533	.026109
30	.056815	.006772	.010134	.030981

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-02
0	.005027	.025044	.004334	.008158
1	.108992	.344491	.045831	.064356
2	.160193	.513737	.057501	.083040
3	.181429	.531980	.059258	.120741
4	.149426	.352222	.046605	.126978
5	.097416	.269816	.061385	.091414
6	.046951	.230904	.098993	.068916
7	.031627	.266392	.105136	.067591
8	.031324	.323300	.085463	.059372
9-11	.044933	.204920	.065993	.053282
12-14	.034344	.210856	.057889	.032154
15-21	.030130	.154699	.061678	.035801
22-30	.019186	.128548	.079522	.027501

RUN NO. 668 40M 05-09-62 1810-1934 EST

GROSS STATISTICS

CLEAR	WIND SPEED	7.03 M/SEC	WIND DIRECTION	327 DEG
STABLE	SIGMA A	10.3 DEG	SOLAR RADIATION	0.02
LAND	SIGMA E	6.2 DEG	NET RADIATION	-0.18

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.22266E 01	0.17033E 01	0.10923E 01	0.12496E 01
V	0.15948E 01	0.10082E 01	0.79505E 00	0.56259E 00
W	0.56797E 00	0.53846E 00	0.49990E-00	0.21298E-00
T	0.22153E-00	0.95572E-02	0.62779E-02	0.68238E-02
E	0.21947E 01	0.16252E 01	0.11936E 01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
GUSTINESS RATIOS				
U	0.21226	0.18565	0.14867	0.15901
V	0.17964	0.14283	0.12684	0.10669
W	0.10720	0.10438	0.10057	0.06565

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
COVARIANCES				
U,V	-0.18472E-00	0.17661E-00	0.89663E-01	0.15965E-00
U,W	-0.42164E-00	-0.41778E-00	-0.30079E-00	-0.27686E-00
U,T	0.31665E-00	0.82369E-01	0.45629E-01	0.66714E-01
V,W	-0.44150E-01	-0.24885E-01	0.44926E-02	-0.29080E-01
V,T	-0.28583E-00	0.13553E-01	0.62249E-02	0.11662E-01
W,T	-0.11111E-01	-0.29796E-01	-0.21893E-01	-0.17848E-01
WE	-0.11262E-00	-0.45777E-01	0.57054E-02	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
NORMALIZED COVARIANCES				
U,V	-0.09803	0.13477	0.09621	0.19041
U,W	-0.37494	-0.43624	-0.40705	-0.53667
U,T	0.45085	0.64558	0.55101	0.72247
V,W	-0.04639	-0.03378	0.00713	-0.08401
V,T	-0.48088	0.13807	0.08811	0.18821
W,T	-0.03305	-0.41535	-0.39080	-0.46818

RUN NO. 668 40M 05-09-62 1818-1934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,M	U,T	V,M	V,T	W,T
	0.93212 10E 00	0.73897 10E 00	0.82824 10E-01	0.63049 10E 00	0.70665 10E-01	0.56022 10E-01
0	.095962	-.407123	.550746	.007035	.087922	-.390842
1	.085495	-.374439	.528697	.013285	.080079	-.341763
2	.067423	-.307641	.472856	.015742	.065186	-.260925
3	.052915	-.234027	.401928	.012038	.047225	-.195741
4	.041406	-.167106	.333596	.005528	.034183	-.142013
5	.036738	-.115025	.274150	.008512	.023908	-.097040
6	.034157	-.078155	.218474	.010728	.015907	-.062359
7	.031616	-.051898	.162045	.009416	.011034	-.034951
8	.026661	-.034101	.108221	.007056	.010195	-.007935
9	.016350	-.019283	.059022	.002361	.012936	.011517
10	.009136	-.002180	.021097	-.011324	.012611	.027968
11	.006494	.007730	-.006934	-.014253	.007900	.036091
12	-.000243	.022799	-.035221	-.009403	.003991	.035852
13	-.007751	.040073	-.066247	-.004531	-.001650	.032731
14	-.016089	.053618	-.097418	.000806	-.009001	.031561
15	-.026217	.064438	-.121450	-.002667	-.014571	.034518
16	-.035305	.066896	-.137647	-.009332	-.022666	.042905
17	-.043060	.069224	-.151083	-.018909	-.025153	.052746
18	-.041323	.072745	-.165153	-.023274	-.024306	.057533
19	-.043690	.075341	-.176376	-.027514	-.019862	.059011
20	-.050928	.075756	-.182692	-.017825	-.019324	.062573
21	-.053395	.081259	-.185198	.003704	-.024017	.071317
22	-.053206	.092429	-.187075	.018215	-.029796	.079002
23	-.053715	.109051	-.186781	.023600	-.033222	.081481
24	-.053443	.120108	-.182210	.018865	-.030017	.083862
25	-.050231	.127591	-.173841	.017575	-.022701	.089498
26	-.037911	.131817	-.164934	.009585	-.015463	.096052
27	-.026356	.128844	-.156455	-.002229	-.010265	.093764
28	-.015658	.122241	-.145807	-.004632	-.005330	.089096
29	-.009168	.113766	-.132940	-.001865	.001256	.088676
30	-.003029	.103136	-.117732	-.000360	.010652	.085950
31	.005305	.090822	-.100610	.002302	.017594	.074512
32	.008604	.077515	-.084664	.000619	.020345	.062647
33	.010471	.064662	-.070344	-.004575	.020161	.049649
34	.019818	.054343	-.059012	-.012145	.021283	.038465
35	.030219	.042326	-.045164	-.013358	.024267	.033128
36	.040302	.029632	-.030384	-.016981	.027322	.024893
37	.047580	.017038	-.015911	-.023729	.026786	.016146
38	.052636	-.001329	-.002875	-.029060	.019487	.012230
39	.053325	-.013288	.006749	-.030439	.011579	.008632
40	.051828	-.023990	.015660	-.029712	.003877	.001219
41	.041693	-.023003	.022872	-.023976	-.003180	-.006071
42	.033618	-.017546	.026925	-.021110	-.012968	-.008369
43	.034122	-.007241	.024336	-.020241	-.022356	-.002815
44	.033876	.003239	.018747	-.014813	-.028379	.003536
45	.032373	.008757	.013630	-.011183	-.028209	.005989
46	.023628	.011079	.011233	-.008047	-.022588	.008768
47	.016503	.004233	.013247	.002209	-.016660	.009526
48	.005778	-.005338	.016875	.001508	-.010314	.006869
49	-.002064	-.013707	.018245	-.003656	-.008945	.005768
50	-.009331	-.021179	.016120	.006074	-.008968	-.001968
51	-.017827	-.031232	.013952	.023437	-.006886	-.012877
52	-.026299	-.041904	.012454	.027072	-.004961	-.022074
53	-.033405	-.040544	.009104	.026407	-.004875	-.029655
54	-.036350	-.041809	.000151	.027777	-.013178	-.036268
55	-.034562	-.042586	-.011121	.016594	-.021229	-.037824
56	-.029735	-.040252	-.022739	.000597	-.025197	-.036377
57	-.022666	-.039748	-.030584	-.008050	-.026644	-.031588
58	-.019094	-.037105	-.035387	-.020510	-.022748	-.024668
59	-.018757	-.029853	-.039346	-.028345	-.018712	-.021128
60	-.023593	-.031630	-.042024	-.023170	-.016552	-.020803

RUN NO. 668 40M 05-09-62 1818-1934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.93212 10E 00	0.73897 10E 00	0.82824 10E-01	0.63049 10E 00	0.70665 10E-01	0.56022 10E-01
1	.007987	.002917	.043296	.015316	.007582	-.062314
2	.007310	.001111	.072628	.021430	.007240	-.081412
3	.006847	-.001213	.086792	.017571	.001165	-.073402
4	.005257	-.002919	.089698	.009726	-.000238	-.058638
5	-.003110	-.000701	.089795	-.002928	.000856	-.050154
6	-.012217	.004021	.088557	-.016519	.003680	-.052828
7	-.020459	.000156	.087096	-.030812	.006352	-.059705
8	-.027847	-.012231	.091987	-.040199	.011350	-.063174
9	-.033136	-.021257	.098349	-.040200	.016196	-.065679
10	-.033785	-.026401	.102307	-.039286	.021533	-.064584
11	-.033500	-.027156	.102217	-.043474	.028524	-.063432
12	-.036516	-.021231	.099388	-.049109	.035257	-.065992
13	-.043847	-.007054	.096733	-.044084	.038102	-.066421
14	-.045332	.002815	.093588	-.037135	.037741	-.063333
15	-.042717	.006632	.085980	-.035928	.034847	-.057735
16	-.039449	.011325	.074918	-.031036	.027886	-.052280
17	-.034513	.013143	.062987	-.025585	.023527	-.048966
18	-.028607	.019829	.048069	-.019749	.018327	-.044464
19	-.021918	.024309	.036002	-.006625	.012674	-.041511
20	-.014940	.025507	.023664	.003518	.007434	-.041117
21	-.003756	.026477	.014159	.011671	.000930	-.038427
22	.002959	.026620	.006819	.018458	.001401	-.035772
23	.002915	.033351	.001775	.023311	.005107	-.035850
24	.001885	.036481	-.001285	.017972	.009784	-.034200
25	-.000520	.032598	-.007122	.009615	.012556	-.024371
26	-.005845	.023011	-.013051	.002461	.010089	-.010051
27	-.005085	.015987	-.014375	-.000830	.007798	.003040
28	-.002803	.002266	-.014458	.000785	.005761	.014558
29	.003000	-.009346	-.012805	.000083	-.002046	.027222
30	.011245	-.015862	-.015370	.004278	-.007366	.039111
31	.018564	-.019097	-.014880	.007260	-.012103	.044652
32	.028687	-.019826	-.008895	.016576	-.016597	.038871
33	.042305	-.018212	-.003876	.027443	-.031572	.032318
34	.055058	-.019507	-.001469	.045704	-.046284	.032858
35	.066356	-.021352	-.002414	.055712	-.052946	.037074
36	.070707	-.020132	-.003134	.056843	-.052595	.041883
37	.066073	-.016853	-.004708	.045342	-.046857	.046898
38	.063065	-.019070	-.005692	.031660	-.041208	.053712
39	.057923	-.019154	-.003086	.013907	-.034995	.056721
40	.054088	-.014478	.000759	-.003105	-.029175	.052599
41	.054125	-.007664	.001442	.001917	-.024973	.042419
42	.050404	-.001804	.001515	.012079	-.021981	.032244
43	.035800	.001223	.001581	.018641	-.015377	.024010
44	.012950	.012005	-.002321	.014023	-.004129	.018416
45	-.000456	.016271	-.005583	.002156	.008736	.019477
46	-.005230	.013218	-.007425	-.011182	.015962	.022539
47	-.015421	.006704	-.006826	-.018666	.018004	.017297
48	-.025868	-.007016	-.001797	-.024048	.024687	.010496
49	-.032976	-.019194	-.001176	-.035930	.036945	.008706
50	-.040190	-.017232	-.007205	-.044891	.048915	.003455
51	-.047814	-.012028	-.014465	-.045736	.055680	-.004573
52	-.053992	-.011350	-.019012	-.042930	.063131	-.011354
53	-.055028	-.007708	-.024186	-.032685	.064221	-.016736
54	-.060568	.007748	-.031041	-.025284	.058821	-.021243
55	-.064161	.021984	-.037245	-.026877	.057532	-.024086
56	-.069681	.023715	-.041110	-.018341	.055290	-.025856
57	-.072094	.025835	-.043877	-.013489	.050520	-.023630
58	-.067996	.021217	-.042950	-.014231	.043573	-.022343
59	-.057644	.019970	-.042601	-.013040	.035156	-.025392
60	-.054427	.020285	-.042490	-.006719	.029570	-.023147

RUN NO. 668 40M 05-09-62 1818-1934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	r
	0.10925 10E 01	0.79528 10E 00	0.49984 10E 00	0.62790 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.875726	.790740	.722329	.892572
2	.713021	.544738	.433814	.723165
3	.582277	.375816	.262963	.572038
4	.473398	.258486	.149023	.454329
5	.379578	.175580	.060846	.357127
6	.298030	.118286	-.005279	.268681
7	.226303	.074695	-.037933	.187190
8	.158553	.026908	-.047890	.108906
9	.095472	-.005492	-.053225	.042974
10	.034947	-.018418	-.069675	-.005118
11	-.021793	-.032194	-.089392	-.045113
12	-.073966	-.057008	-.098186	-.083514
13	-.116908	-.074146	-.103731	-.119050
14	-.151934	-.095308	-.103957	-.152981
15	-.186058	-.119319	-.102487	-.183940
16	-.216603	-.140683	-.105988	-.205542
17	-.247159	-.148440	-.101192	-.224288
18	-.271038	-.152299	-.094291	-.239801
19	-.283230	-.158954	-.089557	-.254484
20	-.290723	-.161266	-.092432	-.264847
21	-.298630	-.165742	-.105823	-.271718
22	-.308673	-.190962	-.117526	-.275554
23	-.312879	-.214814	-.131841	-.275278
24	-.311579	-.226116	-.161039	-.271192
25	-.308823	-.230816	-.186410	-.263745
26	-.299178	-.232517	-.189943	-.251349
27	-.278694	-.219436	-.174768	-.235348
28	-.252251	-.204886	-.163267	-.214230
29	-.224692	-.200293	-.154426	-.191954
30	-.193662	-.184976	-.120356	-.163765
31	-.162157	-.148255	-.062275	-.132542
32	-.139477	-.112252	-.020085	-.103186
33	-.116241	-.102828	-.010954	-.075018
34	-.090977	-.087175	-.003769	-.049428
35	-.065360	-.074707	.012167	-.026466
36	-.035764	-.059411	.041100	-.003755
37	-.005283	-.040373	.051680	.013298
38	.017772	-.015544	.047753	.025660
39	.033519	.009518	.048893	.034134
40	.035627	.021654	.053215	.041481
41	.039249	.031562	.058517	.047462
42	.042961	.051091	.048626	.043973
43	.044720	.077012	.029609	.035839
44	.049408	.091847	.006972	.028072
45	.056609	.091098	-.018121	.023219
46	.062249	.083781	-.018230	.019825
47	.069387	.080059	-.018265	.014962
48	.071493	.086938	-.017357	.007169
49	.068058	.092761	-.014369	-.004507
50	.061078	.092196	-.009336	-.017651
51	.059841	.086550	.011350	-.031562
52	.065227	.089420	.021859	-.045383
53	.064380	.088460	.032116	-.058513
54	.056023	.076845	.050238	-.067536
55	.041629	.059995	.048938	-.066700
56	.029852	.045249	.043675	-.065015
57	.016940	.023163	.037211	-.065215
58	.009155	.014609	.039236	-.066456
59	.000341	.010364	.029305	-.063967
60	-.007359	-.003773	.014027	-.058945

RUN NO. 668 40M 05-09-62 1818-1934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
0	.021605	-.037480	.010161	-.035377	.022678	-.025311
1	.091386	-.445100	.086223	.185331	.096424	-.284728
2	.169154	-.561067	.103218	.183332	.087261	-.345389
3	.257408	-.513845	.101896	.075357	.118666	-.319853
4	.116366	-.279533	.059575	.329654	.087960	-.198406
5	-.008927	-.196846	.031384	.337282	.012016	-.156340
6	.007595	-.223410	.023092	-.042825	.009673	-.169361
7-8	.024637	-.149017	.014834	-.116672	.033652	-.124592
9-11	.020903	-.093934	.007705	.072721	.024972	-.065290
12-15	.016954	-.055433	.003133	-.073888	.013581	-.032879
16-20	.015377	-.018895	.002020	.048235	.004249	-.026035
21-27	.003063	-.006722	.000402	-.036939	.002392	-.011774
28-36	.001863	-.003794	.000048	-.033307	-.000217	-.007498
37-47	.001881	-.001958	.000038	.004109	.000074	-.003282
48-60	-.000215	-.000818	.000001	-.010070	.000803	-.001330

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-03	10E-02
1	-.032121	.227731	.279467	-.241017	.342221	-.118785
2	-.149085	.225521	.295342	-.754915	.805155	-.175234
3	-.130205	-.217404	.301567	-.917655	.699574	-.146666
4	.020108	-.715945	.203827	-.268218	-.168694	-.044278
5	.014034	-.385483	.082055	.004811	-.106427	-.026643
6	.018603	.298263	.024363	.223511	-.053450	-.041353
7-8	.053858	.279872	.028215	.518274	-.333969	-.029533
9-11	.003701	.122102	.042956	.147176	.118458	-.025531
12-15	.012872	-.129578	.025081	.143783	.035496	-.025890
16-20	-.002592	.024285	-.010650	.031577	.041288	-.021391
21-27	.002483	.043824	.002936	.015192	.036018	-.010162
28-36	.002086	-.012311	.000794	.003008	.016271	-.003024
37-47	.001535	.013470	.000260	.008312	-.002808	-.001869
48-60	-.000087	.000795	.000137	-.004432	-.003844	-.000327

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.016007	.006312	.019313	.010358
1	.163525	.079726	.301158	.090803
2	.213885	.110566	.457101	.112426
3	.213876	.107015	.527242	.117713
4	.120199	.060518	.361889	.072677
5	.063375	.046260	.275937	.040615
6	.051897	.047633	.347827	.035302
7-8	.038033	.038554	.281115	.025916
9-11	.023124	.026947	.187300	.014852
12-15	.015259	.017319	.137340	.008381
16-20	.009581	.012303	.082619	.005826
21-27	.005798	.007554	.064591	.003160
28-36	.003707	.004877	.042569	.001534
37-47	.002200	.002852	.027328	.000741
48-60	.001381	.001885	.017856	.000523

RUN NO. 668 40M 05-09-62 1818-1934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.83821 10E 00	0.51578 10E 00	0.92307 10E-01	0.34633 10E 00	0.61980 10E-01	0.38139 10E-01
0	.190462	-.536772	.722740	-.083966	.188153	-.467981
1	.134807	-.280481	.452290	-.099851	.127300	-.238044
2	.045710	-.076326	.175163	-.068421	.052427	-.067433
3	.031265	.039768	.034868	-.053045	.028227	.035637
4	.023758	.062244	-.049898	-.037927	-.015752	.080662
5	-.046196	.025993	-.087109	.027249	-.059666	.053534
6	-.065081	.039180	-.130056	.015714	-.074389	.025955
7	-.077746	.054540	-.107083	.084485	-.062623	.027797
8	-.022414	.035870	-.096669	.051960	-.039557	.058317
9	-.011213	.030220	-.096005	-.011678	-.022944	.044142
10	-.003439	.056627	-.099068	.052298	.010304	.053080
11	-.043008	.074319	-.085692	.004639	.014323	.073303
12	-.079076	.083170	-.092520	.069726	-.017124	.086546
13	.071601	.067003	-.068901	.107026	-.017074	.033053
14	-.049208	.063686	-.029832	.061740	.021018	.002840
15	-.009039	.047758	-.007905	.035319	.040353	-.005908
16	.016546	.075869	-.023233	.050427	-.014503	.037535
17	.008443	.051760	-.012925	.034559	-.036678	.001712
18	-.031216	.005540	.000262	-.015153	-.028687	-.013425
19	-.045944	-.028369	-.046769	-.002924	-.052454	-.019780
20	-.058709	-.021913	-.080577	.031476	-.074614	.020779
21	-.028599	-.033206	-.092466	.003616	-.088266	.022105
22	-.021632	-.029038	-.087614	.025241	-.079995	-.015011
23	.048966	.048204	-.092185	.030621	-.005482	.034102
24	.062882	.052353	-.053090	.007452	.023938	.058915
25	.055194	.004782	-.012045	-.027379	.021052	.062100
26	.107337	-.011849	.042201	-.073453	.083962	-.002690
27	.131754	-.057724	.076176	-.129184	.137285	-.030094
28	.092769	-.094006	.101428	-.046370	.112864	-.071181
29	.068717	-.128250	.111563	-.043920	.077303	-.113278
30	.038658	-.117644	.143053	-.029156	.024488	-.134231

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
0	-.011599	-.013126	.052315	.017280	-.000102	-.006574
1	.117163	-.191357	.596662	-.646501	.096584	-.102940
2	.239209	-.261554	.694499	-.955167	.112027	-.141394
3	.244878	-.279061	.804364	-.766098	.114936	-.180030
4	.203879	-.204793	.813558	-.426534	.199240	-.164214
5	.167963	-.187635	.618865	-.427255	.194229	.122872
6	.131767	-.226296	.494932	-.597630	.108409	-.125820
7	.171212	-.205875	.499090	-.385617	.095956	-.140989
8	.081307	-.182771	.393546	.278938	.051227	-.142434
9-11	-.017513	-.145003	.249741	.230224	.005237	-.097157
12-14	.081054	-.113267	.191182	-.179909	.030771	-.058251
15-21	.037443	-.042577	.108689	-.004604	.027581	-.031528
22-30	-.006305	-.049403	.067368	.123406	.003681	-.032596

RUN NO. 668 40M 05-09-62 1818-1934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.83821 10E 00	0.51578 10E 00	0.92307 10E-01	0.34633 10E 00	0.61980 10E-01	0.38139 10E-01
1	-.044506	-.035462	.110295	-.066968	.054815	-.076626
2	-.071686	.023214	.079655	-.028567	.077743	-.073544
3	-.061813	-.026351	.052835	-.045892	.081581	.032099
4	-.035519	-.054296	.032529	-.066214	.069299	.060536
5	-.103282	-.043781	-.008661	-.088773	.099081	.067516
6	-.059152	-.028751	-.036631	-.041192	.081292	.039413
7	-.007688	-.081064	-.012673	-.053083	.003628	.075331
8	.017630	-.075219	.008957	.009129	-.035115	.059190
9	.046125	-.052773	.056923	-.000156	-.043575	-.034493
10	.066520	-.043555	.053069	.027063	-.008673	-.028952
11	-.017342	-.071264	.054149	.017603	.043000	.015321
12	-.011482	-.062473	.039835	.029642	.006936	.011839
13	.008462	-.030055	-.018298	-.026878	-.018781	.003149
14	.044059	-.036257	-.023974	-.036117	-.061559	.013535
15	.084762	-.059814	-.028202	-.006309	-.066950	.055425
16	.070265	-.039529	-.058917	.084498	-.069460	.080874
17	-.008289	-.000304	-.054821	.083855	-.016485	.062773
18	-.002501	.002705	.032490	.010210	.023062	.053671
19	.049896	.022458	-.024954	.035118	-.019153	-.014181
20	.014690	.071179	-.017869	.030763	-.001965	-.059581
21	.001457	.067155	.001199	.000338	-.038846	-.060298
22	-.007811	.030649	.024430	-.014579	-.025521	-.046165
23	-.008080	.032916	-.009945	.028952	.008816	.007218
24	.019946	.040763	-.017049	.048508	.020974	.018395
25	.026625	.045336	.019199	.003724	.030399	-.014144
26	-.049376	.043653	.028156	-.047258	.054619	-.041799
27	-.062350	.072344	.011428	-.068879	.084501	-.086186
28	-.009563	.052662	.033234	.031671	.033654	-.103619
29	-.047560	-.000241	.036464	.087471	.042106	-.036958
30	-.008488	-.006068	.050803	.070036	.054795	-.022558

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-03
1	.021094	-.194200	.058109	-.154146	.015355	.840297
2	-.114837	-.149269	.127138	-.597010	.103536	.501123
3	-.224453	-.035340	.114541	-.769176	.177585	.167596
4	-.189837	.018448	-.004166	-.534874	.141389	.318052
5	-.128186	-.003281	.025129	-.470566	.104160	.218595
6	-.094229	.013151	.179822	-.346271	.095009	-.558314
7	-.031782	.023960	.241923	.081685	.078243	-.851344
8	.070788	-.001438	.179557	.340895	-.009857	-.479527
9-11	-.004810	.002223	.065828	-.094902	-.024334	-.411776
12-14	-.062976	.010053	.045615	-.157822	.050714	-.463648
15-21	.027342	-.031129	.053701	-.174626	-.009491	-.043119
22-30	-.024225	-.019967	.016188	-.128805	.010825	.103245

RUN NO. 66B 40M 05-09-62 1818-1934 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOVARIANCE

M	U	V	W	T
	0.12483 10E 01	0.56282 10E 00	0.21311 10E 00	0.68255 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.561493	.413462	.241094	.536976
2	.185568	.098176	-.028377	.173875
3	.051554	-.062081	-.106959	-.005843
4	-.016301	-.070303	-.035409	-.110394
5	-.036768	-.048018	-.034095	-.182438
6	-.108092	-.111061	.025404	-.184657
7	-.149298	-.167475	.049246	-.105984
8	-.119555	-.149658	.006998	-.094859
9	-.083591	-.074846	-.040362	-.141871
10	-.110409	-.097321	-.050321	-.154890
11	-.111811	-.155271	-.080532	-.138315
12	-.125367	-.105182	-.040089	-.133555
13	-.123943	-.088548	-.039768	-.045384
14	-.108132	-.094435	-.169273	.012695
15	-.091757	-.037745	-.075644	.031404
16	-.098970	.010047	-.148375	.040699
17	-.066266	-.011815	-.031442	.105909
18	-.051596	.037748	-.024577	.071738
19	-.092693	.016464	-.006442	.007589
20	-.086342	.047108	-.053857	-.065085
21	-.060931	.105670	-.029248	-.116860
22	-.061442	.052587	-.006663	-.097889
23	-.096383	.074399	-.071063	-.095942
24	-.051773	.060245	-.105636	-.043325
25	-.006040	.050756	-.049883	-.036358
26	.023326	.056952	-.059987	.019308
27	.085319	.056330	.023580	.036230
28	.137335	-.042395	.114752	.056002
29	.166354	-.131716	.115097	.104538
30	.169837	-.087313	.174585	.153744

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-03
0	.010529	.021057	.012303	.041144
1	.122652	.229360	.132056	.391316
2	.138626	.421645	.131318	.518322
3	.136111	.579340	.102955	.769613
4	.117872	.469716	.070528	.811753
5	.098799	.381502	.079870	.554663
6	.086607	.363368	.117383	.472439
7	.077813	.341797	.123525	.566506
8	.060873	.301868	.120248	.480640
9-11	.050392	.260160	.126759	.271235
12-14	.048523	.261754	.087096	.182937
15-21	.024681	.124965	.077813	.150941
22-30	.016199	.144160	.076101	.108705

RUN NO. 668 16M 05-09-62 1818-1934 EST
 RUN NO. 668 40M 05-09-62 1818-1934 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.665851	.353557	.538809	.676217
1	.589632	.599787	.597544	.734708
2	.619591	.621326	.594129	.750955
3	.618057	.627153	.561933	.740045
4	.490825	.540971	.497495	.644626
5	.213556	.314301	.445736	.416907
6	.131368	.273147	.416542	.342575
7-8	.097887	.366371	.317939	.261393
9-11	.107804	.326028	.270686	.273848
12-15	.084441	.260579	.277288	.120945
16-20	.125196	.212483	.174136	.178138
21-27	.083530	.103906	.089730	.107857
28-36	.144828	.097397	.093456	.112268
37-47	.108801	.122927	.121903	.129792
48-60	.124335	.081982	.101127	.101411

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 01	10E 00	10E 00
0	.818238	.100585	.706871	.752719
1	.889001	.074385	.788004	.743267
2	.849112	.078840	.772324	.730870
3	.773674	.080102	.730933	.743061
4	.774373	.071035	.630262	.780744
5	.794465	.064307	.659233	.798463
6	.651806	.051773	.616933	.689971
7	.474844	.049615	.541128	.606681
8	.475360	.062043	.606683	.678421
9-11	.576271	.061266	.637486	.817837
12-14	.751640	.064349	.552145	.726786
15-21	.486624	.059180	.518830	.591735
22-30	.238846	.016719	.470172	.373509

RUN NO. 66C 16M 05-09-62 1948-2104 EST

GROSS STATISTICS

CLEAR	WIND SPEED	3.65 M/SEC	WIND DIRECTION	298 DEG
VERY STABLE	SIGMA A	9.3 DEG	SOLAR RADIATION	0
LAND	SIGMA E	3.3 DEG	NET RADIATION	-0.16

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	3(1 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.34822E-00	0.22428E-00	0.20239E-00	0.12805E-00
V	0.39474E-00	0.11162E-00	0.11019E-00	0.40361E-01
W	0.49001E-01	0.44059E-01	0.45927E-01	0.11257E-01
T	0.19391E-00	0.14681E-01	0.11597E-01	0.85723E-02
E	0.39598E-00	0.18998E-00	0.17925E-00	

GUSTINESS RATIOS

U	0.16167	0.12975	0.12325	0.09804
V	0.17213	0.09153	0.09094	0.05504
W	0.06065	0.05751	0.05871	0.02907

COVARIANCES

U,V	0.47824E-01	0.10812E-01	0.78971E-02	0.33847E-02
U,W	-0.35742E-01	-0.38461E-01	-0.37112E-01	-0.17674E-01
U,T	0.20652E-01	0.35241E-01	0.27533E-01	0.23358E-01
V,W	0.53967E-02	-0.56293E-02	-0.53875E-02	-0.63212E-03
V,T	0.19992E-00	0.51721E-02	0.49201E-02	0.14399E-02
W,T	-0.21166E-02	-0.94082E-02	-0.89584E-02	-0.43438E-02
WE	-0.10364E-01	-0.36457E-02	-0.37586E-02	

NORMALIZED COVARIANCES

U,V	0.12899	0.06833	0.05288	0.04708
U,W	-0.27362	-0.38691	-0.38493	-0.46550
U,T	0.07948	0.61416	0.56831	0.70501
V,W	0.03880	-0.08027	-0.07573	-0.02966
V,T	0.72259	0.12777	0.13766	0.07741
W,T	-0.02171	-0.36993	-0.38818	-0.44219

RUN NO. 66C 16M 05-09-62 1948-2104 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14932 10E 00	0.96394 10E-01	0.48456 10E-01	0.71132 10E-01	0.35757 10E-01	0.23083 10E-01
0	.052900	-.385136	.568425	-.075850	.137635	-.388.12
1	.052463	-.315378	.514068	-.058939	.112103	-.306169
2	.038133	-.210624	.410345	-.025373	.073277	-.189101
3	.018326	-.131394	.315663	.004167	.044506	-.113437
4	-.002741	-.074679	.238465	.025923	.012670	-.066691
5	-.017345	-.032303	.166037	.038616	-.012183	-.034942
6	-.025764	-.003689	.104858	.039711	-.023179	-.010611
7	-.018698	.018121	.054902	.023912	-.033177	.017175
8	-.008350	.033173	.021230	.015693	-.042535	.038211
9	.009812	.034260	.003406	.004668	-.039334	.054337
10	.022363	.031623	-.008763	.003556	-.039793	.064057
11	.021628	.034556	-.031616	.006786	-.034898	.071491
12	.018823	.048043	-.056936	.002204	-.023590	.073903
13	.010849	.064343	-.072630	-.000699	-.010438	.066692
14	-.003365	.075929	-.082960	-.003971	-.005984	.067707
15	-.019233	.077766	-.099199	-.001667	-.013455	.068812
16	-.038368	.077067	-.116314	.010506	-.024773	.069899
17	-.051116	.073567	-.130440	.027704	-.033817	.069631
18	-.039926	.060890	-.143009	.019552	-.031339	.062367
19	-.025679	.046802	-.153617	.009155	-.019667	.049535
20	-.018304	.032180	-.153708	.004721	-.001069	.032569
21	-.013724	.020307	-.150555	.007098	.014250	.020866
22	-.006621	.031418	-.145296	.011641	.022540	.019903
23	.005972	.038480	-.137973	.004091	.026698	.027784
24	.011295	.040231	-.122930	.000949	.030712	.025523
25	.013914	.048570	-.110340	.000322	.025878	.027747
26	.010530	.066438	-.105670	-.010637	.015513	.036108
27	.006243	.076457	-.102540	-.013929	.009609	.043570
28	.006779	.081148	-.101873	-.024143	.005715	.047325
29	.007693	.082951	-.098670	-.026711	-.007560	.040208
30	.003145	.071223	-.095847	-.027785	-.023855	.030941
31	-.000137	.045525	-.092235	-.024214	-.030558	.016542
32	.003466	.024978	-.090947	-.016625	-.026442	.005786
33	.010826	.007973	-.087394	-.024550	-.022488	-.003059
34	.021039	-.010523	-.083789	-.043680	-.008548	-.008373
35	.035034	-.019064	-.074405	-.052146	.019048	-.017919
36	.037590	-.025626	-.060722	-.039944	.033943	-.028791
37	.027331	-.032633	-.040420	-.019890	.031483	-.039391
38	.018481	-.037324	-.019054	-.012560	.020902	-.042545
39	.011729	-.037324	-.008091	-.001268	.011007	-.039303
40	.003873	-.031229	-.002873	-.000622	.005554	-.014175
41	.002914	-.031835	.003107	.001900	.002501	-.007162
42	.002263	-.033517	.009965	.001383	.000842	.003198
43	-.000916	-.035094	.011339	-.001994	.004107	.005728
44	-.009978	-.023903	.009369	-.000045	.000055	.008781
45	-.013386	-.013674	.010730	.007443	-.008343	.015226
46	-.014134	-.002589	.009350	.006407	-.015692	.010725
47	-.011966	.018668	.005512	.013174	-.020142	.018337
48	-.009706	.029589	.006301	.014939	-.015704	.015113
49	-.010981	.018444	.018733	.017069	-.011878	.006771
50	-.017554	.003375	.033799	.017268	-.016561	.000099
51	-.026061	-.010380	.050016	.031402	-.022912	-.007445
52	-.027221	-.011544	.059824	.039815	-.030475	-.012357
53	-.023018	-.006623	.058788	.036763	-.027514	-.004778
54	-.015596	.002814	.056715	.027492	-.022304	.004196
55	-.016009	.010463	.057764	.014366	-.010451	.006905
56	-.011893	.010005	.050787	.012108	.002737	.005838
57	.001250	-.000374	.039419	.003439	.015814	.001499
58	.004707	-.019344	.037853	.017416	.017732	-.002805
59	.002674	-.028807	.035573	.012403	.015194	-.012451
60	.008549	-.037391	.034184	-.004043	.016494	-.022142

RUN NO. 66C 16M 05-09-62 1948-2104 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14932 10E 00	0.96394 10E-01	0.48456 10E-01	0.71132 10E-01	0.35757 10E-01	0.23083 10E-01
1	.014061	.005053	.043691	.009833	-.006715	-.059725
2	.023679	.027682	.064761	.004775	-.004338	-.086384
3	.028482	.043159	.069998	.012028	-.001084	-.087561
4	.031606	.042923	.075351	.015081	.003056	-.077283
5	.029918	.044672	.078062	.015597	.002731	-.067625
6	.031320	.044008	.078878	.017363	-.008094	-.054183
7	.035550	.033475	.077871	.009392	-.016918	-.041668
8	.030258	.025845	.070974	-.015162	-.010087	-.030411
9	.023878	.021265	.061655	-.040518	.009041	-.018396
10	.012794	.016426	.055644	-.053084	.024107	-.010530
11	.003066	.014852	.058410	-.060923	.037076	.004576
12	-.009900	.005297	.061933	-.061969	.048731	.016174
13	-.016698	-.007142	.061552	-.056082	.057763	.021173
14	-.018497	-.007969	.055534	-.051953	.063632	.016567
15	-.018229	.003674	.050972	-.042640	.059285	.005776
16	-.016221	.009277	.043007	-.030762	.043351	.006471
17	-.008252	.006570	.034878	-.020932	.022057	.021449
18	-.001738	.003508	.025705	-.022146	.009001	.029433
19	.007683	.001376	.016784	-.009240	-.001083	.026577
20	.012808	.002971	.015144	.008993	-.012583	.013787
21	.016877	-.003264	.022794	.019718	-.025108	.005777
22	.023239	.004152	.023423	.028292	-.033806	-.006759
23	.024941	.010843	.021848	.036726	-.031107	-.012358
24	.028613	.017999	.019658	.029440	-.026549	-.013529
25	.033577	.013343	.018567	.025304	-.023621	-.017855
26	.034438	.016382	.011895	.024026	-.019294	-.018809
27	.029391	.007742	.003493	.018392	-.014423	-.008881
28	.022537	.003553	-.005590	.012411	-.014047	-.003018
29	.018269	-.002759	-.019299	.021703	-.018619	.004582
30	.021224	.002880	-.028548	.027933	-.024361	-.001536
31	.021127	.000064	-.030267	.031639	-.023886	.000295
32	.011301	-.008741	-.035054	.027029	-.015110	.004806
33	-.001463	-.007655	-.035342	.015224	-.016052	.007865
34	-.015700	-.004964	-.038269	.004336	-.013078	.014800
35	-.027676	-.011985	-.037464	-.001203	.000031	.017149
36	-.036887	-.006574	-.041284	-.001354	.014714	.011893
37	-.036316	.002035	-.045026	-.002872	.014515	-.003779
38	-.037771	.004172	-.042786	.002987	.010400	-.016778
39	-.034759	.002281	-.037492	-.003296	.004964	-.021629
40	-.029606	-.017117	-.027838	-.008555	-.002256	-.013962
41	-.026270	-.027849	-.022759	-.008961	-.005319	-.009030
42	-.019477	-.018765	-.023558	-.020043	-.011481	-.009890
43	-.009458	-.005291	-.022099	-.021909	-.012478	-.011309
44	-.003134	-.002157	-.012445	-.021346	-.011697	-.014938
45	.004387	-.010172	-.000475	-.014206	-.010327	-.012465
46	.013741	-.019055	.009099	.002324	-.007771	-.010610
47	.024669	-.023957	.010526	.013334	-.002732	.002712
48	.027761	-.019956	.010729	.017986	.008990	.011035
49	.026656	-.015176	.008973	.004201	.012748	.019268
50	.026359	-.016961	.009584	-.012844	.006067	.026123
51	.022596	-.028231	.016418	-.019065	.003975	.033862
52	.021823	-.027757	.020568	-.017750	.009554	.028403
53	.026266	-.014092	.018356	-.020019	.014200	.018796
54	.025320	-.000467	.009481	-.012596	.014000	.015673
55	.015872	.015113	.000276	.009836	.013258	.010265
56	.006212	.029969	-.002643	.016256	.012840	.001378
57	-.002250	.027871	-.006703	.004591	.014720	-.006723
58	-.006303	.020165	-.010810	.002561	.015764	-.009454
59	-.004036	.009481	-.009440	.011949	.010439	-.015284
60	-.001750	.004998	-.011635	.019588	.007444	-.017968

RUN NO. 66C 16M 05-09-62 1948-2104 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.20235 10E 00	0.11019 10E 00	0.45919 10E-01	0.11603 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.826927	.714983	.589386	.815664
2	.613097	.397371	.248372	.583286
3	.453424	.209343	.072793	.411820
4	.327168	.095857	-.016064	.286489
5	.217187	.024187	-.073791	.189653
6	.130424	-.016575	-.095248	.115782
7	.054992	-.047609	-.097466	.056448
8	.002538	-.074115	-.119150	.005720
9	-.025251	-.083327	-.123652	-.032240
10	-.042699	-.091097	-.132710	-.059049
11	-.071618	-.090566	-.114795	-.084874
12	-.101139	-.081179	-.090259	-.102190
13	-.128824	-.078609	-.078015	-.107323
14	-.152115	-.092739	-.077166	-.121257
15	-.166949	-.106410	-.067437	-.147750
16	-.176722	-.123906	-.047420	-.173295
17	-.186815	-.137207	-.045017	-.201498
18	-.194442	-.131729	-.029210	-.217688
19	-.201873	-.114549	-.013686	-.226749
20	-.209943	-.103150	-.012246	-.215601
21	-.218233	-.093867	-.012252	-.194128
22	-.230388	-.088456	-.010057	-.179546
23	-.230340	-.086825	-.028126	-.171982
24	-.215848	-.084882	-.028570	-.161185
25	-.199307	-.092858	-.040100	-.152699
26	-.197335	-.105357	-.057961	-.151836
27	-.193753	-.116406	-.067516	-.157429
28	-.191270	-.127682	-.086569	-.157581
29	-.182719	-.141781	-.087665	-.146909
30	-.165017	-.138347	-.064520	-.134397
31	-.132222	-.114533	-.026035	-.110253
32	-.106830	-.083931	-.007756	-.090262
33	-.086139	-.049805	.010960	-.075935
34	-.059572	-.016845	.027275	-.061826
35	-.042093	.015663	.040914	-.042291
36	-.032735	.031308	.040572	-.017985
37	-.022643	.032159	.055325	.010930
38	-.010031	.038416	.057445	.028968
39	.004999	.057486	.041071	.031836
40	.023941	.057317	.035194	.024737
41	.037460	.045249	.028211	.022313
42	.053964	.043881	.024722	.022623
43	.064832	.055674	.028237	.021668
44	.072004	.056934	.020696	.013026
45	.074672	.055930	.006981	-.000262
46	.076395	.057592	-.009368	-.011249
47	.077769	.070397	-.035347	-.013962
48	.073129	.081082	-.056215	-.006345
49	.074139	.073422	-.068266	.010475
50	.076433	.056446	-.042857	.027899
51	.076360	.022870	-.011204	.041571
52	.065192	-.014182	.012847	.051475
53	.050998	-.031324	.028457	.053363
54	.042281	-.025602	.010866	.058468
55	.039829	-.012287	-.016402	.074531
56	.036040	-.015059	-.034110	.071651
57	.028654	-.018878	-.023099	.057135
58	.024923	-.015026	-.017259	.034317
59	.023292	.006272	-.002880	.011265
60	.019277	.029941	.026295	-.006441

RUN NO. 66C 16M 05-09-62 1948-2104 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-03	10E-02
0	.013278	-.010464	.024509	-.029918	.020123	-.002436
1	.024001	-.218052	.353722	.277028	.113745	-.040935
2	.032783	-.372083	.471380	.280165	.150001	-.070615
3	.125735	-.467556	.469727	-.322440	.349050	-.102232
4	.123472	-.344762	.316552	-.542241	.516526	-.093997
5	.020794	-.287874	.221498	-.114262	.607326	-.076877
6	-.010327	-.326861	.165264	-.119203	.600481	-.075366
7-8	.007102	-.179027	.124064	-.482146	.268194	-.045370
9-11	.148517	-.169615	.094226	-.559854	.378058	-.033870
12-15	.024969	-.091812	.040513	-.297104	.040075	-.019903
16-20	-.001088	-.048801	.017027	-.158222	.100238	-.017941
21-27	-.002307	-.035480	.015676	-.025272	.026127	-.010322
28-36	-.004675	-.018399	.005800	-.028815	.022532	-.005414
37-47	-.001710	-.009159	.001352	-.004853	.021122	-.003025
48-60	-.001965	-.004242	.000784	-.004443	.002983	-.001046

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-02	10E-02	10E-03	10E-03
1	.107732	.575119	.091304	-.024230	.057575	-.071979
2	.093227	.746808	.132861	-.061347	.256820	-.081278
3	.023655	.611427	.129659	-.102102	.407268	-.160570
4	-.004112	.605494	.062161	-.053007	.205463	-.270601
5	.155575	.794878	.048406	.041256	-.189267	-.345916
6	.198741	.819880	.053299	.082448	-.425312	-.415225
7-8	.058490	.508102	.023995	.066652	-.232115	-.248509
9-11	-.011075	.213637	.024339	.006383	.159165	-.173462
12-15	.006388	-.017521	.006239	-.017296	.018836	-.067895
16-20	.012910	-.037129	.006540	.001399	-.041803	-.081742
21-27	-.000164	-.020376	.005258	.004628	-.025964	-.024747
28-36	-.000031	-.008920	.002726	-.000597	.001785	-.008146
37-47	.001685	-.003545	.000121	.004983	-.007916	-.000867
48-60	-.000346	-.004057	.000004	.001845	-.001564	-.002931

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.012575	.002485	.006891	.008282
1	.196489	.051283	.096121	.108724
2	.291350	.088367	.167501	.151430
3	.309663	.105535	.252392	.165916
4	.200255	.076828	.247383	.117691
5	.142997	.069700	.258200	.081427
6	.128022	.074158	.319512	.070573
7-8	.100045	.054311	.247416	.052750
9-11	.066371	.050138	.191937	.043168
12-15	.037731	.029170	.143118	.021287
16-20	.020097	.023608	.118467	.016318
21-27	.016524	.014709	.076370	.009663
28-36	.009635	.009396	.059949	.005934
37-47	.006161	.006092	.041583	.003568
48-60	.003761	.003595	.031373	.002208

RUN NO. 66C 16M 05-09-62 1948-2104 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.71899 10E-01	0.37976 10E-01	0.33127 10E-01	0.21317 10E-01	0.18595 10E-01	0.98215 10E-02
0	.047075	-.465395	.705114	-.029654	.077437	-.442275
1	.050013	-.026474	.251136	-.012542	.006553	-.004310
2	-.019615	.057709	.016858	-.006506	.006479	-.009750
3	.025136	-.066585	-.065903	-.059263	-.012519	.006513
4	.006463	-.015553	-.087815	-.077196	.013621	-.020910
5	-.041797	-.019121	.008034	.054730	-.049685	.007296
6	-.032109	.030101	-.027107	.056741	.015635	.012530
7	-.006986	-.055366	.015632	.044650	.002631	-.017772
8	-.058356	.083105	-.080211	.018677	-.022060	.053393
9	-.007683	.086280	-.129078	.021682	.015331	.078653
10	.042263	.018307	-.070785	-.028681	.042308	.037685
11	-.027878	.002398	-.054599	-.033293	-.033754	-.019666
12	-.029593	-.020223	-.065688	-.048974	-.031322	.049096
13	-.024267	.025270	-.089260	.020165	-.030578	.012218
14	-.033901	.070868	-.113405	.067488	-.002270	.047771
15	.010395	.043843	-.070618	-.016088	.010979	.048154
16	-.019927	.003845	-.022179	.038172	.012402	.056306
17	-.005743	-.037553	.066843	.058659	-.005786	-.033394
18	.003878	-.060855	.074974	.023389	-.017075	-.063708
19	.094250	-.088370	.063811	-.051769	.029168	-.084254
20	.050946	.010295	.026175	-.009283	.030698	-.018690
21	.010024	.025731	-.010984	.004431	.026297	-.023437
22	.079513	.035618	-.003427	-.059167	.054521	.063325
23	.015364	-.002474	.014161	-.027315	-.010360	.051685
24	-.023481	.005706	-.008657	-.005042	.025755	.009895
25	-.004661	-.025321	.063395	.055321	-.024737	-.019165
26	-.032794	-.010068	.073882	.008399	-.071146	-.046536
27	.053279	.010234	.005250	.039368	-.012151	.014037
28	-.013555	.071029	-.051153	.004065	-.017508	.073519
29	.011820	.043114	-.067155	.012196	.031191	.078905
30	-.005675	.037258	-.087828	-.020424	.007058	.051754

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-02	10E-02	10E-03	10E-03	10E-03
0	-.075807	-.002765	.009400	-.000451	.008490	-.011619
1	-.336276	-.030957	.097861	-.102571	.008707	-.141503
2	.364339	-.057281	.160476	-.153506	.056040	-.224076
3	.933563	-.087855	.205850	-.149549	.110645	-.293479
4	.441047	-.064923	.142132	-.135146	.022573	-.181047
5	.419959	-.036378	.094915	-.273381	.036818	-.076086
6	.829269	-.056855	.131598	-.217683	.132677	-.139456
7	.332733	-.060513	.155412	.149601	.136157	-.132265
8	-.122641	-.036444	.124264	.337181	.127073	-.066334
9-11	-.079390	-.121963	.160591	.187302	-.001483	-.201226
12-14	.239444	-.074368	.076901	.015411	.059808	-.142025
15-21	.355807	-.080192	.062769	-.166779	.082719	-.193516
22-30	-.371582	-.092817	.070663	.040821	.055438	-.275769

RUN NO. 66C 16M 05-09-62 1948-2104 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.71899 10E-01	0.37976 10E-01	0.33127 10E-01	0.21317 10E-01	0.18595 10E-01	0.98215 10E-02
1	.078158	.053301	.104286	-.003950	.002742	-.077117
2	.058932	.059696	.073683	-.017373	.033903	-.019719
3	.033356	.020201	.039822	.021900	.004361	-.024315
4	-.011693	-.007430	-.010389	-.001706	.045879	-.035652
5	-.003699	-.003088	.017382	-.003945	.037653	-.012911
6	-.002727	.034446	-.019876	.077804	.026817	-.022217
7	-.022696	.049208	-.000274	.039761	.011266	-.032322
8	.022653	.006445	.036577	-.006335	-.019037	-.019788
9	.061238	.031317	.009240	.004582	-.058230	-.040572
10	-.001109	-.046331	.029123	.030714	.002421	.015135
11	-.048317	.029497	-.002077	-.030674	.055493	-.009956
12	-.024626	.007262	-.000968	-.034415	.070137	-.065579
13	.005790	-.009377	.044993	.011026	.040992	-.043217
14	-.036993	-.030070	-.008435	-.040216	.026546	.018337
15	.026467	-.029668	-.072949	-.003564	.007725	.044833
16	-.001373	-.053150	-.006555	-.002887	.025263	.025279
17	-.003728	.029166	-.004838	.001644	-.009119	-.027442
18	.016826	.021702	-.014198	-.041007	-.014610	.047817
19	-.033472	.014773	-.039718	.001894	.005496	.011023
20	.058337	-.029314	-.043557	.001826	-.005933	.032622
21	-.032618	-.058343	-.031205	.006763	-.005283	.023739
22	.006935	.013586	.020991	.034785	-.069235	.021560
23	.016333	.035322	.011891	.009875	.003237	-.025887
24	.067084	.060678	-.007616	-.007123	-.018416	-.045996
25	.064651	-.016461	.019892	.038181	-.042933	-.007585
26	-.051876	.039252	.001121	-.077183	-.023980	-.003437
27	.019425	-.058124	-.029043	-.022926	-.041739	.030094
28	.006680	-.051295	.024357	.019220	-.029852	.022216
29	.008670	-.017859	.016490	-.017675	.013309	.009589
30	.006117	.024532	.018538	.009652	-.039650	-.000440

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-03	10E-03	10E-03	10E-03
1	.016519	.156049	.113309	.041801	.264080	-.118752
2	.018797	.307338	.335032	.128282	.177681	-.140634
3	.054298	.439653	.330717	.209072	.015951	-.105720
4	.051984	.248502	.110401	.102092	.053892	-.017111
5	.032756	.058481	.201468	-.069689	.213448	-.034926
6	.030163	.056587	.401928	-.123276	.218497	-.075003
7	.058373	.189649	.459612	-.148324	.045211	-.053568
8	.114196	.279872	.476293	.076725	-.166614	-.028415
9-11	.073759	.401216	.403338	.013752	-.060881	-.063043
12-14	.024447	.161453	.161190	.074907	.050459	-.000154
15-21	.018923	-.018719	.135058	-.027320	.002226	-.070890
22-30	.019001	.056141	.117312	.051474	-.087191	-.031007

RUN NO. 66C 16M 05-09-62 1948-2104 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12899 10E 00	0.40358 10E-01	0.11259 10E-01	0.85075 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.234265	.114184	-.089650	.377118
2	-.096993	-.052161	.040828	.102968
3	-.175248	-.091023	-.037521	.010370
4	-.110103	.086664	.018670	-.027750
5	.018396	.052772	-.035221	-.012030
6	-.050722	.005665	-.057171	-.032797
7	.026833	-.013119	.032013	-.028250
8	-.035322	-.057403	-.069344	-.081047
9	-.100371	-.056331	-.087185	-.192480
10	-.071337	-.040697	-.054009	-.133587
11	-.034907	-.028015	-.023645	-.104356
12	-.005799	-.059101	-.067035	-.096952
13	-.116918	-.133965	-.017604	-.105766
14	-.202424	-.050887	-.153129	-.122696
15	-.041011	.018651	-.007808	-.108708
16	.087150	-.047271	-.092454	-.105707
17	.104887	-.185313	.063822	.007022
18	.076210	-.107227	.002359	.068884
19	.042381	.056715	.088757	.081321
20	.015779	.037374	-.009860	.069670
21	-.052475	.012866	.041724	.041152
22	-.064960	.043361	-.021794	.032481
23	.011025	.018167	.023977	.032107
24	.025144	-.000126	-.011013	.010040
25	.076871	-.009603	-.024134	.042358
26	.058051	.017047	.027400	.031158
27	-.006586	-.016527	-.032221	-.030870
28	-.032895	-.085355	-.070686	-.068440
29	-.056398	-.013546	-.059792	-.116947
30	-.091601	.103559	.073061	-.111128

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-03
0	.031920	.030072	.023189	.082846
1	.308783	.216027	.293899	.575033
2	.511032	.226804	.442476	.752770
3	.710333	.195493	.531437	.870232
4	.562320	.119501	.358247	.569016
5	.412230	.126288	.279229	.404737
6	.660387	.130392	.377540	.459829
7	.911232	.114775	.364604	.426386
8	.715781	.159116	.285641	.382645
9-11	.889457	.195566	.409989	.465658
12-14	.547109	.217191	.340078	.258279
15-21	.441576	.167242	.512670	.249935
22-30	.472967	.194014	.851444	.251150

RUN NO. 66C 40M 05-09-62 1948-2104 EST

GROSS STATISTICS

CLEAR	WIND SPEED	9.45 M/SEC	WIND DIRECTION	308 DEG
VERY STABLE	SIGMA A	8.3 DEG	SOLAR RADIATION	0
LAND	SIGMA E	2.3 DEG	NET RADIATION	-0.16

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.36893E-00	0.16361E-00	0.13813E-00	0.95512E-01
V	0.62352E 00	0.95974E-01	0.93486E-01	0.34218E-01
W	0.49329E-01	0.46210E-01	0.46069E-01	0.12347E-01
T	0.92150E-01	0.12470E-01	0.97617E-02	0.74972E-02
E	0.52089E 00	0.15291E-00	0.13884E-00	

GUSTINESS RATIOS				
U	0.11145	0.07422	0.06819	0.05671
V	0.14489	0.05684	0.05610	0.03394
W	0.04075	0.03944	0.03938	0.02039

COVARIANCES				
U,V	-0.54375E-01	0.17857E-01	0.14087E-01	0.94376E-02
U,W	-0.29391E-01	-0.31305E-01	-0.28852E-01	-0.14653E-01
U,T	-0.41827E-01	0.27891E-01	0.20283E-01	0.19696E-01
V,W	-0.28359E-01	-0.11819E-01	-0.11759E-01	-0.40083E-02
V,T	0.16184E-00	0.49253E-02	0.33977E-02	0.23347E-02
W,T	-0.13878E-01	-0.80404E-02	-0.75078E-02	-0.37629E-02
WE	-0.15448E-01	0.28726E-02	0.21728E-02	

NORMALIZED COVARIANCES				
U,V	-0.11337	0.14250	0.12396	0.16508
U,W	-0.21786	-0.36003	-0.36169	-0.42668
U,T	-0.33532	0.61748	0.55236	0.73604
V,W	-0.16170	-0.17747	-0.17919	-0.19501
V,T	0.67519	0.14237	0.11247	0.14577
W,T	-0.20583	-0.33494	-0.35404	-0.39110

RUN NO. 66C 40M 05-09-62 1948-2104 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11365 10E 00	0.79761 10E-01	0.36721 10E-01	0.65626 10E-01	0.30213 10E-01	0.21204 10E-01
0	.124172	-.361603	.552273	-.178987	.112553	-.354116
1	.104784	-.287837	.507253	-.112662	.083366	-.277676
2	.059454	-.173337	.410877	-.036148	.040258	-.164041
3	.012644	-.098469	.313719	.008525	.011370	-.007668
4	-.013854	-.065516	.241493	.022035	-.010787	-.052490
5	-.031039	-.048607	.182916	-.016803	-.021706	-.025133
6	-.038992	-.012441	.131157	.011279	-.026434	-.005079
7	-.038375	.020704	.085258	-.004999	-.029301	.010777
8	-.032424	.038662	.049504	-.010554	-.026805	.024534
9	-.028988	.044395	.021133	-.003429	-.017006	.031971
10	-.027252	.050016	.002403	.010256	-.010872	.032416
11	-.021529	.051693	-.012490	.008032	-.008242	.031553
12	-.007100	.043877	-.030122	.008576	.001410	.038413
13	.003272	.041139	-.048804	.004141	.008093	.040088
14	.004793	.045887	-.071045	-.002898	.010639	.049805
15	.002948	.057134	-.090882	-.018009	.013816	.055461
16	.009707	.064699	-.108809	-.021126	.016977	.054340
17	.012660	.068483	-.121941	-.010845	.008587	.053620
18	.016896	.066249	-.134942	.001801	-.001832	.055753
19	.013536	.060508	-.134841	.008911	-.000181	.047166
20	.012898	.060215	-.123604	.017337	.004862	.038290
21	.009952	.042120	-.112194	.024814	.009539	.031898
22	.007842	.031360	-.104872	.032259	.005868	.027824
23	.011477	.022224	-.098816	.024924	-.006062	.030707
24	.005827	.010422	-.097556	.016666	-.010999	.028966
25	-.004954	.002697	-.104782	.018393	-.010852	.021639
26	-.008179	-.002046	-.112691	.031542	-.006367	.017050
27	-.004333	.007249	-.120257	.029748	.003516	.017046
28	-.004371	.015292	-.116726	.036322	.011285	.017024
29	-.003673	.008762	-.108509	.032724	.013246	.019504
30	-.002330	.018088	-.103392	.037447	.005394	.013780
31	-.003370	.011802	-.101355	.017927	.001942	.007101
32	.007260	-.006197	-.097658	-.007786	.004144	.009035
33	.018814	-.014918	-.098188	-.020938	.003780	.015681
34	.028143	-.013078	-.098765	-.023102	-.002666	.020108
35	.023249	.009316	-.097222	-.005692	-.006552	.016837
36	.006976	.027966	-.093027	.012282	-.001785	.018314
37	-.002489	.039313	-.088477	.019425	-.005812	.022033
38	-.008148	.048678	-.083626	.019662	-.009762	.022099
39	-.013763	.040197	-.073774	.007274	-.017436	.019119
40	-.019454	.027276	-.068537	-.019340	-.021231	.015580
41	-.016456	.015532	-.061489	-.020125	-.018847	.011095
42	-.011680	.000178	-.048286	-.008433	-.014118	.012368
43	-.011198	-.000993	-.038562	-.002861	-.007244	.015037
44	-.009083	-.001135	-.027523	.002734	-.002526	.015556
45	-.006273	-.013270	-.011571	.008489	-.001375	.014321
46	-.012047	-.027123	.005246	-.006499	.002734	.008945
47	-.019111	-.031606	.015797	-.021373	.009888	.002214
48	-.026170	-.030937	.016586	-.029415	.008633	-.004820
49	-.027220	-.035982	.017605	-.016393	-.002769	-.009164
50	-.027547	-.033464	.021344	.001608	-.024690	-.006340
51	-.013353	-.026310	.029709	.007626	-.032171	-.003520
52	-.003707	-.020708	.038857	.003769	-.026656	-.008854
53	-.004717	-.013602	.047874	-.012331	-.010896	-.023137
54	-.010405	-.003371	.051353	-.022089	-.001539	-.036909
55	-.018467	.003473	.050782	-.014110	-.005736	-.043594
56	-.025219	.009069	.045176	-.008354	-.017755	-.037797
57	-.019431	.003857	.038827	-.001876	-.022303	-.026598
58	-.013731	.005016	.034521	-.008752	-.025505	-.024772
59	-.016033	.017989	.037406	-.005475	-.023278	-.025008
60	-.015865	.019492	.038589	.001911	-.024428	-.018280

RUN NO. 66C 40M 05-09-62 1948-2104 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11365 10E 00	0.79761 10E-01	0.36721 10E-01	0.65626 10E-01	0.30213 10E-01	0.21204 10E-01
1	.019521	-.037854	.069020	-.001151	.018387	-.043501
2	.022277	-.006106	.099236	-.013215	.027600	-.041566
3	.014479	-.006421	.108160	-.025837	.026370	-.025659
4	-.000743	-.003497	.102768	-.025990	.022182	-.011700
5	-.008690	-.005613	.095813	-.022188	.018144	.001017
6	-.008046	-.016396	.087485	-.011490	.013400	.006247
7	-.004249	-.018938	.074387	-.007853	.009090	.006127
8	.000272	-.009468	.064489	-.016935	-.004747	.001700
9	.000034	-.012197	.053931	-.023922	-.017921	-.002214
10	-.004670	-.006996	.047115	-.029506	-.017616	-.003726
11	-.009443	.003740	.042273	-.029631	-.005357	.006111
12	-.009743	-.001777	.042639	-.034709	.004178	.013886
13	.001443	-.011580	.050544	-.028130	.008098	.016563
14	.003699	-.017191	.052282	-.024926	.002465	.018606
15	.002507	-.019405	.050429	-.023250	-.000448	.019310
16	-.010722	-.003425	.041382	-.019579	-.003287	.013084
17	-.020467	.002188	.033948	-.012524	-.006592	.014046
18	-.028804	-.000641	.030240	.001433	-.006455	.018990
19	-.029212	-.013337	.027729	.011393	-.007339	.012174
20	-.029610	-.021602	.025750	.007641	-.003763	.003774
21	-.020878	-.014918	.020831	.000041	-.000061	.004661
22	-.009702	-.006300	.016906	.005232	.002205	.000217
23	.007067	-.007209	.015469	.018003	.006216	-.003216
24	.021310	-.006005	.018017	.011776	.003171	-.001844
25	.025227	-.004680	.020117	.005783	-.002551	.000674
26	.012800	-.011239	.020335	.004340	-.005152	.009125
27	.001614	-.013178	.016946	.017739	-.011201	.008842
28	-.006086	-.004520	.013962	.022243	-.011333	.001926
29	-.003000	.012575	.009445	.016872	-.010542	-.008816
30	.006553	.019233	.007560	.008518	-.012371	-.012762
31	.020507	.006923	.009151	.012100	-.013278	-.004334
32	.035135	-.006896	.007942	.017837	-.013732	.001568
33	.034558	-.008025	.008036	.019638	-.004195	.002034
34	.027476	-.010710	.001090	-.025726	.005874	.006705
35	.024304	-.004151	-.008261	.030595	.010912	.007224
36	.029639	.004162	-.020775	.038208	.007765	.000283
37	.032153	.005068	-.036740	.035659	-.003086	.000796
38	.025175	.012292	-.045295	.014034	-.006479	.008430
39	.016992	.005993	-.046174	-.012153	-.001611	.025604
40	.008122	-.011669	-.048317	-.027881	.005362	.036021
41	.000701	-.027854	-.044495	-.031885	.007504	.037321
42	-.000334	-.036472	-.038708	-.031068	.007468	.028253
43	-.005334	-.026605	-.033189	-.034445	.005685	.021549
44	-.001640	-.012598	-.023927	-.024062	.010371	.014587
45	.002556	.004485	-.017932	-.013556	.009648	.009200
46	-.005448	.016699	-.017152	.002253	.006508	.000371
47	-.008816	.029315	-.022619	.022255	-.002196	-.010694
48	.002270	.036914	-.028087	.041246	-.011135	-.018304
49	.011476	.024401	-.028487	.036451	-.005903	-.021365
50	.010845	.002315	-.020577	.010668	.003526	-.026796
51	.005994	-.004557	-.012422	-.016379	.014588	-.031465
52	.001994	-.003088	-.006484	-.027758	.016174	-.034687
53	.002261	.011215	-.005519	-.027113	.011727	-.034582
54	.008207	.017336	-.009619	-.012746	.001999	-.026937
55	.014161	.018993	-.012566	-.001019	-.010773	-.019870
56	.015993	.012882	-.010629	-.000068	-.016451	-.007509
57	.007161	.014045	-.005842	.000807	-.015640	-.006529
58	-.000843	.022936	-.001787	-.000725	-.017343	-.010874
59	-.017581	.031496	-.005919	-.003314	-.023440	-.006155
60	-.028864	.029447	-.009572	-.015067	-.026624	-.004345

RUN NO. 66C 40M 05-09-62 1948-2104 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.13812 10E 00	0.93507 10E-01	0.46058 10E-01	0.97622 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.805237	.674608	.569100	.838658
2	.577577	.337260	.218930	.613105
3	.407743	.159180	.062173	.427469
4	.284617	.073433	-.003482	.292391
5	.181962	.029491	-.018123	.195042
6	.103439	.004617	-.027094	.122116
7	.043039	-.009903	-.044131	.062117
8	.000840	-.019635	-.034693	.013025
9	-.034153	-.045223	-.047997	-.017574
10	-.052969	-.057999	-.082367	-.031036
11	-.062845	-.066392	-.096327	-.043504
12	-.076525	-.090901	-.100334	-.060845
13	-.094047	-.118803	-.104726	-.082714
14	-.116471	-.121846	-.099270	-.112229
15	-.133693	-.094854	-.083900	-.140030
16	-.152722	-.069433	-.082793	-.160265
17	-.161524	-.086817	-.081852	-.178722
18	-.163321	-.115778	-.093268	-.189213
19	-.165951	-.131855	-.085237	-.191079
20	-.161649	-.126385	-.079243	-.184732
21	-.151597	-.115801	-.071351	-.174927
22	-.141849	-.123773	-.060890	-.162856
23	-.133728	-.148162	-.057573	-.157643
24	-.135625	-.163306	-.047752	-.162787
25	-.143272	-.169504	-.043642	-.170575
26	-.153788	-.144051	-.028547	-.171866
27	-.159792	-.114072	-.017928	-.166157
28	-.154757	-.107513	-.024716	-.151673
29	-.141402	-.097693	-.046769	-.132623
30	-.128107	-.091834	-.048063	-.118643
31	-.104599	-.055187	.003537	-.105695
32	-.083309	-.015908	.034033	-.098902
33	-.071786	.008310	.029121	-.093443
34	-.079250	.029551	.010264	-.089138
35	-.085476	.043619	-.005756	-.085276
36	-.084831	.039878	-.006673	-.081766
37	-.088641	.034762	-.009604	-.079315
38	-.093190	.039599	-.022308	-.076017
39	-.089916	.027208	.006911	-.071120
40	-.078141	.025318	.030397	-.070069
41	-.060721	.029733	.023809	-.064736
42	-.036366	.040108	.007964	-.055650
43	-.016678	.052453	-.009911	-.045474
44	.001017	.067461	-.014479	-.039258
45	.019832	.063255	.006034	-.029358
46	.032997	.039787	.004801	-.019938
47	.042067	.021068	.013455	-.011323
48	.051441	.046135	.022669	-.002116
49	.048407	.059937	.015970	.009587
50	.051389	.045381	.005677	.014856
51	.052275	.029626	.001463	.021648
52	.052532	.035501	-.001140	.041120
53	.045806	.043484	.001208	.067148
54	.028828	.046894	.003420	.079452
55	.007072	.049979	.004145	.085524
56	.002386	.036648	.009013	.084047
57	.011408	.004259	.018078	.079463
58	.006761	-.028751	.034164	.081209
59	-.003825	-.042095	.041076	.086511
60	-.004864	-.040550	.050016	.080611

RUN NO. 66C 40M 05-09-62 1948-2104 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-03	10E-03
0	.014409	-.015327	.028817	-.038873	.039316	-.033596
1	.054288	-.167774	.328570	-.522636	.178415	-.479844
2	.014603	-.238354	.372067	-.737168	.085357	-.636944
3	.029893	-.303487	.324177	-.645551	.068576	-.741288
4	.079465	-.311283	.225781	-.218927	.142282	-.719950
5	.103695	-.265488	.172092	-.181575	.190912	-.604100
6	.149221	-.169510	.115465	-.502700	.226029	-.453517
7-8	.154160	-.150941	.079939	-.701432	.338054	-.374460
9-11	.098124	-.125122	.067605	-.445682	.216539	-.321144
12-15	.053459	-.054370	.024945	-.582890	.109358	-.199538
16-20	.031912	-.056860	.018230	-.379002	.074514	-.149742
21-27	.009615	-.043960	.008864	-.201437	.048781	-.097686
28-36	.003207	-.013085	.002605	-.142945	.021197	-.049336
37-47	-.001752	-.006299	.000161	-.065245	.018905	-.015591
48-60	.000666	-.003817	.000374	-.052500	.004205	-.011403

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-02	10E-03	10E-03	10E-03
1	.165131	-.511875	.091093	-.104159	-.047303	.121899
2	-.522683	-.351361	.101886	-.465185	-.006139	.046259
3	-.482692	-.224666	.079721	-.774667	.066098	.024363
4	.360695	-.112289	.055250	-.453823	.069787	-.005795
5	.525818	.017847	.060497	-.038184	.046381	-.115339
6	.057377	-.122309	.047618	-.051912	.094464	-.093081
7-8	-.065421	-.094381	.038332	.127028	.126114	-.067812
9-11	.267660	-.002633	.034325	-.140465	.118198	-.038402
12-15	.079359	.027980	.013581	-.107142	.035531	-.081588
16-20	.346515	-.082093	.009688	.014927	-.000706	-.067990
21-27	.044389	-.023737	.004435	.083401	.030593	-.031736
28-36	.007011	.027067	.002015	.001733	-.000680	-.017724
37-47	.014582	-.034910	.001137	.019351	-.001253	-.013320
48-60	.019589	-.011715	.000594	-.005026	.001680	-.001016

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.012718	.018958	.007206	.009324
1	.145969	.407367	.125938	.112204
2	.178305	.735288	.212700	.134929
3	.173869	.908134	.301293	.130756
4	.130870	.625417	.292099	.096631
5	.105599	.442026	.243312	.070685
6	.083688	.492842	.211227	.055879
7-8	.068147	.468955	.190210	.047767
9-11	.050490	.313554	.166030	.037405
12-15	.025639	.306272	.156926	.018421
16-20	.017980	.201756	.118777	.012868
21-27	.011648	.153949	.091097	.007319
28-36	.007691	.099906	.059961	.003751
37-47	.004658	.060046	.047533	.002289
48-60	.003265	.036818	.031153	.001495

RUN NO. 66C 40M 05-09-62 1948-2104 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.57198 10E-01	0.34336 10E-01	0.26770 10E-01	0.20548 10E-01	0.16020 10E-01	0.96167 10E-02
0	.164999	-.426748	.735766	-.195071	.145740	-.391284
1	.079981	-.074862	.373258	-.032578	.075193	-.043737
2	.081882	-.033466	.130062	-.001495	.055299	-.018717
3	.053028	-.004051	-.031841	.015557	.031406	.027884
4	.002993	.074474	-.099002	.029467	.019970	.050005
5	-.016064	.042813	-.093467	.025245	-.003877	.058905
6	-.029810	.072062	-.062557	-.019596	-.006059	.031211
7	.018348	.043184	-.043570	.062759	.011261	.036940
8	.026923	.041064	-.090237	-.057531	.086502	.048523
9	-.008617	.066285	-.111520	.020753	.026248	.080238
10	-.020802	.086616	-.108354	.057819	.028157	.047921
11	-.034678	.028750	-.093293	-.004593	.014585	.008643
12	.018326	.014306	-.051678	.016759	-.027858	-.005326
13	-.010504	.051375	-.067641	-.013936	.031774	-.007090
14	-.010165	-.020846	-.064214	-.041331	-.028743	-.017259
15	-.116170	.007689	-.067253	.052207	-.091870	.015677
16	-.081378	-.045146	-.036689	.039893	-.090371	-.049600
17	-.035268	-.047856	-.050313	-.097829	-.055339	-.055527
18	-.104246	-.005849	-.009636	.039362	.077686	-.030018
19	-.059105	.065594	-.037337	.015292	-.071262	.036917
20	.007656	-.019410	.030795	.015759	-.033468	.022401
21	.009846	-.016313	.064555	-.010023	-.030198	.002136
22	.025137	-.027764	.015344	-.006927	-.032981	-.008220
23	.014225	-.091712	.028052	-.051425	-.009176	-.098313
24	-.023988	-.016817	-.001449	.009771	-.024193	-.015408
25	.054842	-.054014	.035068	-.062526	-.006977	-.021560
26	.025484	-.067916	.019320	-.001124	-.066733	-.023300
27	.017894	-.044365	.059848	-.024048	-.020997	-.043572
28	.024432	-.114329	.110239	-.049943	-.040295	-.072177
29	-.040481	-.020755	.057919	.017309	-.063914	.001291
30	.006499	.075686	.017139	.001037	-.000198	.055807

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-03	10E-03
0	.018785	.007440	.007940	-.017941	.095153	.003871
1	.175615	-.001800	.115856	-.085802	.636314	.007203
2	.166814	-.073071	.176566	-.154575	.380950	-.105166
3	.084179	-.129884	.209378	-.216371	.023685	-.255714
4	.042315	-.123516	.174976	-.223364	-.011399	-.306375
5	.103415	-.088440	.156673	-.222229	.229332	-.239006
6	.090288	-.058835	.146998	-.179785	.275301	-.147317
7	.032784	-.078927	.132200	-.225376	.160849	-.169090
8	.040477	-.091247	.132971	-.271309	.121597	-.184623
9-11	.010736	-.054632	.108290	-.204533	.007969	-.189800
12-14	-.009800	-.034730	.043943	-.159286	.060843	-.081225
15-21	.020016	-.054010	.040003	-.133012	.030363	-.144955
22-30	.035510	-.072547	.038621	-.185092	.080400	-.205326

RUN NO. 66C 40M 05-09-62 1948-2104 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.57198 10E-01	0.34336 10E-01	0.26770 10E-01	0.20548 10E-01	0.16020 10E-01	0.96167 10E-02
1	.001559	.030393	.097203	-.080543	.004079	-.009490
2	.018403	-.031242	.100956	-.022050	-.001362	-.009454
3	.042032	-.005752	.102964	.068143	-.027722	-.004350
4	.042188	.004441	.037625	-.021002	.030122	-.000977
5	-.045228	.021580	.007911	-.008872	.050129	-.022779
6	-.057750	.059165	.019138	-.011205	.009154	-.070091
7	-.069481	.010215	.011096	.005919	.075359	-.021887
8	-.069642	.037214	.051749	.053753	.055230	-.059718
9	-.008953	.072495	.007041	.095994	.047733	-.041463
10	-.013721	.072356	-.006053	.047099	-.036129	.007879
11	.065309	-.036663	.002503	-.032978	-.081611	-.006340
12	.01901	.017731	-.020066	.024261	-.059377	.004436
13	.066894	-.000484	-.035614	.035196	-.045795	-.008436
14	.037948	-.024536	.001421	.052866	.004950	-.003332
15	-.043035	-.035107	.026206	-.031722	.006313	.022426
16	-.015414	-.037356	-.008542	-.051230	-.003224	.052789
17	-.024746	-.042108	-.023708	-.012815	.033234	.003435
18	-.021891	-.093101	-.022093	-.056370	.013974	.019027
19	.042092	-.067142	-.014651	.020403	-.063623	.058029
20	.010085	.023259	-.027010	.009171	-.056500	.008255
21	-.002716	.023414	-.014260	-.020649	-.052731	-.002792
22	-.022151	-.015619	.002727	.027971	-.057331	.009931
23	.014322	-.015034	-.033700	-.019471	-.015357	.025793
24	.068750	.002376	-.018537	-.062461	-.066467	.006412
25	.032216	-.035749	-.021945	-.042585	-.050616	.042703
26	-.004838	.005895	.003043	-.032478	.027974	.017150
27	-.035018	.033994	.010154	.006480	.017066	-.007216
28	-.034473	.019632	-.016869	.084618	.051675	-.001090
29	.011133	.084226	.007855	.079173	.003793	-.038048
30	.014926	.029839	.010457	-.075201	-.009748	-.067682

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-03	10E-03	10E-03	10E-03
1	.012264	.151593	.219140	.225906	-.050290	-.070600
2	-.026892	.521900	.421149	.224370	.159606	-.139904
3	-.060637	.436045	.511264	.038316	.199951	-.116676
4	-.045748	-.208184	.467807	-.196036	.160353	-.008407
5	.056451	-.409240	.423610	-.221019	.002952	.046676
6	.151673	-.152494	.345271	-.049591	-.290790	.046429
7	.117121	-.083159	.339731	.027093	-.262997	.047905
8	.003516	-.067012	.438846	-.006302	.008233	.032087
9-11	-.023682	-.023380	.323573	-.018996	.061122	-.038537
12-14	-.041609	.130064	.065150	-.308762	-.041989	-.011987
15-21	.003502	.145488	.008775	-.184615	.069812	.012981
22-30	-.003758	.082153	.088078	.096827	-.036397	-.008771

RUN NO. 66C 40M 05-09-62 1948-2104 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVIANCE

M	U	V	W	T
	0.95578 10E-01	0.34229 10E-01	0.12335 10E-01	0.74976 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.379938	.151361	-.030343	.435255
2	.118955	-.032841	-.005935	.167873
3	-.056598	-.007382	.052409	.005744
4	-.143601	-.021246	-.045557	-.091376
5	-.097473	.056875	-.012634	-.079487
6	-.131401	.039983	.051772	-.037361
7	-.006181	.010362	-.112394	-.059100
8	-.066044	-.029180	-.049391	-.134623
9	-.105621	.003695	-.058816	-.119577
10	-.100448	.022197	-.128726	-.148734
11	-.120552	.046302	-.030448	-.130108
12	-.055764	-.054732	-.080521	-.063128
13	-.116747	-.090805	-.134723	-.099461
14	-.054545	-.057284	.014950	-.100614
15	-.055683	-.089841	-.022033	-.079443
16	-.047680	-.112969	-.028595	-.035016
17	-.041743	-.021170	.004813	-.036389
18	-.031632	-.087833	-.086977	-.011437
19	-.005344	-.018570	-.040447	-.020606
20	.053084	-.013629	.009892	-.018180
21	.063283	-.071078	-.031748	.027502
22	-.006576	-.088884	.012296	.003605
23	.065463	-.022525	.159093	.040301
24	-.001980	-.015971	-.024402	.038749
25	.063141	-.047428	.085742	.016227
26	.102648	-.064615	.090993	-.016919
27	.073839	-.069823	.004837	.045063
28	.101961	.019824	.164403	.145286
29	.051862	.051236	.031463	.071687
30	.029768	-.010589	-.103228	-.018385

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-03
0	.038031	.046831	.016687	.054367
1	.446013	.263776	.372256	.513960
2	.688057	.194314	.599679	.676197
3	.824137	.126847	.644955	.766678
4	.691753	.096031	.478566	.618913
5	.652618	.125197	.370670	.502305
6	.672451	.159362	.272706	.454213
7	.663091	.148915	.351232	.438571
8	.642521	.124203	.446442	.432976
9-11	.464729	.167711	.434364	.385403
12-14	.252304	.153067	.440521	.178436
15-21	.245777	.141187	.624130	.187990
22-30	.300325	.152562	.769261	.188988

RUN NO. 66C 16M 05-09-62 1948-2104 EST
 RUN NO. 66C 40M 05-09-62 1948-2104 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.066501	.435267	.001573	.116273
1	.221888	.284901	.308809	.293234
2	.112277	.324331	.284421	.190845
3	.085094	.298955	.316883	.112872
4	.113209	.241867	.371277	.096516
5	.155864	.231601	.262978	.072140
6	.128538	.166524	.151088	.163698
7-8	.078685	.061596	.159295	.187801
9-11	.132027	.044654	.131962	.117561
12-15	.095155	.074449	.108224	.081686
16-20	.095711	.094982	.120669	.050840
21-27	.091101	.102190	.122699	.144107
28-36	.152295	.131079	.103870	.133152
37-47	.085638	.087578	.094084	.107518
48-60	.098720	.092456	.124564	.094829

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.458476	.780895	.022183	.438088
1	.181994	.752324	.276186	.436788
2	.162856	.676981	.359463	.404513
3	.187334	.605456	.293205	.398254
4	.306242	.518713	.105840	.446182
5	.555592	.362769	.165453	.587191
6	.239820	.217806	.194709	.376456
7	.025659	.246909	.282619	.187858
8	.274177	.316308	.309569	.320282
9-11	.219728	.333494	.438912	.197103
12-14	.300409	.258499	.228175	.147839
15-21	.291165	.301024	.325744	.232259
22-30	.198233	.294923	.356711	.219889

RUN NO. 660 16M 05-09-62 2110-2234 EST

GROSS STATISTICS

CLEAR	WIND SPEED	4.01 M/SEC	WIND DIRECTION	294 DEG
STABLE	SIGMA A	8.0 DEG	SOLAR RADIATION	0
LAND	SIGMA E	4.2 DEG	NET RADIATION	-0.16

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
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VARIANCES

U	0.56176E 00	0.42563E-00	0.35238E-00	0.25618E-00
V	0.30381E-00	0.18051E-00	0.16652E-00	0.67501E-01
W	0.85308E-01	0.84332E-01	0.80559E-01	0.23135E-01
T	0.44560E-01	0.22754E-01	0.19190E-01	0.12317E-01
E	0.47544E-00	0.34524E-00	0.29973E-00	

GUSTINESS RATIOS

U	0.18691	0.16269	0.14803	0.12622
V	0.13745	0.10595	0.10176	0.06479
W	0.07284	0.07242	0.07078	0.03793

COVARIANCES

U,V	0.11774E-00	0.72374E-02	0.22551E-02	0.83857E-02
U,W	-0.69682E-01	-0.75313E-01	-0.66514E-01	-0.36940E-01
U,T	0.10799E-00	0.60249E-01	0.46539E-01	0.40452E-01
V,W	0.20952E-02	-0.68553E-02	-0.53822E-02	-0.19433E-02
V,T	0.54740E-01	0.62937E-02	0.52199E-02	0.32131E-02
W,T	-0.14423E-01	-0.17033E-01	-0.15787E-01	-0.74713E-02
WE	-0.19866E-01	-0.93637E-02	-0.54698E-02	

NORMALIZED COVARIANCES

U,V	0.28499	0.02611	0.00931	0.06377
U,W	-0.31831	-0.39752	-0.39478	-0.47983
U,T	0.68255	0.61222	0.56596	0.72013
V,W	0.01301	-0.05556	-0.04647	-0.04917
V,T	0.47047	0.09820	0.09234	0.11143
W,T	-0.23394	-0.38883	-0.40152	-0.44260

RUN NO. 66D 16M 05-09-62 2118-2234 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.24230 10E 00	0.16852 10E 00	0.22251 10E-01	0.11583 10E 00	0.56535 10E-01	0.39319 10E-01
0	.009444	-.394858	.565950	-.046595	.092380	-.401361
1	.010085	-.332251	.521409	-.025115	.076050	-.313798
2	.013983	-.237626	.431896	-.001386	.050652	-.203330
3	.017153	-.167119	.342116	.007748	.026431	-.138420
4	.013363	-.113914	.261415	.014078	.006635	-.094217
5	.008429	-.056153	.190242	.004366	-.003559	-.057353
6	.001550	-.018681	.129356	.005213	-.013184	-.020665
7	-.006739	.000668	.077484	.022236	-.023333	.007291
8	-.012244	.018918	.037020	.030724	-.033607	.020191
9	-.015126	.028730	.001558	.030882	-.038426	.031554
10	-.017376	.035925	-.032270	.032562	-.036375	.046063
11	-.014816	.039041	-.066112	.024476	-.039229	.055873
12	-.006971	.052468	-.099733	.018485	-.039148	.059974
13	-.001444	.061929	-.127071	.001810	-.031555	.052331
14	-.000536	.069601	-.144825	-.015182	-.026074	.048369
15	-.001988	.082429	-.157265	-.021221	-.028178	.047238
16	-.007587	.095371	-.172502	-.019172	-.031544	.059494
17	-.005502	.101215	-.181584	-.017153	-.029169	.076446
18	.000182	.107653	-.193715	-.021217	-.026136	.092123
19	.006359	.102714	-.203091	-.022123	-.014641	.102658
20	.007357	.093758	-.201254	-.024967	.005203	.099114
21	.001534	.090404	-.193080	-.025430	.012977	.088773
22	.002509	.087006	-.182590	-.009281	.013703	.082976
23	.008388	.073709	-.169315	-.001156	.016383	.077394
24	.007296	.057035	-.150705	.006307	.015223	.070017
25	.011459	.044936	-.131389	.006648	.015974	.059328
26	.019236	.037217	-.115718	.001310	.026048	.052651
27	.020608	.030674	-.103419	-.000610	.026126	.046391
28	.018615	.024787	-.088700	-.005639	.028376	.032713
29	.011674	.029194	-.065586	-.004986	.025566	.025134
30	.008784	.012910	-.030065	-.005119	.018122	.013948
31	.010115	-.005380	.001902	-.013041	.019418	.001802
32	.007203	-.018827	.028736	-.024388	.029125	-.019745
33	-.001873	-.020237	.043696	-.028800	.028620	-.029522
34	-.012085	-.019115	.047373	-.015376	.023334	-.026981
35	-.008328	-.013469	.048196	-.007672	.015497	-.022989
36	.000413	-.013531	.045586	-.010433	.010516	-.019584
37	-.003250	-.018107	.038891	-.016982	.010682	-.016270
38	-.013295	-.013972	.035481	-.004661	.008868	-.014271
39	-.021866	-.008253	.032477	.016276	.008614	-.010433
40	-.027609	-.000637	.028364	.023252	.009657	-.011844
41	-.022594	.004673	.015648	.024157	.013864	-.010040
42	-.020876	.009330	.002321	.031425	.014929	-.002247
43	-.018885	.015623	-.002961	.027026	.006548	.000183
44	-.014589	.003969	.003476	.033007	-.011209	-.000299
45	-.007963	-.021104	.013816	.030841	-.020872	-.011575
46	.004747	-.032884	.019258	.020069	-.030918	-.020118
47	.010142	-.033058	.021253	.007675	-.033194	-.025800
48	.012582	-.021723	.025130	-.004154	-.028444	-.034304
49	.014071	-.013752	.024802	-.000590	-.028000	-.027448
50	.015011	-.001470	.018449	.003919	-.020625	-.010129
51	.018164	-.001108	.016708	-.003053	-.008385	-.008135
52	.015733	.008208	.013514	-.005918	-.002510	-.006525
53	.013645	.012455	.007327	-.003703	.001803	.000181
54	.015632	.017035	-.000133	-.007578	.005343	-.004067
55	.016159	.009275	-.003653	-.012741	.004531	-.015365
56	.010541	-.002708	-.001558	-.008440	-.001252	-.022165
57	.005496	-.015026	-.000967	-.009163	-.011479	-.016359
58	.005497	-.021416	-.003416	-.017400	-.016047	-.003185
59	-.000967	-.017410	-.001589	-.020376	-.017740	.002295
60	-.001392	-.016730	.000393	-.013497	-.028966	.003947

RUN NO. 66D 16M 05-09-62 2118-2234 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.24230 10E 00	0.16852 10E 00	0.82251 10E-01	0.11583 10E 00	0.56535 10E-01	0.39319 10E-01
1	.009615	.002687	.028524	.013451	.005475	-.081125
2	.023797	.017749	.051673	.011812	.005417	-.105258
3	.026530	.030838	.064605	-.002024	.011779	-.107831
4	.026781	.041026	.072788	-.003321	.015959	-.097441
5	.023942	.038557	.075180	-.000010	.014571	-.098625
6	.016189	.046171	.078556	-.007330	.016392	-.104289
7	.015177	.043065	.080764	-.017489	.013058	-.091482
8	.016498	.036309	.080465	-.018458	.002277	-.073195
9	.023967	.029010	.079536	-.019620	-.005210	-.064391
10	.030951	.030700	.069277	-.018656	-.014368	-.062598
11	.039225	.038025	.062336	-.012450	-.022377	-.055462
12	.040045	.043678	.050988	-.011046	-.029535	-.048199
13	.038818	.046068	.038388	-.016580	-.030418	-.045296
14	.035372	.037989	.031331	-.023196	-.023013	-.051813
15	.033431	.030653	.029304	-.011145	-.012981	-.059483
16	.024369	.033806	.032942	-.009501	-.009372	-.055295
17	.014332	.039913	.032959	-.004450	-.007490	-.046422
18	.014668	.041250	.025360	-.001709	-.012295	-.036335
19	.011006	.033418	.015241	-.006569	-.011762	-.026014
20	.000160	.027118	.006518	-.016243	-.004134	-.015623
21	-.006359	.020899	.002062	-.012014	.003095	.001961
22	-.009216	.009858	-.002102	.004291	.007785	.019774
23	-.012418	-.003615	-.006960	.009480	.002087	.032900
24	-.018217	-.015467	-.007650	.001529	.005136	.038365
25	-.026049	-.027127	-.008607	-.007219	.016845	.043654
26	-.032388	-.027210	-.013003	-.002993	.023242	.050959
27	-.033368	-.026449	-.017436	.004300	.027432	.054539
28	-.030409	-.029480	-.017512	.000611	.034094	.060986
29	-.017787	-.031007	-.017942	-.007180	.037754	.054244
30	-.007406	-.035714	-.017121	-.002324	.036590	.048116
31	-.002765	-.033666	-.015667	-.001259	.032290	.046781
32	-.009092	-.035273	-.013778	-.006199	.026399	.042452
33	-.010461	-.038645	-.004942	-.012147	.015885	.034074
34	-.012772	-.043952	.004361	-.001531	.006876	.025326
35	-.015294	-.045425	.009280	.008926	.003409	.022002
36	-.022410	-.042399	.005789	.008507	.006007	.012746
37	-.026360	-.039453	.001157	.012663	.013352	.009613
38	-.022159	-.041942	-.004960	.010723	.015726	.016030
39	-.018972	-.046583	-.009261	.025063	.008342	.019613
40	-.011537	-.047544	-.011127	.024249	-.000200	.028914
41	-.000282	-.039560	-.012843	.023045	-.007227	.026038
42	.010978	-.018421	-.018081	.021694	-.016669	.013452
43	.018592	.006508	-.025978	.030950	-.028238	-.003111
44	.025630	.028094	-.033845	.033346	-.032270	-.016044
45	.026791	.032745	-.033844	.027646	-.029887	-.026932
46	.015463	.033688	-.027944	.014215	-.026425	-.033668
47	.011612	.035547	-.022487	.014132	-.025957	-.037810
48	.015052	.033810	-.019333	.014109	-.033339	-.039448
49	.023207	.023771	-.021273	.013623	-.045379	-.027968
50	.027965	.016879	-.024792	.012314	-.050280	-.014319
51	.031784	.014214	-.025683	-.000231	-.045838	-.011927
52	.031033	.021990	-.023299	-.007404	-.034958	-.012253
53	.033963	.034915	-.025377	-.023924	-.021129	-.009588
54	.034735	.038017	-.025148	-.033047	-.006002	-.005672
55	.024462	.033178	-.016967	-.030132	.003517	-.004198
56	.011824	.025731	-.014491	-.018648	.012632	-.007048
57	.003306	.019990	-.013620	-.005899	.016434	-.001623
58	-.001455	.017016	-.011198	.003782	.022721	-.003285
59	-.004951	.015403	-.013708	-.000697	.038089	-.005024
60	-.004828	.015587	-.012524	-.005793	.041079	-.001712

RUN NO. 66D 16M 05-09-62 2110-2234 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.35251 10E 00	0.16654 10E 00	0.80557 10E-01	0.19192 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.845770	.722876	.572654	.815516
2	.652485	.429593	.269198	.581400
3	.500753	.248120	.127945	.419136
4	.378860	.131345	.056538	.296620
5	.272609	.049125	.000275	.202424
6	.182585	-.017734	-.047213	.122673
7	.116548	-.068970	-.061751	.053798
8	.063794	-.093730	-.077513	-.001642
9	.011023	-.106998	-.075995	-.045856
10	-.035423	-.122954	-.087840	-.090358
11	-.079175	-.131929	-.081068	-.133283
12	-.124145	-.125540	-.067030	-.162655
13	-.164110	-.119236	-.054162	-.172285
14	-.201302	-.126567	-.056130	-.177574
15	-.244429	-.130144	-.070919	-.185813
16	-.279301	-.126654	-.097607	-.204813
17	-.298526	-.095549	-.108396	-.225683
18	-.311981	-.056949	-.117725	-.236444
19	-.316282	-.043278	-.129869	-.232202
20	-.312688	-.055309	-.150501	-.223610
21	-.302613	-.076628	-.142721	-.216936
22	-.288937	-.090314	-.139633	-.204725
23	-.272733	-.100232	-.127025	-.188153
24	-.249792	-.102964	-.108738	-.172550
25	-.224981	-.103786	-.074985	-.158317
26	-.203947	-.100437	-.049645	-.146995
27	-.179469	-.099961	-.025337	-.137975
28	-.152657	-.103856	-.005229	-.122072
29	-.120043	-.094450	-.013438	-.095065
30	-.077697	-.077153	-.008124	-.057981
31	-.030805	-.058657	.011932	-.020074
32	.004694	-.043214	.036934	.013472
33	.024663	-.031854	.041937	.035825
34	.032317	-.031107	.040962	.049848
35	.035272	-.028887	.031382	.064969
36	.040617	-.021007	.042851	.069064
37	.048067	.001946	.056813	.057524
38	.049448	.026143	.057783	.051393
39	.047966	.037757	.045259	.044890
40	.044329	.038684	.026058	.043290
41	.043937	.034086	.023656	.037063
42	.039753	.006961	.013990	.019673
43	.034074	-.015619	.014971	.003449
44	.029695	-.016017	.031121	-.004483
45	.030634	-.008230	.058564	-.001000
46	.032107	.002430	.050748	.003701
47	.030270	.022057	.032609	.007861
48	.029633	.035636	.006467	.017025
49	.038046	.038676	-.024269	.023384
50	.041533	.038920	-.053932	.020487
51	.041552	.044259	-.032218	.012683
52	.038132	.047710	-.037552	.010282
53	.037540	.049598	-.051816	.004519
54	.031013	.042719	-.046905	.004720
55	.024613	.036225	-.033548	.010425
56	.023696	.039831	-.005422	.007828
57	.026128	.041880	.016229	-.005467
58	.029357	.035501	.021985	-.010215
59	.031797	.025554	.009672	-.008277
60	.031018	.002785	-.015563	-.009007

RUN NO. 660 16M 05-09-62 2118-2234 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-03	10E-03	10E-02
0	.013934	-.003095	.040955	-.023488	.010103	-.004940
1	.037788	-.044288	.481131	.145922	-.194859	-.088387
2	-.012573	-.073841	.761885	.533508	-.134373	-.160172
3	-.010045	-.101421	.990816	.466323	.483650	-.219175
4	.120648	-.084935	.729048	-.196845	.989182	-.172204
5	.141695	-.052257	.355605	-.371428	.819114	-.102113
6	.038116	-.035293	.225944	-.783917	.576988	-.083018
7-8	.046932	-.035115	.207803	-.977504	.318640	-.093066
9-11	-.004499	-.028455	.121032	-.017763	.269242	-.057409
12-15	-.038107	-.013015	.066516	-.042475	.083393	-.030509
16-20	.002087	-.006948	.023807	-.305486	.105578	-.023323
21-27	-.006599	-.004740	.017073	-.180399	.048513	-.019191
28-36	-.003684	-.004008	.006852	-.019238	.009141	-.010916
37-47	.004517	-.000766	.002422	-.100568	.012087	-.006355
48-60	-.000117	-.000785	.000802	.000084	.007261	-.002608

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-03	10E-02
1	.079676	.085987	-.129723	-.421845	.148502	-.035395
2	.224077	.291107	.181571	-.760387	-.114596	-.094241
3	.362789	.357199	.200795	-.447639	-.440961	-.144076
4	.190042	.093163	.168238	-.172943	.006815	-.096518
5	.012283	-.016799	.103530	-.220722	.421548	-.039872
6	-.052003	.032822	.053456	.196797	.330343	-.031095
7-8	-.008963	.057412	.051122	.182941	.186547	-.052164
9-11	.053614	.020959	.010797	.195659	.064969	-.033046
12-15	.054436	.003049	.008544	.106756	-.086629	-.012615
16-20	-.002502	-.021768	.005636	-.003979	.025760	-.013045
21-27	-.001177	-.003696	.001612	.139834	-.003038	-.011400
28-36	-.001604	-.008648	.000603	.105731	-.001757	-.001552
37-47	-.008711	.002063	.000180	-.040429	.020265	-.002776
48-60	-.000572	-.006488	-.000913	-.000224	.001686	-.001037

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.021733	.005455	.015571	.013421
1	.328869	.084791	.220165	.147497
2	.531833	.128676	.430159	.228049
3	.660972	.153856	.664279	.298267
4	.462484	.132402	.555556	.231619
5	.230305	.123396	.356700	.138827
6	.154146	.126197	.332182	.112266
7-8	.143184	.095100	.414374	.092385
9-11	.107824	.060686	.321137	.059181
12-15	.058687	.045533	.212044	.037088
16-20	.035071	.030453	.179840	.025581
21-27	.022706	.021197	.140790	.017147
28-36	.015763	.013168	.109570	.009696
37-47	.008517	.009260	.079547	.006387
48-60	.006066	.005860	.064427	.003283

RUN NO. 66D 16M 05-09-62 2110-2234 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13151 10E 00	0.77000 10E-01	0.56181 10E-01	0.39531 10E-01	0.28843 10E-01	0.16888 10E-01
0	.063766	-.479744	.720026	-.049158	.111400	-.442407
1	.002075	-.071240	.260080	.022828	-.017424	-.066981
2	.038594	.025680	-.002951	-.022653	.051545	.044307
3	.006841	-.005307	.056915	-.013353	.050428	-.030253
4	-.064872	.073799	-.032056	.047778	-.028602	.058231
5	-.017871	.005355	-.050127	.038034	-.055198	-.015670
6	-.057461	-.002133	-.074768	.029561	-.032208	.012294
7	-.040064	.042389	-.113800	-.005770	-.037067	.053536
8	-.005487	.063115	-.099973	.050020	.036429	.029926
9	.015359	.019939	-.145471	-.005841	-.025121	.106628
10	.024671	-.008350	-.102720	-.053601	-.034309	.015144
11	.003026	-.000169	-.057988	-.005956	-.072075	.016847
12	-.044525	.026365	-.010945	.005810	-.023186	.004348
13	-.002460	.010818	-.033764	.032931	-.018329	-.021347
14	-.002571	.047217	-.096474	.036036	-.031236	.067841
15	.023988	.025456	-.029111	-.036837	-.014828	.023077
16	.066748	-.076203	.068790	-.012237	.099355	-.055095
17	.083865	.027932	-.014308	-.093782	.097051	.007906
18	.003368	.060509	-.059152	-.044822	.033529	.017045
19	.038517	-.063678	.054100	-.013567	.038854	-.038499
20	.026132	.038672	.045848	-.008463	.025394	.024084
21	-.044203	.030868	.003004	-.015204	-.013123	.040249
22	-.047559	-.028830	.009540	-.020266	.007841	-.014079
23	-.015695	.019105	-.006258	-.004203	-.019210	-.036359
24	.038505	.036055	.031035	-.061848	-.016904	-.013401
25	.010621	.002433	.036219	.068691	.009762	.006153
26	-.021528	.030734	-.049479	.081146	-.074401	.026349
27	.007008	.059075	-.006885	.047474	.035323	.022489
28	-.044376	.007260	.028694	-.017186	.005474	-.010018
29	-.030257	-.014150	-.010925	-.008342	-.012712	.011345
30	.031512	-.060761	.019400	-.044924	.014829	-.040548

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-03	10E-03
0	-.005416	-.014441	.009843	.020340	-.012945	-.012402
1	-.093872	-.130796	.165021	.353925	-.108666	-.204515
2	-.054842	-.147070	.283752	.213015	.125062	-.330904
3	.102015	-.185817	.398454	-.206044	.546346	-.470227
4	.176281	-.196011	.357325	-.238783	.417158	-.455280
5	.092220	-.183224	.268652	-.142256	-.016150	-.350162
6	.127878	-.181985	.206182	-.378527	.137332	-.257139
7	.205772	-.175482	.161896	-.415392	.412212	-.236084
8	.054679	-.153130	.148538	.000311	.189768	-.238403
9-11	-.062574	-.181417	.189022	.088466	-.177885	-.409213
12-14	.000614	-.143173	.139226	.177952	-.140786	-.266023
15-21	-.016362	-.154315	.169182	-.120331	.167182	-.342025
22-30	.104017	-.166836	.090492	-.249649	.332630	-.330659

RUN NO. 660 16M 05-09-62 2118-2234 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13151 10E 00	0.77000 10E-01	0.56181 10E-01	0.39531 10E-01	0.28843 10E-01	0.16883 10E-01
1	.059121	.045636	.098364	-.026862	-.012566	-.120255
2	.012090	.028886	.016768	.002946	.007141	-.013810
3	.011318	-.059194	.024855	-.025858	.026796	.042963
4	.004282	-.079251	.023027	.033931	-.028582	.008914
5	.041919	.019844	-.033491	-.032354	-.069461	-.003116
6	.019677	.006339	.020709	-.012418	-.011490	-.032991
7	-.020883	-.021290	.069263	-.053925	-.057218	-.017619
8	-.009316	-.006334	.048497	.024605	-.056974	.007473
9	.038640	.040928	-.017657	.020099	-.053243	.009675
10	.071874	.055284	-.040172	.052177	-.072310	.011263
11	.038346	.016910	-.031048	-.004533	-.025411	-.011024
12	.054426	.047913	.011181	.032019	-.066889	-.071391
13	.037233	.057836	.046871	.009156	-.040239	-.071300
14	-.037711	-.041986	.033589	-.004963	.076885	-.004088
15	-.019092	-.034667	-.003258	-.015985	.009461	.040602
16	.002117	.016634	.006792	.021311	.038332	-.013540
17	-.032794	-.020064	-.029617	.010050	.050649	.018970
18	-.034112	-.054837	-.034920	.005737	.064707	.036731
19	-.036173	-.038011	.034951	-.002137	.032161	-.006825
20	.001000	-.045067	.041291	.006209	-.041691	-.009752
21	-.017714	.012985	-.026842	.013283	.004414	.015706
22	.021078	.045809	-.036568	.011729	-.004886	.014940
23	.023216	.043166	-.010827	.007817	.040373	-.018617
24	-.022176	.025208	-.021700	-.016809	.012230	-.026722
25	.007646	-.029633	.008785	.045812	-.014201	.020060
26	-.072908	.037237	.029582	-.077334	.039727	-.028684
27	-.044724	.014373	-.002487	-.052296	.009096	.001132
28	.073522	.002470	-.038322	.027547	-.087250	.071192
29	.033189	-.005491	-.048416	-.017849	.006254	.049226
30	-.027750	-.011931	-.028385	-.049893	.029837	.034839

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
1	.163838	.024614	.480110	.185976	-.517229	-.137580
2	.170473	.023313	.452512	-.017837	-.623546	-.093501
3	.074941	-.029673	.388190	-.202692	-.384620	-.002915
4	-.065207	-.119716	.388617	-.258887	.213649	.060854
5	-.019299	-.073533	.384020	-.191594	.373248	-.043824
6	.134020	.028046	.176294	.058784	.060346	-.141808
7	.137803	.033994	-.061775	.224490	-.044961	-.052791
8	.048301	.031134	-.043933	.187883	.140815	.060024
9-11	-.030567	.039895	.920613	-.188734	.083984	-.180370
12-14	.105312	.099519	-.002530	-.179524	-.024075	-.201813
15-21	.053171	.009685	.468321	.042759	-.171523	-.184029
22-30	.043125	-.000609	.165976	-.319259	.051461	-.025949

RUN NO. 66D 16M 05-09-62 2118-2234 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.25615 10E 00	0.67514 10E-01	0.23146 10E-01	0.12322 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.300732	.044530	-.007902	.308544
2	-.082796	.018058	-.127723	.035980
3	.016430	-.131423	.034878	.047693
4	-.046973	-.091833	-.066779	-.065334
5	-.037141	-.023371	-.047463	-.088427
6	-.050491	.036917	-.042947	-.100541
7	-.118099	-.090739	.002896	-.134886
8	-.160964	.060048	-.022719	-.096266
9	-.143553	-.039484	-.071392	-.200292
10	-.119327	-.071876	-.027923	-.124845
11	-.056254	-.089135	.039845	-.065280
12	-.003382	-.062004	-.031923	-.021151
13	-.023323	-.073968	-.043655	-.033948
14	-.050562	-.041560	-.067337	-.203009
15	-.018695	-.040245	-.032492	-.074103
16	.071441	-.058471	.008939	.074487
17	-.019764	-.050440	-.006844	.022898
18	-.070805	-.055413	-.051639	-.000171
19	.098344	.022367	.054413	.067855
20	.032182	.119016	-.080225	.049592
21	-.025547	-.000204	-.009129	-.002428
22	-.005609	.009721	-.000350	.006580
23	-.070558	-.093680	.007731	.044309
24	-.021680	.098709	.027792	.034237
25	.029249	.019645	-.016086	.023245
26	-.021239	-.011787	-.014751	-.071093
27	.029621	.028605	.024162	-.059523
28	.041746	.037692	-.003437	.019975
29	-.037506	.059588	.024676	-.007322
30	.047345	.108752	.098449	.026667

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.008250	.005551	.005109	.002281
1	.090975	.177754	.056202	.045563
2	.137394	.279466	.068802	.082000
3	.200274	.298410	.076116	.115460
4	.197860	.208212	.075256	.098500
5	.146757	.219224	.080956	.075915
6	.111112	.300913	.087619	.070221
7	.093956	.334663	.089961	.059305
8	.099094	.364642	.081056	.044220
9-11	.140470	.319206	.094841	.057482
12-14	.113536	.285482	.082223	.034291
15-21	.113461	.231770	.132712	.048078
22-30	.061487	.418402	.128286	.039181

RUN NO. 66D 40M 05-09-62 2118-2234 EST

GROSS STATISTICS

CLEAR	WIND SPEED	5.93 M/SEC	WIND DIRECTION	303 DEG
STABLE	SIGMA A	6.6 DEG	SOLAR RADIATION	0
LAND	SIGMA E	3.0 DEG	NET RADIATION	-0.16

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.55289E-00	0.33508E-00	0.28092E-00	0.19078E-00
V	0.44250E-00	0.22438E-00	0.21375E-00	0.69352E-01
W	0.98538E-01	0.99340E-01	0.94087E-01	0.26013E-01
T	0.40885E-01	0.23597E-01	0.19824E-01	0.13202E-01
E	0.54696E-00	0.32940E-00	0.29438E-00	

GUSTINESS RATIOS

U	0.12539	0.09762	0.08938	0.07366
V	0.11218	0.07988	0.07796	0.04441
W	0.05294	0.05315	0.05173	0.02720

COVARIANCES

U,V	0.21551E-00	0.26371E-01	0.19962E-01	0.90733E-02
U,W	-0.78004E-01	-0.73618E-01	-0.65647E-01	-0.32617E-01
U,T	0.11621E-00	0.57555E-01	0.45688E-01	0.39260E-01
V,W	-0.19325E-01	-0.15121E-01	-0.15225E-01	0.16109E-03
V,T	0.67571E-01	0.96770E-02	0.82802E-02	0.28026E-02
W,T	-0.20007E-01	-0.18602E-01	-0.16897E-01	-0.75244E-02
WE	-0.77182E-02	-0.27568E-02	0.16450E-02	

NORMALIZED COVARIANCES

U,V	0.43571	0.09617	0.08146	0.07888
U,W	-0.33419	-0.40350	-0.40379	-0.46301
U,T	0.77291	0.64726	0.61223	0.78228
V,W	-0.09255	-0.10128	-0.10736	0.00379
V,T	0.50237	0.13299	0.12720	0.09262
W,T	-0.31520	-0.38422	-0.39125	-0.40603

RUN NO. 660 40M 05-09-62 2118-2234 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.24506 10E 00	0.16263 10E 00	0.74638 10E-01	0.14186 10E 00	0.65106 10E-01	0.43207 10E-01
0	.081461	-.403896	.612184	-.107446	.127061	-.391117
1	.071567	-.315020	.559330	-.057418	.105235	-.290313
2	.049783	-.181585	.451551	-.004120	.065842	-.152456
3	.022996	-.081559	.343968	.024295	.027154	-.062972
4	.003899	-.030879	.250113	.027615	-.005974	-.017043
5	-.013469	-.000745	.178631	.025803	-.034239	.006316
6	-.031287	.027374	.124751	.025978	-.052482	.027605
7	-.040627	.048014	.081457	.027854	-.060514	.045872
8	-.035180	.053355	.045275	.022295	-.053465	.053575
9	-.023888	.050730	.009906	.013771	-.046691	.052291
10	-.018400	.053217	-.027455	.016928	-.039648	.053814
11	-.009968	.051581	-.061646	.014661	-.029825	.060936
12	-.001419	.040530	-.094797	.008418	-.023649	.060687
13	.000063	.040057	-.127954	.000164	-.021956	.058772
14	-.002097	.048948	-.157365	-.008790	-.016901	.062642
15	-.007987	.064532	-.177646	-.013930	-.012999	.062478
16	-.015368	.073778	-.183760	-.002400	-.017748	.058129
17	-.022250	.082629	-.187756	.002763	-.021941	.055020
18	-.020281	.073510	-.189115	-.000594	-.013573	.051940
19	-.012498	.063845	-.184290	.000272	-.000134	.050199
20	-.005358	.054539	-.179350	.004832	.006371	.040041
21	.001457	.040555	-.174725	.008943	.017761	.024480
22	.009023	.025577	-.171755	.011586	.028655	.014554
23	.006293	.018880	-.170060	.006361	.033850	.002905
24	.011760	.014395	-.173352	-.004999	.031065	-.004120
25	.014867	.008349	-.168472	-.015393	.025192	-.011966
26	.018244	.006162	-.153124	-.025629	.022256	-.004121
27	.014693	.009657	-.141573	-.030925	.021822	.008514
28	.008349	.022083	-.131695	-.026544	.025102	.003957
29	.009425	.033794	-.119456	-.016813	.030734	.000024
30	.006427	.032931	-.100809	-.006268	.030576	.000303
31	.004886	.012121	-.074136	.002044	.023088	.000210
32	.007410	-.014869	-.046286	-.002517	.018943	-.006150
33	.002436	-.031794	-.022787	-.009968	.014917	-.007584
34	-.007830	-.037207	-.000716	-.010095	.011083	-.007970
35	-.014758	-.028737	.014479	-.010331	.006091	-.004287
36	-.016803	-.022874	.028233	-.005742	-.003024	-.006670
37	-.011322	-.021670	.046007	-.017441	-.009099	-.009186
38	-.004585	-.023247	.064277	-.006123	-.011087	-.009964
39	-.000175	-.025672	.081634	-.000807	-.004211	-.022640
40	.009286	-.036461	.100772	-.005418	.007540	-.043374
41	.024213	-.053068	.116573	-.014333	.018631	-.057881
42	.028143	-.042891	.115715	-.014410	.030337	-.046099
43	.025665	-.021963	.109021	-.000371	.028256	-.025411
44	.019782	-.012116	.107134	.017733	.017731	-.018080
45	.014314	-.016002	.108698	.027045	.005600	-.015090
46	.009450	-.024519	.109316	.009842	-.003755	-.013255
47	-.006358	-.031815	.112450	.013219	-.014338	-.013451
48	-.018730	-.033775	.112875	.024210	-.030703	-.024082
49	-.027780	-.015373	.095565	.030789	-.054237	-.023559
50	-.026304	.001685	.069965	.026894	-.069581	-.010422
51	-.026161	.012316	.047482	.014178	-.066892	.001734
52	-.020782	.022072	.025195	.003839	-.047289	.010081
53	-.013355	.031503	.004491	-.011073	-.025624	.013460
54	-.009649	.034144	-.012133	-.012719	-.015890	.017223
55	-.006321	.038101	-.028024	-.001642	-.015175	.025815
56	-.005561	.036972	-.038578	.012445	-.020132	.030866
57	-.002555	.028931	-.047922	.019308	-.020016	.027050
58	.009926	.020390	-.054381	.010797	-.011492	.027585
59	.018353	.013163	-.054028	-.004071	-.001376	.028789
60	.020874	.000224	-.051688	-.013966	.003883	.021880

RUN NO. 660 40M 05-09-62 2118-2234 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11495 10E 00	0.70409 10E-01	0.50155 10E-01	0.42465 10E-01	0.30249 10E-01	0.18529 10E-01
1	.008194	.008664	.064739	-.072843	.046873	-.056918
2	.004358	.068334	.021167	-.020684	.012145	-.031379
3	.011014	-.026375	.019689	-.015302	.009217	-.001024
4	.085807	-.056795	.039738	.029833	-.058900	.024717
5	-.003409	.043875	-.024413	.003676	-.036457	-.009770
6	-.040285	-.024609	-.011099	.028693	.032655	-.012375
7	.003223	-.035462	-.022854	.014706	.000306	.023414
8	-.006995	.046856	-.036354	-.045521	-.007982	-.029342
9	-.006003	.069507	-.020141	-.009068	-.012422	-.056601
10	-.048186	.045906	-.001561	.015600	.024369	-.013738
11	-.022799	-.045293	.011390	-.020069	.060064	.054911
12	.055769	.012909	.002149	.049739	-.056004	-.010738
13	-.008920	-.010742	.021623	-.057525	.016480	-.034419
14	-.007645	.013049	-.013037	-.042100	.022188	.027073
15	.034004	.000032	.017840	.019707	.011730	.012427
16	.013600	-.000051	-.005158	.019827	-.033869	.022488
17	.012409	.024757	.014331	.034129	-.013981	.008874
18	-.027793	.054161	.019942	-.045228	.040082	-.066151
19	-.065071	-.003006	.024086	-.064995	.077697	-.019123
20	-.034431	-.027279	-.030481	-.020466	-.027618	.013538
21	.040498	-.012397	.007684	.072301	-.045049	-.060371
22	.071574	-.039585	.008970	-.002255	-.034870	.041435
23	-.051359	-.058535	-.042401	-.070061	.052889	.093815
24	.011534	-.032815	-.038089	.060522	-.064233	.032358
25	.055685	-.029104	-.050737	.043087	-.085937	.059709
26	.047231	-.039990	-.036170	.058774	-.076302	.028547
27	.053156	.023930	.004338	.022710	-.050670	-.003788
28	.007337	.039439	.026627	.045638	-.004279	-.062656
29	.009346	-.060051	.028263	.036651	.028275	.034007
30	-.109461	-.032338	.030337	-.004161	.115602	.059928

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-03	10E-03	10E-03	10E-03
1	-.003787	.464254	-.040138	-.164138	.047881	-.076927
2	.004154	.338606	-.060811	-.028567	.002241	-.080597
3	.031043	-.129406	-.077540	.070228	-.137333	-.045773
4	.053889	-.154424	.299322	-.037368	-.071919	-.060261
5	.125850	-.250459	.513849	-.047501	-.083478	.034368
6	.104503	-.338350	.539102	-.180476	-.004207	.025734
7	-.002655	.425043	.535031	-.316180	.176945	-.141955
8	-.012174	.890598	.268763	-.285296	.161845	-.119342
9-11	-.028978	.390238	.094049	-.473216	.228073	-.148302
12-14	-.101361	.319264	.149257	-.098082	.324218	-.063827
15-21	.081181	-.237270	.295411	-.109102	-.094284	-.056390
22-30	-.049849	-.237543	.008844	-.276812	.169160	-.023347

RUN NO. 66D 40M 05-09-62 2118-2234 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVIARIANCE

K	U	V	W	T
	0.19059 10E 00	0.69327 10E-01	0.26011 10E-01	0.13199 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.259618	.021477	-.016908	.283814
2	.025710	-.169651	-.062348	.000084
3	-.027614	.048501	.029554	-.048920
4	.024308	-.045765	-.042089	-.019003
5	-.073635	-.126070	-.002137	-.064731
6	-.166767	-.075132	-.105219	-.199937
7	-.175873	-.049888	-.087691	-.148246
8	-.062400	-.000922	-.027333	-.032397
9	-.029448	.037200	-.067062	-.048234
10	.002008	-.042281	-.016026	-.016348
11	-.087091	-.028437	-.135758	-.108130
12	-.029322	.001069	-.006790	-.024763
13	-.082262	-.052289	-.098345	-.044150
14	-.106640	-.048515	-.013372	-.159429
15	-.087307	-.023847	-.032730	-.112119
16	-.050658	-.023915	-.011681	-.072917
17	-.038967	-.015983	.031296	.008063
18	-.004353	.058169	.046037	.067713
19	-.020883	.039282	.064005	-.000117
20	.071690	-.044895	.061061	.075863
21	.029950	.095059	-.011796	.056642
22	.052140	.060846	-.060888	.034127
23	.044096	-.083824	.061573	.057949
24	-.014321	-.093196	.011749	.012244
25	-.046460	-.029325	-.055014	.017557
26	-.015467	-.035208	.001995	-.035240
27	-.005734	.032350	-.006785	-.020333
28	-.009351	.015697	.059961	.008714
29	.005463	.036517	-.002722	.067786
30	.070060	.012595	.017363	.052752

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-03
0	.005616	.010769	.001389	.019527
1	.078767	.115843	.043752	.428621
2	.116410	.168519	.089753	.769839
3	.139849	.243466	.135134	.992557
4	.120763	.240668	.111531	.814348
5	.126741	.264763	.079997	.851457
6	.132029	.351924	.093750	.981000
7	.095795	.322647	.097755	.766705
8	.062088	.258301	.077051	.479182
9-11	.060056	.219348	.078981	.488659
12-14	.099696	.309615	.119617	.684510
15-21	.067306	.437100	.129606	.442224
22-30	.068949	.314193	.158533	.450994

RUN NO. 66D 40M 05-09-62 2118-2234 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-02	10E-02
0	.006471	-.019511	.033978	.011498	.003711	-.004598
1	.005320	-.170708	.422326	.403893	-.019134	-.030458
2	.026917	-.394197	.766199	.515218	-.029607	-.077962
3	.129837	-.679403	.947798	-.053439	.029990	-.147626
4	.211765	-.623628	.585578	-.661860	.098377	-.156039
5	.249314	-.500120	.352520	-.565204	.114131	-.143556
6	.195092	-.446871	.291555	-.629937	.096704	-.120299
7-8	.169340	-.349940	.173941	-.984853	.073923	-.084987
9-11	.206765	-.369845	.131766	-.881789	.070348	-.081580
12-15	.026803	-.172138	.085853	-.671142	.020929	-.053099
16-20	.012610	-.135401	.034714	-.567595	.009037	-.036108
21-27	.015659	-.086305	.015213	-.428177	.005826	-.025739
28-36	-.001602	-.031307	.006531	-.178973	.002706	-.011291
37-47	-.000026	-.017028	.003676	-.123164	.001831	-.006820
48-60	.002814	-.012054	.000410	-.096483	.000562	-.003411

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-03	10E-03
1	-.001359	.070070	.055957	-.066215	.373255	-.183508
2	-.077424	.174196	.080922	-.086967	.569591	-.499911
3	.090845	.149946	.133597	-.128995	.283913	-.666562
4	.223620	-.071834	.134491	-.146783	.089414	-.337166
5	.049147	-.097498	.072278	-.112898	.406580	-.149012
6	-.030560	.005861	.039256	-.066592	.377710	-.248873
7-8	.099501	.006150	.058694	-.024833	.211484	-.311157
9-11	.118050	-.052598	.067308	-.035245	.007933	-.136509
12-15	-.009053	-.027907	.012876	-.084277	.273492	-.033398
16-20	-.000956	.002692	.013699	.024019	-.017376	-.050249
21-27	.005434	-.005190	.009400	-.002822	.041761	-.093243
28-36	-.001756	.010041	.002721	-.011605	.005349	-.033830
37-47	-.000053	-.002058	.000564	.000345	.004287	-.014352
48-60	.000873	.002076	-.000102	.000680	-.000198	-.008820

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.016280	.005765	.014810	.012947
1	.204346	.068765	.221892	.156566
2	.360463	.129436	.398017	.261100
3	.448527	.262476	.559294	.318918
4	.292414	.178289	.508211	.212490
5	.188606	.122200	.420505	.140540
6	.172603	.110278	.393417	.121866
7-8	.124098	.116139	.428227	.082149
9-11	.102664	.093798	.430920	.068222
12-15	.062276	.065178	.307683	.042154
16-20	.034169	.050899	.242525	.026243
21-27	.022243	.030031	.206862	.017395
28-36	.014305	.018828	.126775	.009129
37-47	.008228	.011443	.085845	.004930
48-60	.005802	.007650	.056892	.002568

RUN NO. 66D 40M 05-09-62 2118-2234 EST
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11495 10E 00	0.70409 10E-01	0.50155 10E-01	0.42465 10E-01	0.30249 10E-01	0.18529 10E-01
0	.078934	-.463255	.782768	.003793	.092649	-.406093
1	.003365	-.015134	.244407	.035171	-.043222	.008938
2	.011276	-.019386	.020155	.010302	.000758	-.019587
3	.027054	-.051198	-.020224	-.028987	.065538	-.055661
4	-.002626	-.052348	.026783	.006914	.005761	-.009717
5	-.068774	.050307	-.040843	.032371	-.069121	.025193
6	-.021078	.089215	-.166160	-.010828	-.028338	.107995
7	-.009241	.096102	-.151925	-.002888	-.003055	.085744
8	-.005420	.021396	-.053642	.000852	.012966	.021777
9	.062396	.058429	-.018029	-.012203	.048515	.038292
10	.004661	.032342	-.008969	-.015926	.029219	-.022558
11	.069705	.083974	-.105684	-.111838	.060306	.037601
12	.071741	-.058949	-.019717	-.004558	.021563	-.055006
13	-.034756	.028807	-.046823	.072802	-.020382	-.030128
14	-.102875	.030819	-.121531	.059499	-.092724	.034414
15	-.003638	.013391	-.094109	-.089831	-.048677	.037364
16	-.003514	.010418	-.063109	-.019351	.014646	.054609
17	-.025458	-.014305	-.008399	.019730	-.023922	.004155
18	.009192	-.022339	.035669	-.024554	.010912	-.008926
19	.066021	.017743	.008018	-.003199	.065921	.023620
20	.036354	-.079297	.067079	.019816	.030856	-.054634
21	-.026177	-.043589	.023392	.040851	.007989	-.028854
22	-.087124	-.002363	.031403	.059515	-.044376	.027079
23	-.039623	-.023605	.035615	.006227	-.051448	-.020260
24	-.111077	.030448	-.027996	.030691	-.071221	.048955
25	-.059661	.073537	-.022325	-.010289	-.047835	.033654
26	-.069127	.001698	-.042414	.067909	-.063725	.023443
27	.093357	.022464	.011460	-.014458	.077910	.009510
28	.068952	.003841	.012952	-.013250	.044632	-.039492
29	.019012	.010804	.036600	-.033864	.017800	-.041967
30	.018091	-.031836	.068526	.007069	.000413	-.022983

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-03	10E-03
0	.012349	-.007415	.008968	-.012659	.026275	-.012148
1	.086344	-.084884	.165326	-.025443	.170726	-.204240
2	.008790	-.158125	.263437	.227182	.040341	-.297985
3	-.019266	-.254521	.325595	.317951	-.054061	-.424335
4	.031122	-.228376	.266381	.098227	-.070624	-.485419
5	.105441	-.174177	.265011	.031510	.144534	-.532197
6	.244545	-.139478	.292806	-.152719	.565286	-.441529
7	.117994	-.057813	.208055	-.203008	.248475	-.104354
8	-.097210	-.028541	.113357	.256237	-.319509	.043636
9-11	-.019720	-.045328	.123440	.150621	-.210117	-.079760
12-14	-.050883	-.129627	.225892	.322341	-.123450	-.307005
15-21	.103946	-.174004	.126405	-.278418	.379148	-.370330
22-30	.025032	-.183768	.122828	-.042848	.237867	-.503389

RUN NO. 66D 40M 05-09-62 2118-2234 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.24506 10E 00	0.16263 10E 00	0.74638 10E-01	0.14186 10E 00	0.65106 10E-01	0.43207 10E-01
1	.011825	-.006368	.050533	-.026287	.020997	-.041391
2	.021374	-.013921	.074500	-.039252	.031840	-.045751
3	.026009	-.014429	.076964	-.044292	.032908	-.040241
4	.027904	-.004488	.073586	-.051164	.029880	-.039114
5	.027428	.008755	.067627	-.042397	.025113	-.048028
6	.020095	.008954	.060205	-.021277	.018043	-.051471
7	.008937	.014128	.050636	-.005731	.009519	-.044723
8	-.003023	.017077	.038762	-.006926	.005512	-.031392
9	-.005380	.019542	.026701	-.019100	.016325	-.018654
10	-.005902	.014753	.025390	-.034381	.025698	-.018179
11	-.008354	.011196	.023558	-.050702	.028756	-.017825
12	-.007914	.017828	.025468	-.045101	.022147	-.020356
13	-.001517	.024381	.028563	-.031460	.009869	-.026003
14	.003799	.027850	.030780	-.007555	-.000958	-.023532
15	.012758	.026211	.033040	.008003	-.007446	-.018191
16	.017233	.022184	.032159	.020105	-.007893	-.017419
17	.009357	.015440	.025518	.018032	-.005046	-.019586
18	.002051	.014239	.011313	.012433	.000214	-.013826
19	-.005212	.019305	-.005057	.003691	.007027	-.008172
20	-.015790	.032480	-.018378	.006473	.018725	-.007974
21	-.025813	.045480	-.024946	.000091	.025494	-.015746
22	-.029155	.043460	-.025794	-.005676	.028624	-.018453
23	-.031579	.033659	-.025599	-.000878	.024878	-.012779
24	-.033148	.023236	-.020271	.002672	.020454	-.001585
25	-.032373	.003259	-.015102	.006859	.014796	.013517
26	-.027031	-.016082	-.013041	.007669	.002035	.023103
27	-.017836	-.028707	-.009955	.008278	-.008598	.022809
28	-.007494	-.030436	-.013821	.004660	-.007195	.025888
29	.001067	-.028789	-.020720	.009268	.003483	.028008
30	.009514	-.021914	-.023478	.002919	.010227	.035789
31	.016190	-.015396	-.018522	-.002693	.010754	.037346
32	.013231	-.018990	-.011108	-.001220	.009219	.029578
33	.005647	-.038499	-.004580	-.000488	.007093	.021047
34	.007040	-.046604	.002980	-.001801	.006550	.016682
35	.019457	-.045560	.011698	-.004840	-.000176	.011407
36	.030708	-.037315	.023536	-.007864	-.015453	.009185
37	.033553	-.040589	.027489	-.003829	-.033025	.012817
38	.033774	-.027848	.020608	-.007774	-.042597	.014017
39	.038349	-.015805	.013088	-.006333	-.050721	.01754
40	.038057	-.013394	.002797	.002093	-.049400	.014685
41	.031149	-.009728	-.003989	.006423	-.038248	.015601
42	.022045	-.007275	-.005005	-.002453	-.022245	.013451
43	.017318	-.005267	-.000132	-.002189	-.012504	.000584
44	.018981	-.006096	.007273	.009631	-.013327	-.011381
45	-.023194	-.004271	.012302	.008764	-.015439	-.008987
46	.024508	.005097	.010541	.003679	-.012693	.000240
47	.019165	.020418	.006499	-.002974	-.011740	-.004715
48	.015801	.031506	.003025	-.005334	-.013399	-.011306
49	.011043	.035330	-.005200	.002416	-.014624	-.015055
50	.004680	.037440	-.014679	.007077	-.014626	-.015572
51	-.013867	.033557	-.019993	.007976	-.004279	-.016644
52	-.032282	.027792	-.017178	.002080	.009361	-.018890
53	-.044748	.029045	-.012100	.006450	.017528	-.023793
54	-.048775	.024106	-.009180	.012811	.021538	-.020654
55	-.037084	.014505	-.008055	.006776	.022148	-.013193
56	-.022340	.002254	-.005668	.008872	.022653	-.002911
57	-.019768	.000041	-.005208	.013013	.022652	-.000086
58	-.026708	.005333	-.003348	.012587	.019719	-.007933
59	-.030827	.010616	.001649	.004911	.018785	-.016034
60	-.027052	.004806	.004444	.009864	.018979	-.017766

RUN NO. 66D 40M 05-09-62 2118-2234 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.28094 10E 00	0.21376 10E 00	0.94146 10E-01	0.19829 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.817126	.702101	.575505	.830373
2	.587869	.365848	.192323	.590356
3	.409448	.159841	.026686	.414625
4	.276630	.050382	-.020700	.290617
5	.175020	-.004902	-.043652	.200219
6	.098520	-.037378	-.067058	.125359
7	.049166	-.056745	-.090055	.067383
8	.011390	-.079955	-.084300	.019655
9	-.022624	-.092839	-.059173	-.016362
10	-.051568	-.098444	-.057932	-.048884
11	-.078566	-.091897	-.040354	-.090461
12	-.112720	-.079332	-.038615	-.129885
13	-.151828	-.090398	-.044063	-.159003
14	-.187397	-.110883	-.055778	-.185966
15	-.211640	-.128230	-.074528	-.207549
16	-.224684	-.137430	-.079474	-.222478
17	-.231466	-.143521	-.082166	-.236567
18	-.231224	-.139242	-.082006	-.243538
19	-.226673	-.126506	-.089245	-.237872
20	-.215652	-.114096	-.092808	-.221222
21	-.207892	-.114305	-.091690	-.204766
22	-.202748	-.124970	-.074812	-.198100
23	-.201768	-.131842	-.058768	-.190787
24	-.206586	-.121319	-.042111	-.190543
25	-.204391	-.090370	-.022961	-.192033
26	-.196553	-.060113	-.016869	-.193092
27	-.182790	-.036101	-.031574	-.189606
28	-.173562	-.016599	-.042081	-.169551
29	-.167803	-.014364	-.049909	-.143455
30	-.135341	-.006545	-.046947	-.117319
31	-.094614	.025570	-.003112	-.089518
32	-.051458	.048261	.035549	-.063892
33	-.011981	.051422	.035142	-.038700
34	.018435	.053216	.018313	-.016228
35	.039526	.046064	-.003174	.006797
36	.051132	.041652	-.021100	.033865
37	.065438	.043360	-.014413	.050221
38	.078403	.028708	.005395	.059803
39	.089784	.033919	.017893	.078534
40	.104895	.045543	.024727	.102232
41	.115203	.052588	.033350	.116646
42	.116414	.048559	.033867	.118950
43	.110228	.038284	.026117	.116884
44	.106257	.030574	.007893	.110575
45	.108749	.019369	-.009210	.106333
46	.120633	.010497	.002693	.106183
47	.128096	.004625	.011364	.100768
48	.124073	.001434	.029276	.087135
49	.108304	-.020204	.038966	.066128
50	.083607	-.034786	.033978	.047596
51	.050092	-.030377	.039874	.037672
52	.022105	-.029147	.025628	.024850
53	-.001322	-.029791	.024561	.011402
54	-.017638	-.025061	.023666	-.005315
55	-.028763	-.016193	.004682	-.026491
56	-.030417	-.011478	-.016296	-.038726
57	-.021201	-.010021	-.027194	-.042291
58	-.025907	-.007892	-.038716	-.052049
59	-.028062	-.008967	-.031086	-.065203
60	-.025844	-.026006	-.008493	-.072661

RUN NO. 66D 16M 05-09-62 2118-2234 EST
 RUN NO. 66D 40M 05-09-62 2118-2234 EST
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.485168	.219175	.148483	.407005
1	.222122	.359741	.287281	.366567
2	.127776	.270349	.226231	.333763
3	.163966	.231307	.138325	.321562
4	.168177	.257831	.077556	.244603
5	.136803	.264533	.105573	.208935
6	.157266	.341627	.081541	.324418
7-8	.171847	.322991	.150396	.276536
9-11	.149409	.081989	.223743	.098974
12-15	.127427	.156128	.069488	.091405
16-20	.078272	.084661	.075637	.138868
21-27	.101729	.092968	.071105	.103522
28-36	.091258	.080979	.102947	.073320
37-47	.095052	.099620	.111302	.131815
48-60	.112223	.072639	.065386	.148564

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.489235	.390183	.088564	.454555
1	.422934	.454130	.033109	.522760
2	.242305	.368783	.145431	.312364
3	.204913	.253504	.123461	.192537
4	.419651	.305899	.260277	.387967
5	.571794	.427219	.237693	.730022
6	.599914	.503868	.424990	.724199
7	.381981	.531755	.153851	.545963
8	.144310	.438610	.352686	.418782
9-11	.245926	.382907	.480509	.414586
12-14	.240496	.237322	.145745	.370846
15-21	.286353	.312723	.272084	.215649
22-30	.210151	.218127	.266199	.278116

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14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
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Vertical Profiles						
Turbulence Statistics						
Mean Wind Speed						
Air Temperature						
Soil Temperature						

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