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NTISUB/D/276-010

**LANDSAT 2
WORLD STANDARD CATALOG**

**OCTOBER 1, 1978
THROUGH
OCTOBER 31, 1978**

**GSFC/LWC 2-78/10
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND**

NASA

National Aeronautics and
Space Administration

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16. Abstract (Limit: 200 words) The World Standard Catalog lists imagery acquired by Landsat 2 which has been processed and input to the data files during the referenced period. Information such as cloud cover and image quality is given for each scene. The microfilm roll and frame on which the scene may be found is also given.			13. Type of Report & Period Covered
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INTRODUCTION

To provide information regarding the availability of Landsat imagery, the Image Processing Facility (IPF), at the Goddard Space Flight Center, publishes a World Standard Catalog on a monthly schedule. These catalogs identify imagery which has been processed and input to the data files during the referenced month. As a supplement to these catalogs, the Landsat imagery of several spectral bands is available on 16mm microfilm.

Film products for imagery listed in this catalog are available at a nominal price from all three agencies listed below. In addition, the 16mm microfilm can be purchased from the U.S. Department of the Interior (USDI) EROS Data Center and National Oceanic and Atmospheric Administration (NOAA). Digital tapes can be purchased only from the USDI EROS Data Center.

U.S. Department of Agriculture.....	Aerial Photography Field Office Administrative Services Division USDA-ASCS 2222 West - 2300 South Salt Lake City, Utah 84125
U.S. Department of Commerce..... National Oceanic and Atmospheric Administration	Environment Data Service Satellite Data Service Branch D543 World Weather Building Room 606 Washington, D.C. 20233
U.S. Department of the Interior..... Geological Survey	User Services Unit EROS Data Center Sioux Falls, South Dakota 57198

Additional Landsat data is acquired, processed, and archived at several other locations throughout the world. The locations of these Data Banks are:

Brazil

Instituto do Pesquisas Espaciais
Av. dos Astronautas, 1758
Caixa Postal 515
12.200 - Sao Jose dos Campos
Sao Paulo, Brazil
Attention: Dr. Nelson de Jesus Parada

Iran

Mr. Ali Ghazi
Remote Sensing and Data Collection Division
Plan and Budget Organization
Imperial Government of Iran
80 Sepand Avenue
Tehran, Iran
Attention: User Project Office

Canada

Canada Centre for Remote Sensing
2464 Sheffield Road
Ottawa, Canada
K1A 0Y7
Attention: Dr. L. Morley

Italy

Telespazio
S.P.A. Per le Comunicazioni Spaziali
Corso d'Italia 42-43
Roma 00198, Italy
Attention: Dr. G. Bressanian

For information concerning data available in these regions, it is suggested that the above data banks be contacted directly at the above addresses.

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MSS Sensor

SECTION 1 - STANDARD CATALOG

MONTHLY CATALOG

The coverage contained in the monthly Standard Catalog is divided into two parts. Part 1 contains a computer generated listing organized by observation identification number (ID) and includes pertinent information about each image. Part 2 provides a computer listing of observations organized by latitude/longitude.

A. Observation Identification Number (ID) Listing

Observation ID numbers are listed in sequential order from smallest number to largest. Associated with each ID number in the list is pertinent information about that observation. A sample catalog page with a description of each data item is shown in Figure 1-1.

B. Latitude/Longitude Listing

This listing contains the same observations as the observation ID listing but organizes them by coordinates using image center location information for each observation. Observations in this listing will be sorted first by latitude, and within latitude by longitude. The latitude/longitude listing is arranged in the following manner:

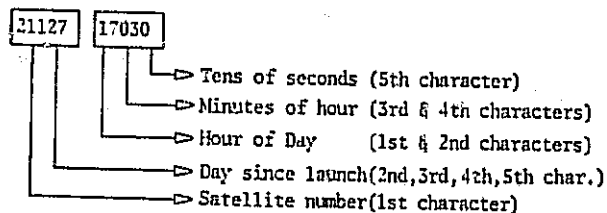
0-90 degrees North; 0-180 degrees East and 0-180 degrees West
followed by
0-90 degrees South; 0-180 degrees East and 0-180 degrees West

C SAMPLE OBSERVATION ID AND LATITUDE/LONGITUDE FORMAT

STANDARD CATALOG																	
LANDSAT 2 MSS SENSOR																	
FROM 01/01/78 TO 04/30/78																	
(1) OBSERVATION ID	(5) ENTRY DATE	(13) PATH	(7) ROW	(14) ORBIT #	(9) DAY/NITE SPCL	(6) SUN ELEV	(10) SUN AZIM	(8) %CLD COVER	(11) QUALITY	(12) CCM	(15) CCM QLTY	(11) MODE	(12) GAIN	(8) PICTURE CNTR LAT	(8) PICTURE CNTR LONG	(4) MICROFILM ROLL	(4) MICRFLM FRAME
21127-17030	03/09/78	41	33	15715	D	28.40	133.71	0	EEEE	NO		CCCL	LLLL	38.77 N	112.69 W	2-90057	0001
21127-17033	03/09/78	42	34	15715	D	29.16	132.80	0	EEEE	NO		CCCL	LLLL	37.35 N	113.17 W	2-90057	0002
21127-17035	03/09/78	41	35	15715	D	29.91	131.88	0	EEEE	NO		CCCL	LLLL	35.93 N	113.63 W	2-90057	0003
21127-17042	03/09/78	41	36	15715	D	30.64	130.95	0	EEEE	NO		CCCL	LLLL	34.50 N	114.08 W	2-90057	0004
21127-17044	03/09/78	41	37	15715	D	31.35	130.00	0	EEEE	NO		CCCL	LLLL	33.07 N	114.51 W	2-90057	0005
21127-17051	03/09/78	41	38	15715	D	32.05	129.04	0	EEEE	NO		CCCL	LLLL	31.64 N	114.94 W	2-90057	0006
21127-18410	03/09/78	59	20	15716	S	17.49	145.52	90	EEEE	NO		CCCL	LLLL	57.05 N	130.19 W	2-90057	0007
21127-18412	03/09/78	59	21	15716	S	18.38	144.53	80	EEEE	NO		CCCL	LLLL	55.66 N	131.05 W	2-90057	0008

Description of Data Items

1. Date of catalog listing
 2. Period during which imagery was processed
 3. Observation ID



- RBV and MSS microfilm roll and image position on roll
- Date of Entry
- Estimated percent of cloud cover = 0-100%; N/A indicates cloud cover not assessed.
- Orbit number
- Latitude and Longitude at observation center
- Sun elevation and azimuth at observation center
- Image quality: P = Poor, F = Fair, E = Excellent, M = Missing. Any number in the Quality column will represent a "J" code (see page 3 for "J" codes).
- MSS Data Mode: "C" indicates that the spacecraft signal compression mode was used to acquire bands 4, 5 and 6; "L" indicates that all bands were acquired in the linear mode.
- MSS Image Gain: "L" indicates that all bands were acquired in low gain mode; "H" indicates that bands 4 and 5 were acquired by the spacecraft in the high gain mode.
- Path/Row - World frame reference system
- Day/Nite Spcl: D = daytime coverage
 N = nighttime coverage (band 8 only)
 S = twilight coverage (Sun elevation is between 0 and 20 degrees)
- CCM/CCM quality: CCM indicates that a color composite master exists for that image. CCM quality indicates the quality of the color composite master (P=Poor, F=Fair, E=Excellent).

FIGURE 1-1 PRINTOUT FORMAT

J-CODES

- J-0 = M = missing images on archival film product.
- J-1 = images on archival film fail criteria because of photographic problems such as processing chemical spots or stains.
- J-2 = electron beam recorder problem evident on archival film product including:
more than 21 line drops and/or greater than 25% of image area affected;
electron beam recorder image correction failure causing image breakup;
sync lock loss; banding; window pane; false start of scan code; and data shifts.
- J-3 = spacecraft attitude parameter change rate exceeds normal limits.
- J-4 = ascending node (night) band 4-7 images on archival film or tape products (i.e., no discernable image data on bands 4-7); band 8 data available.
- J-5 = archival film bears emulsion defects which are supplier related; e.g., paint chips from film spools, film blisters, emulsion tears due to lack of adhesion.
- J-6 = partial image produced on film because of data problem; film is correctly annotated.
- J-7 = wide band video tape damaged or unavailable; digital and archival film product cannot be regenerated.
- J-8 = spacecraft data tape damaged; cannot regenerate digital product.
- J-9 = one or more tracks on wide band video tape are unrecoverable; cannot generate digital product.

SECTION 2 - MICROFILM

2.1 GENERAL

The Image Processing Facility produces a 16mm microfilm inventory of imagery processed during the referenced month which is organized for convenient use with the Standard Catalog. The following information applies only to Standard Catalogs produced after December of 1977. Refer to Document NTISUB/C/139-012 for catalogs produced prior to January of 1978.

As in the case of the Standard Catalog, the microfilm data can contain U.S. and non-U.S. segments. Each set of microfilm images is in correspondence to a Standard Catalog, except for "J" coded images which are not microfilmed, and can be used in conjunction with the catalog for selecting desired images. A maximum of 1000 images representing one or more complete Archival rolls is contained on one roll of 16mm X 100 feet of microfilm. Because the microfilm images are intended to provide a summary of the data available, only Landsat 2 MSS Band 5 and Landsat 3 RBV (cameras 1 and 2) and MSS Bands 5 and 8 are reproduced.

2.2 INTERPRETING THE CATALOG PRINTOUT

Microfilm roll numbers contain six digits, followed by a four digit frame count.

The first digit designates the satellite. Example: 3-90001/0002 is a Landsat 3 roll. The second digit will always be a 9 to designate combined U.S. and non-U.S. coverage. The remaining 5 digits before the slash are used to sequentially number all microfilm rolls prepared within each satellite group. Example: the first roll of microfilm generated for Landsat 3 is numbered 3-90001/0002. The four digit number following the roll number designates the frame location number of the scene. Example: The second frame into the roll, described above, reads 3-90001/0002.

2.3 16mm MICROFILM ROLL FORMAT

The beginning of each roll of 16mm microfilm contains 3 information frames followed by the imagery frames.

The first frame states START OF REEL and contains the microfilm roll number. The second frame contains information about where the roll of film was produced. The third frame is a 3x3 density array target which is used as an internal quality control check.

The imagery frames which follow are in the same sequence as listed in the Standard Catalog Printout.

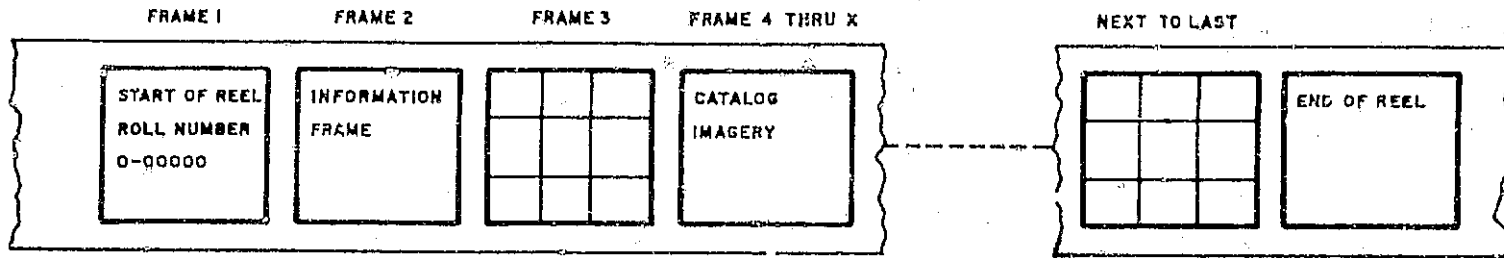


Figure 2-1 Microfilm Roll Format

2.4 MICROFILM IMAGE FORMAT

Each microfilm image contains all of the original annotation information plus two rapid search aids and a numbering system to help the user quickly reach the desired scene. See Figure 2-2.

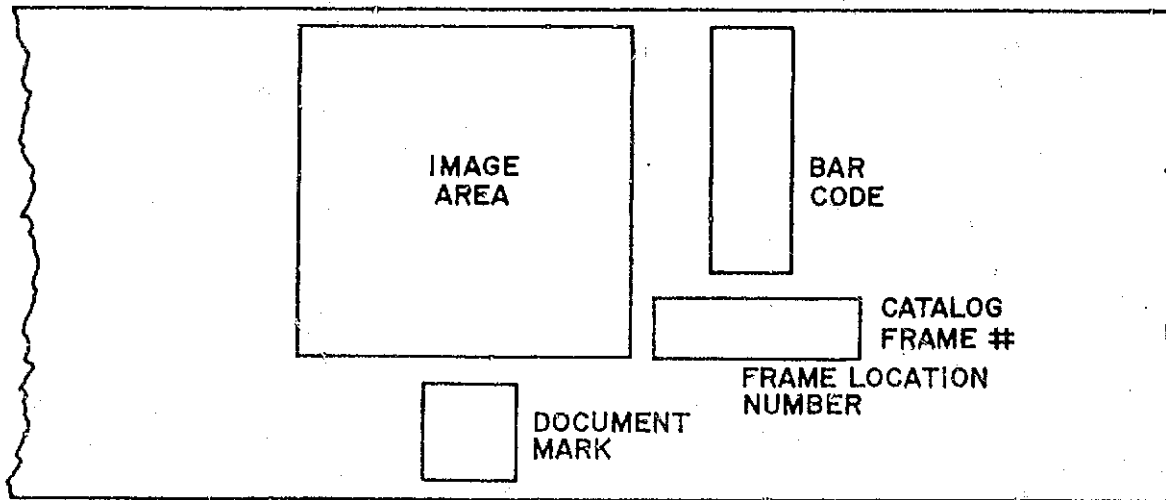


Figure 2-2 Microfilm Image Format

2.5 USER SEARCH AIDS

The User Search aids are the bar code indexing system, the document mark, and the four digit number.

A. Bar Code Indexing System

The Landsat microfilm images have been annotated with visual bar code lines to the right of each frame. The visual bar code lines graduate up the edge of the screen as the film advances and allows the user to advance rapidly to within 49 frames of his desired image. See Figure 2-3.

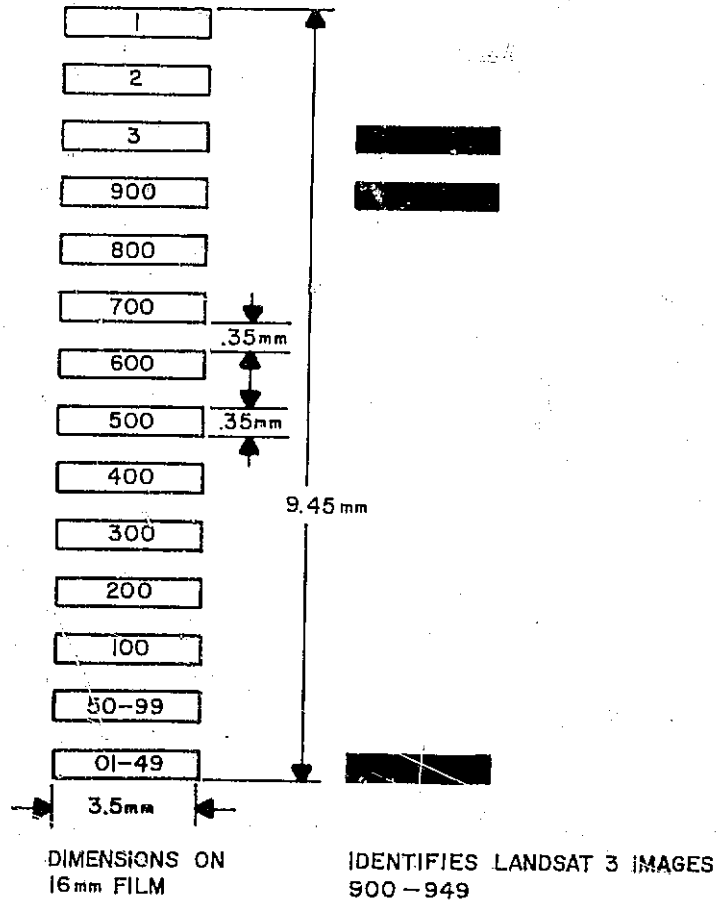


FIGURE 2-3 BAR CODE INDEXING SCALE

To utilize this system, a user must generate a bar code indexing scale to attach to the face of his viewer. The size and spacing for the bar scale is dependent upon the magnification of his viewer. Landsat imagery is microfilmed at a reduction ratio of 5.75X. To determine the overall length of a bar code indexing scale required for the users' microfilm viewer, multiply 9.45mm (14 bars and 13 spaces, each .35mm in height) by the viewer lens enlargement factor. Multiply .35mm by the viewer lens enlargement factor to determine the individual bar and space heights on the bar code indexing scale.

B. The Document Mark

The LANDSAT microfilm images have also been annotated with a document mark at the base of each frame. This type of encoding is designed for use on readers with an electronic sensing and counting capability or an odometer. To use the document mark encoding retrieval system, the film will have to be placed in a cartridge. When the cartridge is placed in a reader which contains an odometer or has a keyboard attached, the identification of the desired image is obtained from the Standard Catalog (columns 17 & 18-Microfilm Roll and Frame) and either punched on the keyboard or read via the odometer as the film advances. Using a reader configured for rapid search and retrieval, the film advances and the frames' document marks are counted by means of a photosensing light. When the appropriate number has been counted, the reader stops and the desired image is projected on the screen. Using a reader with an odometer requires the user to monitor the odometer as the film advances and stop the advance of the film in the vicinity of the required frame. (See Figure 2-4.)

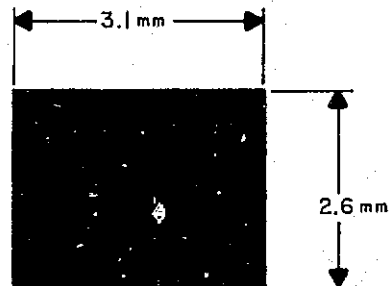


Figure 2-4 Document Mark Size on 16mm Microfilm

SECTION 3 - LANDSAT 2 CYCLFS

CYCLE	DAYS SINCE LAUNCH		CALENDAR DATE		CYCLE	DAYS SINCE LAUNCH		CALENDAR DATE	
	BEGIN	END	BEGIN	END		BEGIN	END	BEGIN	END
38	689	706	11 Dec 76	28 Dec 76	55	995	1012	13 Oct 77	30 Oct 77
39	707	724	29 Dec 76	15 Jan 77	56	1013	1030	31 Oct 77	17 Nov 77
40	725	742	16 Jan 77	2 Feb 77	57	1031	1048	18 Nov 77	5 Dec 77
41	743	760	3 Feb 77	20 Feb 77	58	1049	1066	6 Dec 77	23 Dec 77
42	761	778	21 Feb 77	10 Mar 77	59	1067	1084	24 Dec 77	10 Jan 78
43	779	796	11 Mar 77	28 Mar 77	60	1085	1102	11 Jan 78	28 Jan 78
44	797	814	29 Mar 77	15 Apr 77	61	1103	1120	29 Jan 78	15 Feb 78
45	815	832	16 Apr 77	3 May 77	62	1121	1138	16 Feb 78	5 Mar 78
46	833	850	4 May 77	21 May 77	63	1139	1156	6 Mar 78	23 Mar 78
47	851	868	22 May 77	8 Jun 77	64	1157	1174	24 Mar 78	10 Apr 78
48	869	886	9 Jun 77	26 Jun 77	65	1175	1192	11 Apr 78	28 Apr 78
49	887	904	27 Jun 77	14 Jul 77	66	1193	1210	29 Apr 78	16 May 78
50	905	922	15 Jun 77	1 Aug 77	67	1211	1228	17 May 78	3 Jun 78
51	923	940	2 Aug 77	19 Aug 77	68	1229	1246	4 Jun 78	21 Jun 78
52	941	958	20 Aug 77	6 Sep 77	69	1247	1264	22 Jun 78	9 Jul 78
53	959	976	7 Sep 77	24 Sep 77	70	1265	1282	10 Jul 78	27 Jul 78
54	977	994	25 Sep 77	12 Oct 77	71	1283	1300	28 Jul 78	14 Aug 78

LANDSAT 2 CYCLES (Cont'd)

CYCLE	DAYS SINCE LAUNCH		CALENDAR DATE		CYCLE	DAYS SINCE LAUNCH		CALENDAR DATE	
	BEGIN	END	BEGIN	END		BEGIN	END	BEGIN	END
72	1301	1318	15 Aug 78	1 Sep 78	76	1373	1390	26 Oct 78	12 Nov 78
73	1319	1336	2 Sep 78	19 Sep 78	77	1391	1408	13 Nov 78	30 Nov 78
74	1337	1354	20 Sep 78	7 Oct 78	78	1409	1426	1 Dec 78	18 Dec 78
75	1355	1372	8 Oct 78	25 Oct 78	79	1427	1444	19 Dec 78	5 Jan 79

SECTION 4

**LANDSAT 2
OBSERVATION ID LISTING**

GODDARD SPACE FLIGHT CENTER
LANDSAT IMAGE PROCESSING FACILITY
INFORMATION PRODUCTION AND CONTROL SYSTEM

ARCHIVAL IMAGE REPORT -ARCHIM
STANDARD CATALOG
LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

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17:18

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	Z CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2111819302	10/21/78	68	16	15591	S	10.69	150.42	0	EEEE	NO		CCCL	LLLL	62.54 N	139.06 W	290079	1
2111819305	10/21/78	68	17	15591	S	11.63	149.28	10	EEEE	NO		CCCL	LLLL	61.18 N	140.20 W	290079	2
2111819311	10/21/78	68	18	15591	S	12.55	148.22	80	EEEE	NO		CCCL	LLLL	59.81 N	141.25 W	290079	3
2111819314	10/21/78	68	19	15591	S	13.47	147.21	NA	MMMM	NO		CCCL	LLLL	58.43 N	142.21 W	0	0
2111821134	10/21/78	86	16	15592	S	10.75	150.38	NA	FHEM	NO		CCCL	LLLL	62.50 N	164.84 W	290079	4
2111821141	10/21/78	86	17	15592	S	11.67	149.25	100	EEEE	NO		CCCL	LLLL	61.15 N	165.97 W	290079	5
2111821143	10/21/78	86	18	15592	S	12.60	148.19	100	EEEE	NO		CCCL	LLLL	59.78 N	167.03 W	290079	6
2111821150	10/21/78	86	19	15592	S	13.52	147.18	90	EEEE	NO		CCCL	LLLL	58.41 N	168.00 W	290079	7
2111821152	10/21/78	86	20	15592	S	14.44	146.22	100	EEEE	NO		CCCL	LLLL	57.03 N	168.91 W	290079	8
2111821155	10/21/78	86	21	15592	S	15.34	145.31	70	EEEE	NO		CCCL	LLLL	55.65 N	169.76 W	290079	9
2111821161	10/21/78	86	22	15592	S	16.24	144.42	40	EEEE	NO		CCCL	LLLL	54.27 N	170.56 W	290079	10
2111821163	10/21/78	86	23	15592	S	17.14	143.56	40	EEEE	NO		CCCL	LLLL	52.88 N	171.32 W	290079	11
2111821170	10/21/78	86	24	15592	S	18.03	142.71	NA	MMMM	NO		CCCL	LLLL	51.48 N	172.03 W	0	0
2120215402	10/01/78	26	31	16760	D	51.80	119.63	NA	2222	NO		CCCL	LLLL	41.61 N	090.17 W	0	0
2120215405	10/01/78	26	32	16760	D	52.30	117.57	NA	MMMM	NO		CCCL	LLLL	40.19 N	090.67 W	0	0
2120215411	10/01/78	26	33	16760	D	52.67	115.50	NA	MMMM	NO		CCCL	LLLL	38.77 N	091.15 W	0	0
2120215413	10/01/78	26	34	16760	D	52.99	113.40	NA	MMMM	NO		CCCL	LLLL	37.34 N	091.63 W	0	0
2120215420	10/01/78	26	35	16760	D	53.27	111.28	NA	MMMM	NO		CCCL	LLLL	35.92 N	092.10 W	0	0
2120215423	10/01/78	26	36	16760	D	53.50	109.14	NA	MMMM	NO		CCCL	LLLL	34.49 N	092.54 W	0	0
2120215425	10/01/78	26	37	16760	D	53.67	107.00	50	FFFF	NO		CCCL	LLLL	33.06 N	092.98 W	290079	15
2120215432	10/01/78	26	38	16760	D	53.80	104.84	90	EEFE	NO		CCCL	LLLL	31.64 N	093.42 W	290079	16
2120215434	10/01/78	26	39	16760	D	53.88	102.69	NA	6666	NO		CCCL	LLLL	30.21 N	093.83 W	0	0
2121917152	10/21/78	43	23	16998	D	50.69	132.61	50	EEEE	NO		CCCL	LLLL	52.86 N	109.63 W	290079	12
2121917163	10/21/78	43	26	16998	D	52.52	126.29	20	EEEE	NO		CCCL	LLLL	48.65 N	111.66 W	290079	13
2121917170	10/21/78	43	27	16998	D	53.05	124.13	50	EEEE	NO		CCCL	LLLL	47.25 N	112.28 W	290079	14
2121917172	10/21/78	43	28	16998	D	53.53	121.95	80	EEEE	NO		CCCL	LLLL	45.84 N	112.87 W	290079	15
2122818063	10/21/78	52	21	17124	D	50.45	135.61	0	FFEF	NO		CCCL	LLLL	55.64 N	121.00 W	290079	16
2122818084	10/21/78	52	26	17124	D	53.53	124.72	30	FFEE	NO		CCCL	LLLL	48.65 N	124.55 W	290079	17
2122818090	10/21/78	52	27	17124	D	54.02	122.48	70	FFEE	NO		CCCL	LLLL	47.24 N	125.17 W	290079	18
2123201240	10/07/78	127	38	17170	D	56.20	096.01	70	EEEE	NO		CCCL	LLLL	31.62 N	121.74 E	290079	464
2123201243	10/07/78	127	39	17170	D	56.06	093.69	80	EEEE	NO		CCCL	LLLL	30.19 N	121.34 E	290079	465
2123201284	10/07/78	127	49	17170	D	51.81	073.23	10	EEEE	NO		CCCL	HHLL	15.84 N	117.56 E	290079	466
2123201290	10/07/78	127	50	17170	D	51.15	071.53	30	EEFE	NO		CCCL	HHLL	14.40 N	117.21 E	290079	467
2123201293	10/07/78	127	51	17170	D	50.45	069.91	40	EEEE	NO		CCCL	HHLL	12.96 N	116.86 E	290079	468
2123201295	10/07/78	127	52	17170	D	49.71	068.34	40	EEEE	NO		CCCL	HHLL	11.52 N	116.51 E	290079	469
2123201302	10/07/78	127	53	17170	D	48.94	066.85	NA	MMMM	NO		CCCL	HHLL	10.08 N	116.16 E	0	0

12/12/78
17:20

ARCHIVAL IMAGE REPORT - ARCHIM
LANDSAT 2 MSS SENSOR

FROM 10/01/78 TO 10/31/78

PAGE 2

OBSERVATION ID	ENTRY DATE	PATH	ROW #	ORBIT #	DAY/NITE /SPCL	SUN FLEW	SUN AZIM	% CLD COVER	QUALITY 4567	CCM OLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME	
2123201304	10/07/78	127	54	17170	D	48.15	065.43	80	EEEE	NO			CCCL MHLL	08.64 N	115.81 E	290079	470
2123201311	10/07/78	127	55	17170	D	47.32	064.07	100	EEEE	NO			CCCL MHLL	07.20 N	115.46 E	290079	471
2123201313	10/07/78	127	56	17170	D	46.47	062.78	90	EEEE	NO			CCCL MHLL	05.76 N	115.13 E	290079	472
2123203010	10/07/78	145	23	17171	D	52.06	130.92	80	EEEE	NO			CCCL LLLL	52.87 N	104.03 E	290079	473
2123420202	10/21/78	76	11	17209	D	42.58	157.82	90	EEFF	NO			CCCL LLLL	69.18 N	143.06 W	290079	19
2123420205	10/21/78	76	12	17209	D	43.52	155.21	90	EEFF	NO			CCCL LLLL	67.87 N	144.86 W	290079	20
2123420211	10/21/78	76	13	17209	D	44.44	152.72	40	EEFF	NO			CCCL LLLL	66.56 N	146.50 W	290079	21
2123420214	10/21/78	76	14	17209	D	45.35	150.34	30	EEFF	NO			CCCL LLLL	65.22 N	147.96 W	290079	22
2124107212	10/01/78	190	27	17299	D	54.54	120.89	30	FEFF	NO			CCCL LLLL	47.25 N	036.84 E	290079	246
2124107214	10/01/78	190	28	17299	D	54.95	118.57	80	EEEE	NO			CCCL LLLL	45.84 N	036.26 E	290079	247
2124107221	10/01/78	190	29	17299	D	55.31	116.21	60	EFFE	NO			CCCL LLLL	44.43 N	035.69 E	290079	248
2126418081	10/21/78	52	21	17626	D	49.93	133.86	90	FEFE	NO			CCCL LLLL	55.63 N	120.96 W	290079	23
2126418102	10/21/78	52	26	17626	D	52.81	123.07	90	EEEE	NO			CCCL LLLL	48.64 N	124.53 W	290079	24
2126418104	10/21/78	52	27	17626	D	53.27	120.86	80	EEFF	NO			CCCL LLLL	47.23 N	125.14 W	290079	25
2127003142	10/21/78	183	23	17701	D	50.52	130.02	10	FEFF	NO			CCCL LLLL	52.85 N	101.20 E	290079	26
2127003391	10/21/78	183	19	17703	D	47.80	138.36	80	EEEE	NO			CCCL LLLL	58.39 N	052.88 E	290079	27
2127006394	10/21/78	183	20	17703	D	48.53	136.28	80	FEFE	NO			CCCL LLLL	57.01 N	051.97 E	290079	28
2127006400	10/21/78	183	21	17703	D	49.22	134.20	90	FEFF	NO			CCCL LLLL	55.62 N	051.13 E	290079	29
2127006403	10/21/78	183	22	17703	D	49.88	132.12	100	EEFF	NO			CCCL LLLL	54.24 N	050.33 E	290079	30
2127006405	10/21/78	183	23	17703	D	50.50	130.03	100	FEFF	NO			CCCL LLLL	52.84 N	049.58 E	290079	31
2127006412	10/21/78	183	24	17703	D	51.09	127.93	90	EEFF	NO			CCCL LLLL	51.45 N	048.87 E	290079	32
2127006414	10/21/78	183	25	17703	D	51.64	125.81	80	EEEE	NO			CCCL LLLL	50.05 N	048.19 E	290079	33
2127006421	10/21/78	183	26	17703	D	52.15	123.67	30	FEFE	NO			CCCL LLLL	48.64 N	047.55 E	290079	34
2127006423	10/21/78	183	27	17703	D	52.61	121.51	10	FEFE	NO			CCCL LLLL	47.23 N	046.93 E	290079	35
2127006430	10/21/78	183	28	17703	D	53.04	119.32	0	PE2F	NO			CCCL LLLL	45.82 N	046.34 E	290079	36
2127006432	10/21/78	183	29	17703	D	53.42	117.12	0	EE2F	NO			CCCL LLLL	44.41 N	045.78 E	290079	37
2127006435	10/21/78	183	30	17703	D	53.76	114.89	20	EEFF	NO			CCCL LLLL	43.00 N	045.23 E	290079	38
2127006441	10/21/78	183	31	17703	D	54.04	112.66	10	EEFF	NO			CCCL LLLL	41.58 N	044.71 E	290079	39
2127006444	10/21/78	183	32	17703	D	54.28	110.42	10	FEFF	NO			CCCL LLLL	40.16 N	044.21 E	290079	40
2128506243	10/01/78	180	23	17912	D	47.89	132.37	50	EEEE	NO			CCCL LLLL	52.86 N	053.85 E	290079	168
2128506245	10/01/78	180	24	17912	D	48.53	130.44	30	EEEE	NO			CCCL LLLL	51.46 N	053.14 E	290079	169
2128506252	10/01/78	180	25	17912	D	49.14	128.50	20	EEFF	NO			CCCL LLLL	50.06 N	052.47 E	290079	170
2128506254	10/01/78	180	26	17912	D	49.72	126.52	20	EEEE	NO			CCCL LLLL	48.65 N	051.82 E	290079	0
2128506275	10/01/78	180	31	17912	D	52.01	116.37	NA	MMMM	NO			CCCL LLLL	41.59 N	049.00 E	0	0
2128508065	10/01/78	198	21	17913	D	46.50	136.20	30	EEEE	NO			CCCL LLLL	55.63 N	029.61 E	290079	171
2128508072	10/01/78	198	22	17913	D	47.21	134.28	10	EEEE	NO			CCCL LLLL	54.24 N	028.81 E	290079	172
2128508074	10/01/78	198	23	17913	D	47.88	132.36	NA	MMMM	NO			CCCL LLLL	52.85 N	028.06 E	0	0
2128508081	10/01/78	198	24	17913	D	48.52	130.43	NA	MMMM	NO			CCCL LLLL	51.45 N	027.35 E	0	0
2128508083	10/01/78	198	25	17913	D	49.14	128.48	NA	2222	NO			CCCL LLLL	50.05 N	026.67 E	0	0
2128508090	10/01/78	198	26	17913	D	49.71	126.51	30	EEEE	NO			CCCL LLLL	48.64 N	026.03 E	290079	173

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2128508092	10/01/78	198	27	17913	D	50.75	124.53	40	EEEE	NO		CCCL	LLLL	47.24 N	025.41 E	290079	174
2128508095	10/01/78	198	28	17913	D	50.75	122.52	30	EEEE	NO		CCCL	LLLL	45.83 N	024.82 E	290079	175
2128508101	10/01/78	198	29	17913	D	51.21	120.50	30	EEEE	NO		CCCL	LLLL	44.41 N	024.26 E	290079	176
2128508104	10/01/78	198	30	17913	D	51.62	118.46	40	EEEE	NO		CCCL	LLLL	43.00 N	023.72 F	290079	177
2128508110	10/01/78	198	31	17913	D	52.00	116.39	40	EEEE	NO		CCCL	LLLL	41.58 N	023.20 E	290079	178
2128509471	10/01/78	216	14	17914	D	40.82	150.19	80	EEEE	NO		CCCL	HHLL	65.20 W	011.23 E	290079	179
2128509474	10/01/78	216	15	17914	D	41.70	148.06	40	EEEE	NO		CCCL	HHLL	63.86 N	009.89 E	290079	180
2128523591	10/01/78	109	76	17922	D	27.64	052.40	90	EEEE	NO		CCCL	LLLL	23.03 S	134.04 E	290079	181
2128603034	10/29/78	163	23	17924	D	47.71	132.54	NA	MMMM	NO		CCCL	LLLL	52.86 N	104.05 F	0	0
2128604454	10/01/78	163	20	17925	D	45.58	138.26	60	EEEE	NO		CCCL	LLLL	57.02 N	080.64 E	290079	73
2128604461	10/01/78	163	21	17925	D	46.32	136.35	80	EEEE	NO		CCCL	LLLL	55.64 N	079.79 E	290079	94
2128604463	10/01/78	163	22	17925	D	47.03	134.43	80	EEEE	NO		CCCL	LLLL	54.25 N	079.00 E	290079	95
2128604470	10/01/78	163	23	17925	D	47.71	132.53	70	EEEE	NO		CCCL	LLLL	52.86 N	078.25 E	290079	96
2128604472	10/01/78	163	24	17925	D	48.35	130.61	30	EEEE	NO		CCCL	LLLL	51.46 N	077.53 F	290079	97
2128604475	10/01/78	163	25	17925	D	48.97	128.66	30	EEEE	NO		CCCL	LLLL	50.06 N	076.85 E	290079	98
2128604481	10/01/78	163	26	17925	D	49.55	126.70	20	EEEE	NO		CCCL	LLLL	48.65 N	076.21 F	290079	99
2128604484	10/01/78	163	27	17925	D	50.09	124.73	10	EEEE	NO		CCCL	LLLL	47.24 N	075.59 E	290079	100
2128604490	10/01/78	163	28	17925	D	50.59	122.75	0	EEEE	NO		CCCL	LLLL	45.83 N	075.01 E	290079	101
2128604493	10/01/78	163	29	17925	D	51.06	120.73	0	EEEE	NO		CCCL	LLLL	44.42 N	074.44 E	290079	102
2128604495	10/01/78	163	30	17925	D	51.48	118.70	10	EEEE	NO		CCCL	LLLL	43.01 N	073.89 F	290079	103
2128604520	10/01/78	163	35	17925	D	52.94	108.26	10	EEEE	NO		CCCL	LLLL	35.90 N	071.44 E	290079	104
2128604522	10/01/78	163	36	17925	D	53.09	106.15	NA	EMEE	NO		CCCL	LLLL	34.47 N	071.00 E	290079	105
2128604540	10/01/78	163	40	17925	D	53.21	097.67	20	EEEE	NO		CCCL	LLLL	28.76 N	069.31 F	290079	106
2128604543	10/01/78	163	41	17925	D	53.11	095.59	20	EEEE	NO		CCCL	LLLL	27.32 N	068.91 E	290079	107
2128604545	10/01/78	163	42	17925	D	52.97	093.54	10	EEEE	NO		CCCL	LLLL	25.89 N	068.53 E	290079	108
2128604552	10/01/78	163	43	17925	D	52.78	091.50	60	EEEE	NO		CCCL	LLLL	24.45 N	068.14 E	290079	109
2128606283	10/01/78	181	19	17926	D	44.79	140.21	90	EEEE	NO		CCCL	LLLL	58.41 N	055.72 E	290079	110
2128606290	10/01/78	181	20	17926	D	45.56	138.29	60	EEEE	NO		CCCL	LLLL	57.03 N	054.81 E	290079	111
2128606292	10/01/78	181	21	17926	D	46.30	136.38	60	EEEE	NO		CCCL	LLLL	55.65 N	053.96 E	290079	112
2128606295	10/01/78	181	22	17926	D	47.00	134.48	30	EEEE	NO		CCCL	LLLL	54.26 N	053.16 E	290079	113
2128606301	10/01/78	181	23	17926	D	47.68	132.58	10	EEEE	NO		CCCL	LLLL	52.86 N	052.41 E	290079	114
2128606304	10/01/78	181	24	17926	D	48.33	130.65	10	EEEE	NO		CCCL	LLLL	51.46 N	051.70 E	290079	115
2128606310	10/01/78	181	25	17926	D	48.94	128.72	10	EEEE	NO		CCCL	LLLL	50.06 N	051.03 E	290079	116
2128606313	10/01/78	181	26	17926	D	49.52	126.76	10	EEEE	NO		CCCL	LLLL	48.65 N	050.39 E	290079	117
2128606315	10/01/78	181	27	17926	D	50.07	124.78	0	EEEE	NO		CCCL	LLLL	47.24 N	049.78 E	290079	118
2128606322	10/01/78	181	28	17926	D	50.58	122.78	0	EEEE	NO		CCCL	LLLL	45.83 N	049.19 E	290079	119
2128606324	10/01/78	181	29	17926	D	51.04	120.77	20	EEEE	NO		CCCL	LLLL	44.42 N	048.63 E	290079	120
2128606331	10/01/78	181	30	17926	D	51.47	118.73	20	EEEE	NO		CCCL	LLLL	43.00 N	048.08 E	290079	121
2128606333	10/01/78	181	31	17926	D	51.85	116.67	20	EEEE	NO		CCCL	LLLL	41.59 N	047.55 E	290079	122
2128608112	10/01/78	199	18	17927	D	43.99	142.16	10	EEEE	NO		CCCL	LLLL	59.79 N	030.87 E	290079	123

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCP QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	M3C FLM FRAME
2128608115	10/01/78	199	19	17927	D	44.78	140.22	10	EEEE	NO							
2128608121	10/01/78	199	20	17927	D	45.54	138.31	10	EEEE	NO							
2128608124	10/01/78	199	21	17927	D	46.28	136.40	10	EEEE	NO							
2128608130	10/01/78	199	22	17927	D	46.99	134.50	10	EEEE	NO							
2128608133	10/01/78	199	23	17927	D	47.66	132.59	10	EEEE	NO							
2128608135	10/01/78	199	24	17927	D	48.31	130.67	10	EEEE	NO							
2128608142	10/01/78	199	25	17927	D	48.93	128.73	30	EEEE	NO							
2128608144	10/01/78	199	26	17927	D	49.51	126.78	70	EEEE	NO							
2128608151	10/01/78	199	27	17927	D	50.05	124.81	50	EEEE	NO							
2128608153	10/01/78	199	28	17927	D	50.56	122.82	20	EEEE	NO							
2128608160	10/01/78	199	29	17927	D	51.03	120.80	10	EEEE	NO							
2128608162	10/01/78	199	30	17927	D	51.45	118.77	10	EEEE	NO							
2128608165	10/01/78	199	31	17927	D	51.84	116.70	10	EEEE	NO							
2128609535	10/01/78	217	16	17928	D	42.33	146.11	80	EEEE	NO							
2128609542	10/01/78	217	17	17928	D	43.17	144.11	70	EEEE	NO							
2128609544	10/01/78	217	18	17928	D	43.98	142.15	NA	MMMM	NO							
2128615093	10/07/78	20	30	17931	D	51.41	118.81	50	EEEE	NO							
2128615095	10/07/78	20	31	17931	D	51.80	116.77	80	EEEE	NO							
2128615102	10/07/78	20	32	17931	D	52.14	114.70	80	EEEE	NO							
2128615104	10/07/78	20	33	17931	D	52.43	112.61	80	EEEE	NO							
2128615111	10/07/78	20	34	17931	D	52.68	110.51	30	EEEE	NO							
2128615113	10/07/78	20	35	17931	D	52.89	108.39	30	EEEE	NO							
2128616495	10/01/78	38	23	17932	D	47.60	132.63	10	EEEE	NO							
2128616502	10/01/78	38	24	17932	D	48.25	130.71	30	EEEE	NO							
2128616504	10/01/78	38	25	17932	D	48.87	128.77	20	EEEE	NO							
2128616511	10/01/78	38	26	17932	D	49.45	126.82	20	EEEE	NO							
2128616513	10/01/78	38	27	17932	D	50.00	124.86	30	EEEE	NO							
2128616520	10/01/78	38	28	17932	D	50.50	122.88	20	EEEE	NO							
2128616522	10/01/78	38	29	17932	D	50.97	120.88	50	EEEE	NO							
2128616525	10/01/78	38	30	17932	D	51.40	118.85	30	EEEE	NO							
2128616531	10/01/78	38	31	17932	D	51.78	116.79	30	EEEE	NO							
2128616534	10/01/78	38	32	17932	D	52.13	114.73	30	EEEE	NO							
2128616540	10/01/78	38	33	17932	D	52.42	112.64	50	EEEE	NO							
2128616543	10/01/78	38	34	17932	D	52.67	110.54	10	EEEE	NO							
2128616545	10/01/78	38	35	17932	D	52.88	108.43	10	EEEE	NO							
2128616552	10/01/78	38	36	17932	D	53.03	106.31	20	EEEE	NO							
2128616554	10/01/78	38	37	17932	D	53.14	104.20	10	EEEE	NO							
2128616561	10/01/78	38	38	17932	D	53.20	102.08	10	EEEE	NO							
2128620112	10/07/78	74	11	17934	D	37.75	157.26	20	EEEE	NO							
2128620115	10/07/78	74	12	17934	D	38.69	154.81	10	2EEE	NO							

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2128620121	10/07/78	74	13	17934	D	39.59	152.52	10	EEEE	NO	CCCL	LLLL	66.53 N	143.60 W	290079	302
2128620124	10/07/78	74	14	17934	D	40.49	150.33	10	EEEE	NO	CCCL	LLLL	65.20 N	145.07 W	290079	303
2128620130	10/07/78	74	15	17934	D	41.37	148.21	10	EEEE	NO	CCCL	LLLL	63.86 N	146.41 W	290079	304
2128620133	10/07/78	74	16	17934	D	42.23	146.16	10	EEEE	NO	CCCL	LLLL	62.51 N	147.63 W	290079	305
2128700050	10/01/78	110	76	17936	D	27.82	052.59	100	EEEE	NO	CCCL	LLLL	23.02 S	132.58 E	290079	139
2128700073	10/01/78	110	82	17936	D	21.24	050.76	NA	MMMM	NO	CCCL	LLLL	31.62 S	130.23 E	0	C
2128701264	10/01/78	128	24	17937	D	48.17	130.80	20	EEEE	NO	CCCL	LLLL	51.46 N	127.73 E	290079	140
2128701270	10/01/78	128	25	17937	D	48.80	128.86	90	EEEE	NO	CCCL	LLLL	50.06 N	127.05 E	290079	141
2128701273	10/01/78	128	26	17937	D	49.38	126.91	100	EEEE	NO	CCCL	LLLL	48.65 N	126.41 E	290079	142
2128701275	10/01/78	128	27	17937	D	49.93	124.95	100	EEEE	NO	CCCL	LLLL	47.24 N	125.79 E	290079	143
2128701282	10/01/78	128	28	17937	D	50.44	122.97	100	EEEE	NO	CCCL	LLLL	45.83 N	125.20 E	290079	144
2128701284	10/01/78	128	29	17937	D	50.91	120.97	70	EEEE	NO	CCCL	LLLL	44.42 N	124.64 E	290079	145
2128701291	10/01/78	128	30	17937	D	51.34	118.95	60	EEEE	NO	CCCL	LLLL	43.00 N	124.10 E	290079	146
2128701293	10/01/78	128	31	17937	D	51.73	116.90	70	EEEE	NO	CCCL	LLLL	41.58 N	123.58 E	290079	147
2128701300	10/01/78	128	32	17937	D	52.07	114.83	90	EEEE	NO	CCCL	LLLL	40.16 N	123.08 E	290079	148
2128701302	10/01/78	128	33	17937	D	52.37	112.75	90	EEEE	NO	CCCL	LLLL	38.74 N	122.59 E	290079	149
2128701305	10/01/78	128	34	17937	D	52.63	110.65	70	EEEE	NO	CCCL	LLLL	37.32 N	122.12 E	290079	150
2128701311	10/01/78	128	35	17937	D	52.83	108.54	30	EEEE	NO	CCCL	LLLL	35.89 N	121.65 E	290079	151
2128701314	10/01/78	128	36	17937	D	52.99	106.43	40	EEEE	NO	CCCL	LLLL	34.47 N	121.21 E	290079	152
2128701320	10/01/78	128	37	17937	D	53.10	104.32	NA	MMMM	NO	CCCL	LLLL	33.04 N	120.77 E	0	0
2128701323	10/01/78	128	38	17937	D	53.16	102.22	NA	MMMM	NO	CCCL	LLLL	31.61 N	120.34 E	0	0
2128701325	10/01/78	128	39	17937	D	53.18	100.10	40	EEEE	NO	CCCL	LLLL	30.19 N	119.92 E	290079	249
2128703084	10/01/78	146	21	17938	D	46.11	136.54	100	FFFF	NO	CCCL	LLLL	55.64 N	104.17 E	290079	250
2128703090	10/01/78	146	22	17938	D	46.82	134.64	90	FFFF	NO	CCCL	LLLL	54.25 N	103.37 E	290079	251
2128703093	10/01/78	146	23	17938	D	47.50	132.75	NA	666M	NO	CCCL	LLLL	52.86 N	102.62 E	0	0
2130406293	10/01/78	181	19	18177	D	40.21	143.57	80	EEEE	NO	CCCL	LLLL	58.41 N	055.72 E	290079	193
2130406295	10/01/78	181	20	18177	D	41.06	141.87	90	EEEE	NO	CCCL	LLLL	57.03 N	054.82 E	290079	199
2130406302	10/01/78	181	21	18177	D	41.87	140.18	90	EEEE	NO	CCCL	LLLL	55.64 N	053.97 E	290079	200
2130406304	10/01/78	181	22	18177	D	42.67	138.51	80	EEEE	NO	CCCL	LLLL	54.25 N	053.17 E	290079	201
2130406311	10/01/78	181	23	18177	D	43.43	136.85	80	EEEE	NO	CCCL	LLLL	52.86 N	052.42 E	290079	202
2130406313	10/01/78	181	24	18177	D	44.18	135.17	50	EEEE	NO	CCCL	LLLL	51.46 N	051.71 E	290079	203
2130406320	10/01/78	181	25	18177	D	44.90	133.50	30	EEEE	NO	CCCL	LLLL	50.06 N	051.03 E	290079	204
2130406322	10/01/78	181	26	18177	D	45.59	131.80	20	EEEE	NO	CCCL	LLLL	48.65 N	050.39 E	290079	205
2130406325	10/01/78	181	27	18177	D	46.25	130.08	30	FFFF	NO	CCCL	LLLL	47.25 N	049.77 E	290079	206
2130406331	10/01/78	181	28	18177	D	46.99	128.34	60	FFFF	NO	CCCL	LLLL	45.84 N	049.18 E	290079	207
2130408122	10/01/78	199	18	18178	D	39.33	145.31	60	FEFE	NO	CCCL	LLLL	59.78 N	030.87 E	290079	208
2130408124	10/01/78	199	19	18178	D	40.19	143.59	40	FFEE	NO	CCCL	LLLL	58.41 N	029.90 E	290079	209
2130408131	10/01/78	199	20	18178	D	41.03	141.90	20	EEEE	NO	CCCL	LLLL	57.03 N	029.00 E	290079	210
2130408133	10/01/78	199	21	18178	D	41.85	140.21	10	EEEE	NO	CCCL	LLLL	55.65 N	028.14 E	290079	211
2130408140	10/01/78	199	22	18178	D	42.64	138.55	20	EEEE	NO	CCCL	LLLL	54.26 N	027.34 E	290079	212

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2131217364	10/07/78	46	22	18295	D	40.28	140.75	NA	2222	NO		CCCL	LLLL	54.25 N	113.18 W	0	0
2131217373	10/07/78	46	24	18295	D	41.90	137.63	NA	2222	NO		CCCL	LLLL	51.46 N	114.64 W	0	0
2131217382	10/07/78	46	26	18295	D	43.42	134.51	NA	2222	NO		CCCL	LLLL	48.65 N	115.95 W	0	0
2131217384	10/07/78	46	27	18295	D	44.15	132.92	20	EEFE	NO		CCCL	LLLL	47.24 N	116.56 W	290079	76
2131217391	10/07/78	46	28	18295	D	44.85	131.31	30	FFEE	NO		CCCL	LLLL	45.83 N	117.15 W	290079	77
2131217393	10/07/78	46	29	18295	D	45.52	129.68	50	FEFE	NO		CCCL	LLLL	44.42 N	117.72 W	290079	78
2131217400	10/07/78	46	30	18295	D	46.16	128.03	50	EEFF	NO		CCCL	LLLL	43.00 N	118.26 W	290079	79
2131217402	10/07/78	46	31	18295	D	46.77	126.36	50	EEEE	NO		CCCL	LLLL	41.59 N	118.78 W	290079	80
2131217405	10/07/78	46	32	18295	D	47.35	124.66	10	EEEE	NO		CCCL	LLLL	40.17 N	119.29 W	290079	81
2131217411	10/07/78	46	33	18295	D	47.89	122.94	10	EEEE	NO		CCCL	LLLL	38.75 N	119.78 W	290079	82
2131217414	10/07/78	46	34	18295	D	48.39	121.21	10	EEEE	NO		CCCL	LLLL	37.32 N	120.26 W	290079	83
2131217420	10/07/78	46	35	18295	D	48.86	119.44	10	EEEE	NO		CCCL	LLLL	35.90 N	120.72 W	290079	84
2131814474	10/01/78	16	29	18377	D	44.04	131.91	20	EEEE	NO		CCCL	LLLL	44.42 N	074.70 W	290079	218
2131814481	10/01/78	16	30	18377	D	44.72	130.36	20	EEEE	NO		CCCL	LLLL	43.00 N	075.25 W	290079	219
2131814483	10/01/78	16	31	18377	D	45.39	128.77	50	EEEE	NO		CCCL	LLLL	41.59 N	075.76 W	290079	220
2131814490	10/01/78	16	32	18377	D	46.02	127.16	60	EEEE	NO		CCCL	LLLL	40.17 N	076.27 W	290079	221
2131814492	10/01/78	16	33	18377	D	46.63	125.53	90	EEEE	NO		CCCL	LLLL	38.75 N	076.76 W	290079	222
2131814495	10/01/78	16	34	18377	D	47.20	123.87	80	EEEE	NO		CCCL	LLLL	37.33 N	077.25 W	290079	223
2131814501	10/01/78	16	35	18377	D	47.73	122.18	50	FEFE	NO		CCCL	LLLL	35.90 N	077.70 W	290079	224
2131814504	10/01/78	16	36	18377	D	48.23	120.47	40	EEEE	NO		CCCL	LLLL	34.47 N	078.14 W	290079	225
2131814510	10/01/78	16	37	18377	D	48.69	118.73	30	EEEE	NO		CCCL	LLLL	33.05 N	078.58 W	290079	226
2131814513	10/01/78	16	38	18377	D	49.12	116.96	10	EEEE	NO		CCCL	LLLL	31.62 N	079.00 W	290079	227
2131814515	10/01/78	16	39	18377	D	49.51	115.15	10	EEEE	NO		CCCL	LLLL	30.19 N	079.42 W	290079	228
2131814522	10/01/78	16	40	18377	D	49.86	113.31	20	EEEE	NO		CCCL	LLLL	28.76 N	079.83 W	290079	229
2131814524	10/01/78	16	41	18377	D	50.16	111.47	40	EEEE	NO		CCCL	LLLL	27.32 N	080.22 W	290079	230
2131814531	10/01/78	16	42	18377	D	50.42	109.62	30	EEEE	NO		CCCL	LLLL	25.89 N	080.61 W	290079	231
2131814533	10/01/78	16	43	18377	D	50.64	107.76	30	EEEE	NO		CCCL	LLLL	24.46 N	081.00 W	290079	232
2131919570	10/01/78	71	14	18394	D	30.68	155.32	30	FEFE	NO		CCCL	LLLL	65.24 N	140.81 W	290079	87
2131919573	10/01/78	71	15	18394	D	31.67	153.52	10	FEFE	NO		CCCL	LLLL	63.89 N	142.14 W	290079	88
2132020023	10/01/78	72	13	18408	D	29.34	157.35	0	FEFE	NO		CCCL	LLLL	66.57 N	140.77 W	290079	89
2132020025	10/01/78	72	14	18408	D	30.34	155.50	10	FEFE	NO		CCCL	LLLL	65.23 N	142.23 W	290079	90
2132410144	10/01/78	219	34	18458	D	45.93	126.52	0	EE2E	NO		CCCL	LLLL	37.33 N	008.40 W	290079	233
2132410210	10/01/78	219	49	18458	D	50.91	100.00	10	EE2E	NO		CCCL	LLLL	51.84 N	014.38 W	290079	234
2132413493	10/01/78	4	54	18460	D	50.42	090.92	10	EE2E	NO		CCCL	LLLL	08.64 N	067.75 W	290079	235
2132413500	10/01/78	4	55	18460	D	50.18	089.15	10	EE2E	NO		CCCL	LLLL	07.20 N	068.09 W	290079	236
2132413502	10/01/78	4	56	18460	D	49.91	087.41	10	EE2E	NO		CCCL	LLLL	05.76 N	068.43 W	290079	237
2132417031	10/01/78	40	23	18462	D	37.50	142.63	50	EE2E	NO		CCCL	LLLL	52.87 N	105.34 W	290079	238
2132417034	10/01/78	40	24	18462	D	38.37	141.25	30	EE2E	NO		CCCL	LLLL	51.47 N	106.06 W	290079	239
2132417040	10/01/78	40	25	18462	D	39.22	139.85	50	FE2E	NO		CCCL	LLLL	50.07 N	106.73 W	290079	240
2132417043	10/01/78	40	26	18462	D	40.05	138.46	30	FE2E	NO		CCCL	LLLL	48.66 N	107.37 W	290079	241

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2132417045	10/01/78	40	27	18462	D	40.86	137.06	10	EE2E	NO		CCCL	LLLL	47.25 N	107.98 W	290079	242
2132417052	10/01/78	40	28	18462	D	41.65	135.63	20	EE2F	NO		CCCL	LLLL	45.84 N	108.57 W	290079	243
2132418454	10/01/78	58	21	18463	D	35.67	145.46	80	FE2E	NO		CCCL	LLLL	55.66 N	129.61 W	290079	91
2132418450	10/01/78	58	22	18463	D	36.58	144.06	70	FE2E	NO		CCCL	LLLL	54.27 N	130.41 W	290079	92
2132501564	10/01/78	130	64	18467	D	46.37	075.23	40	EE2M	NO		CCCL	LLLL	05.75 S	108.11 E	290079	244
2132501570	10/01/78	130	65	18467	D	45.76	073.88	30	FE26	NO		CCCL	LLLL	07.19 S	107.78 E	290079	245
2132820482	10/29/78	80	12	18520	D	25.48	160.58	90	EEEE	NO		CCCL	LLLL	67.87 N	150.61 W	290079	457
2132820484	10/29/78	80	13	18520	D	26.50	158.69	90	EEEE	NO		CCCL	LLLL	66.57 N	152.25 W	290079	458
2132820491	10/29/78	80	14	18520	D	27.51	156.93	70	EEEE	NO		CCCL	LLLL	65.25 N	153.72 W	290079	459
2132820493	10/29/78	80	15	18520	D	28.51	155.27	20	EEEE	NO		CCCL	LLLL	63.91 N	155.07 W	290079	460
2132820500	10/29/78	80	16	18520	D	29.50	153.69	30	EEEE	NO		CCCL	LLLL	62.56 N	156.29 W	290079	461
2132820502	10/29/78	80	17	18520	D	30.50	152.16	40	EEEE	NO		CCCL	LLLL	61.18 N	157.42 W	290079	462
2132820505	10/29/78	80	18	18520	D	31.48	150.68	70	EEEE	NO		CCCL	LLLL	59.81 N	158.45 W	290079	463
2132903444	10/29/78	152	20	18524	D	33.31	147.93	90	EEEE	NO		CCCL	LLLL	57.03 N	096.40 E	290080	137
2132903451	10/07/78	152	21	18524	D	34.26	146.57	90	EEEE	NO		CCCL	LLLL	55.65 N	095.55 E	290079	474
2132903433	10/07/78	152	22	18524	D	35.18	145.23	60	EEEE	NO		CCCL	LLLL	54.26 N	094.75 E	290079	475
2132903460	10/07/78	152	23	18524	D	36.09	143.91	10	EEEE	NO		CCCL	LLLL	52.86 N	094.00 E	290079	476
2132903462	10/07/78	152	24	18524	D	36.98	142.58	30	EEEE	NO		CCCL	LLLL	51.47 N	093.29 E	290079	477
2132905287	10/07/78	170	21	18525	D	34.21	146.61	50	EEEE	NO		CCCL	LLLL	55.66 N	069.72 E	290079	254
2132909061	10/07/78	206	48	18527	D	50.66	104.89	30	EEEE	NO		CCCL	LLLL	17.28 N	004.58 E	290079	255
2132909064	10/07/78	206	49	18527	D	50.77	103.04	40	EEEE	NO		CCCL	LLLL	15.84 N	004.23 E	290079	256
2132909070	10/07/78	206	50	18527	D	50.94	101.19	10	EEEE	NO		CCCL	LLLL	14.41 N	003.87 E	290079	257
2132909073	10/07/78	206	51	18527	D	50.86	099.34	10	EEEE	NO		CCCL	LLLL	12.97 N	003.52 E	290079	258
2132923052	10/07/78	99	79	18535	D	36.08	061.66	10	EEEE	NO		CCCL	LLLL	27.31 S	147.19 E	290079	259
2133002092	10/07/78	135	25	18537	D	37.58	141.53	10	EEEE	NO		CCCL	LLLL	50.07 N	116.98 E	290079	260
2133003503	10/07/78	153	20	18538	D	32.97	148.18	60	EEEE	NO		CCCL	LLLL	57.04 N	094.96 E	290079	261
2133003510	10/07/78	153	21	18538	D	33.91	146.84	70	EEEE	NO		CCCL	LLLL	55.65 N	094.11 E	290079	262
2133003512	10/07/78	153	22	18538	D	34.84	145.52	20	EEEE	NO		CCCL	LLLL	54.26 N	093.37 E	290079	263
2133003515	10/07/78	153	23	18538	D	35.76	144.20	10	EEEE	NO		CCCL	LLLL	52.86 N	092.57 E	290079	264
2133005335	10/07/78	171	20	18539	D	32.94	148.21	60	EEEE	NO		CCCL	LLLL	57.05 N	069.13 E	290079	265
2133005341	10/07/78	171	21	18539	D	33.88	146.87	10	EEEE	NO		CCCL	LLLL	55.66 N	068.28 E	290079	266
2133005344	10/07/78	171	22	18539	D	34.81	145.55	10	EEEE	NO		CCCL	LLLL	54.27 N	067.48 E	290079	267
2133005350	10/07/78	171	23	18539	D	35.73	144.23	0	EEEE	NO		CCCL	LLLL	52.87 N	066.73 E	290079	268
2133005353	10/07/78	171	24	18539	D	36.63	142.91	10	EEEE	NO		CCCL	LLLL	51.47 N	066.02 E	290079	269
2133005355	10/07/78	171	25	18539	D	37.52	141.60	60	EEEE	NO		CCCL	LLLL	50.07 N	065.35 E	290079	270
2133007161	10/07/78	189	18	18540	D	31.00	150.98	80	EEEE	NO		CCCL	LLLL	59.77 N	045.23 E	290079	478
2133007164	10/01/78	189	19	18540	D	31.98	149.57	70	EEEE	NO		CCCL	LLLL	58.40 N	044.26 E	290079	479
2133007170	10/01/78	189	20	18540	D	32.93	148.20	80	EEEE	NO		CCCL	LLLL	57.02 N	043.35 E	290079	480
2133007173	10/01/78	189	21	18540	D	33.88	146.86	90	EEEE	NO		CCCL	LLLL	55.64 N	042.50 E	290079	481
2133007175	10/01/78	189	22	18540	D	34.81	145.54	100	FFEE	NO		CCCL	LLLL	54.25 N	041.70 E	290079	482

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2133007182	10/01/78	189	23	18540	D	35.73	144.22	90	EEEE	NO		CCCL	LLLL	52.86 N	040.94 E	290079	157
2133007184	10/01/78	189	24	18540	D	36.63	142.91	80	EEEE	NO		CCCL	LLLL	51.46 N	040.23 E	290079	158
2133009122	10/01/78	207	49	18541	D	50.73	103.66	10	EEEE	NO		CCCL	LLLL	15.84 N	002.81 E	290079	159
2133009125	10/01/78	207	50	18541	D	50.81	101.81	30	2222	NO		CCCL	LLLL	14.40 N	002.46 E	0	0
2133009131	10/01/78	207	51	18541	D	50.85	099.96	NA	MMMM	NO		CCCL	LLLL	12.96 N	002.11 E	0	0
2133014251	10/01/78	10	56	18544	D	50.37	091.01	40	2222	NO		CCCL	LLLL	05.76 N	077.04 W	0	0
2133014253	10/01/78	10	57	18544	D	50.14	089.25	40	EEEE	NO		CCCL	LLLL	04.32 N	077.37 W	290079	160
2133014260	10/01/78	10	58	18544	D	49.87	087.53	30	EEEE	NO		CCCL	LLLL	02.88 N	077.71 W	290079	161
2133014262	10/01/78	10	59	18544	D	49.55	085.84	30	EEEE	NO		CCCL	LLLL	01.44 N	078.04 W	290079	162
2133015555	10/07/78	28	28	18545	D	38.26	140.41	90	EEEE	NO		CCCL	LLLL	48.68 N	090.19 W	290079	163
2133015562	10/07/78	28	27	18545	D	39.11	139.09	100	EEEE	NO		CCCL	LLLL	47.26 N	090.80 W	290079	164
2133015564	10/07/78	28	28	18545	D	39.94	137.76	100	EEEE	NO		CCCL	LLLL	45.85 N	091.38 W	290079	165
2133015571	10/07/78	28	29	18545	D	40.76	136.40	90	EEEE	NO		CCCL	LLLL	44.43 N	091.94 W	290079	166
2133015573	10/07/78	28	30	18545	D	41.55	135.02	80	EEEE	NO		CCCL	LLLL	43.02 N	092.50 W	290079	167
2133015580	10/07/78	28	31	18545	D	42.32	133.63	60	EEEE	NO		CCCL	LLLL	41.61 N	093.02 W	290079	168
2133015582	10/07/78	28	32	18545	D	43.06	132.22	70	EEEE	NO		CCCL	LLLL	40.19 N	093.53 W	290079	169
2133015585	10/07/78	28	33	18545	D	43.78	130.78	80	EEEE	NO		CCCL	LLLL	38.76 N	094.01 W	290079	170
2133015591	10/07/78	28	34	18545	D	44.47	129.30	80	EEEE	NO		CCCL	LLLL	37.34 N	094.48 W	290079	171
2133015594	10/07/78	28	35	18545	D	45.14	127.80	90	EEEE	NO		CCCL	LLLL	35.91 N	094.95 W	290079	172
2133016000	10/07/78	28	36	18545	D	45.77	126.27	80	EEEE	NO		CCCL	LLLL	34.49 N	095.39 W	290079	173
2133016003	10/07/78	28	37	18545	D	46.37	124.72	80	EEEE	NO		CCCL	LLLL	33.06 N	095.83 W	290079	174
2133016005	10/07/78	28	38	18545	D	46.94	123.12	80	EEEE	NO		CCCL	LLLL	31.63 N	096.25 W	290079	175
2133016012	10/07/78	28	39	18545	D	47.48	121.50	100	EEEE	NO		CCCL	LLLL	30.20 N	096.66 W	290079	176
2133023133	10/01/78	100	85	18549	D	30.71	058.55	10	EEEE	NO		CCCL	LLLL	35.89 S	143.21 E	290079	177
2133100553	10/01/78	118	82	18550	D	33.64	060.06	0	EEEE	NO		CCCL	LLLL	31.61 S	118.71 E	290079	178
2133100560	10/01/78	118	83	18550	D	32.68	059.52	0	EEEE	NO		CCCL	LLLL	33.04 S	118.28 E	290079	179
2133102151	10/01/78	136	25	18551	D	37.26	141.85	50	EEEE	NO		CCCL	LLLL	50.08 N	115.53 E	290079	180
2133103562	10/07/78	154	20	18552	D	32.64	148.47	60	EEEE	NO		CCCL	LLLL	57.03 N	093.54 E	290079	181
2133103564	10/07/78	154	21	18552	D	33.59	147.09	90	EEEE	NO		CCCL	LLLL	55.64 N	092.69 E	290079	182
2133103571	10/07/78	154	22	18552	D	34.52	145.77	40	EEEE	NO		CCCL	LLLL	54.26 N	091.89 E	290079	183
2133105406	10/07/78	172	21	18553	D	33.55	147.13	20	EEEE	NO		CCCL	LLLL	55.66 N	066.85 E	290079	184
2133105408	10/07/78	172	22	18553	D	34.49	145.81	20	EEEE	NO		CCCL	LLLL	54.27 N	066.05 E	290079	185
2133109184	10/07/78	208	50	18555	D	50.79	102.45	10	EEEE	NO		CCCL	LLLL	14.40 N	001.01 E	290079	186
2133109190	10/07/78	208	51	18555	D	50.84	100.60	20	EEEE	NO		CCCL	LLLL	12.96 N	000.66 E	290079	187
2133114192	10/01/78	11	28	18558	D	39.68	138.06	0	EEEE	NO		CCCL	LLLL	45.84 N	066.96 W	290079	188
2133114194	10/01/78	11	29	18558	D	40.50	136.73	10	EEEE	NO		CCCL	LLLL	44.42 N	067.53 W	290079	189
2133116023	10/07/78	29	28	18559	D	39.65	138.11	60	EEEE	NO		CCCL	LLLL	45.85 N	092.82 W	290079	190
2133116030	10/07/78	29	29	18559	D	40.47	136.77	20	EEEE	NO		CCCL	LLLL	44.44 N	093.39 W	290079	191
2133116032	10/07/78	29	30	18559	D	41.27	135.41	0	EEEE	NO		CCCL	LLLL	43.02 N	093.93 W	290079	192
2133116035	10/07/78	29	31	18559	D	42.05	134.04	10	EEEE	NO		CCCL	LLLL	41.61 N	094.45 W	290079	193

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LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

OBSERVATION ENTRY ID	DATE	PATH	ROW	ORBIT #	DAY/NITE /SFCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM GLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME	
2133116041	10/07/78	29	32	18559	D	42.80	132.63	0	EEEE	NO								
2133117452	10/29/78	47	27	18560	D	38.78	139.46	NA	EEEE	NO	CCCL	LLLL	40.18	N	094.96	W	290079	444
2133117455	10/29/78	47	28	18560	D	39.62	138.14	40	EEEE	NO	CCCL	LLLL	47.27	N	118.06	W	290079	285
2133117461	10/29/78	47	29	18560	D	40.45	136.80	70	EEEE	NO	CCCL	LLLL	45.86	N	118.65	W	290079	286
2133117464	10/29/78	47	30	18560	D	41.25	135.45	50	EEEE	NO	CCCL	LLLL	44.44	N	119.21	W	290079	287
2133117470	10/29/78	47	31	18560	D	42.02	134.08	70	EEEE	NO	CCCL	LLLL	43.03	N	119.75	W	290079	288
2133117473	10/29/78	47	32	18560	D	42.78	132.67	30	EEEE	NO	CCCL	LLLL	41.60	N	120.27	W	290079	289
2133117475	10/29/78	47	33	18560	D	43.51	131.23	10	EEEE	NO	CCCL	LLLL	40.18	N	120.77	W	290079	290
2133117482	10/29/78	47	34	18560	D	44.22	129.78	10	EEEE	NO	CCCL	LLLL	38.76	N	121.26	W	290079	291
2133117484	10/29/78	47	35	18560	D	44.89	128.29	50	EEEE	NO	CCCL	LLLL	37.34	N	121.75	W	290079	292
2133123182	10/07/78	101	83	18563	D	33.00	159.75	30	EEEE	NO	CCCL	LLLL	35.91	N	122.20	W	290079	293
2133202205	10/07/78	137	25	18565	D	36.94	142.16	40	EEEE	NO	CCCL	LLLL	33.04	S	142.68	E	290079	484
2133204021	10/07/78	155	20	18566	D	32.29	148.67	10	EEEE	NO	CCCL	LLLL	50.08	N	114.10	E	290079	487
2133204023	10/07/78	155	21	18566	D	33.25	147.35	40	EEEE	NO	CCCL	LLLL	57.03	N	092.10	E	290079	488
2133204030	10/07/78	155	22	18566	D	34.19	146.04	40	EEEE	NO	CCCL	LLLL	55.65	N	091.25	E	290079	489
2133204032	10/07/78	155	23	18566	D	35.12	144.75	60	EEEE	NO	CCCL	LLLL	54.26	N	090.45	E	290079	490
2133205452	10/07/78	173	20	18567	D	32.25	148.71	70	EEEE	NO	CCCL	LLLL	52.87	N	089.69	E	290079	491
2133205455	10/07/78	173	21	18567	D	33.21	147.38	50	EEEE	NO	CCCL	LLLL	57.06	N	066.25	E	290079	492
2133205461	10/07/78	173	22	18567	D	34.15	146.08	50	FFFF	NO	CCCL	LLLL	55.67	N	065.40	E	290079	493
2133205464	10/07/78	173	23	18567	D	35.08	144.79	60	EEEE	NO	CCCL	LLLL	54.28	N	064.60	E	290079	494
2133205470	10/07/78	173	24	18567	D	35.99	143.50	70	EEEE	NO	CCCL	LLLL	52.88	N	063.86	E	290079	495
2133205473	10/07/78	173	25	18567	D	36.89	142.21	60	EEEE	NO	CCCL	LLLL	51.48	N	063.15	E	290079	496
2133207275	10/07/78	191	18	18568	D	30.30	151.44	100	EEEE	NO	CCCL	LLLL	50.07	N	062.47	E	290079	497
2133207281	10/07/78	191	19	18568	D	31.28	150.05	90	EEEE	NO	CCCL	LLLL	59.78	N	047.34	E	290079	498
2133207284	10/07/78	191	20	18568	D	32.25	148.70	90	EEEE	NO	CCCL	LLLL	58.41	N	041.37	E	290079	499
2133207290	10/07/78	191	21	18568	D	33.20	147.39	50	EEEE	NO	CCCL	LLLL	57.03	N	040.47	E	290079	500
2133207293	10/07/78	191	22	18568	D	34.14	146.09	10	FFFF	NO	CCCL	LLLL	55.65	N	039.62	E	290079	501
2133207295	10/07/78	191	23	18568	D	35.06	144.80	10	EEEE	NO	CCCL	LLLL	54.26	N	038.82	E	290079	502
2133207302	10/07/78	191	24	18568	D	35.98	143.52	NA	EEEE	NO	CCCL	LLLL	52.87	N	038.06	F	290079	503
2133214271	10/07/78	12	33	18572	D	43.30	131.59	30	EEEE	NO	CCCL	LLLL	51.47	N	037.35	E		0
2133216073	10/07/78	30	26	18573	D	37.64	141.05	80	EEEE	NO	CCCL	LLLL	38.75	N	071.04	W	290079	445
2133216075	10/07/78	30	27	18573	D	38.51	139.76	80	EEEE	NO	CCCL	LLLL	48.67	N	093.05	W	290079	626
2133216082	10/07/78	30	28	18573	D	39.35	138.46	20	EEEE	NO	CCCL	LLLL	47.27	N	093.67	W	290079	627
2133216084	10/07/78	30	29	18573	D	40.18	137.14	10	EEEE	NO	CCCL	LLLL	45.86	N	094.26	W	290079	628
2133216091	10/07/78	30	30	18573	D	40.99	135.80	20	EEEE	NO	CCCL	LLLL	44.44	N	094.82	W	290079	629
2133216093	10/07/78	30	31	18573	D	41.77	134.44	70	EEEE	NO	CCCL	LLLL	43.02	N	095.36	W	290079	630
2133216100	10/07/78	30	32	18573	D	42.53	133.05	40	EEEE	NO	CCCL	LLLL	41.60	N	095.88	W	290079	631
2133216102	10/07/78	30	33	18573	D	43.27	131.63	70	EEEE	NO	CCCL	LLLL	40.18	N	096.37	W	290079	632
2133216105	10/07/78	30	34	18573	D	43.99	130.19	10	EEEE	NO	CCCL	LLLL	38.76	N	096.86	W	290079	633
2133216111	10/07/78	30	35	18573	D	44.67	128.71	10	EEEE	NO	CCCL	LLLL	37.33	N	097.34	W	290079	634
									EEEE	NO	CCCL	LLLL	35.91	N	097.79	W	290079	635

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STANDARD CATALOG

LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM CCM GLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME	
2133216114	10/07/78		30	36	18573	D	45.33	127.21	10	EEEE	NO		CCCL LLLL	34.48 N	098.25 W	290079	636
2133216120	10/07/78		30	37	18573	D	45.95	125.69	20	EEEE	NO		CCCL LLLL	33.05 N	098.68 W	290079	637
2133216128	10/07/78		30	38	18573	D	46.55	124.12	70	EEEE	NO		CCCL LLLL	31.63 N	099.11 W	290079	638
2133302385	10/07/78	138	54	18579	D	50.78	096.15	100	EFEE	NO		CCCL LLLL	08.64 N	100.04 E	290079	504	
2133302391	10/07/78	138	55	18579	D	50.68	094.33	80	EFEE	NO		CCCL LLLL	07.20 N	099.70 E	290079	505	
2133314323	10/07/78		13	32	18586	D	42.30	133.41	10	EEEE	NO		CCCL LLLL	40.18 N	072.00 W	290079	321
2133314325	10/07/78		13	33	18586	D	43.04	132.01	10	EEEE	NO		CCCL LLLL	38.76 N	072.50 W	290079	322
2133316134	10/07/78		31	27	18587	D	38.21	140.09	VA	EE22	NO		CCCL LLLL	47.26 N	095.09 W	290079	446
2133316141	10/07/78		31	28	18587	D	39.06	138.80	90	EFEE	NO		CCCL LLLL	45.85 N	095.68 W	290079	447
2133316143	10/07/78		31	29	18587	D	39.89	137.50	80	EFEE	NO		CCCL LLLL	44.44 N	096.25 W	290079	448
2133316150	10/07/78		31	30	18587	D	40.71	136.17	40	EFEE	NO		CCCL LLLL	43.02 N	096.79 W	290079	449
2133316152	10/07/78		31	31	18587	D	41.50	134.82	20	EEEE	NO		CCCL LLLL	41.60 N	097.31 W	290079	450
2133316155	10/07/78		31	32	18587	D	42.27	133.46	10	EEEE	NO		CCCL LLLL	40.18 N	097.81 W	290079	451
2133316161	10/07/78		31	33	18587	D	43.02	132.06	0	EEEE	NO		CCCL LLLL	38.76 N	098.29 W	290079	452
2133316164	10/07/78		31	34	18587	D	43.74	130.63	10	EEEE	NO		CCCL LLLL	37.33 N	098.77 W	290079	453
2133316170	10/07/78		31	35	18587	D	44.43	129.18	10	EEEE	NO		CCCL LLLL	35.91 N	099.23 W	290079	454
2133316173	10/07/78		31	36	18587	D	45.10	127.69	0	EEEE	NO		CCCL LLLL	34.48 N	099.67 W	290079	455
2133316175	10/07/78		31	37	18587	D	45.74	126.17	10	EEEE	NO		CCCL LLLL	33.05 N	100.11 W	290079	456
2133319363	10/07/78		67	18	18589	D	29.81	151.71	50	EEEE	NO		CCCL HHLL	59.76 N	139.75 W	290079	377
2133319365	10/07/78		67	19	18589	D	30.78	150.36	40	EEEE	NO		CCCL HHLL	58.39 N	140.72 W	290079	378
2133319372	10/07/78		67	20	18589	D	31.75	149.04	70	EEEE	NO		CCCL HHLL	57.02 N	141.64 W	290079	379
2133319374	10/07/78		67	21	18589	D	32.70	147.75	40	EEEE	NO		CCCL HHLL	55.65 N	142.50 W	290079	380
2133319381	10/07/78		67	22	18589	D	33.65	146.47	40	EEEE	NO		CCCL HHLL	54.26 N	143.30 W	290079	381
2133319383	10/07/78		67	23	18589	D	34.58	145.21	30	EEEE	NO		CCCL HHLL	52.87 N	144.05 W	290079	382
2133319390	10/07/78		67	24	18589	D	35.50	143.94	40	EEEE	NO		CCCL HHLL	51.47 N	144.77 W	290079	383
2133319392	10/07/78		67	25	18589	D	36.40	142.68	30	EEEE	NO		CCCL HHLL	50.07 N	145.45 W	290079	384
2133319395	10/07/78		67	26	18589	D	37.29	141.41	20	EEEE	NO		CCCL HHLL	48.67 N	146.10 W	290079	385
2133402420	10/29/78	139	48	18593	D	50.37	107.80	40	FFEE	NO		CCCL LLLL	17.28 N	100.67 E	290080	138	
2133402423	10/07/78	139	49	18593	D	50.56	105.98	50	EFEE	NO		CCCL LLLL	15.85 N	100.31 E	290079	526	
2133402425	10/07/78	139	50	18593	D	50.70	104.14	50	EEEE	NO		CCCL LLLL	14.41 N	099.96 E	290079	527	
2133402432	10/07/78	139	51	18593	D	50.80	102.30	80	EFEE	NO		CCCL LLLL	12.97 N	099.62 E	290079	528	
2133402434	10/07/78	139	52	18593	D	50.85	100.46	90	FFEE	NO		CCCL LLLL	11.52 N	099.28 E	290079	529	
2133402441	10/07/78	139	53	18593	D	50.85	098.62	80	EEEE	NO		CCCL LLLL	10.08 N	098.94 E	290079	530	
2133402443	10/07/78	139	54	18593	D	50.81	096.79	70	EEEE	NO		CCCL LLLL	08.65 N	098.59 E	290079	531	
2133404131	10/07/78	157	19	18594	D	30.63	150.48	VA	MMMM	NO		CCCL LLLL	58.42 N	090.12 E	0	0	
2133404134	10/07/78	157	20	18594	D	31.61	149.15	20	EEEE	NO		CCCL LLLL	57.04 N	089.22 E	290079	532	
2133404140	10/07/78	157	21	18594	D	32.57	147.86	10	EEEE	NO		CCCL LLLL	55.66 N	088.37 E	290079	533	
2133404143	10/07/78	157	22	18594	D	33.52	146.57	10	EEEE	NO		CCCL LLLL	54.27 N	087.57 E	290079	534	
2133404145	10/07/78	157	23	18594	D	34.46	145.31	10	EEEE	NO		CCCL LLLL	52.87 N	086.81 E	290079	535	
2133404152	10/07/78	157	24	18594	D	35.37	144.06	10	EEEE	NO		CCCL LLLL	51.47 N	086.10 E	290079	536	

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LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133404154	10/07/78	157	25	18594	D	36.28	142.80	10	EEEE	NO	CCCL	LLLL	50.07 N	085.42 E	290079	327
2133404161	10/07/78	157	26	18594	D	37.18	141.53	10	EEEE	NO	CCCL	LLLL	48.67 N	084.78 E	290079	328
2133404163	10/07/78	157	27	18594	D	38.05	140.25	0	EEEE	NO	CCCL	LLLL	47.26 N	084.16 E	290079	329
2133405563	10/07/78	175	19	18595	D	30.59	150.51	30	EEEE	NO	CCCL	LLLL	58.42 N	064.30 E	290079	330
2133405570	10/07/78	175	20	18595	D	31.57	149.19	10	EEEE	NO	CCCL	LLLL	57.04 N	063.40 E	290079	331
2133405572	10/07/78	175	21	18595	D	32.53	147.89	0	EEEE	NO	CCCL	LLLL	55.66 N	062.54 E	290079	332
2133405575	10/07/78	175	22	18595	D	33.49	146.61	0	EEEE	NO	CCCL	LLLL	54.27 N	061.75 E	290079	333
2133405581	10/07/78	175	23	18595	D	34.43	145.34	0	EEEE	NO	CCCL	LLLL	52.88 N	061.00 E	290079	334
2133405584	10/07/78	175	24	18595	D	35.35	144.08	0	EEEE	NO	CCCL	LLLL	51.48 N	060.27 E	290079	335
2133405590	10/07/78	175	25	18595	D	36.26	142.82	0	EEEE	NO	CCCL	LLLL	50.08 N	059.60 E	290079	336
2133406025	10/07/78	175	34	18595	D	43.60	130.88	10	EEEE	NO	CCCL	LLLL	37.34 N	054.66 E	290079	337
2133406031	10/07/78	175	35	18595	D	44.30	129.44	0	EEEE	NO	CCCL	LLLL	35.91 N	054.20 E	290079	338
2133406034	10/07/78	175	36	18595	D	44.97	127.96	0	EEEE	NO	CCCL	LLLL	34.48 N	053.75 E	290079	339
2133406040	10/07/78	175	37	18595	D	45.61	126.46	0	EEEE	NO	CCCL	LLLL	33.06 N	053.31 E	290079	340
2133406043	10/07/78	175	38	18595	D	46.22	124.92	0	EEEE	NO	CCCL	LLLL	31.63 N	052.89 E	290079	341
2133407392	10/07/78	193	18	18596	D	29.59	151.87	80	EEEE	NO	CCCL	LLLL	59.78 N	039.48 E	290079	533
2133407395	10/07/78	193	19	18596	D	30.58	150.51	90	EEEE	NO	CCCL	LLLL	58.41 N	038.51 E	290079	534
2133407401	10/07/78	193	20	18596	D	31.56	149.19	90	EEEE	NO	CCCL	LLLL	57.03 N	037.60 E	290079	535
2133407404	10/07/78	193	21	18596	D	32.52	147.89	90	EEEE	NO	CCCL	LLLL	55.64 N	036.75 E	290079	536
2133407410	10/07/78	193	22	18596	D	33.47	146.62	100	EEEE	NO	CCCL	LLLL	54.26 N	035.95 E	290079	537
2133407413	10/07/78	193	23	18596	D	34.41	145.35	100	EEEE	NO	CCCL	LLLL	52.86 N	035.20 E	290079	538
2133407415	10/07/78	193	24	18596	D	35.33	144.10	90	EEEE	NO	CCCL	LLLL	51.47 N	034.48 E	290079	539
2133407540	10/07/78	193	53	18596	D	50.86	098.77	60	EEEE	NO	CCCL	LLLL	10.09 N	021.48 E	290079	540
213341447	10/07/78	14	41	18600	D	47.80	120.29	40	EEEE	NO	CCCL	HLLL	27.33 N	077.39 W	290079	433
213341442	10/07/78	14	42	18600	D	48.28	118.62	40	EEEE	NO	CCCL	HLLL	25.90 N	077.78 W	290079	434
2133414425	10/07/78	14	43	18600	D	48.73	116.93	50	EEEE	NO	CCCL	HLLL	24.46 N	078.16 W	290079	435
2133416190	10/07/78	32	26	18601	D	37.02	141.69	NA	EEEE	NO	CCCL	LLLL	48.67 N	095.92 W	290079	306
2133416193	10/07/78	32	27	18601	D	37.90	140.42	90	EEEE	NO	CCCL	LLLL	47.26 N	096.53 W	290079	307
2133416195	10/07/78	32	28	18601	D	38.76	139.14	100	EEEE	NO	CCCL	LLLL	45.85 N	097.12 W	290079	308
2133416202	10/07/78	32	29	18601	D	39.60	137.85	90	EEEE	NO	CCCL	LLLL	44.44 N	097.69 W	290079	309
2133416204	10/07/78	32	30	18601	D	40.43	136.54	90	EEEE	NO	CCCL	LLLL	43.02 N	098.23 W	290079	310
2133416211	10/07/78	32	31	18601	D	41.23	135.21	90	EEEE	NO	CCCL	LLLL	41.60 N	098.75 W	290079	311
2133416213	10/07/78	32	32	18601	D	42.00	133.85	90	EEEE	NO	CCCL	LLLL	40.18 N	099.26 W	290079	312
2133416220	10/07/78	32	33	18601	D	42.76	132.48	70	EEEE	NO	CCCL	LLLL	38.76 N	099.75 W	290079	313
2133416222	10/07/78	32	34	18601	D	43.49	131.06	50	EEEE	NO	CCCL	LLLL	37.33 N	100.21 W	290079	314
2133416225	10/07/78	32	35	18601	D	44.19	129.62	40	EEEE	NO	CCCL	LLLL	35.91 N	100.67 W	290079	315
2133416231	10/07/78	32	36	18601	D	44.87	128.16	30	EEEE	NO	CCCL	LLLL	34.48 N	101.12 W	290079	316
2133416234	10/07/78	32	37	18601	D	45.52	126.66	10	EEEE	NO	CCCL	LLLL	33.05 N	101.55 W	290079	317
2133416240	10/07/78	32	38	18601	D	46.14	125.12	10	EEEE	NO	CCCL	LLLL	31.63 N	101.98 W	290079	318
2133416243	10/07/78	32	39	18601	D	46.72	123.56	20	EEEE	NO	CCCL	LLLL	30.20 N	102.40 W	290079	319

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LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133416245	10/07/78	32	40	18601	D	47.27	121.96	10	EEEE	NO	CCCL	LLLL	28.76 N	102.81 W	290079	320
2133419424	10/07/78	68	19	18603	D	30.43	150.59	50	EEEE	NO	CCCL	HLLL	58.40 N	142.16 W	290079	396
2133419431	10/07/78	68	20	18603	D	31.41	149.28	90	EEEE	NO	CCCL	HLLL	57.02 N	143.06 W	290079	387
2133419433	10/07/78	68	21	18603	D	32.37	148.00	90	EEEE	NO	CCCL	HLLL	55.64 N	143.92 W	290079	388
2133419440	10/07/78	68	22	18603	D	33.32	146.73	100	EEEE	NO	CCCL	HLLL	54.26 N	144.72 W	290079	389
2133419442	10/07/78	68	23	18603	D	34.26	145.47	100	EEEE	NO	CCCL	HLLL	52.86 N	145.48 W	290079	390
2133419445	10/07/78	68	24	18603	D	35.18	144.23	100	EFEE	NO	CCCL	HLLL	51.46 N	146.19 W	290079	391
2133419451	10/07/78	68	25	18603	D	36.09	142.98	100	EEEE	NO	CCCL	HLLL	50.07 N	146.87 W	290079	392
2133419454	10/07/78	68	26	18603	D	36.98	141.73	100	EEEE	NO	CCCL	HLLL	48.66 N	147.53 W	290079	393
2133502475	10/07/78	140	48	18607	D	50.30	108.42	100	EEEE	NO	CCCL	LLLL	17.28 N	099.25 E	290079	541
2133502481	10/07/78	140	49	18607	D	50.50	106.60	100	EEEE	NO	CCCL	LLLL	15.85 N	098.88 E	290079	542
2133502484	10/07/78	140	50	18607	D	50.66	104.77	80	FEFE	NO	CCCL	LLLL	14.41 N	098.54 E	290079	543
2133506083	10/29/78	176	34	18609	D	43.35	131.31	20	EEEE	NO	CCCL	LLLL	37.33 N	053.25 E	290080	139
2133506090	10/29/78	176	35	18609	D	44.06	129.88	10	EEEE	NO	CCCL	LLLL	35.91 N	052.77 E	290080	140
2133506092	10/29/78	176	36	18609	D	44.74	128.42	0	EEEE	NO	CCCL	LLLL	34.48 N	052.32 E	290080	141
2133506095	10/29/78	176	37	18609	D	45.39	126.93	0	EEEE	NO	CCCL	LLLL	33.05 N	051.89 E	290080	142
2133506101	10/29/78	176	38	18609	D	46.02	125.41	0	EEEE	NO	CCCL	LLLL	31.62 N	051.46 E	290080	143
2133507594	10/29/78	194	53	18610	D	50.87	099.41	80	EEEE	NO	CCCL	LLLL	10.09 N	020.05 E	290080	144
2133508001	10/29/78	194	54	18610	D	50.85	097.57	90	FFEF	NO	CCCL	LLLL	08.65 N	019.70 E	290080	145
2133516242	10/07/78	33	25	18615	D	35.80	143.25	90	EEEE	NO	CCCL	LLLL	50.08 N	096.71 W	290079	394
2133516245	10/07/78	33	26	18615	D	36.71	142.00	90	EEEE	NO	CCCL	LLLL	48.67 N	097.35 W	290079	395
2133516251	10/07/78	33	27	18615	D	37.60	140.75	90	EEEE	NO	CCCL	LLLL	47.26 N	097.96 W	290079	396
2133516254	10/07/78	33	28	18615	D	38.47	139.48	90	EEEE	NO	CCCL	LLLL	45.85 N	098.55 W	290079	397
2133516260	10/07/78	33	29	18615	D	39.32	138.19	100	EEEE	NO	CCCL	LLLL	44.44 N	099.12 W	290079	398
2133516263	10/07/78	33	30	18615	D	40.15	136.90	90	EEEE	NO	CCCL	LLLL	43.02 N	099.66 W	290079	399
2133516265	10/07/78	33	31	18615	D	40.96	135.58	100	EEEE	NO	CCCL	LLLL	41.60 N	100.18 W	290079	400
2133516272	10/07/78	33	32	18615	D	41.75	134.23	60	EEEE	NO	CCCL	LLLL	40.18 N	100.69 W	290079	401
2133518060	10/07/78	51	21	18616	D	32.04	148.25	80	EEEE	NO	CCCL	LLLL	55.66 N	119.58 W	290079	342
2133519483	10/07/78	69	19	18617	D	30.04	150.88	90	EFEE	NO	CCCL	HLLL	58.46 N	143.68 W	290079	402
2133519485	10/07/78	69	20	18617	D	31.02	149.57	90	FEFE	NO	CCCL	HLLL	57.07 N	144.58 W	290079	403
2133519492	10/07/78	69	21	18617	D	32.00	148.26	90	FEFE	NO	CCCL	HLLL	55.68 N	145.42 W	290079	404
2133519494	10/07/78	69	22	18617	D	32.97	147.01	90	FEFE	NO	CCCL	HLLL	54.28 N	146.21 W	290079	405
2133519501	10/07/78	69	23	18617	D	33.91	145.77	90	FEFE	NO	CCCL	HLLL	52.89 N	146.96 W	290079	406
2133519503	10/07/78	69	24	18617	D	34.85	144.52	100	EEEE	NO	CCCL	HLLL	51.49 N	147.67 W	290079	407
2133519510	10/07/78	69	25	18617	D	35.77	143.28	100	EEEE	NO	CCCL	HLLL	50.08 N	148.35 W	290079	408
2133519512	10/07/78	69	26	18617	D	36.67	142.04	100	EEEE	NO	CCCL	HLLL	48.68 N	149.00 W	290079	409
2133521280	10/07/78	87	10	18618	D	20.77	165.90	90	FEFE	NO	CCCL	LLLL	70.47 N	156.81 W	290079	436
2133521282	10/07/78	87	11	18618	D	21.83	163.70	70	FEFE	NO	CCCL	LLLL	69.18 N	158.64 W	290079	437
2133521285	10/07/78	87	12	18618	D	22.89	161.70	50	EEEE	NO	CCCL	LLLL	67.88 N	160.65 W	290079	438
2133521291	10/07/78	87	13	18618	D	23.94	159.86	60	EEEE	NO	CCCL	LLLL	66.56 N	162.27 W	290079	439

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STANDARD CATALOG
LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

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OBSERVATION ID	ENTRY DATE	PATH	RJW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM NO	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133604251	10/07/78	159	20	18622	D	30.91	149.64	10	FFFE	NO		CCCL	LLLL	57.04 N	086.35 E	290079	602
2133604254	10/29/78	159	21	18622	D	31.89	148.35	10	EFME	NO		CCCL	LLLL	55.66 N	085.50 E	290080	406
2133604260	10/29/78	159	22	18622	D	32.85	147.10	10	EEEE	NO		CCCL	LLLL	54.27 N	084.70 E	290080	407
2133604263	10/29/78	159	23	18622	D	33.80	145.86	10	EEEE	NO		CCCL	LLLL	52.88 N	083.94 E	290080	408
2133604265	10/07/78	159	24	18622	D	34.73	144.62	0	EEEE	NO		CCCL	LLLL	51.48 N	083.23 E	290079	343
2133604272	10/07/78	159	25	18622	D	35.65	143.39	0	EEEE	NO		CCCL	LLLL	50.08 N	082.55 E	290079	344
2133604274	10/07/78	159	26	18622	D	36.56	142.15	10	EEEE	NO		CCCL	LLLL	48.67 N	081.90 E	290079	345
2133604281	10/07/78	159	27	18622	D	37.44	140.90	10	EEEE	NO		CCCL	LLLL	47.26 N	081.29 E	290079	346
2133604293	10/07/78	159	28	18622	D	38.31	139.65	60	FFFF	NO		CCCL	LLLL	45.85 N	080.70 E	290079	347
2133604290	10/07/78	159	29	18622	D	39.16	138.38	50	EFME	NO		CCCL	LLLL	44.43 N	080.14 E	290079	348
2133606080	10/07/78	177	19	18623	D	29.89	150.97	90	EEEE	NO		CCCL	LLLL	58.43 N	061.43 E	290079	349
2133606083	10/07/78	177	20	18623	D	30.88	149.67	40	EEEE	NO		CCCL	LLLL	57.05 N	060.52 E	290079	350
2133606085	10/07/78	177	21	18623	D	31.85	148.40	40	EEFE	NO		CCCL	LLLL	55.66 N	059.67 E	290079	351
2133606092	10/07/78	177	22	18623	D	32.81	147.14	60	EFME	NO		CCCL	LLLL	54.27 N	058.87 E	290079	352
2133606094	10/07/78	177	23	18623	D	33.76	145.86	100	FFFF	NO		CCCL	LLLL	52.88 N	058.12 F	290079	353
2133606101	10/07/78	177	24	18623	D	34.69	144.66	100	FFFF	NO		CCCL	LLLL	51.48 N	057.40 E	290079	354
2133606103	10/07/78	177	25	18623	D	35.62	143.43	100	FFFF	NO		CCCL	LLLL	50.08 N	056.73 E	290079	355
2133606142	10/07/78	177	34	18623	D	43.09	131.75	80	EFME	NO		CCCL	LLLL	37.34 N	051.79 E	290079	356
2133606144	10/07/78	177	35	18623	D	43.81	130.33	10	EEFE	NO		CCCL	LLLL	35.91 N	051.33 E	290079	357
2133606151	10/07/78	177	36	18623	D	44.51	128.88	0	EEEE	NO		CCCL	LLLL	34.48 N	050.88 E	290079	358
2133606153	10/07/78	177	37	18623	D	45.17	127.41	0	EEEE	NO		CCCL	LLLL	33.06 N	050.44 F	290079	359
2133606160	10/07/78	177	38	18623	D	45.80	125.90	10	EEEE	NO		CCCL	LLLL	31.63 N	050.01 E	290079	360
2133607512	10/29/78	195	19	18624	D	29.87	150.98	90	EFME	NO		CCCL	LLLL	58.42 N	035.63 E	290080	409
2133607515	10/29/78	195	20	18624	D	30.86	149.68	90	FFFF	NO		CCCL	LLLL	57.04 N	034.72 E	290080	410
2133607521	10/29/78	195	21	18624	D	31.84	148.40	90	EFME	NO		CCCL	LLLL	55.65 N	033.87 E	290080	411
2133607524	10/29/78	195	22	18624	D	32.80	147.14	90	EEEE	NO		CCCL	LLLL	54.26 N	033.08 E	290080	412
2133607530	10/29/78	195	23	18624	D	33.75	145.90	80	EEEE	NO		CCCL	LLLL	52.87 N	032.32 E	290080	413
2133607533	10/29/78	195	24	18624	D	34.69	144.66	40	EEEE	NO		CCCL	LLLL	51.47 N	031.61 E	290080	414
2133608064	10/29/78	195	56	18624	D	50.72	094.57	90	FEME	NO		CCCL	LLLL	05.76 N	017.59 E	290080	415
2133608071	10/29/78	195	57	18624	D	50.58	092.78	90	FEMF	NO		CCCL	LLLL	04.32 N	017.25 E	290080	416
2133608073	10/29/78	195	58	18624	D	50.40	091.01	90	EEEE	NO		CCCL	LLLL	02.88 N	016.92 E	290080	417
2133608080	10/29/78	195	59	18624	D	50.17	089.26	90	EEEE	NO		CCCL	LLLL	01.44 N	016.58 E	290080	418
2133608082	10/29/78	195	60	18624	D	49.90	087.55	80	EEFE	NO		CCCL	LLLL	00.00 N	016.25 E	290080	419
2133608085	10/29/78	195	61	18624	D	49.58	085.87	90	FFEE	NO		CCCL	LLLL	01.43 S	015.90 E	290080	420
2133608091	10/29/78	195	62	18624	D	49.23	084.23	90	EEEE	NO		CCCL	LLLL	02.87 S	015.57 E	290080	421
2133608094	10/29/78	195	63	18624	D	48.83	082.62	90	EEEE	NO		CCCL	LLLL	04.31 S	015.23 E	290080	422
2133608100	10/29/78	195	64	18624	D	48.40	081.05	80	EEEE	NO		CCCL	LLLL	05.75 S	014.89 E	290080	423
2133614484	10/07/78	16	29	18628	D	39.04	138.53	10	EFME	NO		CCCL	LLLL	44.43 N	074.72 W	290079	410
2133614490	10/07/78	16	30	18628	D	39.88	137.25	90	EEEE	NO		CCCL	LLLL	43.02 N	075.26 W	290079	411
2133614493	10/07/78	16	31	18628	D	40.70	135.93	90	EEEE	NO		CCCL	LLLL	41.60 N	075.78 W	290079	412

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OBSERVATION ID	ENTRY DATE	PATH	ROW #	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133614495	10/07/78	16	32	18628	D	41.49	134.60	60	EEEE	NO		CCCL	LLLL	40.17 N	076.28 W	290079	413
2133614502	10/07/78	16	33	18628	D	42.26	133.25	20	EEEE	NO		CCCL	LLLL	38.75 N	076.76 W	290079	414
2133614504	10/07/78	16	34	18628	D	43.01	131.87	30	EEFE	NO		CCCL	LLLL	37.33 N	077.25 W	290079	415
2133614511	10/07/78	16	35	18628	D	43.74	130.46	10	EEEE	NO		CCCL	LLLL	35.90 N	077.70 W	290079	416
2133614513	10/07/78	16	36	18628	D	44.43	129.02	10	EEEF	NO		CCCL	LLLL	34.47 N	078.14 W	290079	417
2133614520	10/07/78	16	37	18628	D	45.10	127.55	10	EEEE	NO		CCCL	LLLL	33.05 N	078.58 W	290079	418
2133614522	10/07/78	16	38	18628	D	45.74	126.04	20	EEEE	NO		CCCL	LLLL	31.62 N	079.01 W	290079	419
2133614525	10/07/78	16	39	18628	D	46.35	124.51	30	EEEE	NO		CCCL	LLLL	30.19 N	079.42 W	290079	420
2133614531	10/07/78	16	40	18628	D	46.92	122.94	30	EEEE	NO		CCCL	LLLL	28.76 N	079.83 W	290079	421
2133614534	10/07/78	16	41	18628	D	47.46	121.35	40	EEEE	NO		CCCL	LLLL	27.33 N	080.25 W	290079	422
2133614540	10/07/78	16	42	18628	D	47.96	119.72	30	EEEE	NO		CCCL	LLLL	25.89 N	080.63 W	290079	423
2133614543	10/07/78	16	43	18628	D	48.43	118.05	10	EEEE	NO		CCCL	LLLL	24.46 N	081.03 W	290079	424
2133616301	10/07/78	34	25	18629	D	35.49	143.53	NA	M6EE	NO		CCCL	LLLL	50.08 N	098.14 W	290079	361
2133616304	10/07/78	34	26	18629	D	36.40	142.30	90	EEEE	NO		CCCL	LLLL	48.67 N	098.78 W	290079	362
2133616310	10/07/78	34	27	18629	D	37.29	141.06	90	EEFE	NO		CCCL	LLLL	47.26 N	099.39 W	290079	363
2133616313	10/07/78	34	28	18629	D	38.16	139.81	80	EEFE	NO		CCCL	LLLL	45.85 N	099.98 W	290079	364
2133616315	10/07/78	34	29	18629	D	39.02	138.55	70	EEEE	NO		CCCL	LLLL	44.43 N	100.55 W	290079	365
2133616322	10/07/78	34	30	18629	D	39.86	137.26	90	EEEE	NO		CCCL	LLLL	43.02 N	101.09 W	290079	366
2133616324	10/07/78	34	31	18629	D	40.68	135.95	60	EEEE	NO		CCCL	LLLL	41.60 N	101.62 W	290079	367
2133616331	10/07/78	34	32	18629	D	41.48	134.62	50	EEEE	NO		CCCL	LLLL	40.18 N	102.12 W	290079	368
2133616333	10/07/78	34	33	18629	D	42.25	133.28	30	EEEE	NO		CCCL	LLLL	38.76 N	102.61 W	290079	369
2133616340	10/07/78	34	34	18629	D	43.00	131.90	20	EEEE	NO		CCCL	LLLL	37.34 N	103.09 W	290079	370
2133616342	10/07/78	34	35	18629	D	43.72	130.50	40	EEEE	NO		CCCL	LLLL	35.91 N	103.55 W	290079	371
2133616345	10/07/78	34	36	18629	D	44.42	129.05	90	EEFE	NO		CCCL	LLLL	34.49 N	104.00 W	290079	372
2133616351	10/07/78	34	37	18629	D	45.09	127.58	90	EEEE	NO		CCCL	LLLL	33.06 N	104.43 W	290079	373
2133616354	10/07/78	34	38	18629	D	45.72	126.08	70	EEEF	NO		CCCL	LLLL	31.63 N	104.85 W	290079	374
2133616360	10/07/78	34	39	18629	D	46.33	124.54	60	EEEE	NO		CCCL	LLLL	30.19 N	105.26 W	290079	375
2133618115	10/07/78	52	21	18630	D	31.72	148.46	40	EEEE	NO		CCCL	LLLL	55.64 N	120.98 W	290079	376
2133619542	10/07/78	70	19	18631	D	29.72	151.06	80	EEEE	NO		CCCL	HLLL	58.42 N	145.06 W	290079	425
2133619544	10/07/78	70	20	18631	D	30.71	149.77	60	EEEE	NO		CCCL	HLLL	57.04 N	145.96 W	290079	426
2133619551	10/07/78	70	21	18631	D	31.68	148.50	50	FEFE	NO		CCCL	HLLL	55.65 N	146.81 W	290079	427
2133619553	10/07/78	70	22	18631	D	32.65	147.25	70	FEFE	NO		CCCL	HLLL	54.27 N	147.61 W	290079	428
2133619555	10/07/78	70	23	18631	D	33.60	146.01	70	FEFE	NO		CCCL	HLLL	52.87 N	148.36 W	290079	429
2133619562	10/07/78	70	24	18631	D	34.54	144.78	80	EEEE	NO		CCCL	HLLL	51.47 N	149.08 W	290079	430
2133619564	10/07/78	70	25	18631	D	35.46	143.55	70	EEEE	NO		CCCL	HLLL	50.07 N	149.76 W	290079	431
2133619571	10/07/78	70	26	18631	D	36.37	142.33	90	EEEE	NO		CCCL	HLLL	48.67 N	150.41 W	290079	432
2133621335	10/07/78	88	10	18632	D	20.38	166.04	100	PEEE	NO		CCCL	LLLL	70.46 N	158.25 W	290079	544
2133621341	10/07/78	88	11	18632	D	21.46	163.84	80	PEEE	NO		CCCL	LLLL	69.18 N	160.28 W	290079	545
2133621344	10/07/78	88	12	18632	D	22.51	161.86	0	FEFE	NO		CCCL	LLLL	67.88 N	162.09 W	290079	546
2133621350	10/07/78	88	13	18632	D	23.56	160.04	30	FEFE	NO		CCCL	LLLL	66.57 N	163.72 W	290079	547

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STANDARD CATALOG

LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLT	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133621353	10/07/78	88	14	18632	D	24.60	158.34	90	FEEE	NO		CCCL	LLLL	65.23 N	165.19 W	290079	548
2133621355	10/07/78	88	15	18632	D	25.63	156.75	50	PEEE	NO		CCCL	LLLL	63.89 N	166.52 W	290079	549
2133623473	10/29/78	106	83	18633	D	34.68	061.03	20	FEEE	NO		CCCL	LLLL	33.03 S	135.50 E	290080	424
2133706201	10/07/78	178	34	18637	D	42.84	132.16	60	FEEE	NO		CCCL	LLLL	37.33 N	050.37 E	290079	603
2133706203	10/07/78	178	35	18637	D	43.58	130.76	10	FEEE	NO		CCCL	LLLL	35.90 N	049.91 E	290079	604
2133708132	10/07/78	196	58	18638	D	50.48	091.63	70	FEEE	NO		CCCL	LLLL	02.88 N	015.48 E	290079	605
2133708135	10/07/78	196	59	18638	D	50.27	089.87	50	FEFF	NO		CCCL	LLLL	01.44 N	015.15 E	290079	606
2133708141	10/07/78	196	60	18638	D	50.01	088.14	50	FFFE	NO		CCCL	LLLL	00.90 N	014.81 E	290079	607
2133708144	10/07/78	196	61	18638	D	49.71	086.45	60	FEEE	NO		CCCL	LLLL	01.43 S	014.47 E	290079	608
2133708150	10/07/78	196	62	18638	D	49.37	084.80	90	FEEE	NO		CCCL	LLLL	02.87 S	014.14 E	290079	609
2133708153	10/07/78	196	63	18638	D	48.99	083.18	80	FEEE	NO		CCCL	LLLL	04.31 S	013.80 E	290079	610
2133708155	10/07/78	196	64	18638	D	48.57	081.61	90	PEEE	NO		CCCL	LLLL	05.75 S	013.46 E	290079	611
2133708162	10/07/78	196	65	18638	D	48.10	080.07	80	PEFF	NO		CCCL	LLLL	07.19 S	013.12 E	290079	612
2133713113	10/07/78	250	30	18641	D	39.62	137.57	20	EEEE	NO		CCCL	HHLL	43.01 N	050.86 W	290079	550
2133713120	10/07/78	250	31	18641	D	40.44	136.79	40	EEEF	NO		CCCL	HHLL	41.59 N	051.39 W	290079	551
2133714563	10/07/78	17	34	18642	D	42.76	132.30	90	EEEE	NO		CCCL	LLLL	37.33 N	078.69 W	290079	552
2133714565	10/07/78	17	35	18642	D	43.49	130.91	90	EEEE	NO		CCCL	LLLL	35.91 N	079.15 W	290079	553
2133714572	10/07/78	17	36	18642	D	44.19	129.50	40	EEEE	NO		CCCL	LLLL	34.48 N	079.60 W	290079	554
2133714574	10/07/78	17	37	18642	D	44.87	128.03	70	EEFE	NO		CCCL	LLLL	33.05 N	080.04 W	290079	555
2133714581	10/07/78	17	38	18642	D	45.53	126.53	40	EFPE	NO		CCCL	LLLL	31.63 N	080.46 W	290079	556
2133714583	10/07/78	17	39	18642	D	46.15	125.00	20	EEEE	NO		CCCL	LLLL	30.19 N	080.88 W	290079	557
2133714595	10/07/78	17	42	18642	D	47.80	120.27	30	EEEE	NO		CCCL	HHLL	25.89 N	082.06 W	290079	558
2133716362	10/07/78	35	26	18643	D	36.09	142.60	60	EEEE	NO		CCCL	LLLL	48.66 N	100.19 W	290079	564
2133716365	10/07/78	35	27	18643	D	36.99	141.37	40	EEEE	NO		CCCL	LLLL	47.25 N	100.81 W	290079	585
2133716371	10/07/78	35	28	18643	D	37.88	140.13	30	EEFE	NO		CCCL	LLLL	45.84 N	101.40 W	290079	586
2133716374	10/07/78	35	29	18643	D	38.74	138.87	10	FEFE	NO		CCCL	LLLL	44.43 N	101.96 W	290079	587
2133716380	10/07/78	35	30	18643	D	39.58	137.62	30	FFFE	NO		CCCL	LLLL	43.01 N	102.50 W	290079	588
2133716383	10/07/78	35	31	18643	D	40.40	136.33	80	EEEE	NO		CCCL	LLLL	41.59 N	103.03 W	290079	589
2133716385	10/07/78	35	32	18643	D	41.20	135.02	90	EEEE	NO		CCCL	LLLL	40.18 N	103.54 W	290079	590
2133716392	10/07/78	35	33	18643	D	41.99	133.68	90	EEEE	NO		CCCL	LLLL	38.75 N	104.02 W	290079	591
2133716394	10/07/78	35	34	18643	D	42.75	132.31	70	EEEE	NO		CCCL	LLLL	37.33 N	104.50 W	290079	592
2133716401	10/07/78	35	35	18643	D	43.48	130.93	50	EEEE	NO		CCCL	LLLL	35.91 N	104.97 W	290079	593
2133716403	10/07/78	35	36	18643	D	44.18	129.50	60	EEEE	NO		CCCL	LLLL	34.48 N	105.42 W	290079	594
2133716410	10/07/78	35	37	18643	D	44.86	128.05	30	MEEE	NO		CCCL	LLLL	33.05 N	105.86 W	290079	595
2133716412	10/07/78	35	38	18643	D	45.51	126.56	10	EEEE	NO		CCCL	LLLL	31.62 N	106.27 W	290079	596
2133716415	10/07/78	35	39	18643	D	46.13	125.04	10	EEEE	NO		CCCL	LLLL	30.19 N	106.67 W	290079	597
2133721450	10/07/78	89	23	18646	D	33.25	146.30	30	FEFE	NO		CCCL	LLLL	52.86 N	175.61 W	290079	559
2133721452	10/07/78	89	24	18646	D	34.19	145.09	10	EEFE	NO		CCCL	LLLL	51.47 N	176.32 W	290079	560
2133802581	10/07/78	143	31	18649	D	40.27	136.52	10	ZEFE	NO		CCCL	LLLL	41.61 N	102.01 F	290079	613
2133804365	10/21/78	161	20	18650	D	30.22	150.11	80	EEEE	NO		CCCL	LLLL	57.03 N	083.50 E	290080	71

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FROM 10/01/78 TO 10/31/78

CONSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133804371	10/21/78	161	21	18650	D	31.20	148.85	NA	MMMM	NO		CCCL	LLLL	55.64 N	082.65 E		0
2133804374	10/21/78	161	22	18650	D	32.17	147.62	NA	MMMM	NO		CCCL	LLLL	54.26 N	081.85 E		0
2133804380	10/21/78	161	23	18650	D	33.13	146.40	10	EEEE	NO		CCCL	LLLL	52.87 N	081.09 E		0
2133804383	10/21/78	161	24	18650	D	34.08	145.19	40	EEEE	NO		CCCL	LLLL	51.47 N	080.37 E	290080	72
2133804385	10/21/78	161	25	18650	D	35.00	143.98	20	EEEE	NO		CCCL	LLLL	50.07 N	079.69 E	290080	73
2133804392	10/21/78	161	26	18650	D	35.92	142.77	10	EEEE	NO		CCCL	LLLL	48.66 N	079.05 E	290079	506
2133804394	10/21/78	161	27	18650	D	36.82	141.55	0	EEEE	NO		CCCL	LLLL	47.26 N	078.43 E	290079	507
2133804401	10/21/78	161	28	18650	D	37.71	140.32	0	EEEE	NO		CCCL	LLLL	45.85 N	077.84 E	290079	508
2133804403	10/21/78	161	29	18650	D	38.58	139.07	0	EEEE	NO		CCCL	LLLL	44.44 N	077.27 E	290079	509
2133806194	10/21/78	179	19	18651	D	29.21	151.39	70	EEEE	NO		CCCL	LLLL	58.41 N	058.59 E	290079	510
2133806200	10/21/78	179	20	18651	D	30.20	150.11	50	EEEE	NO		CCCL	LLLL	57.02 N	057.69 E	290079	511
2133806203	10/21/78	179	21	18651	D	31.19	148.86	80	EEEE	NO		CCCL	LLLL	55.64 N	056.84 E	290079	512
2133806205	10/21/78	179	22	18651	D	32.16	147.63	90	EEEE	NO		CCCL	LLLL	54.25 N	056.04 E	290079	513
2133806212	10/21/78	179	23	18651	D	33.12	146.41	70	EEEE	NO		CCCL	LLLL	52.86 N	055.29 E	290079	514
2133806214	10/21/78	179	24	18651	D	34.06	145.20	20	EEEE	NO		CCCL	LLLL	51.46 N	054.57 E	290079	515
2133806221	10/21/78	179	25	18651	D	34.99	144.00	10	EEEE	NO		CCCL	LLLL	50.06 N	053.89 E	290079	516
2133806253	10/21/78	179	33	18651	D	41.83	133.93	20	EEEE	NO		CCCL	LLLL	38.75 N	049.42 E	290079	517
2133806255	10/21/78	179	34	18651	D	42.59	132.58	30	EEEE	NO		CCCL	LLLL	37.33 N	048.94 E	290079	518
2133808030	10/21/78	197	19	18652	D	29.18	151.42	80	EEEE	NO		CCCL	LLLL	58.41 N	032.76 E	290079	519
2133808032	10/21/78	197	20	18652	D	30.17	150.14	70	EEEE	NO		CCCL	LLLL	57.03 N	031.86 E	290079	520
2133808035	10/21/78	197	21	18652	D	31.16	148.88	90	EEEE	NO		CCCL	LLLL	55.65 N	031.01 E	290079	521
2133808041	10/21/78	197	22	18652	D	32.13	147.66	80	EEEE	NO		CCCL	LLLL	54.26 N	030.20 E	290079	522
2133808043	10/21/78	197	23	18652	D	33.08	146.44	70	EEEE	NO		CCCL	LLLL	52.87 N	029.45 E	290079	523
2133808050	10/21/78	197	24	18652	D	34.03	145.23	60	EEEE	NO		CCCL	LLLL	51.47 N	028.75 E	290079	524
2133815012	10/07/78	18	32	18656	D	40.94	135.39	20	EEEE	NO		CCCL	LLLL	40.18 N	079.17 W	290079	525
2133815015	10/07/78	18	33	18656	D	41.73	134.07	10	EEEE	NO		CCCL	LLLL	38.76 N	079.65 W	290079	561
2133815021	10/07/78	18	34	18656	D	42.50	132.73	80	EEEE	NO		CCCL	LLLL	37.33 N	080.12 W	290079	562
2133815024	10/07/78	18	35	18656	D	43.24	131.35	80	EEEE	NO		CCCL	LLLL	35.91 N	080.59 W	290079	563
2133815030	10/07/78	18	36	18656	D	43.95	129.94	40	EEEE	NO		CCCL	LLLL	34.48 N	081.03 W	290079	564
2133815033	10/07/78	18	37	18656	D	44.64	128.50	30	EEEE	NO		CCCL	LLLL	33.05 N	081.47 W	290079	565
2133815035	10/07/78	18	38	18656	D	45.31	127.02	30	EEEE	NO		CCCL	LLLL	31.62 N	081.89 W	290079	566
2133815051	10/07/78	18	41	18656	D	47.10	122.39	NA	MMMM	NO		CCCL	HLLL	27.33 N	083.11 W		0
2133816415	10/21/78	36	25	18657	D	34.86	144.10	10	EEEE	NO		CCCL	LLLL	50.06 N	100.98 W	290080	74
2133816421	10/21/78	36	26	18657	D	35.78	142.90	0	EEEE	NO		CCCL	LLLL	48.66 N	101.63 W	290080	75
2133816424	10/21/78	36	27	18657	D	36.68	141.69	0	EEEE	NO		CCCL	LLLL	47.25 N	102.25 W	290080	76
2133816430	10/21/78	36	28	18657	D	37.57	140.47	0	EEEE	NO		CCCL	LLLL	45.84 N	102.83 W	290080	77
2133816433	10/21/78	36	29	18657	D	38.44	139.23	0	EEEE	NO		CCCL	LLLL	44.43 N	103.40 W	290080	78
2133816435	10/21/78	36	30	18657	D	39.30	137.96	0	EEEE	NO		CCCL	LLLL	43.02 N	103.96 W	290080	79
2133816442	10/21/78	36	31	18657	D	40.13	136.69	0	EEEE	NO		CCCL	LLLL	41.60 N	104.48 W	290080	80
2133816444	10/21/78	36	32	18657	D	40.93	135.40	0	EEEE	NO		CCCL	LLLL	40.18 N	104.98 W	290080	81

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OBSERVATION
IDENTRY
DATE

PATH

ROW

ORBIT
#DAY/NITE
/SPCLSUN
ELEVSUN
AZIMX CLD
COVERQUALITY
4567

CCM

CCM
QLTYMODE
4567GAIN
4567PICTURE
CNTR LATPICTURE
CNTR LONGMICROFILM
ROLLMIC FLM
FRAME
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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	X CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133816451	10/21/78	36	33	18657	D	41.72	134.09	0	EEEE	NO		CCCL	LLLL	38.76 N	105.47 W	290080	82
2133816453	10/21/78	36	34	18657	D	42.49	132.73	0	EEEE	NO		CCCL	LLLL	37.33 N	105.94 W	290080	83
2133816460	10/21/78	36	35	18657	D	43.24	131.35	20	EEEE	NO		CCCL	LLLL	35.91 N	106.40 W	290080	84
2133816462	10/21/78	36	36	18657	D	43.95	129.95	80	EEEE	NO		CCCL	LLLL	34.48 N	106.84 W	290080	85
2133816465	10/21/78	36	37	18657	D	44.63	128.52	90	EEEE	NO		CCCL	LLLL	33.05 N	107.28 W	290080	86
2133816471	10/21/78	36	38	18657	D	45.29	127.05	90	EEEE	NO		CCCL	LLLL	31.62 N	107.70 W	290080	87
2133820052	10/21/78	72	18	18659	D	28.01	152.83	50	EMMM	NO		CCCL	HHLL	59.79 N	146.95 W	290080	88
2133820055	10/21/78	72	19	18659	D	29.01	151.52	50	EEFE	NO		CCCL	HHLL	58.42 N	147.92 W	290080	89
2133820061	10/21/78	72	20	18659	D	30.01	150.25	40	EEEE	NO		CCCL	HHLL	57.05 N	148.84 W	290080	90
2133820064	10/21/78	72	21	18659	D	30.99	149.00	40	EEEE	NO		CCCL	HHLL	55.66 N	149.70 W	290080	91
2133820070	10/21/78	72	22	18659	D	31.96	147.78	60	EEFE	NO		CCCL	HHLL	54.28 N	150.50 W	290080	92
2133820073	10/21/78	72	23	18659	D	32.92	146.57	50	EEFE	NO		CCCL	HHLL	52.88 N	151.25 W	290080	93
2133820075	10/21/78	72	24	18659	D	33.88	145.36	80	EEFE	NO		CCCL	HHLL	51.48 N	151.96 W	290080	94
2133820082	10/21/78	72	25	18659	D	34.81	144.15	50	EEEE	NO		CCCL	HHLL	50.08 N	152.63 W	290080	95
2133820084	10/21/78	72	26	18659	D	35.73	142.95	40	EEEE	NO		CCCL	HHLL	48.67 N	153.28 W	290080	96
2133904491	10/21/78	162	36	18664	D	43.81	130.22	20	EEEE	NO		CCCL	LLLL	34.48 N	072.40 E	290080	97
2133904494	10/21/78	162	37	18664	D	44.50	128.79	10	EEEE	NO		CCCL	LLLL	33.05 N	071.96 E	290080	98
2133904500	10/21/78	162	38	18664	D	45.17	127.32	10	EEFE	NO		CCCL	LLLL	31.63 N	071.54 E	290080	99
2133904503	10/21/78	162	39	18664	D	45.81	125.83	20	MEMM	NO		CCCL	LLLL	30.20 N	071.12 E	290080	100
2133904505	10/21/78	162	40	18664	D	46.41	124.30	10	EPFE	NO		CCCL	LLLL	28.76 N	070.71 E	290080	101
2133906443	10/21/78	180	65	18665	D	48.45	121.12	10	EEEE	NO		CCCL	LLLL	07.20 S	036.07 E	290080	102
2133915062	10/08/78	19	30	18670	D	39.01	138.33	30	EEEE	NO		CCCL	LLLL	43.02 N	079.57 W	290080	1
2133915065	10/08/78	19	31	18670	D	39.84	137.07	90	EEEE	NO		CCCL	LLLL	41.60 N	080.09 W	290080	2
2133915071	10/08/78	19	32	18670	D	40.66	135.79	100	EEEE	NO		CCCL	LLLL	40.18 N	080.59 W	290080	3
2133915074	10/08/78	19	33	18670	D	41.46	134.48	90	EEEE	NO		CCCL	LLLL	38.75 N	081.07 W	290080	4
2133915080	10/08/78	19	34	18670	D	42.23	133.15	80	EEEE	NO		CCCL	LLLL	37.33 N	081.54 W	290080	5
2133915083	10/08/78	19	35	18670	D	42.98	131.79	20	EEEE	NO		CCCL	LLLL	35.90 N	082.01 W	290080	6
2133915085	10/08/78	19	36	18670	D	43.71	130.39	20	EEEE	NO		CCCL	LLLL	34.48 N	082.46 W	290080	7
2133915092	10/08/78	19	37	18670	D	44.41	128.96	30	EEEE	NO		CCCL	LLLL	33.05 N	082.90 W	290080	8
2133915094	10/08/78	19	38	18670	D	45.09	127.50	40	EEEE	NO		CCCL	LLLL	31.63 N	083.33 W	290080	9
2133915101	10/08/78	19	39	18670	D	45.73	126.01	30	EEEE	NO		CCCL	LLLL	30.20 N	083.75 W	290080	10
2133915103	10/08/78	19	40	18670	D	46.34	124.48	NA	2222	NO		CCCL	LLLL	28.76 N	084.16 W	0	0
2133920114	10/21/78	73	19	18673	D	28.67	151.73	80	EEEE	NO		CCCL	HHLL	58.42 N	149.36 W	290080	103
2133920120	10/21/78	73	20	18673	D	29.66	150.47	80	EEEE	NO		CCCL	HHLL	57.04 N	150.27 W	290080	104
2133920123	10/21/78	73	21	18673	D	30.65	149.25	80	EEEE	NO		CCCL	HHLL	55.66 N	151.12 W	290080	105
2133920125	10/21/78	73	22	18673	D	31.62	148.03	70	EEEE	NO		CCCL	HHLL	54.27 N	151.92 W	290080	106
2133920132	10/21/78	73	23	18673	D	32.59	146.83	60	EEEE	NO		CCCL	HHLL	52.87 N	152.68 W	290080	107
2133920134	10/21/78	73	24	18673	D	33.54	145.64	50	EEEE	NO		CCCL	HHLL	51.48 N	153.40 W	290080	108
2133920141	10/21/78	73	25	18673	D	34.48	144.45	40	EEEE	NO		CCCL	HHLL	50.08 N	154.08 W	290080	109
2133920143	10/21/78	73	26	18673	D	35.40	143.26	40	EEEE	NO		CCCL	HHLL	48.67 N	154.72 W	290080	110

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LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2134000015	10/07/78	109	76	18675	D	41.69	067.51	0	FFFE	NO		CCCL	LLLL	23.02 S	134.00 E	290079	614
2134001242	10/07/78	127	26	18676	D	35.32	143.34	10	PEEE	NO		CCCL	LLLL	48.67 N	127.81 E	290079	615
2134001244	10/07/78	127	27	18676	D	36.24	142.14	10	PEFE	NO		CCCL	LLLL	47.26 N	127.20 F	290079	616
2134001251	10/07/78	127	28	18676	D	37.14	140.93	10	FEFE	NO		CCCL	LLLL	45.84 N	126.61 E	290079	617
2134001253	10/07/78	127	29	18676	D	38.02	139.71	30	FEZE	NO		CCCL	LLLL	44.43 N	126.05 E	290079	618
2134001260	10/07/78	127	30	18676	D	38.88	138.47	40	FEFE	NO		CCCL	LLLL	43.01 N	125.50 E	290079	619
2134001262	10/07/78	127	31	18676	D	39.73	137.22	30	PEFE	NO		CCCL	LLLL	41.60 N	124.98 E	290079	620
2134001265	10/07/78	127	32	18676	D	40.55	135.95	NA	MMMM	NO		CCCL	LLLL	40.17 N	124.48 E	0	0
2134001292	10/07/78	127	38	18676	D	44.98	127.73	NA	2222	NO		CCCL	LLLL	31.62 N	121.75 E	0	0
2134001294	10/07/78	127	39	18676	D	45.63	126.25	90	ZEFE	NO		CCCL	LLLL	30.19 N	121.32 E	290079	621
2134004482	10/07/78	163	20	18678	D	29.53	150.56	10	PEFE	NO		CCCL	LLLL	57.02 W	080.64 E	290079	622
2134004485	10/21/78	163	21	18678	D	30.51	149.34	10	EEEE	NO		CCCL	LLLL	55.65 N	079.78 E	290080	111
2134004491	10/21/78	163	22	18678	D	31.48	148.14	20	EEEE	NO		CCCL	LLLL	54.26 N	078.98 E	290080	112
2134004494	10/21/78	163	23	18678	D	32.46	146.93	10	EEEE	NO		CCCL	LLLL	52.87 N	078.22 E	290080	113
2134004500	10/21/78	163	24	18678	D	33.41	145.75	10	EEEE	NO		CCCL	LLLL	51.47 N	077.51 E	290080	114
2134004503	10/21/78	163	25	18678	D	34.36	144.56	10	EEEE	NO		CCCL	LLLL	50.07 N	076.83 E	290080	115
2134004564	10/21/78	163	40	18678	D	46.21	124.81	20	EEEE	NO		CCCL	LLLL	28.76 N	069.29 E	290080	116
2134004571	10/21/78	163	41	18678	D	46.80	123.26	10	EEEE	NO		CCCL	LLLL	27.33 N	068.89 E	290080	117
2134004573	10/21/78	163	42	18678	D	47.35	121.68	10	EEEE	NO		CCCL	LLLL	25.90 N	068.50 E	290080	118
2134004580	10/21/78	163	43	18678	D	47.87	120.06	10	EFEE	NO		CCCL	LLLL	24.46 N	068.10 E	290080	119
2134006311	10/21/78	181	19	18679	D	28.50	151.83	100	EFEE	NO		CCCL	LLLL	58.40 W	055.73 E	290080	120
2134006314	10/21/78	181	20	18679	D	29.51	150.57	100	EFEE	NO		CCCL	LLLL	57.02 W	054.83 E	290080	121
2134006320	10/21/78	181	21	18679	D	30.50	149.35	NA	MMMM	NO		CCCL	LLLL	55.64 N	053.98 E	0	0
2134006323	10/21/78	181	22	18679	D	31.47	148.14	90	EEEE	NO		CCCL	LLLL	54.25 N	053.17 E	290080	122
2134006325	10/21/78	181	23	18679	D	32.44	146.94	70	EEEE	NO		CCCL	LLLL	52.86 N	052.42 E	290080	123
2134006332	10/21/78	181	24	18679	D	33.40	145.75	20	EEEE	NO		CCCL	LLLL	51.46 N	051.71 E	290080	124
2134006334	10/21/78	181	25	18679	D	34.34	144.57	10	EEEE	NO		CCCL	LLLL	50.06 N	051.03 E	290080	125
2134013383	10/07/78	2	53	18683	D	50.85	102.75	20	FEFE	NO		CCCL	LLLL	10.09 N	064.54 W	290079	623
2134015121	10/07/78	20	30	18684	D	38.71	138.68	10	FFFF	NO		CCCL	LLLL	43.02 N	081.01 W	290079	598
2134015123	10/07/78	20	31	18684	D	39.56	137.43	10	EEEE	NO		CCCL	LLLL	41.60 N	081.53 W	290079	599
2134015130	10/07/78	20	32	18684	D	40.39	136.16	0	EEEE	NO		CCCL	LLLL	40.18 N	082.03 W	290079	600
2134015132	10/07/78	20	33	18684	D	41.20	134.87	60	EEEE	NO		CCCL	LLLL	38.75 N	082.51 W	290079	601
2134015135	10/07/78	20	34	18684	D	41.98	133.55	NA	2222	NO		CCCL	LLLL	37.33 N	082.98 W	0	0
2134016523	10/07/78	38	23	18685	D	32.29	147.06	20	EEEE	NO		CCCL	LLLL	52.86 N	102.46 W	290079	565
2134016525	10/07/78	38	24	18685	D	33.26	145.87	20	EEEE	NO		CCCL	LLLL	51.47 N	103.18 W	290079	569
2134016532	10/07/78	38	25	18685	D	34.20	144.69	0	EEEE	NO		CCCL	LLLL	50.06 N	103.85 W	290079	570
2134016534	10/07/78	38	26	18685	D	35.13	143.52	10	FEFE	NO		CCCL	LLLL	48.66 N	104.50 W	290079	571
2134016541	10/07/78	38	27	18685	D	36.04	142.34	10	EEEE	NO		CCCL	LLLL	47.25 N	105.11 W	290079	572
2134016543	10/07/78	38	28	18685	D	36.94	141.14	10	FEFE	NO		CCCL	LLLL	45.84 N	105.70 W	290079	573
2134016550	10/07/78	38	29	18685	D	37.83	139.92	0	EEEE	NO		CCCL	LLLL	44.43 N	106.28 W	290079	574

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2134016552	10/07/78	38	30	18685	D	38.70	138.70	0	EEEE	NO		CCCL	LLLL	43.02 N	106.83 W	290079	575
2134016555	10/07/78	38	31	18685	D	39.54	137.45	10	EEEE	NO		CCCL	LLLL	41.60 N	107.35 W	290079	576
2134016561	10/07/78	38	32	18685	D	40.37	136.20	0	EEEE	NO		CCCL	LLLL	40.18 N	107.85 W	290079	577
2134016564	10/07/78	38	33	18685	D	41.17	134.91	0	EEEE	NO		CCCL	LLLL	38.76 N	108.34 W	290079	578
2134016570	10/07/78	38	34	18685	D	41.96	133.59	10	EEEE	NO		CCCL	LLLL	37.34 N	108.82 W	290079	579
2134016573	10/07/78	38	35	18685	D	42.72	132.25	30	EEEE	NO		CCCL	LLLL	35.91 N	109.29 W	290079	580
2134016575	10/07/78	38	36	18685	D	43.46	130.86	40	EEEE	NO		CCCL	LLLL	34.48 N	109.73 W	290079	581
2134016582	10/07/78	38	37	18685	D	44.16	129.46	40	EEEE	NO		CCCL	LLLL	33.05 N	110.15 W	290079	582
2134016584	10/07/78	38	38	18685	D	44.84	128.03	20	EEEE	NO		CCCL	LLLL	31.62 N	110.57 W	290079	583
2134100074	10/07/78	110	76	18689	D	41.97	167.88	10	FEFE	NO		CCCL	LLLL	23.02 S	132.57 E	290079	624
2134100101	10/07/78	110	82	18689	D	36.94	162.78	40	FEFE	NO		CCCL	LLLL	31.61 S	130.19 E	290079	625
2134101294	10/07/78	128	25	18690	D	34.07	144.81	10	FEFE	NO		CCCL	LLLL	50.07 N	127.02 E	290080	26
2134101301	10/07/78	128	26	18690	D	35.01	143.63	10	PEEE	NO		CCCL	LLLL	48.66 N	126.38 E	290080	27
2134101303	10/07/78	128	27	18690	D	35.93	142.45	10	PEFE	NO		CCCL	LLLL	47.25 N	125.77 E	290080	28
2134101310	10/07/78	128	28	18690	D	36.84	141.25	0	FEFE	NO		CCCL	LLLL	45.84 N	125.19 E	290080	29
2134101312	10/07/78	128	29	18690	D	37.72	140.05	10	FEFE	NO		CCCL	LLLL	44.43 N	124.62 E	290080	30
2134101315	10/07/78	128	30	18690	D	38.59	138.82	10	FEFE	NO		CCCL	LLLL	43.02 N	124.07 E	290080	31
2134101321	10/07/78	128	31	18690	D	39.44	137.58	10	FEFE	NO		CCCL	LLLL	41.60 N	123.54 E	290080	32
2134101324	10/07/78	128	32	18690	D	40.27	136.33	10	FEFE	NO		CCCL	LLLL	40.18 N	123.03 E	290080	33
2134101330	10/07/78	128	33	18690	D	41.08	135.05	10	FFFF	NO		CCCL	LLLL	38.76 N	122.54 E	290080	34
2134101333	10/07/78	128	34	18690	D	41.87	133.73	10	FEFF	NO		CCCL	LLLL	37.34 N	122.06 E	290080	35
2134101335	10/07/78	128	35	18690	D	42.63	132.38	0	PFEF	NO		CCCL	LLLL	35.91 N	121.60 E	290080	36
2134101342	10/07/78	128	36	18690	D	43.37	131.03	0	PEFF	NO		CCCL	LLLL	34.49 N	121.15 E	290080	37
2134101344	10/07/78	128	37	18690	D	44.09	129.61	10	FEFF	NO		CCCL	LLLL	33.06 N	120.71 E	290080	38
2134101351	10/07/78	128	38	18690	D	44.77	128.19	20	FEFE	NO		CCCL	LLLL	31.63 N	120.28 E	290080	39
2134101353	10/07/78	128	39	18690	D	45.42	126.73	30	PEFE	NO		CCCL	LLLL	30.20 N	119.87 E	290080	40
2134101423	10/07/78	128	56	18690	D	50.92	097.56	90	PEFE	NO		CCCL	LLLL	05.76 N	113.69 E	290080	41
2134101430	10/07/78	128	57	18690	D	50.86	095.75	80	PEEE	NO		CCCL	LLLL	04.32 N	113.35 E	290080	42
2134107022	10/07/78	182	80	18693	D	38.80	064.37	70	FEFE	NO		CCCL	LLLL	28.74 S	027.72 E	290080	43
2134107025	10/07/78	182	81	18693	D	37.93	063.60	50	FEFE	NO		CCCL	LLLL	30.17 S	027.31 E	290080	44
2134201353	10/07/78	129	25	18704	D	33.76	145.08	30	EEEE	NO		CCCL	LLLL	50.06 N	125.60 E	290080	45
2134201355	10/07/78	129	26	18704	D	34.70	143.92	20	EEEE	NO		CCCL	LLLL	48.65 N	124.97 E	290080	46
2134201362	10/07/78	129	27	18704	D	35.62	142.75	NA	MMMM	NO		CCCL	LLLL	47.24 N	124.36 E	0	0
2134201364	10/07/78	129	28	18704	D	36.52	141.58	0	FEFE	NO		CCCL	LLLL	45.83 N	123.77 E	290080	47
2134201371	10/07/78	129	29	18704	D	37.41	140.39	NA	MMMM	NO		CCCL	LLLL	44.42 N	123.20 E	0	0
2134201373	10/07/78	129	30	18704	D	38.29	139.18	NA	MMMM	NO		CCCL	LLLL	43.01 N	122.66 E	0	0
2134201380	10/07/78	129	31	18704	D	39.15	137.95	40	FEFE	NO		CCCL	LLLL	41.59 N	122.13 E	290080	48
2134201382	10/07/78	129	32	18704	D	39.99	136.70	50	FEFE	NO		CCCL	LLLL	40.17 N	121.62 E	290080	49
2134201385	10/07/78	129	33	18704	D	40.81	135.43	0	FEFE	NO		CCCL	LLLL	38.75 N	121.13 E	290080	50
2134201391	10/07/78	129	34	18704	D	41.61	134.13	10	FEFE	NO		CCCL	LLLL	37.33 N	120.65 E	290080	51

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2134201430	10/07/78	129	43	18704	D	47.57	121.06	90	FEFE	NO		CCCL	LLLL	24.46 N	116.87 E	290080	52
2134201432	10/07/78	129	44	18704	D	48.08	119.43	80	PEEE	NO		CCCL	LLLL	23.03 N	116.50 E	290080	53
2134201521	10/07/78	129	65	18704	D	48.93	082.68	20	FEFE	NO		CCCL	LLLL	07.19 S	109.22 E	290080	54
2134205000	10/07/78	165	20	18706	D	28.83	151.02	0	FEFE	NO		CCCL	LLLL	57.02 N	077.77 E	290079	639
2134205002	10/07/78	165	21	18706	D	29.83	149.81	50	PEFE	NO		CCCL	LLLL	55.64 N	076.92 E	290079	640
2134205005	10/07/78	165	22	18706	D	30.81	148.62	90	PEFE	NO		CCCL	LLLL	54.25 N	076.11 E	290079	641
2134205011	10/07/78	165	23	18706	D	31.79	147.45	80	PEFE	NO		CCCL	LLLL	52.86 N	075.36 E	290079	642
2134205013	10/07/78	165	24	18706	D	32.75	146.29	70	PEFE	NO		CCCL	LLLL	51.47 N	074.64 E	290079	643
2134205020	10/07/78	165	25	18706	D	33.70	145.13	40	PEFE	NO		CCCL	LLLL	50.06 N	073.97 F	290079	644
2134205022	10/07/78	165	26	18706	D	34.64	143.97	70	PEFE	NO		CCCL	LLLL	48.66 N	073.32 E	290079	645
2134206440	10/07/78	183	22	18707	D	30.79	148.63	90	PEEE	NO		CCCL	LLLL	54.25 N	050.31 F	290079	646
2134206443	10/07/78	183	23	18707	D	31.77	147.46	90	PEFE	NO		CCCL	LLLL	52.85 N	049.56 E	290079	647
2134206445	10/07/78	183	24	18707	D	32.74	146.30	100	PEFE	NO		CCCL	LLLL	51.46 N	048.85 E	290079	648
2134206452	10/07/78	183	25	18707	D	33.69	145.14	90	PEFE	NO		CCCL	LLLL	50.05 N	048.17 E	290079	649
2134206454	10/07/78	183	26	18707	D	34.63	143.97	30	FEFE	NO		CCCL	LLLL	48.65 N	047.53 E	290079	650
2134206461	10/07/78	183	27	18707	D	35.56	142.81	10	FEFE	NO		CCCL	LLLL	47.24 N	046.91 E	290079	651
2134206463	10/07/78	183	28	18707	D	36.46	141.64	30	PEFE	NO		CCCL	LLLL	45.83 N	046.32 F	290079	652
2134206470	10/07/78	183	29	18707	D	37.35	140.46	80	PEFE	NO		CCCL	LLLL	44.42 N	045.75 F	290079	653
2134206472	10/07/78	183	30	18707	D	38.23	139.26	80	PEEE	NO		CCCL	LLLL	43.01 N	045.21 E	290079	654
2134210151	10/07/78	219	33	18709	D	40.70	135.59	10	FEFE	NO		CCCL	LLLL	38.76 N	007.94 W	290079	655
2134210153	10/07/78	219	34	18709	D	41.50	134.30	10	FEFE	NO		CCCL	LLLL	37.33 N	008.41 W	290079	656
2134210215	10/07/78	219	49	18709	D	49.99	111.14	70	PEFE	NO		CCCL	LLLL	15.85 N	014.40 W	290079	657
2134215225	10/08/78	22	28	18712	D	36.35	141.76	70	EEEE	NO		CCCL	LLLL	45.84 N	082.75 W	290079	701
2134215232	10/08/78	22	29	18712	D	37.24	140.57	70	EEEE	NO		CCCL	LLLL	44.43 N	083.31 W	290079	702
2134215234	10/08/78	22	30	18712	D	38.12	139.38	30	EEFE	NO		CCCL	LLLL	43.01 N	083.85 W	290079	703
2134215241	10/08/78	22	31	18712	D	38.98	138.16	10	EEEE	NO		CCCL	LLLL	41.59 N	084.37 W	290079	704
2134215243	10/08/78	22	32	18712	D	39.83	136.91	0	EEEE	NO		CCCL	LLLL	40.17 N	084.87 W	290079	705
2134215250	10/08/78	22	33	18712	D	40.66	135.65	10	EEFE	NO		CCCL	LLLL	38.75 N	085.36 W	290079	706
2134215252	10/08/78	22	34	18712	D	41.45	134.36	10	EEEE	NO		CCCL	LLLL	37.32 N	085.83 W	290079	707
2134215255	10/08/78	22	35	18712	D	42.23	133.04	20	EEEE	NO		CCCL	LLLL	35.90 N	086.35 W	290079	708
2134215261	10/08/78	22	36	18712	D	42.99	131.70	20	EEEE	NO		CCCL	LLLL	34.47 N	086.75 W	290079	709
2134215264	10/08/78	22	37	18712	D	43.71	130.32	80	EEEE	NO		CCCL	LLLL	33.05 N	087.19 W	290079	710
2134215270	10/08/78	22	38	18712	D	44.41	128.92	90	EEEE	NO		CCCL	LLLL	31.62 N	087.62 W	290079	711
2134215273	10/08/78	22	39	18712	D	45.08	127.50	NA	MMMM	NO		CCCL	LLLL	30.19 N	088.03 W	0	0
2134215275	10/08/78	22	40	18712	D	45.72	126.02	60	EEEE	NO		CCCL	LLLL	28.76 N	088.44 W	290079	712
2134217040	10/07/78	40	23	18713	D	31.62	147.58	20	FEFE	NO		CCCL	LLLL	52.87 N	105.34 W	290079	658
2134217043	10/07/78	40	24	18713	D	32.59	146.42	10	FEFE	NO		CCCL	LLLL	51.47 N	106.04 W	290079	659
2134217045	10/07/78	40	25	18713	D	33.54	145.27	10	FEFE	NO		CCCL	LLLL	50.06 N	106.72 W	290079	660
2134217052	10/07/78	40	26	18713	D	34.48	144.12	NA	MMMM	NO		CCCL	LLLL	48.66 N	107.36 W	0	0
2134217054	10/07/78	40	27	18713	D	35.40	142.96	30	FEFE	NO		CCCL	LLLL	47.25 N	107.97 W	290079	661

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2134217061	10/07/78	40	28	18713	D	36.32	141.79	10	FEFE	NO		CCCL	LLLL	45.84 N	108.56 W		290079	662
2134217063	10/07/78	40	29	18713	D	37.21	140.61	0	FEFE	NO		CCCL	LLLL	44.43 N	109.13 W		290079	663
2134217070	10/07/78	40	30	18713	D	38.10	139.41	0	FEFE	NO		CCCL	LLLL	43.01 N	109.68 W		290079	664
2134217072	10/07/78	40	31	18713	D	38.96	138.19	NA	MMMM	NO		CCCL	LLLL	41.60 N	110.21 W		290079	665
2134217075	10/07/78	40	32	18713	D	39.80	136.96	10	FEFE	NO		CCCL	LLLL	40.18 N	110.72 W		290079	666
2134217081	10/07/78	40	33	18713	D	40.62	135.70	10	PEFE	NO		CCCL	LLLL	38.76 N	111.21 W		290079	667
2134217084	10/07/78	40	34	18713	D	41.42	134.41	10	FEFE	NO		CCCL	LLLL	37.33 N	111.68 W		290079	668
2134217090	10/07/78	40	35	18713	D	42.20	133.10	10	FFFE	NO		CCCL	LLLL	35.91 N	112.14 W		290079	669
2134217093	10/07/78	40	36	18713	D	42.95	131.76	10	FEFE	NO		CCCL	LLLL	34.48 N	112.58 W		290079	670
2134217095	10/07/78	40	37	18713	D	43.68	130.38	10	PEFE	NO		CCCL	LLLL	33.05 N	113.02 W		290079	671
2134217102	10/07/78	40	38	18713	D	44.39	128.96	10	PEFE	NO		CCCL	LLLL	31.62 N	113.45 W		290079	672
2134218481	10/08/78	58	25	18714	D	33.51	145.30	90	FEFE	NO		CCCL	HLLL	50.07 N	132.55 W		290080	11
2134218483	10/08/78	58	26	18714	D	34.45	144.14	90	FEFE	NO		CCCL	HLLL	48.67 N	133.20 W		290080	12
2134220254	10/08/78	76	11	18715	S	19.20	164.71	70	EFEE	NO		CCCL	LLLL	69.16 N	143.05 W		290079	713
2134220260	10/08/78	76	12	18715	D	20.27	162.78	80	EFEE	NO		CCCL	LLLL	67.86 N	144.86 W		290079	714
2134220263	10/08/78	76	13	18715	D	21.34	161.01	90	EFEE	NO		CCCL	LLLL	66.53 N	146.48 W		290079	715
2134220265	10/08/78	76	14	18715	D	22.39	159.36	90	FFEE	NO		CCCL	LLLL	65.21 N	147.94 W		290079	716
2134220272	10/08/78	76	15	18715	D	23.45	157.82	90	FEFE	NO		CCCL	LLLL	63.86 N	149.28 W		290079	717
2134220274	10/08/78	76	16	18715	D	24.50	156.36	90	FFFE	NO		CCCL	LLLL	62.51 N	150.52 W		290079	718
2134220281	10/08/78	76	17	18715	D	25.54	155.00	100	FEFE	NO		CCCL	LLLL	61.16 N	151.65 W		290079	719
2134220283	10/08/78	76	18	18715	D	26.57	153.67	100	FEFE	NO		CCCL	LLLL	59.79 N	152.69 W		290079	720
2134220295	10/08/78	76	21	18715	D	29.61	149.96	90	FEFE	NO		CCCL	HLLL	55.65 N	155.40 W		290079	721
2134220301	10/08/78	76	22	18715	D	30.61	148.77	80	FEFE	NO		CCCL	HLLL	54.25 N	156.19 W		290079	722
2134220304	10/08/78	76	23	18715	D	31.58	147.60	90	FEFE	NO		CCCL	HLLL	52.86 N	156.93 W		290079	723
2134220310	10/08/78	76	24	18715	D	32.55	146.45	90	FEFE	NO		CCCL	HLLL	51.46 N	157.64 W		290079	724
2134220313	10/08/78	76	25	18715	D	33.50	145.30	100	FEFE	NO		CCCL	HLLL	50.06 N	158.32 W		290079	725
2134220315	10/08/78	76	26	18715	D	34.44	144.15	100	FEFE	NO		CCCL	HLLL	48.65 N	158.98 W		290079	726
2134301491	10/07/78	130	44	18718	D	47.91	120.01	70	PEFE	NO		CCCL	LLLL	23.03 N	115.04 E		290079	672
2134301573	10/07/78	130	64	18718	D	49.48	084.87	NA	MMMM	NO		CCCL	LLLL	05.75 S	108.12 E		0	0
2134301575	10/07/78	130	65	18718	D	49.10	083.25	NA	MMMM	NO		CCCL	LLLL	07.19 S	107.78 E		0	0
2134307074	10/08/78	184	65	18721	D	49.12	083.34	90	PFFF	NO		CCCL	LLLL	07.20 S	030.34 E		290079	727
2134307081	10/08/78	184	66	18721	D	48.70	081.77	70	PFFF	NO		CCCL	LLLL	08.64 S	030.00 E		290079	728
2134310205	10/08/78	220	33	18723	D	40.43	135.98	10	FFFE	NO		CCCL	LLLL	38.76 N	009.37 W		290079	729
2134315284	10/08/78	23	28	18726	D	36.05	142.06	90	EEEE	NO		CCCL	LLLL	45.84 N	084.18 W		290079	769
2134315290	10/08/78	23	29	18726	D	36.95	140.89	50	EEEE	NO		CCCL	LLLL	44.43 N	084.75 W		290079	770
2134315293	10/08/78	23	30	18726	D	37.84	139.71	10	EEEE	NO		CCCL	LLLL	43.01 W	085.28 W		290079	771
2134315295	10/08/78	23	31	18726	D	38.70	138.51	0	EEEE	NO		CCCL	LLLL	41.59 N	085.80 W		290079	772
2134315302	10/08/78	23	32	18726	D	39.55	137.29	0	EEEE	NO		CCCL	LLLL	40.17 N	086.31 W		290079	773
2134315304	10/08/78	23	33	18726	D	40.38	136.04	0	EEEE	NO		CCCL	LLLL	38.75 N	086.80 W		290079	774
2134315311	10/08/78	23	34	18726	D	41.19	134.77	0	EEEE	NO		CCCL	LLLL	37.33 N	087.27 W		290079	775

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STANDARD CATALOG

LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

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OBSERVATION ID	ENTRY DATE	PATH	ROW #	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM CLTY	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2134315313	10/08/78		23	35	D	41.97	133.47	30	EEEE	NO	CCCL LLLL	35.90 N	087.75 W	290079	776
2134315320	10/08/78		23	36	D	42.74	132.13	60	EEEE	NO	CCCL LLLL	34.48 N	088.19 W	290079	777
2134315322	10/08/78		23	37	D	43.48	130.76	70	EEEE	NO	CCCL LLLL	33.05 N	088.63 W	290079	778
2134315325	10/08/78		23	38	D	44.19	129.37	NA	MMMM	NO	CCCL LLLL	31.62 W	089.06 W	0	0
2134317095	10/07/78		41	23	D	31.27	147.84	50	EEEE	NO	CCCL LLLL	52.88 N	106.79 W	290080	55
2134317102	10/07/78		41	24	D	32.25	146.69	10	EEEE	NO	CCCL LLLL	51.48 N	107.50 W	290080	56
2134317104	10/07/78		41	25	D	33.21	145.55	10	EEEE	NO	CCCL LLLL	50.07 N	108.17 W	290080	57
2134317111	10/07/78		41	26	D	34.16	144.40	10	EEEE	NO	CCCL LLLL	48.66 N	108.80 W	290080	58
2134317113	10/07/78		41	27	D	35.10	143.25	10	EEEE	NO	CCCL LLLL	47.25 N	109.41 W	290080	59
2134317120	10/07/78		41	28	D	36.01	142.10	10	EEEE	NO	CCCL LLLL	45.84 N	110.00 W	290080	60
2134317122	10/07/78		41	29	D	36.91	140.94	20	EEEE	NO	CCCL LLLL	44.43 N	110.57 W	290080	61
2134317124	10/07/78		41	30	D	37.79	139.76	20	EEEE	NO	CCCL LLLL	43.02 N	111.13 W	290080	62
2134317131	10/07/78		41	31	D	38.66	138.56	20	EEEE	NO	CCCL LLLL	41.60 N	111.65 W	290080	63
2134317133	10/07/78		41	32	D	39.51	137.34	10	EEEE	NO	CCCL LLLL	40.18 N	112.16 W	290080	64
2134317140	10/07/78		41	33	D	40.34	136.09	0	EEEE	NO	CCCL LLLL	38.76 N	112.65 W	290080	65
2134317142	10/07/78		41	34	D	41.15	134.82	10	EEEE	NO	CCCL LLLL	37.33 N	113.12 W	290080	66
2134317145	10/07/78		41	35	D	41.94	133.52	10	EEEE	NO	CCCL LLLL	35.91 N	113.58 W	290080	67
2134317151	10/07/78		41	36	D	42.71	132.19	10	EEEE	NO	CCCL LLLL	34.48 N	114.03 W	290080	68
2134317154	10/07/78		41	37	D	43.44	130.83	0	EEEE	NO	CCCL LLLL	33.06 N	114.46 W	290080	69
2134317160	10/07/78		41	38	D	44.18	129.44	10	EEEE	NO	CCCL LLLL	31.62 N	114.88 W	290080	70
2134318533	10/08/78		59	24	D	32.74	146.69	90	EFEM	NO	CCCL HHLL	51.47 N	133.29 W	290079	779
2134318540	10/08/78		59	25	D	33.20	145.56	90	EEEF	NO	CCCL HHLL	50.07 N	133.97 W	290079	780
2134318542	10/08/78		59	26	D	34.14	144.43	90	EEFE	NO	CCCL HHLL	48.66 N	134.62 W	290079	781
2134320310	10/07/78		77	10	S	17.74	166.98	70	FFFE	NO	CCCL LLLL	70.44 N	142.46 W	290079	673
2134320312	10/07/78		77	11	S	18.83	164.85	70	FEFE	NO	CCCL LLLL	69.15 N	144.48 W	290079	674
2134320315	10/07/78		77	12	S	19.90	162.92	20	FEFE	NO	CCCL LLLL	67.85 N	146.28 W	290079	675
2134320321	10/07/78		77	13	D	20.96	161.17	10	FEFE	NO	CCCL LLLL	66.53 N	147.90 W	290079	676
2134320324	10/07/78		77	14	D	22.02	159.53	90	PEFE	NO	CCCL LLLL	65.21 N	149.37 W	290079	677
2134320330	10/07/78		77	15	D	23.08	158.00	100	PEFE	NO	CCCL LLLL	63.87 N	150.72 W	290079	678
2134320333	10/07/78		77	16	D	24.13	156.55	90	FEFE	NO	CCCL LLLL	62.52 N	151.95 W	290079	679
2134320335	10/07/78		77	17	D	25.17	155.18	100	FEFE	NO	CCCL LLLL	61.16 N	153.08 W	290079	680
2134320342	10/07/78		77	18	D	26.21	153.87	90	FEFE	NO	CCCL LLLL	59.79 N	154.12 W	290079	681
2134320353	10/07/78		77	21	D	29.27	150.18	NA	MMMM	NO	CCCL HHLL	55.63 N	156.81 W	0	0
2134320360	10/07/78		77	22	D	30.27	149.01	80	PPFF	NO	CCCL HHLL	54.24 N	157.61 W	290079	682
2134320362	10/07/78		77	23	D	31.25	147.85	70	PEEE	NO	CCCL HHLL	52.85 N	158.37 W	290079	683
2134320365	10/07/78		77	24	D	32.22	146.72	70	PEFE	NO	CCCL HHLL	51.45 N	159.09 W	290079	684
2134320371	10/07/78		77	25	D	33.17	145.58	90	FEFE	NO	CCCL HHLL	50.06 N	159.77 W	290079	685
2134320374	10/07/78		77	26	D	34.12	144.44	100	FEFE	NO	CCCL HHLL	48.65 N	160.41 W	290079	686
2134401550	10/08/78		131	44	D	47.75	120.55	50	PFEE	NO	CCCL LLLL	23.03 N	113.63 E	290079	730
2134401552	10/08/78		131	45	D	48.25	118.92	60	FFFE	NO	CCCL LLLL	21.59 N	113.25 E	290079	731

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STANDARD CATALOG
LANDSAT 2 MSS SENSOR
FROM 10/01/77 TO 10/31/78

OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR-LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FILM FRAME
2134402031	10/08/78	131	64	18732	D	49.62	085.44	50	FFFF	NO		CCCL	LLLL	05.75 S	106.69 E	290079	732
2134402034	10/08/78	131	65	18732	D	49.26	083.82	60	FFFF	NO		CCCL	LLLL	07.20 S	106.35 E	290079	733
2134405113	10/08/78	167	20	18734	D	28.12	151.47	90	FFFF	NO		CCCL	LLLL	57.03 N	074.90 E	290079	734
2134405115	10/08/78	167	21	18734	D	29.13	150.27	80	FFFF	NO		CCCL	LLLL	55.64 N	074.05 E	290079	735
2134405122	10/08/78	167	22	18734	D	30.13	149.11	90	2EFE	NO		CCCL	LLLL	54.25 N	073.25 E	290079	736
2134405124	10/08/78	167	23	18734	D	31.11	147.96	80	2EFE	NO		CCCL	LLLL	52.86 N	072.50 E	290079	737
2134405131	10/08/78	167	24	18734	D	32.09	146.82	90	2FFE	NO		CCCL	LLLL	51.46 N	071.79 E	290079	738
2134405133	10/08/78	167	25	18734	D	33.05	145.68	100	2FFE	NO		CCCL	LLLL	50.06 N	071.12 E	290079	739
2134405140	10/08/78	167	26	18734	D	34.00	144.55	90	FFFF	NO		CCCL	LLLL	48.65 N	070.47 E	290079	740
2134406551	10/08/78	185	21	18735	D	29.09	150.31	NA	E222	NO		CCCL	LLLL	55.65 N	048.21 E	290079	782
2134406553	10/08/78	185	22	18735	D	30.09	149.15	80	EEEE	NO		CCCL	LLLL	54.27 N	047.41 E	290079	783
2134406560	10/08/78	185	23	18735	D	31.08	148.00	70	EEEE	NO		CCCL	LLLL	52.87 N	046.66 E	290079	784
2134406562	10/08/78	185	24	18735	D	32.06	146.85	80	EEEE	NO		CCCL	LLLL	51.47 N	045.95 E	290079	785
2134414011	10/08/78	6	52	18739	D	50.58	107.12	40	EEEE	NO		CCCL	LLLL	11.53 N	069.94 W	290079	786
2134414013	10/08/78	6	53	18739	D	50.76	105.29	NA	MMMM	NO		CCCL	LLLL	10.09 N	070.28 W		0
2134414020	10/07/78	6	54	18739	D	50.89	103.45	NA	MMMM	NO		CCCL	LLLL	08.65 N	070.62 W		0
2134414022	10/07/78	6	55	18739	D	50.97	101.62	50	2EFE	NO		CCCL	LLLL	07.20 N	070.96 W	290079	687
2134415343	10/08/78	24	28	18740	D	35.72	142.39	50	EEEE	NO		CCCL	LLLL	45.84 N	085.61 W	290079	787
2134415345	10/08/78	24	29	18740	D	36.63	141.23	70	EEEE	NO		CCCL	LLLL	44.42 N	086.18 W	290079	788
2134415352	10/08/78	24	30	18740	D	37.53	140.05	90	EEEE	NO		CCCL	LLLL	43.01 N	086.73 W	290079	789
2134415354	10/08/78	24	31	18740	D	38.41	138.86	50	EEEE	NO		CCCL	LLLL	41.59 N	087.25 W	290079	790
2134415361	10/08/78	24	32	18740	D	39.26	137.66	10	EEEE	NO		CCCL	LLLL	40.17 N	087.75 W	290079	791
2134415363	10/08/78	24	33	18740	D	40.10	136.43	0	EEEE	NO		CCCL	LLLL	38.75 N	088.25 W	290079	792
2134415370	10/08/78	24	34	18740	D	40.92	135.16	10	EEEE	NO		CCCL	LLLL	37.33 N	088.72 W	290079	793
2134415372	10/08/78	24	35	18740	D	41.71	133.88	30	EEEE	NO		CCCL	LLLL	35.90 N	089.18 W	290079	794
2134415375	10/08/78	24	36	18740	D	42.48	132.57	90	EEEE	NO		CCCL	LLLL	34.48 N	089.64 W	290079	795
2134415381	10/08/78	24	37	18740	D	43.23	131.22	100	EEEE	NO		CCCL	LLLL	33.05 N	090.07 W	290079	796
2134415384	10/08/78	24	38	18740	D	43.95	129.84	90	EEEE	NO		CCCL	LLLL	31.62 N	090.50 W	290079	797
2134415390	10/08/78	24	39	18740	D	44.64	128.43	NA	MMMM	NO		CCCL	LLLL	30.19 N	090.91 W		0
2134417154	10/08/78	42	23	18741	D	30.93	148.10	20	EEEE	NO		CCCL	LLLL	52.89 N	108.25 W	290079	741
2134417160	10/08/78	42	24	18741	D	31.91	146.97	40	EEEE	NO		CCCL	LLLL	51.48 N	108.95 W	290079	742
2134417163	10/08/78	42	25	18741	D	32.88	145.83	30	EEEE	NO		CCCL	LLLL	50.08 N	109.61 W	290079	743
2134417165	10/08/78	42	26	18741	D	33.83	144.70	40	EEEE	NO		CCCL	LLLL	48.67 N	110.25 W	290079	744
2134417172	10/08/78	42	27	18741	D	34.77	143.56	50	EEEE	NO		CCCL	LLLL	47.25 N	110.86 W	290079	745
2134417174	10/08/78	42	28	18741	D	35.70	142.42	20	EEEE	NO		CCCL	LLLL	45.84 N	111.44 W	290079	746
2134417181	10/08/78	42	29	18741	D	36.61	141.26	30	EEEE	NO		CCCL	LLLL	44.43 N	112.01 W	290079	747
2134417183	10/08/78	42	30	18741	D	37.51	140.08	10	EEEE	NO		CCCL	LLLL	43.01 N	112.55 W	290079	748
2134417190	10/08/78	42	31	18741	D	38.38	138.89	0	EEEE	NO		CCCL	LLLL	41.60 N	113.08 W	290079	749
2134417192	10/08/78	42	32	18741	D	39.24	137.69	0	EEEE	NO		CCCL	LLLL	40.17 N	113.57 W	290079	750
2134417195	10/08/78	42	33	18741	D	40.07	136.46	10	EEEE	NO		CCCL	LLLL	38.75 N	114.05 W	290079	751

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STANDARD CAT/LOG
LANDSAT 2 MSS SENSOR
FROM 10/01/73 TO 10/31/78

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2134417201	10/08/78	42	34	18741	D	40.89	135.21	20	EEEE	NO		CCCL	LLLL	37.33 N	114.53 W	290079	752
2134417204	10/08/78	42	35	18741	D	41.69	133.91	20	EEEE	NO		CCCL	LLLL	35.91 N	115.01 W	290079	753
2134417210	10/08/78	42	36	18741	D	42.47	132.59	10	EEEE	NO		CCCL	LLLL	34.48 N	115.45 W	290079	754
2134417213	10/08/78	42	37	18741	D	43.21	131.25	10	EEEE	NO		CCCL	LLLL	33.05 N	115.89 W	290079	755
2134417215	10/08/78	42	38	18741	D	43.94	129.87	10	EEEE	NO		CCCL	LLLL	31.62 N	116.31 W	290079	756
2134420365	10/08/78	78	10	18743	S	17.37	167.09	90	FEFE	NO		CCCL	LLLL	70.43 N	143.89 W	290079	794
2134420371	10/08/78	78	11	18743	S	18.45	165.00	70	PEEE	NO		CCCL	LLLL	69.14 N	145.91 W	290079	799
2134420374	10/08/78	78	12	18743	S	19.52	163.07	20	PEEE	NO		CCCL	LLLL	67.84 N	147.71 W	290079	800
2134420380	10/08/78	78	13	18743	D	20.60	161.30	30	PEEE	NO		CCCL	LLLL	66.53 N	149.34 W	290079	801
2134420383	10/08/78	78	14	18743	D	21.67	159.67	20	FEFE	NO		CCCL	LLLL	65.20 N	150.81 W	290079	802
2134420385	10/08/78	78	15	18743	D	22.72	158.15	60	MEFM	NO		CCCL	LLLL	63.86 N	152.15 W	290079	803
2134501545	10/07/78	132	30	18746	D	37.40	140.20	0	FEFE	NO		CCCL	LLLL	43.01 N	118.35 E	290079	686
2134501552	10/07/78	132	31	18746	D	38.28	139.02	10	FEFE	NO		CCCL	LLLL	41.59 N	117.82 E	290079	689
2134501554	10/07/78	132	32	18746	D	39.14	137.82	10	FEFE	NO		CCCL	LLLL	40.17 N	117.31 E	290079	690
2134501561	10/07/78	132	33	18746	D	39.98	136.59	20	FEFE	NO		CCCL	LLLL	38.75 N	116.82 E	290079	691
2134501563	10/07/78	132	34	18746	D	40.80	135.34	10	FEFE	NO		CCCL	LLLL	37.33 N	116.35 E	290079	692
2134501570	10/07/78	132	35	18746	D	41.59	134.06	0	FEFE	NO		CCCL	LLLL	35.90 N	115.89 E	290079	693
2134501572	10/07/78	132	36	18746	D	42.37	132.76	10	FEFE	NO		CCCL	LLLL	34.48 N	115.45 E	290079	694
2134501575	10/07/78	132	37	18746	D	43.13	131.41	50	FEFE	NO		CCCL	LLLL	33.05 N	115.02 E	290079	695
2134501581	10/07/78	132	38	18746	D	43.86	130.02	20	FEFE	NO		CCCL	LLLL	31.62 N	114.59 E	290079	696
2134501584	10/07/78	132	39	18746	D	44.56	128.61	10	FEFE	NO		CCCL	LLLL	30.19 N	114.17 E	290079	697
2134501590	10/07/78	132	40	18746	D	45.23	127.18	30	PFEE	NO		CCCL	LLLL	28.76 N	113.77 E	290079	698
2134502004	10/07/78	132	44	18746	D	47.58	121.11	10	PFEE	NO		CCCL	LLLL	23.03 N	112.19 E	290079	699
2134502011	10/07/78	132	45	18746	D	48.09	119.50	10	FEFE	NO		CCCL	LLLL	21.59 N	111.81 E	290079	700
2134517212	10/22/78	43	23	18755	D	30.60	148.34	70	EEEE	NO		CCCL	LLLL	52.87 N	109.64 W	290080	171
2134517215	10/22/78	43	24	18755	D	31.59	147.21	40	EEEE	NO		CCCL	LLLL	51.47 N	110.35 W	290080	172
2134517221	10/22/78	43	25	18755	D	32.56	146.09	50	EEEE	NO		CCCL	LLLL	50.07 N	111.03 W	290080	173
2134517224	10/22/78	43	26	18755	D	33.52	144.97	90	EFEE	NO		CCCL	LLLL	48.66 N	111.67 W	290080	174
2134517230	10/22/78	43	27	18755	D	34.46	143.85	NA	MMMM	NO		CCCL	LLLL	47.25 N	112.28 W	0	0
2134517233	10/22/78	43	28	18755	D	35.39	142.72	90	FFFF	NO		CCCL	LLLL	45.84 N	112.87 W	290080	175
2134602033	10/22/78	133	37	18760	D	42.88	131.85	0	EEEE	NO		CCCL	LLLL	33.05 N	113.57 E	290080	176
2134602040	10/22/78	133	38	18760	D	43.61	130.50	0	FEFE	NO		CCCL	LLLL	31.62 N	113.15 E	290080	177
2134602042	10/22/78	133	39	18760	D	44.32	129.12	0	EEEE	NO		CCCL	LLLL	30.19 N	112.73 E	290080	178
2134602045	10/22/78	133	40	18760	D	45.00	127.69	0	EEEE	NO		CCCL	LLLL	28.76 N	112.32 E	290080	179
2134605230	10/08/78	169	20	18762	D	27.41	151.90	90	FEFE	NO		CCCL	LLLL	57.03 N	072.02 E	290079	804
2134605233	10/08/78	169	21	18762	D	28.43	150.75	80	FEFE	NO		CCCL	LLLL	55.64 N	071.17 E	290079	805
2134605235	10/08/78	169	22	18762	D	29.43	149.60	50	FEFE	NO		CCCL	LLLL	54.26 N	070.37 E	290079	806
2134605242	10/08/78	169	23	18762	D	30.42	148.47	60	FEFE	NO		CCCL	LLLL	52.87 N	069.61 E	290079	807
2134605244	10/08/78	169	24	18762	D	31.40	147.36	20	FEFE	NO		CCCL	LLLL	51.47 N	068.90 E	290079	808
2134605251	10/08/78	169	25	18762	D	32.38	146.25	20	FEFE	NO		CCCL	LLLL	50.06 N	068.23 E	290079	809

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ARCHIVAL IMAGE REPORT - ARCHIM
STANDARD CATALOG
LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	X CLD COVER	QUALITY 4567	CCM	CCM QTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM. FRAME
2134607055	10/08/78	187	19	18763	D	26.36	153.13	90	FEFE	NO							
2134607062	10/08/78	187	20	18763	D	27.38	151.93	100	FFPE	NO				58.41 N	047.11 E	290079	510
2134607064	10/08/78	187	21	18763	D	28.40	150.76	100	FFPE	NO				57.03 N	046.20 E	290080	13
2134607244	10/08/78	187	64	18763	D	49.93	066.71	10	FFFE	NO				55.65 N	045.35 E	290080	14
2134607250	10/08/78	187	65	18763	D	49.60	085.06	20	FFFE	NO				05.75 S	026.37 E	290080	15
2134609011	10/08/78	205	48	18764	D	49.25	115.25	0	2F2E	NO				07.20 S	026.04 E	290080	16
2134609014	10/08/78	205	49	18764	D	49.63	113.51	0	2FPE	NO				17.28 N	006.04 E	290080	17
2134609020	10/08/78	205	50	18764	D	49.96	111.76	0	2FPE	NO				15.84 N	005.68 E	290080	18
2134609023	10/08/78	205	51	18764	D	50.25	110.00	20	2FPE	NO				14.40 N	005.33 E	290080	19
2134612490	10/08/78	241	99	18766	D	22.09	059.05	90	2FPE	NO				12.96 N	004.98 E	290080	20
2134615453	10/08/78	26	27	18768	D	34.15	144.13	100	FFFF	NO				55.61 S	067.36 W	290080	21
2134615460	10/08/78	26	28	18768	D	35.09	143.01	90	EEFE	NO				47.25 N	087.89 W	290079	757
2134615462	10/08/78	26	29	18768	D	36.01	141.88	90	EEFE	NO				45.84 N	088.48 W	290079	758
2134615465	10/08/78	26	30	18768	D	36.92	140.75	60	EEEE	NO				44.42 N	089.05 W	290079	759
2134615471	10/08/78	26	31	18768	D	37.81	139.57	20	EEEE	NO				43.01 N	089.58 W	290079	760
2134615474	10/08/78	26	32	18768	D	38.69	138.38	20	EEEE	NO				41.59 N	090.11 W	290079	761
2134615480	10/08/78	26	33	18768	D	39.54	137.18	10	EEEE	NO				40.17 N	090.61 W	290079	762
2134615483	10/08/78	26	34	18768	D	40.37	135.95	10	EEEE	NO				38.75 N	091.10 W	290079	763
2134615485	10/08/78	26	35	18768	D	41.19	134.69	10	EEEE	NO				37.33 N	091.58 W	290079	764
2134615492	10/08/78	26	36	18768	D	41.98	133.40	10	EEEE	NO				35.90 N	092.05 W	290079	765
2134615494	10/08/78	26	37	18768	D	42.74	132.09	60	EEEE	NO				34.48 N	092.50 W	290079	766
2134615501	10/08/78	26	38	18768	D	43.47	130.76	40	EEEE	NO				33.05 N	092.94 W	290079	767
2134615503	10/08/78	26	39	18768	D	44.19	129.38	NA	2222	NO				31.62 N	093.36 W	290079	768
2134700231	10/08/78	116	30	18773	D	36.82	140.84	20	2FPE	NO				30.19 N	093.78 W	0	0
2134702092	10/08/78	134	37	18774	D	42.63	132.28	0	FFFE	NO				43.01 N	141.29 E	290080	22
2134702095	10/08/78	134	38	18774	D	43.38	130.94	0	FFFE	NO				33.05 N	112.15 E	290080	23
2134702101	10/08/78	134	39	18774	D	44.10	129.56	0	FFFE	NO				31.62 N	111.73 E	290080	24
2134705380	10/08/78	170	42	18776	D	46.05	125.32	10	FEFE	NO				30.19 N	111.31 E	290080	25
2134705382	10/08/78	170	43	18776	D	46.65	123.81	10	FEFE	NO				25.90 N	058.45 E	290079	811
2134709070	10/15/78	206	48	18778	D	49.14	115.82	10	FEFE	NO				24.46 N	058.06 E	290079	812
2134709073	10/15/78	206	49	18778	D	49.52	114.11	10	EEEE	NO				17.28 N	004.59 E	290080	206
2134709075	10/15/78	206	50	18778	D	49.87	112.38	20	EEEE	NO				15.84 N	004.23 E	290080	207
2134709082	10/15/78	206	51	18778	D	50.18	110.63	10	EEEE	NO				14.40 N	003.88 E	290080	208
2134712495	10/15/78	242	87	18780	D	34.56	061.45	50	FEFE	NO				12.96 N	003.54 E	290080	209
2134712501	10/15/78	242	88	18780	D	33.62	060.95	NA	2222	NO				38.74 S	061.37 W	290080	210
2134712504	10/15/78	242	89	18780	D	32.66	060.51	80	EEEE	NO				40.16 S	061.85 W	0	0
2134712510	10/15/78	242	90	18780	D	31.69	060.11	80	EEEE	NO				41.58 S	062.36 W	290080	211
2134717330	10/15/78	45	23	18783	D	29.90	148.85	100	FFFF	NO				42.99 S	062.88 W	290080	212
2134717332	10/15/78	45	24	18783	D	30.90	147.75	NA	2222	NO				52.88 N	112.53 W	290080	213
2134717341	10/15/78	45	26	18783	D	32.85	145.55	NA	2222	NO				51.48 N	113.25 W	0	0
														48.67 N	114.56 W	0	0

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2134717344	10/15/78	45	27	18783	D	33.81	144.45	60	EEEE	NO							
2134717350	10/15/78	45	28	18783	D	34.75	143.34	50	EEEE	NO	CCCL	LLLL	47.26 N	115.17 W	290080	214	
2134717353	10/15/78	45	29	18783	D	35.68	142.22	30	EEEE	NO	CCCL	LLLL	45.85 N	115.76 W	290080	215	
2134717355	10/15/78	45	30	18783	D	36.60	141.09	20	EEEE	NO	CCCL	LLLL	44.44 N	116.33 W	290080	216	
2134717362	10/15/78	45	31	18783	D	37.50	139.93	20	EEEE	NO	CCCL	LLLL	43.02 N	116.87 W	290080	217	
2134717364	10/15/78	45	32	18783	D	38.38	138.76	10	EEEE	NO	CCCL	LLLL	41.60 N	117.39 W	290080	218	
2134717371	10/15/78	45	33	18783	D	39.24	137.57	0	EEEE	NO	CCCL	LLLL	40.18 N	117.91 W	290080	219	
2134717373	10/15/78	45	34	18783	D	40.08	136.36	0	EEEE	NO	CCCL	LLLL	38.76 N	118.40 W	290080	220	
2134717380	10/15/78	45	35	18783	D	40.90	135.12	0	EEEE	NO	CCCL	LLLL	37.34 N	118.87 W	290080	221	
2134717382	10/15/78	45	36	18783	D	41.70	133.85	30	EFEF	NO	CCCL	LLLL	35.91 N	119.32 W	290080	222	
2134717385	10/15/78	45	37	18783	D	42.48	132.55	70	EFEF	NO	CCCL	LLLL	34.48 N	119.77 W	290080	223	
2134720552	10/29/78	81	13	18785	S	19.47	161.76	0	PPPP	NO	CCCL	LLLL	33.06 N	120.20 W	290080	224	
2134720555	10/29/78	81	14	18785	D	20.55	160.15	0	EEEE	NO	CCCL	LLLL	66.56 N	153.66 W	290080	425	
2134720561	10/29/78	81	15	18785	D	21.62	158.65	10	EEEE	NO	CCCL	LLLL	65.22 N	155.14 W	290080	426	
2134720564	10/29/78	81	16	18785	D	22.66	157.25	10	EEEE	NO	CCCL	LLLL	63.88 N	156.47 W	290080	427	
2134720570	10/29/78	81	17	18785	D	23.73	155.92	0	EEEE	NO	CCCL	LLLL	62.52 N	157.69 W	290080	428	
2134720573	10/29/78	81	18	18785	D	24.78	154.64	10	EEEE	NO	CCCL	LLLL	61.16 N	158.81 W	290080	429	
2134720575	10/29/78	81	19	18785	D	25.82	153.42	40	EEEE	NO	CCCL	LLLL	59.79 N	159.85 W	290080	430	
2134720582	10/29/78	81	20	18785	D	26.85	152.25	NA	2222	NO	CCCL	LLLL	58.41 N	160.82 W	290080	431	
21347223060	10/15/78	99	79	18786	D	41.67	167.50	0	EEFE	NO	CCCL	LLLL	57.03 N	161.71 W	0	0	
21347223083	10/15/78	99	85	18786	D	36.55	162.72	0	EEFE	NO	CCCL	LLLL	27.32 S	147.21 E	290080	225	
2134800474	10/15/78	117	75	18787	D	44.65	171.78	0	EEEE	NO	CCCL	LLLL	35.89 S	144.64 E	290080	226	
2134800481	10/15/78	117	76	18787	D	43.94	170.63	0	EEEE	NO	CCCL	LLLL	21.59 S	122.92 E	290080	227	
2134805441	10/21/78	171	43	18790	D	46.47	124.33	0	EEEE	NO	CCCL	LLLL	23.02 S	122.54 E	290080	228	
2134807170	10/21/78	189	18	18791	D	24.61	154.75	90	EEEM	NO	CCCL	LLLL	24.46 N	056.64 E	290080	126	
2134807173	10/21/78	189	19	18791	D	25.65	153.52	100	EEEE	NO	CCCL	LLLL	50.77 N	045.23 E	290080	127	
2134809313	10/21/78	207	93	18792	D	29.02	159.41	100	EEEE	NO	CCCL	LLLL	58.40 N	044.26 E	290080	128	
2134814260	10/21/78	10	56	18795	D	51.05	102.36	70	EEEE	NO	CCCL	LLLL	47.23 S	014.39 W	290080	129	
2134814262	10/21/78	10	57	18795	D	51.11	100.53	80	EEEE	NO	CCCL	LLLL	05.76 N	077.03 W	290080	130	
2134814265	10/21/78	10	58	18795	D	51.12	098.70	80	EEEE	NO	CCCL	LLLL	04.32 N	077.37 W	290080	131	
2134814271	10/21/78	10	59	18795	D	51.08	096.88	80	EEEE	NO	CCCL	LLLL	02.88 N	077.71 W	290080	132	
2134815564	10/29/78	28	26	18796	D	32.56	145.78	40	EEEE	NO	CCCL	LLLL	01.44 N	078.04 W	290080	133	
2134815571	10/29/78	28	27	18796	D	33.52	144.70	30	EEEE	NO	CCCL	LLLL	48.66 N	090.15 W	290080	146	
2134815573	10/29/78	28	28	18796	D	34.47	143.60	20	EEEE	NO	CCCL	LLLL	47.25 N	090.76 W	290080	147	
2134815580	10/29/78	28	29	18796	D	35.40	142.50	10	EEEE	NO	CCCL	LLLL	45.83 N	091.34 W	290080	148	
2134815582	10/29/78	28	30	18796	D	36.32	141.38	10	EEEE	NO	CCCL	LLLL	44.42 N	091.91 W	290080	149	
2134815585	10/29/78	28	31	18796	D	37.21	140.25	0	EEEE	NO	CCCL	LLLL	43.01 N	092.46 W	290080	150	
2134815591	10/29/78	28	32	18796	D	38.09	139.11	0	EEEE	NO	CCCL	LLLL	41.59 N	093.00 W	290080	151	
2134815594	10/29/78	28	33	18796	D	38.96	137.93	0	EEEE	NO	CCCL	LLLL	40.17 N	093.50 W	290080	152	
2134816006	10/29/78	28	34	18796	D	39.81	136.73	0	EEEE	NO	CCCL	LLLL	38.75 N	093.98 W	290080	153	
											CCCL	LLLL	37.33 N	094.46 W	290080	154	

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2134816003	10/29/78	29	35	18796	D	40.64	135.50	10	EEEE	NO		CCCL	LLLL	35.91 N	094.92 W		
2134816005	10/29/78	28	36	18796	D	41.45	134.25	0	EEEE	NO		CCCL	LLLL	34.48 N	095.37 W	290080	155
2134816012	10/29/78	28	37	18796	D	42.23	132.96	0	EEEE	NO		CCCL	LLLL	33.05 N	095.81 W	290080	156
2134816014	10/29/78	29	38	18796	D	42.99	131.64	0	EEEE	NO		CCCL	LLLL	31.62 N	096.23 W	290080	157
2134816021	10/29/78	28	39	18796	D	43.73	130.29	0	EEEE	NO		CCCL	LLLL	30.19 N	096.65 W	290080	158
2134816023	10/29/78	28	40	18796	D	44.43	128.91	10	EEEE	NO		CCCL	LLLL	28.76 N	097.05 W	290080	159
2134816030	10/29/78	28	41	18796	D	45.11	127.50	20	EEEE	NO		CCCL	LLLL	27.33 N	097.45 W	290080	160
2134816032	10/29/78	28	42	18796	D	45.77	126.03	30	EEEE	NO		CCCL	LLLL	25.89 N	097.84 W	290080	161
2134817382	10/29/78	46	22	18797	D	28.57	150.17	NA	2222	NO		CCCL	LLLL	54.27 N	113.20 W	290080	162
2134817391	10/29/78	46	24	18797	D	30.57	147.98	NA	2222	NO		CCCL	LLLL	51.47 N	114.66 W		
2134817403	10/21/78	46	27	18797	D	33.49	144.72	40	EEEE	NO		CCCL	LLLL	47.25 N	116.59 W		
2134821004	10/29/78	82	12	18799	S	17.99	163.67	30	EEEE	NO		CCCL	LLLL	67.86 N	153.46 W	290080	134
2134821011	10/29/78	82	13	18799	S	19.08	161.93	0	EEFE	NO		CCCL	LLLL	66.55 N	155.09 W	290080	163
2134821013	10/29/78	82	14	18799	D	20.16	160.32	0	EEEE	NO		CCCL	LLLL	65.21 N	156.56 W	290080	164
2134821020	10/29/78	82	15	18799	D	21.24	158.83	0	EEEE	NO		CCCL	LLLL	63.86 N	157.90 W	290080	165
2134821022	10/29/78	82	16	18799	D	22.30	157.44	0	EEFE	NO		CCCL	LLLL	62.51 N	159.12 W	290080	166
2134821025	10/29/78	82	17	18799	D	23.35	156.12	0	EEEE	NO		CCCL	LLLL	61.16 N	160.25 W	290080	167
2134821031	10/29/78	82	18	18799	D	24.40	154.86	0	EEEE	NO		CCCL	LLLL	59.79 N	161.29 W	290080	168
2134821034	10/29/78	82	19	18799	D	25.44	153.64	10	EEFE	NO		CCCL	LLLL	58.41 N	162.26 W	290080	169
2134823142	10/21/78	100	85	18800	D	36.88	163.00	40	EEEE	NO		CCCL	LLLL	35.89 S	143.22 E	290080	770
2134900533	10/21/78	118	75	18801	D	44.91	072.21	0	EEFE	NO		CCCL	LLLL	21.58 S	121.47 E	290080	135
2134916032	10/22/78	29	28	18810	D	34.14	143.90	60	EEEE	NO		CCCL	LLLL	45.85 N	092.81 W	290080	136
2134916035	10/22/78	29	29	18810	D	35.08	142.82	70	EEEE	NO		CCCL	LLLL	44.43 N	093.37 W	290080	180
2134916041	10/22/78	29	30	18810	D	36.00	141.72	90	EEEE	NO		CCCL	LLLL	43.02 N	093.91 W	290080	181
2134916044	10/22/78	29	31	18810	D	36.91	140.50	80	EEFE	NO		CCCL	LLLL	41.60 N	094.43 W	290080	182
2134916050	10/22/78	29	32	18810	D	37.80	139.45	50	EEEE	NO		CCCL	LLLL	40.18 N	094.94 W	290080	183
2134916053	10/22/78	29	33	18810	D	38.68	138.29	10	EEEE	NO		CCCL	LLLL	38.76 N	095.43 W	290080	184
2134916055	10/22/78	29	34	18810	D	39.54	137.10	10	EEEE	NO		CCCL	LLLL	37.33 N	095.90 W	290080	185
2134916062	10/22/78	29	35	18810	D	40.37	135.89	10	EEEE	NO		CCCL	LLLL	35.91 N	096.37 W	290080	186
2134921054	10/15/78	83	10	18813	S	15.45	167.75	90	EEEE	NO		CCCL	LLLL	70.43 N	151.05 W	290080	187
2134921061	10/15/78	83	11	18813	S	16.54	165.66	90	EEEE	NO		CCCL	LLLL	69.14 N	153.08 W	290080	229
2134921063	10/15/78	83	12	18813	S	17.64	163.77	10	EEEE	NO		CCCL	LLLL	67.84 N	154.88 W	290080	230
2134921070	10/15/78	83	13	18813	S	18.73	162.04	0	EEFE	NO		CCCL	LLLL	66.51 N	156.50 W	290080	231
2134921072	10/15/78	83	14	18813	S	19.81	160.44	0	EEFE	NO		CCCL	LLLL	65.17 N	157.95 W	290080	232
2134921075	10/15/78	83	15	18813	D	20.89	158.96	0	EEFE	NO		CCCL	LLLL	63.83 N	159.28 W	290080	233
2134921081	10/15/78	83	16	18813	D	21.96	157.57	NA	MMMM	NO		CCCL	LLLL	62.47 N	160.50 W	290080	234
2134921084	10/15/78	83	17	18813	D	23.02	156.20	NA	MMMM	NO		CCCL	LLLL	61.11 N	161.63 W		
2134921090	10/15/78	83	18	18813	D	24.06	155.02	0	EEEE	NO		CCCL	LLLL	59.76 N	162.68 W	290080	235
2134921093	10/15/78	83	19	18813	D	25.09	153.83	10	EEEE	NO		CCCL	LLLL	58.40 N	163.67 W	290080	236
2134921095	10/15/78	83	20	18813	D	26.13	152.67	50	EEEE	NO		CCCL	LLLL	57.02 N	164.59 W	290080	237

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2134921101	10/15/78	83	21	18813	D	27.15	151.54	80	EEEE	NO				CCCL LLLL	55.64 N 165.44 W	290080	238
2134921104	10/15/78	83	22	18813	D	28.17	150.43	60	EEEE	NO				CCCL LLLL	54.25 N 166.23 W	290080	239
2134921110	10/15/78	83	23	18813	D	29.19	149.34	NA	2222	NO				CCCL LLLL	52.86 N 166.98 W	0	0
2135009424	10/22/78	209	92	18820	D	30.75	060.02	90	EEEE	NO				CCCL LLLL	45.81 S 016.68 W	290080	292
2135009430	10/22/78	209	93	18820	D	29.76	059.76	90	EEEE	NO				CCCL LLLL	47.22 S 017.27 W	290080	293
2135012541	10/22/78	245	56	18822	D	51.04	103.56	40	EEEE	NO				CCCL HHLL	05.76 N 054.07 W	290080	294
2135014252	10/29/78	12	27	18823	D	32.89	145.25	70	EEEE	NO				CCCL LLLL	47.25 N 067.81 W	290080	432
2135014255	10/29/78	12	28	18823	D	33.85	144.17	60	EEEE	NO				CCCL LLLL	45.84 N 068.40 W	290080	433
2135014261	10/29/78	12	29	18823	D	34.79	143.09	60	EEEE	NO				CCCL LLLL	44.43 N 068.97 W	290080	434
2135014264	10/29/78	12	30	18823	D	35.73	142.00	90	EEEE	NO				CCCL LLLL	43.02 N 069.53 W	290080	435
2135014270	10/29/78	12	31	18823	D	36.64	140.88	NA	2222	NO				CCCL LLLL	41.60 N 070.06 W	0	0
2135014275	10/29/78	12	33	18823	D	38.41	138.62	NA	2222	NO				CCCL LLLL	38.76 N 071.06 W	0	0
2135016082	10/22/78	30	26	18824	D	31.89	146.33	50	EEEE	NO				CCCL LLLL	48.66 N 093.03 W	290080	188
2135016084	10/22/78	30	27	18824	D	32.86	145.27	50	EEEE	NO				CCCL LLLL	47.25 N 093.64 W	290080	189
2135016091	10/22/78	30	28	18824	D	33.82	144.20	60	EEEE	NO				CCCL LLLL	45.84 N 094.73 W	290080	190
2135016093	10/22/78	30	29	18824	D	34.77	143.12	90	EEEE	NO				CCCL LLLL	44.43 N 094.80 W	290080	191
2135016100	10/22/78	30	30	18824	D	35.69	142.03	80	EEEE	NO				CCCL LLLL	43.01 N 095.33 W	290080	192
2135016102	10/22/78	30	31	18824	D	36.61	140.92	70	EEEE	NO				CCCL LLLL	41.59 N 095.86 W	290080	193
2135016105	10/22/78	30	32	18824	D	37.51	139.79	10	EEEE	NO				CCCL LLLL	40.18 N 096.37 W	290080	194
2135016111	10/22/78	30	33	18824	D	38.39	138.64	0	EEEE	NO				CCCL LLLL	38.75 N 096.86 W	290080	195
2135016113	10/22/78	30	34	18824	D	39.25	137.47	10	EEEE	NO				CCCL LLLL	37.33 N 097.34 W	290080	196
2135016120	10/22/78	30	35	18824	D	40.10	136.28	30	EEEE	NO				CCCL LLLL	35.91 N 097.80 W	290080	197
2135016122	10/22/78	30	36	18824	D	40.92	135.05	30	EEEE	NO				CCCL LLLL	34.48 N 098.25 W	290080	198
2135016125	10/22/78	30	37	18824	D	41.72	133.80	40	EEEE	NO				CCCL LLLL	33.05 N 098.68 W	290080	199
2135016131	10/22/78	30	38	18824	D	42.50	132.51	20	EEEE	NO				CCCL LLLL	31.62 N 099.10 W	290080	200
2135016134	10/22/78	30	39	18824	D	43.26	131.18	50	EEEE	NO				CCCL LLLL	30.19 N 099.51 W	290080	201
2135016140	10/22/78	30	40	18824	D	43.99	129.83	70	EEEE	NO				CCCL LLLL	28.76 N 099.91 W	290080	202
2135016143	10/22/78	30	41	18824	D	44.69	128.45	60	EEEE	NO				CCCL LLLL	27.33 N 100.31 W	290080	203
2135021113	10/15/78	84	10	18827	S	15.04	167.91	100	EEEE	NO				CCCL LLLL	70.48 N 152.52 W	290080	240
2135021115	10/15/78	84	11	18827	S	16.14	165.84	90	EEEE	NO				CCCL LLLL	69.18 N 154.54 W	290080	241
2135021122	10/15/78	84	12	18827	S	17.22	163.96	10	EEEE	NO				CCCL LLLL	67.88 N 156.34 W	290080	242
2135021124	10/15/78	84	13	18827	S	18.32	162.23	NA	MMMM	NO				CCCL LLLL	66.57 N 157.98 W	0	0
2135021131	10/15/78	84	14	18827	S	19.40	160.65	NA	MMMM	NO				CCCL LLLL	65.24 N 159.45 W	0	0
2135021133	10/15/78	84	15	18827	D	20.48	159.17	0	EEEE	NO				CCCL LLLL	63.89 N 160.79 W	290080	243
2135021135	10/15/78	84	16	18827	D	21.55	157.79	0	EEEE	NO				CCCL LLLL	62.55 N 162.01 W	290080	244
2135021142	10/15/78	84	17	18827	D	22.62	156.47	0	EEEE	NO				CCCL LLLL	61.18 N 163.15 W	290080	245
2135021145	10/15/78	84	18	18827	D	23.68	155.22	10	EEEE	NO				CCCL LLLL	59.81 N 164.19 W	290080	246
2135021151	10/15/78	84	19	18827	D	24.74	154.02	70	EEEE	NO				CCCL LLLL	58.43 N 165.15 W	290080	247
2135021154	10/15/78	84	20	18827	D	25.79	152.86	90	EEEE	NO				CCCL LLLL	57.04 N 166.05 W	290080	248
2135021160	10/15/78	84	21	18827	D	26.82	151.75	90	EEEE	NO				CCCL LLLL	55.66 N 166.91 W	290080	249

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2135021162	10/15/78	84	22	18827	D	27.84	150.65	50	EEEE	NO		CCCL	LLLL	54.28 N	167.71 W	290080	250
2135021165	10/15/78	84	23	18827	D	28.85	149.57	60	EEEE	NO		CCCL	LLLL	52.88 N	168.46 W	290080	251
2135102393	10/22/78	138	54	18830	D	50.70	107.55	NA	MMMM	NO		CCCL	LLLL	08.64 N	100.03 E	0	0
2135102400	10/22/78	138	55	18830	D	50.89	105.75	30	EEEE	NO		CCCL	LLLL	07.20 N	099.69 E	290080	295
2135106060	10/22/78	174	54	18832	D	50.70	107.64	30	EEEE	NO		CCCL	LLLL	08.64 N	048.41 E	290080	296
2135106063	10/22/78	174	55	18832	D	50.89	105.84	50	EEEE	NO		CCCL	LLLL	07.20 N	048.07 E	290080	297
2135106065	10/22/78	174	56	18832	D	51.03	104.02	60	EEEE	NO		CCCL	LLLL	05.76 N	047.73 E	290080	298
2135112491	10/22/78	246	30	18836	D	35.45	142.28	80	EEEE	NO		CCCL	HHLL	43.01 N	045.13 W	290080	299
2135112493	10/22/78	246	31	18836	D	36.37	141.18	80	EEEE	NO		CCCL	HHLL	41.59 N	045.65 W	290080	300
2135112500	10/22/78	246	32	18836	D	37.27	140.07	70	EEEE	NO		CCCL	HHLL	40.17 N	046.15 W	290080	301
2135113000	10/22/78	246	56	18836	D	51.03	104.22	60	EEEE	NO		CCCL	HHLL	05.76 N	055.52 W	290080	302
2135116140	10/22/78	31	26	18838	D	31.57	146.59	90	EEEE	NO		CCCL	LLLL	48.66 N	094.46 W	290080	303
2135116143	10/22/78	31	27	18838	D	32.55	145.53	90	EEEE	NO		CCCL	LLLL	47.25 N	095.07 W	290080	304
2135116145	10/22/78	31	28	18838	D	33.51	144.48	90	EEEE	NO		CCCL	LLLL	45.84 N	095.66 W	290080	305
2135116152	10/22/78	31	29	18838	D	34.46	143.41	90	EEEE	NO		CCCL	LLLL	44.43 N	096.22 W	290080	306
2135116154	10/22/78	31	30	18838	D	35.39	142.33	90	EEEE	NO		CCCL	LLLL	43.01 N	096.77 W	290080	307
2135116161	10/22/78	31	31	18838	D	36.31	141.25	90	EEEE	NO		CCCL	LLLL	41.59 N	097.29 W	290080	308
2135116163	10/22/78	31	32	18838	D	37.21	140.13	80	EEEE	NO		CCCL	LLLL	40.18 N	097.80 W	290080	309
2135116170	10/22/78	31	33	18838	D	38.10	139.00	10	EEEE	NO		CCCL	LLLL	38.75 N	098.29 W	290080	310
2135116172	10/22/78	31	34	18838	D	38.97	137.84	0	EEEE	NO		CCCL	LLLL	37.33 N	098.77 W	290080	311
2135116175	10/22/78	31	35	18838	D	39.83	136.65	0	EEEE	NO		CCCL	LLLL	35.91 N	099.23 W	290080	312
2135116181	10/22/78	31	36	18838	D	40.66	135.44	10	EEEE	NO		CCCL	LLLL	34.48 N	099.67 W	290080	313
2135116184	10/22/78	31	37	18838	D	41.47	134.20	0	EEEE	NO		CCCL	LLLL	33.05 N	100.10 W	290080	314
2135116190	10/22/78	31	38	18838	D	42.26	132.91	10	EEEE	NO		CCCL	LLLL	31.62 N	100.53 W	290080	315
2135116193	10/22/78	31	39	18838	D	43.03	131.60	30	EEEE	NO		CCCL	LLLL	30.19 N	100.94 W	290080	316
2135116195	10/22/78	31	40	18838	D	43.77	130.26	40	EEEE	NO		CCCL	LLLL	28.76 N	101.34 W	290080	317
2135121171	10/29/78	85	10	18841	S	14.71	167.92	90	EEEE	NO		CCCL	LLLL	70.41 N	153.92 W	290080	436
2135121174	10/29/78	85	11	18841	S	15.81	165.67	90	EEEE	NO		CCCL	LLLL	69.13 N	155.94 W	290080	437
2135121180	10/29/78	85	12	18841	S	16.90	164.01	20	EEEE	NO		CCCL	LLLL	67.83 N	157.75 W	290080	438
2135121183	10/29/78	85	13	18841	S	17.99	162.31	0	EEEE	NO		CCCL	LLLL	66.51 N	159.36 W	290080	439
2135121185	10/29/78	85	14	18841	S	19.07	160.75	0	EEEE	NO		CCCL	LLLL	65.18 N	160.84 W	290080	440
2135121192	10/29/78	85	15	18841	D	20.14	159.28	40	EEEE	NO		CCCL	LLLL	63.86 N	162.18 W	290080	441
2135121194	10/29/78	85	16	18841	D	21.22	157.91	40	EEEE	NO		CCCL	LLLL	62.50 N	163.41 W	290080	442
2135121201	10/29/78	85	17	18841	D	22.28	156.62	30	EEEE	NO		CCCL	LLLL	61.15 N	164.54 W	290080	443
2135201111	10/22/78	121	76	18843	D	45.01	072.29	0	EEEE	NO		CCCL	LLLL	23.02 S	116.80 E	290080	318
2135201114	10/22/78	121	77	18843	D	44.33	071.14	0	EEEE	NO		CCCL	LLLL	24.45 S	116.42 E	290080	319
2135202425	10/22/78	139	48	18844	D	48.53	118.53	90	EEEE	NO		CCCL	LLLL	17.28 N	100.68 E	290080	320
2135202431	10/22/78	139	49	18844	D	48.99	116.87	90	EEEE	NO		CCCL	LLLL	15.85 N	100.32 E	290080	321
2135202434	10/22/78	139	50	18844	D	49.41	115.17	90	EEEE	NO		CCCL	LLLL	14.41 N	099.96 E	290080	322
2135202440	10/22/78	139	51	18844	D	49.78	113.46	70	EEEE	NO		CCCL	LLLL	12.97 N	099.62 E	290080	323

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2135202443	10/22/78	139	52	18844	D	50.42	111.72	80	EEEE	NO		CCCL	LLLL	11.53 N	099.28 E	290080	324
2135202445	10/22/78	139	53	18844	D	50.61	109.98	80	EEEE	NO		CCCL	LLLL	10.08 N	098.94 E	290080	325
2135202452	10/22/78	139	54	18844	D	50.65	108.20	70	EEEE	NO		CCCL	LLLL	08.64 N	098.61 E	290080	326
2135206063	10/22/78	175	41	18846	D	44.35	129.18	0	EEEF	NO		CCCL	HHLL	27.33 N	051.68 E	290080	327
2135206065	10/22/78	175	42	18846	D	45.86	127.77	0	EFEE	NO		CCCL	HHLL	25.90 N	051.28 E	290080	328
2135206072	10/22/78	175	43	18846	D	45.70	126.33	0	EEEE	NO		CCCL	HHLL	24.46 N	050.89 E	290080	329
2135206115	10/22/78	175	54	18846	D	50.65	108.28	NA	MMMM	NO		CCCL	LLLL	08.64 N	046.96 E	0	0
2135206122	10/22/78	175	55	18846	D	50.86	106.47	NA	MMMM	NO		CCCL	LLLL	07.20 N	046.62 E	0	0
2135206124	10/22/78	175	56	18846	D	51.02	104.66	NA	MMMM	NO		CCCL	LLLL	05.76 N	046.28 E	0	0
2135207544	10/29/78	193	53	18847	D	50.39	110.11	90	EEEE	NO		CCCL	LLLL	10.08 N	021.50 E	290080	457
2135214375	10/15/78	34	29	18851	D	34.17	143.66	70	EEEE	NO		CCCL	LLLL	44.42 N	071.84 W	290080	252
2135214381	10/15/78	14	30	18851	D	35.12	142.61	90	EEFE	NO		CCCL	LLLL	43.01 N	072.38 W	290080	253
2135214384	10/15/78	14	31	18851	D	36.04	141.53	90	EEEE	NO		CCCL	LLLL	41.59 N	072.90 W	290080	254
2135214390	10/15/78	14	32	18851	D	36.95	140.43	50	EEEE	NO		CCCL	LLLL	40.17 N	073.40 W	290080	255
2135214395	10/15/78	14	33	18851	D	37.84	139.30	10	EEEE	NO		CCCL	LLLL	38.75 N	073.89 W	290080	256
2135214423	10/15/78	14	41	18851	D	44.27	129.33	60	EEFE	NO		CCCL	HHLL	27.33 N	077.37 W	290080	257
2135214431	10/15/78	14	42	18851	D	44.97	127.93	40	EEEE	NO		CCCL	HHLL	25.89 N	077.76 W	290080	258
2135214434	10/15/78	14	43	18851	D	45.63	126.50	60	EEEE	NO		CCCL	HHLL	24.46 N	078.14 W	290080	259
2135216195	10/15/78	32	26	18852	D	31.22	146.87	NA	M666	NO		CCCL	LLLL	48.67 N	095.92 W	0	0
2135216201	10/15/78	32	27	18852	D	32.70	145.82	90	EEEE	NO		CCCL	LLLL	47.26 N	096.53 W	290080	269
2135216204	10/15/78	32	28	18852	D	33.17	144.78	90	EEEE	NO		CCCL	LLLL	45.85 N	097.12 W	290080	270
2135216210	10/15/78	32	29	18852	D	34.13	143.72	90	EEEF	NO		CCCL	LLLL	44.43 N	097.68 W	290080	271
2135216213	10/15/78	32	30	18852	D	35.07	142.65	90	EEEE	NO		CCCL	LLLL	43.02 N	098.22 W	290080	272
2135216215	10/15/78	32	31	18852	D	36.01	141.56	40	EEEE	NO		CCCL	LLLL	41.60 N	098.75 W	290080	273
2135216222	10/15/78	32	32	18852	D	36.92	140.46	0	EEEE	NO		CCCL	LLLL	40.18 N	099.25 W	290080	274
2135216224	10/15/78	32	33	18852	D	37.82	139.34	0	EEEE	NO		CCCL	LLLL	38.76 N	099.75 W	290080	275
2135221230	10/15/78	86	17	18855	S	14.29	168.13	90	EEEE	NO		CCCL	LLLL	70.45 N	155.37 W	290080	260
2135221232	10/15/78	86	18	18855	S	15.39	166.07	90	EEEE	NO		CCCL	LLLL	69.17 N	157.40 W	290080	261
2135221235	10/15/78	86	19	18855	S	16.48	164.21	10	EEEE	NO		CCCL	LLLL	67.87 N	159.24 W	290080	262
2135221241	10/15/78	86	20	18855	S	17.57	162.51	10	EEEF	NO		CCCL	LLLL	66.55 N	160.83 W	290080	263
2135221244	10/15/78	86	14	18855	S	18.66	160.94	10	EEEF	NO		CCCL	LLLL	65.22 N	162.30 W	290080	264
2135221250	10/15/78	86	15	18855	S	19.75	159.48	30	EEEE	NO		CCCL	LLLL	63.87 N	163.64 W	290080	265
2135221253	10/15/78	86	16	18855	D	20.82	158.11	0	EEEE	NO		CCCL	LLLL	62.52 N	164.87 W	290080	266
2135221255	10/15/78	86	17	18855	D	21.88	156.83	90	EEEE	NO		CCCL	LLLL	61.17 N	166.00 W	290080	267
2135221262	10/15/78	86	18	18855	D	22.94	155.60	90	EEEE	NO		CCCL	LLLL	59.80 N	167.04 W	290080	268
2135301170	10/29/78	122	76	18857	D	45.27	072.72	0	EEEE	NO		CCCL	LLLL	23.02 S	115.36 E	290080	458
2135301172	10/29/78	122	77	18857	D	44.59	071.54	0	EEEE	NO		CCCL	LLLL	24.46 S	115.01 E	290080	459
2135302483	10/29/78	140	48	18858	D	48.39	119.10	80	EEEE	NO		CCCL	LLLL	17.28 N	099.25 E	290080	460
2135302490	10/29/78	140	49	18858	D	48.86	117.45	90	EEEE	NO		CCCL	LLLL	15.85 N	098.88 E	290080	461
2135302492	10/29/78	140	50	18858	D	49.29	115.78	90	EEEF	NO		CCCL	LLLL	14.41 N	098.53 E	290080	462

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2135306115	10/29/78	176	40	18860	D	43.40	130.98	10	EEEE	NO		CCCL	HLLL	28.76 N	050.65 E	290080	463
2135306121	10/29/78	176	41	18860	D	44.13	129.64	0	EEEE	NO		CCCL	HLLL	27.33 N	050.25 E	290080	464
2135306124	10/29/78	176	42	18860	D	44.32	128.25	0	EEFE	NO		CCCL	HLLL	25.89 N	049.86 E	290080	465
2135314483	10/15/78	15	41	18865	D	44.05	129.79	50	EEEE	NO		CCCL	HLLL	27.33 N	078.82 W	290080	276
2135314490	10/15/78	15	42	18865	D	44.74	128.42	30	EEEE	NO		CCCL	HLLL	25.90 N	079.21 W	290080	277
2135314492	10/15/78	15	43	18865	D	45.41	127.02	50	EEEE	NO		CCCL	HLLL	24.47 N	079.60 W	290080	278
2135316254	10/15/78	33	26	18866	D	30.92	147.10	90	EEEE	NO		CCCL	LLLL	48.66 N	097.32 W	290080	279
2135316260	10/15/78	33	27	18866	D	31.90	146.07	100	EEEE	NO		CCCL	LLLL	47.25 N	097.93 W	290080	280
2135316263	10/15/78	33	28	18866	D	32.87	145.04	90	EEEE	NO		CCCL	LLLL	45.84 N	098.52 W	290080	281
2135316265	10/15/78	33	29	18866	D	33.83	144.00	80	EEEE	NO		CCCL	LLLL	44.42 N	099.08 W	290080	282
2135316272	10/15/78	33	30	18866	D	34.77	142.94	20	FFEE	NO		CCCL	LLLL	43.01 N	099.62 W	290080	283
2135316274	10/15/78	33	31	18866	D	35.71	141.87	0	EEEE	NO		CCCL	LLLL	41.59 N	100.15 W	290080	284
2135316281	10/15/78	33	32	18866	D	36.62	140.79	0	EEEE	NO		CCCL	LLLL	40.17 N	100.66 W	290080	285
2135318065	10/22/78	51	21	18867	D	25.81	152.34	20	EEEE	NO		CCCL	LLLL	55.65 N	119.56 W	290080	204
2135318085	10/22/78	51	26	18867	D	30.90	147.11	10	EEEE	NO		CCCL	LLLL	48.66 N	123.14 W	290080	205
2135321285	10/15/78	87	10	18869	S	13.92	168.21	90	EEEE	NO		CCCL	LLLL	70.44 N	156.80 W	290080	286
2135321291	10/15/78	87	11	18869	S	15.03	166.16	100	EEEE	NO		CCCL	LLLL	69.15 N	158.82 W	290080	287
2135321294	10/15/78	87	12	18869	S	16.13	164.30	70	EEEE	NO		CCCL	LLLL	67.84 N	160.61 W	290080	288
2135321300	10/15/78	87	13	18869	S	17.23	162.60	90	EEEE	NO		CCCL	LLLL	66.52 N	162.25 W	290080	289
2135321303	10/15/78	87	14	18869	S	18.33	161.03	100	EEEE	NO		CCCL	LLLL	65.18 N	163.70 W	290080	290
2135321305	10/15/78	87	15	18869	S	19.41	159.59	90	EEEE	NO		CCCL	LLLL	63.84 N	165.05 W	290080	291
2135414513	10/22/78	16	34	18879	D	38.15	138.86	10	EEEE	NO		CCCL	LLLL	37.33 N	077.25 W	290080	330
2135414515	10/22/78	16	35	18879	D	39.03	137.72	10	EEEE	NO		CCCL	LLLL	35.91 N	077.71 W	290080	331
2135414522	10/22/78	16	36	18879	D	39.88	136.56	10	EEEE	NO		CCCL	LLLL	34.48 N	078.16 W	290080	332
2135414524	10/22/78	16	37	18879	D	40.71	135.36	10	EEEE	NO		CCCL	LLLL	33.05 N	078.60 W	290080	333
2135414531	10/22/78	16	38	18879	D	41.53	134.13	20	EEEE	NO		CCCL	LLLL	31.62 N	079.03 W	290080	334
2135414533	10/22/78	16	39	18879	D	42.32	132.86	50	EEEE	NO		CCCL	LLLL	30.20 N	079.45 W	290080	335
2135414540	10/22/78	16	40	18879	D	43.08	131.57	40	EEEE	NO		CCCL	LLLL	28.77 N	079.86 W	290080	336
2135414542	10/22/78	16	41	18879	D	43.82	130.25	30	EEEF	NO		CCCL	LLLL	27.33 N	080.26 W	290080	337
2135414545	10/22/78	16	42	18879	D	44.53	128.88	30	EEEE	NO		CCCL	LLLL	25.90 N	080.65 W	290080	338
2135414551	10/22/78	16	43	18879	D	45.22	127.50	20	EEEE	NO		CCCL	LLLL	24.46 N	081.03 W	290080	339
2135504391	10/29/78	160	38	18887	D	41.38	134.36	0	EEPE	NO		CCCL	LLLL	31.62 N	074.43 E	290080	466
2135506230	10/29/78	178	39	18888	D	42.15	133.14	0	EEFE	NO		CCCL	HLLL	30.20 N	048.17 E	290080	467
2135506232	10/29/78	178	40	18888	D	42.93	131.86	0	EEFE	NO		CCCL	HLLL	28.76 N	047.76 E	290080	468
2135511474	10/29/78	232	75	18891	D	46.51	075.03	80	EEEE	NO		CCCL	HLLL	21.59 S	041.97 W	290080	469
2135511481	10/29/78	232	76	18891	D	45.88	073.75	50	FFFP	NO		CCCL	HLLL	23.03 S	042.35 W	290080	470
2135513212	10/29/78	250	52	18892	D	49.82	113.78	20	EEEE	NO		CCCL	HLLL	11.53 N	059.90 W	290080	471
2135513215	10/29/78	250	53	18892	D	50.16	112.05	30	EEFE	NO		CCCL	HLLL	10.09 N	060.25 W	290080	472
2135513221	10/29/78	250	54	18892	D	50.46	110.30	50	EEFE	NO		CCCL	HLLL	08.64 N	060.57 W	290080	473
2135513342	10/29/78	250	83	18892	D	40.73	066.45	40	FFPF	NO		CCCL	LLLL	33.04 S	071.00 W	290080	474

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LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

RESERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
135513344	10/29/78	250	84	18892	D	39.90	065.62	20	EEEE	NO		CCCL	LLLL	34.47 S	071.43 W	290080	475
135513351	10/29/78	250	85	18892	D	39.04	064.84	70	FFFF	NO		CCCL	LLLL	35.89 S	071.69 W	290080	476
135513353	10/29/78	250	86	18892	D	38.16	064.13	70	EEEE	NO		CCCL	LLLL	37.32 S	072.36 W	290080	477
135516391	10/29/78	35	31	18894	D	35.11	142.48	10	EEFE	NO		CCCL	LLLL	41.59 N	103.02 W	290080	478
135516394	10/29/78	35	32	18894	D	36.03	141.42	10	EEPE	NO		CCCL	LLLL	40.17 N	103.53 W	290080	479
135516400	10/29/78	35	33	18894	D	36.94	140.35	10	EEPE	NO		CCCL	LLLL	38.75 N	104.02 W	290080	480
135616430	10/22/78	36	26	18908	D	29.93	147.84	0	EEEE	NO		CCCL	LLLL	48.66 N	101.62 W	290080	340
135616432	10/22/78	36	27	18908	D	30.93	146.84	0	EEEE	NO		CCCL	LLLL	47.25 N	102.25 W	290080	341
135616435	10/22/78	36	28	18908	D	31.92	145.84	0	EEEE	NO		CCCL	LLLL	45.84 N	102.83 W	290080	342
135616441	10/22/78	36	29	18908	D	32.90	144.83	0	EEEE	NO		CCCL	LLLL	44.43 N	103.40 W	290080	343
135616444	10/22/78	36	30	18908	D	33.86	143.81	0	EEEE	NO		CCCL	LLLL	43.01 N	103.95 W	290080	344
135616450	10/22/78	36	31	18908	D	34.81	142.77	0	EEEE	NO		CCCL	LLLL	41.60 N	104.47 W	290080	345
135616453	10/22/78	36	32	18908	D	35.75	141.72	10	EEEE	NO		CCCL	LLLL	40.17 N	104.97 W	290080	346
135616455	10/22/78	36	33	18908	D	36.67	140.65	10	EEEE	NO		CCCL	LLLL	38.75 N	105.45 W	290080	347
135616462	10/22/78	36	34	18908	D	37.57	139.57	10	EEEE	NO		CCCL	LLLL	37.33 N	105.92 W	290080	348
135616464	10/22/78	36	35	18908	D	38.45	138.45	10	EEEE	NO		CCCL	LLLL	35.90 N	106.37 W	290080	349
135616471	10/22/78	36	36	18908	D	39.33	137.30	10	EEEE	NO		CCCL	LLLL	34.47 N	106.81 W	290080	350
135616473	10/22/78	36	37	18908	D	40.19	136.12	10	FFEE	NO		CCCL	LLLL	33.04 N	107.25 W	290080	351
135616480	10/22/78	36	38	18908	D	41.02	134.92	20	EEEE	NO		CCCL	LLLL	31.61 N	107.67 W	290080	352
135704500	10/29/78	162	36	18915	D	39.18	137.50	0	EEEE	NO		CCCL	LLLL	34.48 N	072.41 E	290080	353
135704502	10/29/78	162	37	18915	D	40.04	136.34	0	EEEE	NO		CCCL	LLLL	33.05 N	071.97 E	290080	354
135704505	10/29/78	162	38	18915	D	40.87	135.15	0	EEEE	NO		CCCL	LLLL	31.62 N	071.55 E	290080	355
135704511	10/29/78	162	39	18915	D	41.68	133.93	0	EEEE	NO		CCCL	LLLL	30.19 N	071.13 E	290080	356
135704514	10/29/78	162	40	18915	D	42.47	132.67	0	EEEE	NO		CCCL	LLLL	28.76 N	070.72 E	290080	357
135706395	10/29/78	180	52	18916	D	49.66	114.79	20	FFEF	NO		CCCL	LLLL	11.52 N	040.50 E	290080	358
135800023	10/29/78	109	76	18926	D	46.49	074.87	0	EEEE	NO		CCCL	LLLL	23.02 S	134.00 E	290080	359
135801250	10/29/78	127	26	18927	D	29.47	148.18	50	EEFE	NO		CCCL	LLLL	48.66 N	127.83 E	290080	360
135801253	10/29/78	127	27	18927	D	30.48	147.14	10	EEEE	NO		CCCL	LLLL	47.25 N	127.21 E	290080	361
135801255	10/29/78	127	28	18927	D	31.47	146.21	10	EEEE	NO		CCCL	LLLL	45.84 N	126.62 E	290080	362
135801262	10/29/78	127	29	18927	D	32.45	145.22	10	EEEE	NO		CCCL	LLLL	44.43 N	126.05 E	290080	363
135801264	10/29/78	127	30	18927	D	33.42	144.22	10	EEEE	NO		CCCL	LLLL	43.02 N	125.50 E	290080	364
135801271	10/29/78	127	31	18927	D	34.38	143.20	10	EEEE	NO		CCCL	LLLL	41.60 N	124.98 E	290080	365
135801273	10/29/78	127	32	18927	D	35.32	142.16	10	EEEE	NO		CCCL	LLLL	40.18 N	124.47 E	290080	366
135801300	10/29/78	127	38	18927	D	40.64	135.45	NA	MMMM	NO		CCCL	LLLL	31.63 N	121.73 F	0	0
135801303	10/29/78	127	39	18927	D	41.46	134.27	NA	MMMM	NO		CCCL	LLLL	30.20 N	121.31 F	0	0
135801373	10/29/78	127	56	18927	D	50.84	108.26	90	EEFF	NO		CCCL	LLLL	05.76 N	115.12 E	290080	367
135801380	10/29/78	127	57	18927	D	51.05	106.46	90	EEFF	NO		CCCL	LLLL	04.32 N	114.78 E	290080	368
135806565	10/29/78	181	79	18930	D	44.57	071.36	40	EEEE	NO		CCCL	LLLL	27.32 S	029.60 E	290080	369
135806572	10/29/78	181	80	18930	D	43.85	070.27	30	EEEE	NO		CCCL	LLLL	28.75 S	029.19 E	290080	524
135806574	10/29/78	181	81	18930	D	43.11	069.23	20	EEFE	NO		CCCL	LLLL	30.18 S	028.78 E	290080	525

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RESERVATION ENTRY ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM DLT	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
Z135810112	10/29/78	217	50	18932	D	48.65	118.78	NA	MMMM	NO		CCCL	LLLL	14.40 N	011.86 W		0
Z135812055	10/29/78	235	77	18933	D	45.98	073.82	NA	MMMM	NO		CCCL	HLLL	24.46 S	047.04 W		0
Z135812062	10/29/78	235	78	18933	D	45.32	072.60	80	FFFF	NO		CCCL	HLLL	25.89 S	047.43 W		0
Z135812064	10/29/78	235	79	18933	D	44.63	071.45	40	EEEE	NO		CCCL	HLLL	27.32 S	047.83 W	290080	526
Z135812071	10/29/78	235	80	18933	D	43.91	070.35	20	FFFF	NO		CCCL	HLLL	28.76 S	048.23 W	290080	527
Z135813470	10/29/78	2	72	18934	D	48.80	080.71	60	EEFE	NO		CCCL	HLLL	17.28 S	071.00 W	290080	528
Z135813473	10/29/78	2	73	18934	D	48.31	079.23	100	FEFE	NO		CCCL	HLLL	18.72 S	071.36 W	290080	529
Z135816561	10/29/78	38	30	18936	D	33.25	144.36	0	EEFE	NO		CCCL	LLLL	43.00 N	106.77 W	290080	530
Z135816563	10/29/78	38	31	18936	D	34.21	143.35	40	EEFE	NO		CCCL	LLLL	41.58 N	107.29 W	290080	531
Z135816570	10/29/78	38	32	18936	D	35.15	142.33	10	EEFF	NO		CCCL	LLLL	40.16 N	107.60 W	290080	532
Z135816572	10/29/78	38	33	18936	D	36.08	141.29	0	EEFE	NO		CCCL	LLLL	38.74 N	108.29 W	290080	533
Z135816575	10/29/78	38	34	18936	D	37.00	140.22	0	EEFE	NO		CCCL	LLLL	37.32 N	108.78 W	290080	534
Z135816581	10/29/78	38	35	18936	D	37.91	139.12	0	EEFE	NO		CCCL	LLLL	35.90 N	109.25 W	290080	535
Z135816584	10/29/78	38	36	18936	D	38.79	138.01	0	EEFE	NO		CCCL	LLLL	34.47 N	109.69 W	290080	536
Z135816590	10/29/78	38	37	18936	D	39.65	136.88	0	EEFE	NO		CCCL	LLLL	33.04 N	110.12 W	290080	537
Z135816593	10/29/78	38	38	18936	D	40.49	135.71	0	EEFE	NO		CCCL	LLLL	31.62 N	110.56 W	290080	538
Z135900105	10/29/78	110	82	18940	D	42.55	068.51	90	EEEE	NO		CCCL	LLLL	31.62 N	130.20 E	290080	539
Z135901303	10/29/78	128	25	18941	D	28.14	149.37	20	EEEE	NO		CCCL	LLLL	50.05 N	127.06 E	290080	370
Z135901305	10/29/78	128	26	18941	D	29.16	148.39	NA	MMMM	NO		CCCL	LLLL	48.65 N	126.42 E	290080	371
Z135901311	10/29/78	128	27	18941	D	30.16	147.43	NA	MMMM	NO		CCCL	LLLL	47.24 N	125.81 F		0
Z135901314	10/29/78	128	28	18941	D	31.16	146.45	10	EEEE	NO		CCCL	LLLL	45.83 N	125.21 E	290080	372
Z135901320	10/29/78	128	29	18941	D	32.15	145.47	10	EEEE	NO		CCCL	LLLL	44.42 N	124.65 F	290080	373
Z135901323	10/29/78	128	30	18941	D	33.12	144.47	0	EEEE	NO		CCCL	LLLL	43.00 N	124.10 E	290080	374
Z135901325	10/29/78	128	31	18941	D	34.09	143.47	0	EEEE	NO		CCCL	LLLL	41.59 N	123.57 E	290080	375
Z135901332	10/29/78	128	32	18941	D	35.04	142.44	0	EEEE	NO		CCCL	LLLL	40.17 N	123.07 E	290080	376
Z135901334	10/29/78	128	33	18941	D	35.97	141.41	10	EEEE	NO		CCCL	LLLL	38.74 N	122.59 E	290080	377
Z135901341	10/29/78	128	34	18941	D	36.89	140.35	20	EEEE	NO		CCCL	LLLL	37.32 N	122.11 E	290080	378
Z135901343	10/29/78	128	35	18941	D	37.79	139.26	30	EEEE	NO		CCCL	LLLL	35.90 N	121.65 E	290080	379
Z135901350	10/29/78	128	36	18941	D	38.68	138.15	20	EEEE	NO		CCCL	LLLL	34.47 N	121.20 E	290080	380
Z135901352	10/29/78	128	37	18941	D	39.55	137.02	10	EEEE	NO		CCCL	LLLL	33.04 N	120.76 E	290080	381
Z135901355	10/29/78	128	38	18941	D	40.40	135.84	10	EEEE	NO		CCCL	LLLL	31.62 N	120.33 E	290080	382
Z135901361	10/29/78	128	39	18941	D	41.23	134.64	40	EEFF	NO		CCCL	LLLL	30.19 N	119.91 E	290080	383
Z135910164	10/29/78	218	49	18946	D	48.00	120.91	70	EEFE	NO		CCCL	LLLL	15.83 N	012.92 W	290080	481
Z135912114	10/29/78	236	77	18947	D	46.23	074.25	10	FFPF	NO		CCCL	HLLL	24.46 S	048.47 W	290080	482
Z135912120	10/29/78	236	78	18947	D	45.58	073.02	10	EEEE	NO		CCCL	HLLL	25.89 S	048.85 W	290080	483
Z135912123	10/29/78	236	79	18947	D	44.90	071.85	20	EEEE	NO		CCCL	HLLL	27.33 S	049.25 W	290080	484
Z135912125	10/29/78	236	80	18947	D	44.19	070.75	10	EEFE	NO		CCCL	HLLL	28.76 S	049.64 W	290080	485
Z135912132	10/29/78	236	81	18947	D	43.46	069.69	40	EEFE	NO		CCCL	HLLL	30.19 S	050.05 W	290080	486
Z135912134	10/29/78	236	82	18947	D	42.69	068.68	NA	PPPP	NO		CCCL	HLLL	31.62 S	050.47 W	290080	487
Z135913461	10/29/78	3	56	18948	D	50.77	109.18	30	EEPE	NO		CCCL	LLLL	05.76 N	066.98 W	290080	488

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	X CLD COVER	QUALITY 4567	CCM CLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME	
2135913464	10/29/78		3	57	18948	D	51.00	107.38	20	EEPE	NO		CCCL LLLL	04.32 N	067.32 W	290080	489
2135913470	10/29/78		3	58	18948	D	51.19	105.56	50	EEFE	NO		CCCL LLLL	02.88 N	067.66 W	290080	490
2135913473	10/29/78		3	59	18948	D	51.33	103.75	30	EEFE	NO		CCCL LLLL	01.44 N	068.00 W	290080	491
2136001361	10/29/78		129	25	18955	D	27.81	149.58	0	EEEE	NO		CCCL LLLL	50.04 N	125.65 E	290080	492
2136001364	10/29/78		129	26	18955	D	28.83	148.62	0	EEEE	NO		CCCL LLLL	48.64 N	125.00 E	290080	493
2136001370	10/29/78		129	27	18955	D	29.84	147.66	0	EEEE	NO		CCCL LLLL	47.23 N	124.39 E	290080	494
2136001373	10/29/78		129	28	18955	D	30.83	146.71	0	EEEE	NO		CCCL LLLL	45.82 N	123.79 E	290080	495
2136001375	10/29/78		129	29	18955	D	31.83	145.73	0	EEEE	NO		CCCL LLLL	44.41 N	123.22 E	290080	496
2136001382	10/29/78		129	30	18955	D	32.81	144.75	0	EEEE	NO		CCCL LLLL	43.00 N	122.68 E	290080	497
2136001384	10/29/78		129	31	18955	D	33.78	143.75	0	EEEE	NO		CCCL LLLL	41.58 N	122.15 E	290080	498
2136001391	10/29/78		129	32	18955	D	34.73	142.75	0	EEFE	NO		CCCL LLLL	40.17 N	121.64 E	290080	499
2136001393	10/29/78		129	33	18955	D	35.67	141.72	0	EEFE	NO		CCCL LLLL	38.75 N	121.15 E	290080	500
2136001400	10/29/78		129	34	18955	D	36.60	140.67	0	EEEE	NO		CCCL LLLL	37.32 N	120.67 E	290080	501
2136001434	10/29/78		129	43	18955	D	44.09	129.96	40	EEEE	NO		CCCL LLLL	24.45 N	116.90 E	290080	502
2136001441	10/29/78		129	44	18955	D	44.80	128.59	50	EEEE	NO		CCCL LLLL	23.02 N	116.52 E	290080	503
2136001493	10/29/78		129	57	18955	D	50.98	107.67	30	EEEE	NO		CCCL LLLL	04.32 N	111.92 E	290080	504
2136001495	10/29/78		129	58	18955	D	51.18	105.87	30	EEFE	NO		CCCL LLLL	02.88 N	111.58 E	290080	505
2136001502	10/29/78		129	59	18955	D	51.32	104.06	30	EEFE	NO		CCCL LLLL	01.44 N	111.25 E	290080	506
2136003254	10/29/78		147	40	18956	D	41.76	133.86	30	EEFE	NO		CCCL LLLL	28.76 N	092.25 E	290080	507
2136003261	10/29/78		147	41	18956	D	42.56	132.60	20	EEFE	NO		CCCL LLLL	27.33 N	091.84 E	290080	508
2136003263	10/29/78		147	42	18956	D	43.32	131.32	10	EEFE	NO		CCCL LLLL	25.89 N	091.45 E	290080	509
2136017060	10/29/78		40	26	18964	D	28.60	148.78	20	EEEE	NO		CCCL LLLL	48.66 N	107.37 W	290080	444
2136017063	10/29/78		40	27	18964	D	29.62	147.83	10	EEEE	NO		CCCL LLLL	47.26 N	108.00 W	290080	445
2136017065	10/29/78		40	28	18964	D	30.62	146.87	0	EEEF	NO		CCCL LLLL	45.84 N	108.58 W	290080	446
2136017072	10/29/78		40	29	18964	D	31.62	145.90	0	EEEE	NO		CCCL LLLL	44.43 N	109.14 W	290080	447
2136017074	10/29/78		40	30	18964	D	32.60	144.93	0	EEFF	NO		CCCL LLLL	43.01 N	109.67 W	290080	448
2136017081	10/29/78		40	31	18964	D	33.57	143.95	0	EEFF	NO		CCCL LLLL	41.59 N	110.19 W	290080	449
2136017083	10/29/78		40	32	18964	D	34.53	142.94	10	EEEF	NO		CCCL LLLL	40.17 N	110.70 W	290080	450
2136017090	10/29/78		40	33	18964	D	35.48	141.92	0	EEEF	NO		CCCL LLLL	38.75 N	111.19 W	290080	451
2136017092	10/29/78		40	34	18964	D	36.41	140.87	0	EEEF	NO		CCCL LLLL	37.33 N	111.67 W	290080	452
2136017095	10/29/78		40	35	18964	D	37.33	139.81	0	EEFF	NO		CCCL LLLL	35.91 N	112.13 W	290080	453
2136017101	10/29/78		40	36	18964	D	38.22	138.72	0	EEFF	NO		CCCL LLLL	34.48 N	112.58 W	290080	454
2136017104	10/29/78		40	37	18964	D	39.10	137.61	0	EEFF	NO		CCCL LLLL	33.05 N	113.02 W	290080	455
2136017110	10/29/78		40	38	18964	D	39.97	136.46	10	EEFF	NO		CCCL LLLL	31.62 N	113.45 W	290080	456
2136107082	10/29/78		184	65	18972	D	51.34	093.88	10	EEPE	NO		CCCL LLLL	07.20 S	030.36 E	290080	510
2136107085	10/29/78		184	66	18972	D	51.18	092.10	10	EE2F	NO		CCCL LLLL	08.64 S	030.02 E	290080	511
2136112254	10/29/78		238	83	18975	D	42.49	068.42	90	EEEE	NO		CCCL HLLL	33.04 S	053.79 W	290080	512
2136112261	10/29/78		238	84	18975	D	41.69	067.50	60	EEEE	NO		CCCL HLLL	34.47 S	054.23 W	290080	513
2136112263	10/29/78		238	85	18975	D	40.87	066.64	30	EEFF	NO		CCCL HLLL	35.90 S	054.67 W	290080	514
2136113560	10/29/78		5	52	18976	D	49.19	117.25	20	EEEE	NO		CCCL LLLL	11.52 N	068.50 W	290080	515

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME	
2136113563	10/29/78		5	53		18976	D	49.62	115.56	30	EEFE	NO	CCCL	LLLL	10.08 N	068.82 W	290080	516
2136113565	10/29/78		5	54		18976	D	50.01	113.85	20	EEEE	NO	CCCL	LLLL	08.64 N	069.16 W	290080	517
2136113572	10/29/78		5	55		18976	D	50.36	112.11	10	EEFE	NO	CCCL	LLLL	07.20 N	069.50 W	290080	518
2136113574	10/29/78		5	56		18976	D	50.66	110.35	10	EEFE	NO	CCCL	LLLL	05.76 N	069.83 W	290080	519
2136114040	10/29/78		5	71		18976	D	49.76	083.81	60	EEFE	NO	CCCL	HLLL	15.84 S	074.95 W	290080	520
2136114042	10/29/78		5	72		18976	D	49.35	082.25	100	EEEE	NO	CCCL	HLLL	17.28 S	075.31 W	290080	521
2136201554	10/29/78		131	44		18983	D	44.38	129.50	90	EEFE	NO	CCCL	LLLL	23.02 N	113.64 E	290080	522
2136201560	10/29/78		131	45		18983	D	45.08	128.14	90	EEFE	NO	CCCL	LLLL	21.59 N	113.27 E	290080	523
2136207141	10/29/78		185	65		18986	D	51.41	094.48	40	EEEE	NO	CCCL	LLLL	07.20 S	028.92 E	290080	384
2136207143	10/29/78		185	66		18986	D	51.27	092.69	30	EEEE	NO	CCCL	LLLL	08.64 S	028.58 E	290080	385
2136214015	10/29/78		6	52		18990	D	49.07	117.78	80	EEEE	NO	CCCL	LLLL	11.52 N	069.92 W	290080	386
2136214022	10/29/78		6	53		18990	D	49.51	116.12	90	FFFF	NO	CCCL	LLLL	10.08 N	070.27 W	290080	387
2136214024	10/29/78		6	54		18990	D	49.91	114.43	80	MFFM	NO	CCCL	LLLL	08.64 N	070.61 W	290080	388
2136214031	10/29/78		6	55		18990	D	50.28	112.71	70	MEEM	NO	CCCL	LLLL	07.20 N	070.95 W	290080	389
2136214085	10/29/78		6	69		18990	D	50.61	087.67	0	EEEE	NO	CCCL	HLLL	12.96 S	075.69 W	290080	390
2136214092	10/29/78		6	70		18990	D	50.29	086.00	30	FFFF	NO	CCCL	HLLL	14.40 S	076.04 W	290080	391
2136222495	10/29/78		96	80		18995	D	45.09	072.08	80	EEEE	NO	CCCL	LLLL	28.75 S	151.11 E	290080	392
2136301554	10/29/78		132	30		18997	D	31.88	145.53	0	EEEE	NO	CCCL	LLLL	43.00 N	118.37 E	290080	393
2136301560	10/29/78		132	31		18997	D	32.87	144.57	10	EEEE	NO	CCCL	LLLL	41.59 N	117.84 E	290080	394
2136301563	10/29/78		132	32		18997	D	33.84	143.59	10	EEEE	NO	CCCL	LLLL	40.17 N	117.33 E	290080	395
2136301565	10/29/78		132	33		18997	D	34.79	142.60	0	EEEE	NO	CCCL	LLLL	38.75 N	116.83 E	290080	396
2136301572	10/29/78		132	34		18997	D	35.74	141.59	0	EEEE	NO	CCCL	LLLL	37.33 N	116.35 E	290080	397
2136301574	10/29/78		132	35		18997	D	36.67	140.55	0	EEFE	NO	CCCL	LLLL	35.91 N	115.89 E	290080	398
2136301581	10/29/78		132	36		18997	D	37.58	139.50	0	EEEE	NO	CCCL	LLLL	34.48 N	115.44 E	290080	399
2136301583	10/29/78		132	37		18997	D	38.48	138.41	0	EEFE	NO	CCCL	LLLL	33.05 N	115.00 E	290080	400
2136301590	10/29/78		132	38		18997	D	39.36	137.28	0	EEFE	NO	CCCL	LLLL	31.62 N	114.57 E	290080	401
2136301592	10/29/78		132	39		18997	D	40.22	136.14	0	EEEE	NO	CCCL	LLLL	30.19 N	114.16 F	290080	402
2136301595	10/29/78		132	40		18997	D	41.09	134.97	10	EEEE	NO	CCCL	LLLL	28.76 N	113.75 E	290080	403
2136302012	10/29/78		132	44		18997	D	44.16	129.94	100	FEFE	NO	CCCL	LLLL	23.02 N	112.21 F	290080	404
2136302015	10/29/78		132	45		18997	D	44.88	128.59	100	FEFE	NO	CCCL	LLLL	21.58 N	111.84 E	290080	405
2136307202	10/29/78		186	66		19000	D	51.36	093.27	40	EEEE	NO	CCCL	LLLL	08.64 S	027.16 E	290080	540
2136312272	10/29/78		240	59		19003	D	51.27	106.11	30	2EE6	NO	CCCL	HLLL	01.44 N	047.92 W	290080	541
2136312274	10/29/78		240	60		19003	D	51.43	104.29	NA	MMMM	NO	CCCL	HLLL	00.00 N	048.25 W	0	0
2136312281	10/29/78		240	61		19003	D	51.53	102.46	70	FMMP	NO	CCCL	HLLL	01.44 S	048.59 W	290080	542
2136314074	10/29/78		7	52		19004	D	48.95	118.31	100	FFFF	NO	CCCL	LLLL	11.52 N	071.35 W	290080	543
2136314080	10/29/78		7	53		19004	D	49.41	116.65	90	EEEE	NO	CCCL	LLLL	10.08 N	071.69 W	290080	544
2136314083	10/29/78		7	54		19004	D	49.82	114.97	90	EEEE	NO	CCCL	LLLL	08.64 N	072.03 W	290080	545
2136314085	10/29/78		7	55		19004	D	50.20	113.26	80	EEEE	NO	CCCL	LLLL	07.20 N	072.37 W	290080	546
2136314142	10/29/78		7	68		19004	D	50.99	089.93	30	EEEE	NO	CCCL	HLLL	11.52 S	076.76 W	290080	547
2136314144	10/29/78		7	69		19004	D	50.73	088.21	90	EEEE	NO	CCCL	HLLL	12.96 S	077.11 W	290080	548

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	X CLD COVER	QUALITY 4567	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2136321170	10/29/78	79	91	19008	D	36.35	063.27	50	EEEE	NO	CCCL	LLLL	44.40 S	170.32 E	290080	549
2136321172	10/29/78	79	92	19008	D	35.41	062.79	80	EEEE	NO	CCCL	LLLL	45.82 S	169.76 E	290080	550
2136402042	10/29/78	133	37	19011	D	38.20	138.75	0	EEEE	NO	CCCL	LLLL	33.04 N	113.60 E	290080	551
2136402044	10/29/78	133	38	19011	D	39.09	137.64	0	EEEE	NO	CCCL	LLLL	31.61 N	113.17 E	290080	552
2136402051	10/29/78	133	39	19011	D	39.95	136.51	0	EEEE	NO	CCCL	LLLL	30.18 N	112.75 E	290080	553
2136402053	10/29/78	133	40	19011	D	40.80	135.35	0	EEEE	NO	CCCL	LLLL	28.75 N	112.34 E	290080	554

COORDINATE LISTING

GODDARD SPACE FLIGHT CENTER
 LANDSAT IMAGE PROCESSING FACILITY
 INFORMATION PRODUCTION AND CONTROL SYSTEM
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2133708141	10/07/78	196	60	18638	D	50.01	088.14	50	FFFE	NO		CCCL	LLLL	00.00 N	014.81 E	290079	607
2133608082	10/29/78	195	60	18624	D	49.90	087.55	80	EEEE	NO		CCCL	LLLL	00.00 N	016.25 E	290080	419
2136312274	10/29/78	240	60	19003	D	51.43	104.29	NA	MMMM	NO		CCCL	HHLL	00.00 N	048.25 W	0	0
2133708135	10/07/78	196	59	18638	D	50.27	089.87	50	FEFF	NO		CCCL	LLLL	01.44 N	015.15 E	290079	606
2133608080	10/29/78	195	59	18624	D	50.17	089.26	90	EEEE	NO		CCCL	LLLL	01.44 N	016.58 E	290080	418
2136001502	10/29/78	129	59	18955	D	51.32	104.06	30	EEFE	NO		CCCL	LLLL	01.44 N	111.25 F	290080	506
2136312272	10/29/78	240	59	19003	D	51.27	106.11	30	2EE6	NO		CCCL	HHLL	01.44 N	047.92 W	290080	541
2135913473	10/29/78	3	59	18948	D	51.33	103.75	30	EEFE	NO		CCCL	LLLL	01.44 N	068.00 W	290080	491
2133014262	10/01/78	10	59	18544	D	49.55	085.84	30	EEEE	NO		CCCL	LLLL	01.44 N	078.04 W	290079	162
2134814271	10/21/78	10	59	18795	D	51.08	096.88	80	EEEE	NO		CCCL	LLLL	01.44 N	078.04 W	290080	133
2133708132	10/07/78	196	58	18638	D	50.48	091.63	70	EEEE	NO		CCCL	LLLL	02.88 N	015.48 E	290079	605
2133608073	10/29/78	195	58	18624	D	50.40	091.01	90	EEEE	NO		CCCL	LLLL	02.88 N	016.92 E	290080	417
2136001495	10/29/78	129	58	18955	D	51.18	105.87	30	EEFE	NO		CCCL	LLLL	02.88 N	111.58 E	290080	505
2135913470	10/29/78	3	58	18948	D	51.19	105.56	50	EEFE	NO		CCCL	LLLL	02.88 N	067.66 W	290080	490
2133014260	10/01/78	10	58	18544	D	49.87	087.53	30	EEEE	NO		CCCL	LLLL	02.88 N	077.71 W	290079	161
2134814265	10/21/78	10	58	18795	D	51.12	098.70	80	EEEE	NO		CCCL	LLLL	02.88 N	077.71 W	290080	132
2133608071	10/29/78	195	57	18624	D	50.58	092.78	90	FEMF	NO		CCCL	LLLL	04.32 N	017.25 E	290080	416
2131002101	10/29/78	133	57	18258	D	48.02	077.93	40	EEPF	NO		CCCL	LLLL	04.32 N	106.17 E	290079	62
2136001493	10/29/78	129	57	18955	D	50.98	107.67	30	EEEE	NO		CCCL	LLLL	04.32 N	111.92 E	290080	504
2134101430	10/07/78	128	57	18690	D	50.86	095.75	80	PEEE	NO		CCCL	LLLL	04.32 N	113.35 E	290080	42
2135801380	10/29/78	127	57	18927	D	51.05	106.46	90	EEFF	NO		CCCL	LLLL	04.32 N	114.78 E	290080	368
2135913464	10/29/78	3	57	18948	D	51.00	107.38	20	EEPE	NO		CCCL	LLLL	04.32 N	067.32 W	290080	439
2133014253	10/01/78	10	57	18544	D	50.14	089.25	40	EEEE	NO		CCCL	LLLL	04.32 N	077.37 W	290079	160
2134814262	10/21/78	10	57	18795	D	51.11	100.53	80	EEEE	NO		CCCL	LLLL	04.32 N	077.37 W	290080	131
2133608064	10/29/78	195	56	18624	D	50.72	094.57	90	EEME	NO		CCCL	LLLL	05.76 N	017.59 E	290080	415
2135206124	10/22/78	175	56	18846	D	51.02	104.66	NA	MMMM	NO		CCCL	LLLL	05.76 N	046.28 E	0	0
2135106065	10/22/78	174	56	18832	D	51.03	104.02	60	EEEE	NO		CCCL	LLLL	05.76 N	047.73 F	290080	298
2131002095	10/29/78	133	56	18258	D	48.53	079.48	50	FEPF	NO		CCCL	LLLL	05.76 N	106.52 E	290079	61
2134101423	10/07/78	128	56	18690	D	50.92	097.56	90	PEFE	NO		CCCL	LLLL	05.76 N	113.69 E	290080	41
2135801373	10/29/78	127	56	18927	D	50.84	108.26	90	EEFF	NO		CCCL	LLLL	05.76 N	115.12 E	290080	367
2123201313	10/07/78	127	56	17170	D	46.47	062.78	90	EEEE	NO		CCCL	HHLL	05.76 N	115.13 E	290079	472
2135012541	10/22/78	245	56	18822	D	51.04	103.56	40	EEFE	NO		CCCL	HHLL	05.76 N	054.07 W	290080	294
2135113000	10/22/78	246	56	18836	D	51.03	104.22	60	EEEE	NO		CCCL	HHLL	05.76 N	055.52 W	290080	302
2135913461	10/29/78	3	56	18948	D	50.77	109.18	30	EEPE	NO		CCCL	LLLL	05.76 N	066.98 W	290080	488
2132413502	10/01/78	4	56	18460	D	49.91	087.41	10	EE22	NO		CCCL	LLLL	05.76 N	068.43 W	290079	237
2136113574	10/29/78	5	56	18976	D	50.66	110.35	10	EEFE	NO		CCCL	LLLL	05.76 N	069.83 W	290080	519

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2134814260	10/21/78	10	56	18795	D	51.05	102.36	70	EEEE	NO			05.76 N	077.03 W	290080	130
2133014251	10/01/78	10	56	18544	D	50.37	091.01	40	2222	NO			05.76 N	077.04 W		0
2135206122	10/22/78	175	55	18846	D	50.86	106.47	NA	MMMM	NO			07.20 N	046.62 E	0	0
2135106063	10/22/78	174	55	18832	D	50.89	105.84	50	EEEE	NO			07.20 N	048.07 E	290080	297
2135102400	10/22/78	138	55	18830	D	50.89	105.75	30	EEEE	NO			07.20 N	099.69 E	290080	295
2133302391	10/07/78	138	55	18579	D	50.68	094.33	80	EFEF	NO			07.20 N	099.70 E	290079	505
2123201311	10/07/78	127	55	17170	D	47.32	064.07	100	EEEE	NO			07.20 N	115.46 E	290079	471
2132413500	10/01/78	4	55	18460	D	50.18	089.15	10	EE22	NO			07.20 N	068.09 W	290079	236
2136113572	10/29/78	5	55	18976	D	50.36	112.11	10	EFEE	NO			07.20 N	069.50 W	290080	518
2136214031	10/29/78	6	55	18990	D	50.28	112.71	70	MEEM	NO			07.20 N	070.95 W	290080	389
2134414022	10/07/78	6	55	18739	D	50.97	101.62	50	2EFE	NO			07.20 N	070.96 W	290079	687
2136314085	10/29/78	7	55	19004	D	50.20	113.26	80	2EEE	NO			07.20 N	072.37 W	290080	546
2135206115	10/22/78	175	54	18846	D	50.65	108.28	NA	MMMM	NO			08.64 N	046.96 E	0	0
2135106060	10/22/78	174	54	18832	D	50.70	107.64	30	EEEE	NO			08.64 N	048.41 E	290080	296
2135202452	10/22/78	139	54	18844	D	50.65	108.20	70	EEEE	NO			08.64 N	098.61 E	290080	326
2135102393	10/22/78	138	54	18830	D	50.70	107.55	NA	MMMM	NO			08.64 N	100.03 E	0	0
2133302385	10/07/78	138	54	18579	D	50.78	096.15	100	EFEE	NO			08.64 N	100.04 E	290079	504
2123201304	10/07/78	127	54	17170	D	48.15	065.43	80	EEEE	NO			08.64 N	115.81 E	290079	470
2135513221	10/29/78	250	54	18892	D	50.46	110.30	50	EEFE	NO			08.64 N	060.57 W	290080	473
2132413493	10/01/78	4	54	18460	D	50.42	090.92	10	EE22	NO			08.64 N	067.75 W	290079	235
2136113565	10/29/78	5	54	18976	D	50.01	113.85	20	FEFE	NO			08.64 N	069.16 W	290080	517
2136214024	10/29/78	6	54	18990	D	49.91	114.43	80	MFFM	NO			08.64 N	070.61 W	290080	388
2136314083	10/29/78	7	54	19004	D	49.82	114.97	90	EEEE	NO			08.64 N	072.03 W	290080	545
2133508001	10/29/78	194	54	18610	D	50.85	097.57	90	FFEF	NO			08.65 N	019.70 E	290080	145
2133402443	10/07/78	139	54	18593	D	50.81	096.79	70	FEFE	NO			08.65 N	098.59 E	290079	531
2134414020	10/07/78	6	54	18739	D	50.89	103.45	NA	MMMM	NO			08.65 N	070.62 W	0	0
2135207544	10/29/78	193	53	18847	D	50.39	110.11	90	EEEE	NO			10.08 N	021.50 E	290080	457
2133402441	10/07/78	139	53	18593	D	50.85	098.62	80	EEEE	NO			10.08 N	098.94 E	290079	530
2135202445	10/22/78	139	53	18844	D	50.41	109.98	80	EEEE	NO			10.08 N	098.94 E	290080	325
2123201302	10/07/78	127	53	17170	D	48.94	066.85	NA	MMMM	NO			10.08 N	116.16 E	0	0
2130413364	10/01/78	2	53	18181	D	49.48	081.57	40	EEEE	NO			10.08 N	064.51 W	290079	217
2136113563	10/29/78	5	53	18976	D	49.62	115.56	30	EFEE	NO			10.08 N	068.82 W	290080	516
2136214022	10/29/78	6	53	18990	D	49.51	116.12	90	FFFF	NO			10.08 N	070.27 W	290080	387
2136314080	10/29/78	7	53	19004	D	49.41	116.65	90	EEEE	NO			10.08 N	071.69 W	290080	544
2133507594	10/29/78	194	53	18610	D	50.87	099.41	80	EEEE	NO			10.09 N	020.05 E	290080	144
2133407540	10/07/78	193	53	18596	D	50.86	098.77	60	FEFE	NO			10.09 N	021.48 E	290079	540
2135513215	10/29/78	250	53	18892	D	50.16	112.05	30	EEFE	NO			10.09 N	060.25 W	290080	472
2134013383	10/07/78	2	53	18683	D	50.85	102.75	20	FEFE	NO			10.09 N	064.54 W	290079	623
2134414013	10/08/78	6	53	18739	D	50.76	105.29	NA	MMMM	NO			10.09 N	070.28 W	0	0
2135706395	10/29/78	180	52	18916	D	49.66	114.79	20	EEEF	NO			11.52 N	040.50 E	290080	358

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2133402434	10/07/78	139	52	18593	D	50.85	100.46	90	FFFF	NO		CCCL	LLLL	11.52 N	099.28 E	290079	529
2123201295	10/07/78	127	52	17170	D	49.71	068.34	40	EEEE	NO		CCCL	HLLL	11.52 N	116.51 E	290079	469
2136113560	10/29/78	5	52	18976	D	49.19	117.25	20	EEEE	NO		CCCL	LLLL	11.52 N	068.50 W	290080	515
2136214015	10/29/78	6	52	18990	D	49.07	117.78	80	EEEE	NO		CCCL	LLLL	11.52 N	069.92 W	290080	386
2136314074	10/29/78	7	52	19004	D	48.95	118.31	100	FFFF	NO		CCCL	LLLL	11.52 N	071.35 W	290080	543
2135202443	10/22/78	139	52	18844	D	50.12	111.72	80	EEEE	NO		CCCL	LLLL	11.53 N	099.28 E	290079	324
2135513212	10/29/78	250	52	18892	D	49.82	113.78	20	EEEE	NO		CCCL	HLLL	11.53 N	059.90 W	290080	471
2134414011	10/08/78	6	52	18739	D	50.56	107.12	40	EEEE	NO		CCCL	LLLL	11.53 N	069.94 W	290079	786
2133109190	10/07/78	208	51	18555	D	50.84	100.60	20	EEEE	NO		CCCL	LLLL	12.96 N	000.66 E	290079	485
2133009131	10/01/78	207	51	18541	D	50.85	099.96	NA	MMM	NO		CCCL	LLLL	12.96 N	002.11 E	0	0
2134709082	10/15/78	206	51	18778	D	50.18	110.63	10	EEEE	NO		CCCL	LLLL	12.96 N	003.54 E	290080	209
2134609023	10/08/78	205	51	18764	D	50.25	110.00	20	2FFE	NO		CCCL	LLLL	12.96 N	004.98 E	290080	20
2123201293	10/07/78	127	51	17170	D	50.45	069.91	40	EEEE	NO		CCCL	HLLL	12.96 N	116.86 E	290079	468
2132909073	10/07/78	206	51	18527	D	50.86	099.34	10	EEEE	NO		CCCL	LLLL	12.97 N	003.52 E	290079	258
2133402432	10/07/78	139	51	18593	D	50.80	102.30	80	EEEE	NO		CCCL	LLLL	12.97 N	099.62 F	290079	528
2135202440	10/22/78	139	51	18844	D	49.78	113.46	70	EEEE	NO		CCCL	LLLL	12.97 N	099.62 F	290080	323
2133109184	10/07/78	208	50	18555	D	50.79	102.45	10	EEEE	NO		CCCL	LLLL	14.40 N	001.01 E	290079	484
2133009125	10/01/78	207	50	18541	D	50.81	101.81	30	2222	NO		CCCL	LLLL	14.40 N	002.46 E	0	0
2134709075	10/15/78	206	50	18778	D	49.87	112.38	20	EEEE	NO		CCCL	LLLL	14.40 N	003.88 E	290080	208
2134609020	10/08/78	205	50	18764	D	49.96	111.76	0	2FFE	NO		CCCL	LLLL	14.40 N	005.33 E	290080	19
2123201290	10/07/78	127	50	17170	D	51.15	071.53	30	EEFE	NO		CCCL	HLLL	14.40 N	117.21 E	290079	467
2135610112	10/29/78	217	50	18932	D	48.65	118.78	NA	MMM	NO		CCCL	LLLL	14.40 N	011.86 W	0	0
2132909070	10/07/78	206	50	18527	D	50.84	101.19	10	EEEE	NO		CCCL	LLLL	14.41 N	003.87 E	290079	257
2135302492	10/29/78	140	50	18858	D	49.29	115.78	90	EEEE	NO		CCCL	LLLL	14.41 N	098.53 E	290080	462
2133502484	10/07/78	140	50	18607	D	50.66	104.77	80	EEEE	NO		CCCL	LLLL	14.41 N	098.54 E	290079	543
2133402425	10/07/78	139	50	18593	D	50.70	104.14	50	EEEF	NO		CCCL	LLLL	14.41 N	099.96 E	290079	527
2135202434	10/22/78	139	50	18844	D	49.41	115.17	90	EEEE	NO		CCCL	LLLL	14.41 N	099.96 E	290080	322
2135910164	10/29/78	218	49	18946	D	48.00	120.91	70	EEFE	NO		CCCL	LLLL	15.83 N	012.92 W	290080	481
2133009122	10/01/78	207	49	18541	D	50.73	103.66	10	EEEE	NO		CCCL	LLLL	15.84 N	002.81 E	290079	159
2132909064	10/07/78	206	49	18527	D	50.77	103.04	40	EEEF	NO		CCCL	LLLL	15.84 N	004.23 E	290079	256
2134709073	10/15/78	206	49	18778	D	49.52	114.11	10	EEEE	NO		CCCL	LLLL	15.84 N	004.23 E	290080	207
2134609014	10/08/78	205	49	18764	D	49.63	113.51	0	2FPE	NO		CCCL	LLLL	15.84 N	005.68 E	290080	18
2123201284	10/07/78	127	49	17170	D	51.81	073.23	10	EEEE	NO		CCCL	HLLL	15.84 N	117.56 E	290079	466
2132410210	10/01/78	219	49	18458	D	50.91	100.00	10	EE22	NO		CCCL	LLLL	15.84 N	014.38 W	290079	234
2133502481	10/07/78	140	49	18607	D	50.50	106.60	100	EEEE	NO		CCCL	LLLL	15.85 N	098.88 E	290079	542
2135302490	10/29/78	140	49	18858	D	48.86	117.45	90	EEEF	NO		CCCL	LLLL	15.85 N	098.88 E	290080	461
2133402423	10/07/78	139	49	18593	D	50.56	105.98	50	EEFE	NO		CCCL	LLLL	15.85 N	100.31 F	290079	526
2135202431	10/22/78	139	49	18844	D	48.99	116.87	90	EEEE	NO		CCCL	LLLL	15.85 N	100.32 E	290079	321
2134210215	10/07/78	219	49	18709	D	49.99	111.14	70	PEFE	NO		CCCL	LLLL	15.85 N	014.40 W	290079	657
2132909061	10/07/78	206	48	18527	D	50.66	104.89	30	EEEE	NO		CCCL	LLLL	17.28 N	004.58 E	290079	255

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OBSERVATION ID	ENTRY DATE	PATH	ROW	CRPIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2134709070	10/15/78	206	48	18778	D	49.14	115.82	10	FEFE	NO							
2134609011	10/08/78	205	48	18764	D	49.25	115.25	0	2F2E	NO			CCCL LLLL	17.28 N	004.59 E	290080	206
2133502475	10/07/78	140	48	18607	D	50.30	108.42	100	EEEE	NO			CCCL LLLL	17.28 N	006.04 E	290080	17
2135302483	10/29/78	140	48	18858	D	48.39	119.10	80	EEFE	NO			CCCL LLLL	17.28 N	099.25 E	290079	541
2133402420	10/29/78	139	48	18593	D	50.37	107.80	40	FFFE	NO			CCCL LLLL	17.28 N	099.25 E	290080	460
2135202425	10/22/78	139	48	18844	D	48.53	118.53	90	EEFE	NO			CCCL LLLL	17.28 N	100.67 F	290080	138
2136302015	10/29/78	132	45	18997	D	44.88	128.59	100	FFFE	NO			CCCL LLLL	17.28 N	100.68 F	290080	320
2134502011	10/07/78	132	45	18746	D	48.09	119.50	10	FEFE	NO			CCCL LLLL	21.58 N	111.84 E	290080	405
2134401552	10/08/78	131	45	18732	D	48.25	118.92	60	FFFE	NO			CCCL LLLL	21.59 N	111.81 E	290079	700
2136201560	10/29/78	131	45	18983	D	45.08	128.14	90	EEFE	NO			CCCL LLLL	21.59 N	113.25 E	290079	731
2136302012	10/29/78	132	44	18997	D	44.16	129.94	100	FEFE	NO			CCCL LLLL	21.59 N	113.27 E	290080	523
2136201554	10/29/78	131	44	18983	D	44.38	129.50	90	EEFE	NO			CCCL LLLL	23.02 N	112.21 E	290080	404
2136001441	10/29/78	129	44	18955	D	44.80	128.59	50	FFFE	NO			CCCL LLLL	23.02 N	113.64 F	290080	522
2134502004	10/07/78	132	44	18746	D	47.58	121.11	10	PFFF	NO			CCCL LLLL	23.02 N	116.52 E	290080	503
2134401550	10/08/78	131	44	18732	D	47.75	120.55	50	PFFF	NO			CCCL LLLL	23.03 N	112.19 E	290079	699
2134301497	10/07/78	130	44	18718	D	47.91	120.01	70	PEFE	NO			CCCL LLLL	23.03 N	113.63 E	290079	730
2134201432	10/07/78	129	44	18704	D	48.08	119.45	80	PEFE	NO			CCCL LLLL	23.03 N	115.04 E	290079	672
2128604552	10/01/78	163	43	17925	D	52.78	091.50	60	EEFE	NO			CCCL LLLL	23.03 N	116.50 E	290080	53
2136001434	10/29/78	129	43	18955	D	44.09	129.96	40	FEFE	NO			CCCL LLLL	24.45 N	068.14 E	290079	109
2135206072	10/22/78	175	43	18846	D	45.70	126.33	0	FEFE	NO			CCCL HLLL	24.45 N	116.90 E	290080	502
2134805441	10/21/78	171	43	18790	D	46.47	124.33	0	EEFE	NO			CCCL HLLL	24.46 N	050.89 E	290080	329
2134705382	10/08/78	170	43	18776	D	46.65	123.81	10	FEFE	NO			CCCL HLLL	24.46 N	056.64 E	290080	126
2134004580	10/21/78	163	43	18678	D	47.87	120.06	10	EEFE	NO			CCCL LLLL	24.46 N	058.06 E	290079	812
2134201430	10/07/78	129	43	18704	D	47.57	121.06	90	PFFF	NO			CCCL LLLL	24.46 N	068.10 E	290080	119
2135214434	10/15/78	14	43	18851	D	45.63	126.50	60	EEEE	NO			CCCL LLLL	24.46 N	116.87 E	290080	52
2133414425	10/07/78	14	43	18600	D	48.73	116.93	50	EEEE	NO			CCCL HLLL	24.46 N	078.14 W	290080	259
2131814533	10/01/78	16	43	18377	D	50.64	107.76	30	EEEE	NO			CCCL HLLL	24.46 N	078.76 W	290079	435
2133614543	10/07/78	16	43	18628	D	48.43	118.05	10	EEEE	NO			CCCL LLLL	24.46 N	081.00 W	290079	232
2135414551	10/22/78	16	43	18879	D	45.22	127.50	20	FEFE	NO			CCCL LLLL	24.46 N	081.03 W	290079	424
2135314492	10/15/78	15	43	18865	D	45.41	127.02	50	EEEE	NO			CCCL LLLL	24.46 N	081.03 W	290080	339
2135306124	10/29/78	176	42	18860	D	44.82	128.25	0	EEFE	NO			CCCL HLLL	24.47 N	079.60 W	290080	278
2128604545	10/01/78	163	42	17925	D	52.97	093.54	10	EEEE	NO			CCCL HLLL	25.89 N	049.86 E	290080	465
2136003263	10/29/78	147	42	18956	D	43.32	131.32	10	EEFE	NO			CCCL LLLL	25.89 N	068.53 E	290079	108
2135214431	10/15/78	14	42	18851	D	44.97	127.93	40	EEFE	NO			CCCL LLLL	25.89 N	091.45 E	290080	509
2131814531	10/01/78	16	42	18377	D	50.42	109.62	30	EEEE	NO			CCCL HLLL	25.89 N	077.76 W	290080	258
2133614540	10/07/78	16	42	18628	D	47.96	119.72	30	EEEE	NO			CCCL LLLL	25.89 N	080.61 W	290079	231
2133714595	10/07/78	17	42	18642	D	47.80	120.27	30	EEEE	NO			CCCL LLLL	25.89 N	080.63 W	290079	423
2134816032	10/29/78	28	42	18796	D	45.77	126.03	30	EEFE	NO			CCCL HLLL	25.89 N	082.06 W	290079	558
2135206065	10/22/78	175	42	18846	D	45.04	127.77	0	EEFE	NO			CCCL LLLL	25.89 N	097.84 W	290080	162
2134705380	10/08/78	170	42	18776	D	46.05	125.32	10	FEFE	NO			CCCL HLLL	25.90 N	051.28 E	290080	326
																290079	811

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2134004573	10/21/78	163	42	18678	D	47.35	121.68	10	EEEE	NO		CCCL	LLLL	25.90 N	068.50 E	290080	118
2133414423	10/07/78	14	42	18600	D	48.28	118.62	40	EEEE	NO		CCCL	HHLL	25.90 N	077.78 W	290079	434
2135314490	10/15/78	15	42	18865	D	44.74	128.42	30	EEEE	NO		CCCL	HHLL	25.90 N	079.21 W	290080	277
2135414545	10/22/78	16	42	18879	D	44.53	128.88	30	EEEE	NO		CCCL	LLLL	25.90 N	080.65 W	290080	338
2128604543	10/01/78	163	41	17925	D	53.11	095.59	20	EEEE	NO		CCCL	LLLL	27.32 N	068.91 E	290079	107
2131814524	10/01/78	16	41	18377	D	50.16	111.47	40	EEEE	NO		CCCL	LLLL	27.32 N	080.22 W	290079	230
2135306121	10/29/78	176	41	18860	D	44.13	129.64	0	EEEE	NO		CCCL	HHLL	27.33 N	050.25 E	290080	464
2135206063	10/22/78	175	41	18846	D	44.35	129.18	0	EEEF	NO		CCCL	HHLL	27.33 N	051.68 E	290080	327
2134004571	10/21/78	163	41	18678	D	46.80	123.26	10	EEEE	NO		CCCL	LLLL	27.33 N	068.89 E	290080	117
2136003261	10/29/78	147	41	18956	D	42.56	132.60	20	EEFE	NO		CCCL	LLLL	27.33 N	091.84 F	290080	578
2135214425	10/15/78	14	41	18851	D	44.27	129.33	60	EEFE	NO		CCCL	HHLL	27.33 N	077.37 W	290080	257
2133414420	10/07/78	14	41	18600	D	47.80	120.29	40	EEEE	NO		CCCL	HHLL	27.33 N	077.39 W	290079	433
2135314483	10/15/78	15	41	18865	D	44.05	129.79	50	EEEE	NO		CCCL	HHLL	27.33 N	078.82 W	290080	276
2133614534	10/07/78	16	41	18628	D	47.46	121.35	40	EEEE	NO		CCCL	LLLL	27.33 N	080.25 W	290079	422
2135414542	10/22/78	16	41	18879	D	43.82	130.25	30	EEEF	NO		CCCL	LLLL	27.33 N	080.26 W	290080	337
2133815051	10/07/78	18	41	18656	D	47.10	122.39	NA	MMMM	NO		CCCL	HHLL	27.33 N	083.11 W	0	0
2134816030	10/29/78	28	41	18796	D	45.11	127.50	20	EEEE	NO		CCCL	LLLL	27.33 N	097.45 W	290080	161
2135016143	10/22/78	30	41	18824	D	44.69	128.45	60	EEEE	NO		CCCL	LLLL	27.33 N	100.31 W	290080	203
2136402053	10/29/78	133	40	19011	D	40.80	135.35	0	EEEE	NO		CCCL	LLLL	28.75 N	112.34 E	290080	554
2135506232	10/29/78	178	40	18888	D	42.93	131.86	0	EEFE	NO		CCCL	HHLL	28.76 N	047.76 E	290080	468
2135306115	10/29/78	176	40	18860	D	43.40	130.98	10	EEEE	NO		CCCL	HHLL	28.76 N	050.65 E	290080	463
2134004564	10/21/78	163	40	18678	D	46.21	124.81	20	EEEE	NO		CCCL	LLLL	28.76 N	069.29 E	290080	116
2128604540	10/01/78	163	40	17925	D	53.21	097.67	20	EEEE	NO		CCCL	LLLL	28.76 N	069.31 F	290079	106
2133904505	10/21/78	162	40	18664	D	46.41	124.30	10	FPEE	NO		CCCL	LLLL	28.76 N	070.71 F	290080	101
2135704514	10/29/78	162	40	18915	D	42.47	132.67	0	EEEE	NO		CCCL	LLLL	28.76 N	070.72 F	290080	357
2136003254	10/29/78	147	40	18956	D	41.76	133.86	30	EEFE	NO		CCCL	LLLL	28.76 N	092.25 E	290080	507
2134602045	10/22/78	133	40	18760	D	45.00	127.69	0	EEEE	NO		CCCL	LLLL	28.76 N	112.32 E	290080	179
2136301595	10/29/78	132	40	18997	D	41.05	134.97	10	EEEE	NO		CCCL	LLLL	28.76 N	113.75 E	290080	403
2134501590	10/07/78	132	40	18746	D	45.23	127.18	30	PFEE	NO		CCCL	LLLL	28.76 N	113.77 E	290080	403
2131814522	10/01/78	16	40	18377	D	49.86	113.31	20	EEEF	NO		CCCL	LLLL	28.76 N	079.83 W	290079	698
2133614531	10/07/78	16	40	18628	D	46.92	122.94	30	EEEE	NO		CCCL	LLLL	28.76 N	079.83 W	290079	229
2133915103	10/08/78	19	40	18670	D	46.34	124.48	NA	2222	NO		CCCL	LLLL	28.76 N	084.16 W	0	0
2134215275	10/08/78	22	40	18712	D	45.72	126.02	60	EEEE	NO		CCCL	LLLL	28.76 N	088.44 W	290079	712
2134816023	10/29/78	28	40	18796	D	44.43	128.91	10	EEEF	NO		CCCL	LLLL	28.76 N	097.05 W	290080	160
2135016140	10/22/78	30	40	18824	D	43.99	129.83	70	EEEE	NO		CCCL	LLLL	28.76 N	099.91 W	290080	202
2135116195	10/22/78	31	40	18838	D	43.77	130.26	40	EEEE	NO		CCCL	LLLL	28.76 N	101.34 W	290080	317
2133416245	10/07/78	32	40	18601	D	47.27	121.96	10	EEEE	NO		CCCL	LLLL	28.76 N	102.81 W	290079	320
2135414540	10/22/78	16	40	18879	D	43.08	131.57	40	EEEE	NO		CCCL	LLLL	28.77 N	079.86 W	290080	336
2136402051	10/29/78	133	39	19011	D	39.95	136.51	0	EEEF	NO		CCCL	LLLL	30.18 N	112.75 E	290080	553
2135704511	10/29/78	162	39	18915	D	41.68	133.93	0	EEEE	NO		CCCL	LLLL	30.19 N	071.13 E	290080	356

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2134702101	10/08/78	134	39	18774	D	44.10	129.56	0	FFFE	NO			CCCL LLLL	30.19 N	111.31 E	290080	25
213402042	10/22/78	133	39	18760	D	44.32	129.12	0	EEEE	NO			CCCL LLLL	30.19 N	112.73 E	290080	178
2136301592	10/29/78	132	39	18997	D	40.22	136.14	0	EEEE	NO			CCCL LLLL	30.19 N	114.17 E	290079	402
2134501584	10/07/78	132	39	18746	D	44.56	128.61	10	EEEE	NO			CCCL LLLL	30.19 N	119.91 E	290080	697
2135901361	10/29/78	128	39	18941	D	41.23	134.64	40	EEEE	NO			CCCL LLLL	30.19 N	119.92 F	290079	383
2128701325	10/01/78	128	39	17937	D	53.18	100.10	40	EEEE	NO			CCCL LLLL	30.19 N	121.32 E	290079	621
2134001294	10/07/78	127	39	18676	D	45.63	126.25	90	2EFE	NO			CCCL LLLL	30.19 N	121.34 E	290079	249
2123201243	10/07/78	127	39	17170	D	56.06	093.69	80	EEEE	NO			CCCL LLLL	30.19 N	079.42 W	290079	465
2131814515	10/01/78	16	39	18377	D	49.51	115.15	10	EEEE	NO			CCCL LLLL	30.19 N	079.42 W	290079	228
2133614525	10/07/78	16	39	18628	D	46.35	124.51	30	EEEE	NO			CCCL LLLL	30.19 N	080.88 W	290079	420
2133714583	10/07/78	17	39	18642	D	46.15	125.00	20	EEEE	NO			CCCL LLLL	30.19 N	088.03 W	290079	557
2134215273	10/08/78	22	39	18712	D	45.08	127.50	NA	MMMM	NO			CCCL LLLL	30.19 N	090.91 W	0	0
2134415390	10/08/78	24	39	18740	D	44.64	128.43	NA	MMMM	NO			CCCL LLLL	30.19 N	093.78 W	0	0
2134615503	10/08/78	26	39	18768	D	44.19	129.38	NA	2222	NO			CCCL LLLL	30.19 N	096.65 W	290080	159
2134816021	10/29/78	28	39	18796	D	43.73	130.29	0	EEEE	NO			CCCL LLLL	30.19 N	099.51 W	290080	201
2135016134	10/22/78	30	39	18824	D	43.26	131.18	50	EEEE	NO			CCCL LLLL	30.19 N	100.94 W	290080	316
2135116193	10/22/78	31	39	18838	D	43.03	131.60	30	EEEE	NO			CCCL LLLL	30.19 N	105.26 W	290079	375
2133616360	10/07/78	34	39	18629	D	46.33	124.54	60	EEEE	NO			CCCL LLLL	30.19 N	106.67 W	290079	597
2133716415	10/07/78	35	39	18643	D	46.13	125.04	10	EEEE	NO			CCCL LLLL	30.19 N	048.17 E	290080	467
2135506230	10/29/78	178	39	18888	D	42.15	133.14	0	EEFE	NO			CCCL HHLL	30.20 N	071.12 E	290080	100
2133904502	10/21/78	162	39	18664	D	45.81	125.83	20	MFMM	NO			CCCL LLLL	30.20 N	119.87 E	290080	40
2134101355	10/07/78	128	39	18690	D	45.42	126.73	30	PEFE	NO			CCCL LLLL	30.20 N	121.31 F	0	0
2135801303	10/29/78	127	39	18927	D	41.46	134.27	NA	MMMM	NO			CCCL LLLL	30.20 N	079.43 W	290080	355
2135414533	10/22/78	16	39	18879	D	42.32	132.86	50	EEEE	NO			CCCL LLLL	30.20 N	083.75 W	290080	10
2135915101	10/08/78	19	39	18670	D	45.73	126.01	30	EEEE	NO			CCCL LLLL	30.20 N	096.66 W	290079	284
2133016012	10/07/78	28	39	18545	D	47.48	121.50	100	EEEE	NO			CCCL LLLL	30.20 N	102.40 W	290079	319
2133416243	10/07/78	32	39	18601	D	46.72	123.56	20	EEEE	NO			CCCL LLLL	30.20 N	093.83 W	0	0
2120215434	10/01/78	26	39	16760	D	53.88	102.69	NA	666M	NO			CCCL LLLL	30.21 N	113.17 E	290080	552
2136402044	10/29/78	133	38	19011	D	39.09	137.64	0	EEEE	NO			CCCL LLLL	31.61 N	120.34 F	0	0
2128701323	10/01/78	128	38	17937	D	53.16	102.22	NA	MMMM	NO			CCCL LLLL	31.61 N	107.67 W	290080	352
2135616480	10/22/78	36	38	18908	D	41.02	134.92	20	EEEE	NO			CCCL LLLL	31.61 N	110.54 W	290079	197
2128616561	10/07/78	38	38	17932	D	53.20	102.08	10	EEEE	NO			CCCL LLLL	31.61 N	114.85 W	290079	56
2130717142	10/29/78	41	38	18225	D	50.76	111.40	20	EEEE	NO			CCCL LLLL	31.61 N	051.46 E	290080	143
2133506101	10/29/78	176	38	18609	D	46.02	125.41	0	EEEE	NO			CCCL LLLL	31.62 N	071.55 E	290080	355
2135704505	10/29/78	162	38	18915	D	40.87	135.15	0	EEEE	NO			CCCL LLLL	31.62 N	074.43 E	290080	466
2135504391	10/29/78	160	38	18887	D	41.38	134.36	0	EEFE	NO			CCCL LLLL	31.62 N	111.73 E	290080	24
2134702095	10/08/78	134	38	18774	D	43.38	130.94	0	FFFE	NO			CCCL LLLL	31.62 N	113.15 E	290080	177
213402040	10/22/78	133	38	18760	D	43.61	130.50	0	EEEE	NO			CCCL LLLL	31.62 N	114.57 E	290080	401
2136301590	10/29/78	132	38	18997	D	39.36	137.28	0	FFFF	NO			CCCL LLLL	31.62 N	114.59 E	290079	696
2134501581	10/07/78	132	38	18746	D	43.86	130.02	20	FEFE	NO			CCCL LLLL				

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2135901355	10/29/78	128	38	18941	D	40.40	135.84	10	EEEE	NO		CCCL	LLLL	31.62 N	120.33 E	290080	382
2134001292	10/07/78	127	38	18676	D	44.98	127.73	NA	2222	NO		CCCL	LLLL	31.62 N	121.75 E	0	0
2123201240	10/07/78	127	38	17170	D	56.20	096.01	70	EEEE	NO		CCCL	LLLL	31.62 N	121.76 E	290079	464
2131614513	10/01/78	16	38	18377	D	49.12	116.96	10	EEEE	NO		CCCL	LLLL	31.62 N	079.00 W	290079	227
2133614522	10/07/78	16	38	18628	D	45.74	126.04	20	EEEE	NO		CCCL	LLLL	31.62 N	079.01 W	290079	419
2135414531	10/22/78	16	38	18879	D	41.53	134.13	20	EEEE	NO		CCCL	LLLL	31.62 N	079.03 W	290080	334
2133815035	10/07/78	18	38	18656	D	45.31	127.02	30	EEEE	NO		CCCL	LLLL	31.62 N	081.89 W	290079	567
2134215270	10/08/78	22	38	18712	D	44.41	128.92	90	EEEE	NO		CCCL	LLLL	31.62 N	087.62 W	290079	711
2134315325	10/08/78	23	38	18726	D	44.19	129.37	NA	MMMM	NO		CCCL	LLLL	31.62 N	089.06 W	0	0
2134415384	10/08/78	24	38	18740	D	43.95	129.84	90	FEFF	NO		CCCL	LLLL	31.62 N	090.50 W	290079	797
2134615501	10/08/78	26	38	18768	D	43.47	130.76	40	EEEE	NO		CCCL	LL	31.62 N	093.36 W	290079	768
2134816014	10/29/78	28	38	18796	D	42.99	131.64	0	EEEE	NO		CCCL	LLLL	31.62 N	096.23 W	290080	158
2135016131	10/22/78	30	38	18824	D	42.50	132.51	20	EEEE	NO		CCCL	LLLL	31.62 N	099.10 W	290080	200
2135116190	10/22/78	31	38	18838	D	42.26	132.91	10	EEEE	NO		CCCL	LLLL	31.62 N	100.53 W	290080	315
2133716412	10/07/78	35	38	18643	D	45.51	126.56	10	EEEE	NO		CCCL	LLLL	31.62 N	106.27 W	290079	596
2133816471	10/21/78	36	38	18657	D	45.29	127.05	90	EEEE	NO		CCCL	LLLL	31.62 N	107.70 W	290080	87
2135816593	10/29/78	38	38	18936	D	40.49	135.71	0	FEFF	NO		CCCL	LLLL	31.62 N	110.56 W	290080	539
2134016584	10/07/78	38	38	18685	D	44.84	128.03	20	EEEE	NO		CCCL	LLLL	31.62 N	110.57 W	290079	583
2134217102	10/07/78	40	38	18713	D	44.39	128.96	10	PEFF	NO		CCCL	LLLL	31.62 N	113.45 W	290079	671
2136017110	10/29/78	40	38	18964	D	39.97	136.46	10	EEFF	NO		CCCL	LLLL	31.62 N	113.45 W	290080	456
2134317160	10/07/78	41	38	18727	D	44.16	129.44	10	EEEE	NO		CCCL	LLLL	31.62 N	114.88 W	290080	70
2134417215	10/08/78	42	38	18741	D	43.94	129.87	10	EEEE	NO		CCCL	LLLL	31.62 N	116.31 W	290079	756
2133606160	10/07/78	177	38	18623	D	45.80	125.90	10	EEEE	NO		CCCL	LLLL	31.63 N	050.01 E	290079	360
2133406043	10/07/78	175	38	18595	D	46.22	124.92	0	EEEE	NO		CCCL	LLLL	31.63 N	052.89 E	290079	341
2133904500	10/21/78	162	38	18664	D	45.17	127.32	10	EEFF	NO		CCCL	LLLL	31.63 N	071.54 E	290080	99
2134101351	10/07/78	128	38	18690	D	44.77	128.19	20	FEFF	NO		CCCL	LLLL	31.63 N	120.28 E	290080	39
2135801300	10/29/78	127	38	18927	D	40.64	135.48	NA	MMMM	NO		CCCL	LLLL	31.63 N	121.73 E	0	0
2133714581	10/07/78	17	38	18642	D	45.53	126.53	40	EEFF	NO		CCCL	LLLL	31.63 N	080.46 W	290079	556
2133915094	10/08/78	19	38	18670	D	45.09	127.50	40	EEEE	NO		CCCL	LLLL	31.63 N	083.33 W	290080	9
2133016005	10/07/78	28	38	18545	D	46.94	123.12	80	EEEE	NO		CCCL	LLLL	31.63 N	096.25 W	290079	283
2133216123	10/07/78	30	38	18573	D	46.55	124.12	70	EEEE	NO		CCCL	LLLL	31.63 N	099.11 W	290079	638
2133416240	10/07/78	32	38	18601	D	46.14	125.12	10	EEEE	NO		CCCL	LLLL	31.63 N	101.98 W	290079	318
2133616354	10/07/78	34	38	18629	D	45.72	126.08	70	EEFF	NO		CCCL	LLLL	31.63 N	104.85 W	290079	374
2120215432	10/01/78	26	38	18760	D	53.80	104.84	90	EEFF	NO		CCCL	LLLL	31.64 N	093.42 W	290079	56
2136402042	10/29/78	132	37	19011	D	38.20	138.75	0	EEEE	NO		CCCL	LLLL	33.04 N	113.60 E	290080	551
2135901352	10/29/78	128	37	18941	D	39.55	137.02	10	EEEE	NO		CCCL	LLLL	33.04 N	120.76 E	290080	387
2128701320	10/01/78	128	37	17937	D	53.10	104.32	NA	MMMM	NO		CCCL	LLLL	33.04 N	120.77 E	0	0
2135616473	10/22/78	36	37	18908	D	40.19	136.12	10	EEFF	NO		CCCL	LLLL	33.04 N	107.25 W	290080	351
2128616554	10/01/78	38	37	17932	D	53.14	104.20	10	EEEE	NO		CCCL	LLLL	33.04 N	110.12 W	290079	196
2135816590	10/29/78	38	37	18936	D	39.65	136.88	0	EEFF	NO		CCCL	LLLL	33.04 N	110.12 W	290080	538

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133506095	10/29/78	176	37	18609	D	45.39	126.93	0	EEEE	NO		CCCL	LLLL	33.05 N	051.89 E	290080	142
2133904494	10/21/78	162	37	18664	D	44.50	128.79	10	EEEE	NO		CCCL	LLLL	33.05 N	071.96 E	290080	98
2135704502	10/29/78	162	37	18915	D	40.04	136.34	0	EEEE	NO		CCCL	LLLL	33.05 N	071.97 F	290080	354
2134702092	10/08/78	134	37	18774	D	42.63	132.28	0	FFEE	NO		CCCL	LLLL	33.05 N	112.15 F	290080	23
2134602033	10/22/78	133	37	18760	D	42.88	131.85	0	EEEE	NO		CCCL	LLLL	33.05 N	113.57 E	290080	176
2136301583	10/29/78	132	37	18997	D	38.48	138.41	0	FEFE	NO		CCCL	LLLL	33.05 N	115.02 E	290080	400
2134501575	10/07/78	132	37	18746	D	43.13	131.41	50	FEFF	NO		CCCL	LLLL	33.05 N	115.02 E	290079	695
2131814510	10/01/78	16	37	18377	D	48.69	118.73	30	EEEE	NO		CCCL	LLLL	33.05 N	078.58 W	290079	226
2133614520	10/07/78	16	37	18628	D	45.10	127.55	10	EEEE	NO		CCCL	LLLL	33.05 N	078.58 W	290079	418
2135414524	10/22/78	16	37	18879	D	40.71	135.36	10	EEEE	NO		CCCL	LLLL	33.05 N	078.60 W	290080	333
2133714574	10/07/78	17	37	18642	D	44.87	128.03	70	EEFE	NO		CCCL	LLLL	33.05 N	080.04 W	290079	555
2133815033	10/07/78	18	37	18656	D	44.64	128.50	30	EEFE	NO		CCCL	LLLL	33.05 N	081.47 W	290079	566
2133915092	10/08/78	19	37	18670	D	44.41	128.96	30	EEEE	NO		CCCL	LLLL	33.05 N	082.90 W	290080	8
2134215264	10/08/78	22	37	18712	D	43.71	130.32	80	EEEE	NO		CCCL	LLLL	33.05 N	087.19 W	290079	710
2134315322	10/08/78	23	37	18726	D	43.48	130.76	70	EEEE	NO		CCCL	LLLL	33.05 N	088.63 W	290079	778
2134415381	10/08/78	24	37	18740	D	43.25	131.22	100	EEEE	NO		CCCL	LLLL	33.05 N	090.07 W	290079	796
2134615494	10/08/78	26	37	18768	D	42.74	132.09	60	EEEE	NO		CCCL	LLLL	33.05 N	092.94 W	290079	767
2134816012	10/29/78	28	37	18796	D	42.23	132.96	0	EEEE	NO		CCCL	LLLL	33.05 N	095.81 W	290080	157
2133216120	10/07/78	30	37	18573	D	45.95	125.69	20	EEEE	NO		CCCL	LLLL	33.05 N	098.68 W	290079	637
2135016125	10/22/78	30	37	18824	D	41.72	133.80	40	EEEE	NO		CCCL	LLLL	33.05 N	098.68 W	290080	199
2135116184	10/22/78	31	37	18838	D	41.47	134.20	0	EEEE	NO		CCCL	LLLL	33.05 N	100.10 W	290080	314
2133316175	10/07/78	31	37	18587	D	45.74	126.17	10	EEEE	NO		CCCL	LLLL	33.05 N	100.11 W	290079	456
2133416234	10/07/78	32	37	18601	D	45.52	126.66	10	EEEE	NO		CCCL	LLLL	33.05 N	101.55 W	290079	317
2133716410	10/07/78	35	37	18643	D	44.86	128.05	30	EEEE	NO		CCCL	LLLL	33.05 N	105.86 W	290079	595
2133816465	10/21/78	36	37	18657	D	44.63	128.52	90	EEEE	NO		CCCL	LLLL	33.05 N	107.28 W	290080	86
2134016582	10/07/78	38	37	18685	D	44.16	129.46	40	EEEE	NO		CCCL	LLLL	33.05 N	110.15 W	290079	582
2134217095	10/07/78	40	37	18713	D	43.68	130.38	10	PEFE	NO		CCCL	LLLL	33.05 N	113.02 W	290079	670
2136017104	10/29/78	40	37	18964	D	39.10	137.61	0	EEFF	NO		CCCL	LLLL	33.65 N	113.02 W	290080	455
2130717140	10/29/78	41	37	18225	D	50.47	113.33	20	FEFF	NO		CCCL	LLLL	33.05 N	114.44 W	290079	55
2134417213	10/08/78	42	37	18741	D	43.21	131.25	10	EEEE	NO		CCCL	LLLL	33.05 N	115.89 W	290079	755
2131017312	10/29/78	44	37	18267	D	50.01	114.79	10	FEFE	NO		CCCL	LLLL	33.05 N	118.75 W	290079	75
2133606153	10/07/78	177	37	18623	D	45.17	127.41	0	EEEE	NO		CCCL	LLLL	33.06 N	050.44 E	290079	359
2133406040	10/07/78	175	37	18595	D	45.61	126.46	0	EEEE	NO		CCCL	LLLL	33.06 N	053.31 E	290079	340
2134101344	10/07/78	128	37	18690	D	44.09	129.61	10	FEFF	NO		CCCL	LLLL	33.06 N	092.71 E	290080	38
2120215425	10/01/78	26	37	16760	D	53.67	107.00	50	FFFF	NO		CCCL	LLLL	33.06 N	092.98 W	290079	85
2133016003	10/07/78	28	37	18545	D	46.37	124.72	80	EEEE	NO		CCCL	LLLL	33.06 N	095.83 W	290079	282
2133616351	10/07/78	34	37	18629	D	45.09	127.58	90	EEEE	NO		CCCL	LLLL	33.06 N	104.43 W	290079	373
2134317154	10/07/78	41	37	18727	D	43.44	130.83	0	EEEE	NO		CCCL	LLLL	33.06 N	114.46 W	290080	69
2134717385	10/15/78	45	37	18783	D	42.48	132.55	70	EPEF	NO		CCCL	LLLL	33.06 N	120.20 W	290080	224
2128604522	10/01/78	163	36	17925	D	53.09	106.15	NA	EMFE	NO		CCCL	LLLL	34.47 N	071.00 E	290079	105

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2135901350	10/29/78	128	36	18941	D	38.68	138.15	20	EEEE	NO		CCCL	LLLL	34.47 N	121.20 E	290080	330
2128701314	10/01/78	128	36	17937	D	52.99	106.43	40	EEEE	NO		CCCL	LLLL	34.47 N	121.21 E	290079	152
2131814504	10/01/78	16	36	18377	D	48.23	120.47	40	EEEE	NO		CCCL	LLLL	34.47 N	078.14 W	290079	225
2133614513	10/07/78	16	36	18628	D	44.43	129.02	10	EEEE	NO		CCCL	LLLL	34.47 N	078.14 W	290079	417
2134215261	10/08/78	28	36	18712	D	42.99	131.70	20	EEEE	NO		CCCL	LLLL	34.47 N	086.75 W	290079	709
2135616471	10/22/78	36	36	18908	D	39.33	137.30	10	EEEE	NO		CCCL	LLLL	34.47 N	106.81 W	290080	350
2128616552	10/01/78	38	36	17932	D	53.03	106.31	20	EEEE	NO		CCCL	LLLL	34.47 N	109.68 W	290079	195
2135816584	10/29/78	38	36	18936	D	38.79	138.01	0	FEFF	NO		CCCL	LLLL	34.47 N	109.69 W	290080	537
2133606151	10/07/78	177	36	18623	D	44.51	128.88	0	EEEE	NO		CCCL	LLLL	34.48 N	050.88 E	290079	358
2133506092	10/29/78	176	36	18609	D	44.74	128.42	0	EEEE	NO		CCCL	LLLL	34.48 N	052.32 E	290080	141
2133406034	10/07/78	175	36	18595	D	44.97	127.96	0	FEFF	NO		CCCL	LLLL	34.48 N	053.75 E	290079	339
2133904491	10/21/78	162	36	18664	D	43.81	130.22	20	EEEE	NO		CCCL	LLLL	34.48 N	072.40 E	290080	97
2135704500	10/29/78	162	36	18915	D	39.18	137.50	0	EEEE	NO		CCCL	LLLL	34.48 N	072.41 E	290080	353
2136301581	10/29/78	132	36	18997	D	37.58	139.50	0	EEEE	NO		CCCL	LLLL	34.48 N	115.44 E	290080	399
2134501572	10/07/78	132	36	18746	D	42.37	132.76	10	FEFF	NO		CCCL	LLLL	34.48 N	115.45 E	290079	694
2135414522	10/22/78	16	36	18879	D	39.88	136.56	10	FEFF	NO		CCCL	LLLL	34.48 N	078.16 W	290080	332
2133714572	10/07/78	17	36	18642	D	44.19	129.50	40	EEEE	NO		CCCL	LLLL	34.48 N	079.60 W	290079	554
2133815030	10/07/78	18	36	18656	D	43.95	129.94	40	EEFF	NO		CCCL	LLLL	34.48 N	081.03 W	290079	565
2133915085	10/08/78	19	36	18670	D	43.71	130.39	20	EEEE	NO		CCCL	LLLL	34.48 N	082.46 W	290080	7
2134315320	10/08/78	23	36	18726	D	42.74	132.13	60	EEEE	NO		CCCL	LLLL	34.48 N	088.19 W	290079	777
2134415375	10/08/78	24	36	18740	D	42.48	132.57	90	EEFF	NO		CCCL	LLLL	34.48 N	089.64 W	290079	795
2134615492	10/08/78	26	36	18768	D	41.98	133.40	10	EEEE	NO		CCCL	LLLL	34.48 N	092.50 W	290079	766
2134816005	10/29/78	28	36	18796	D	41.45	134.25	0	EEEE	NO		CCCL	LLLL	34.48 N	095.37 W	290080	156
2133216114	10/07/78	30	36	18573	D	45.33	127.21	10	EEEE	NO		CCCL	LLLL	34.48 N	098.25 W	290079	636
2135016122	10/22/78	30	36	18824	D	40.92	135.05	30	EEEE	NO		CCCL	LLLL	34.48 N	098.25 W	290080	198
2133316173	10/07/78	31	36	18587	D	45.10	127.69	0	EEEE	NO		CCCL	LLLL	34.48 N	099.67 W	290079	455
2135116181	10/22/78	31	36	18838	D	40.66	135.44	10	EEEE	NO		CCCL	LLLL	34.48 N	099.67 W	290080	313
2133416231	10/07/78	32	36	18601	D	44.87	128.16	30	EEEE	NO		CCCL	LLLL	34.48 N	101.12 W	290079	316
2133716403	10/07/78	35	36	18643	D	44.18	129.50	60	EEEE	NO		CCCL	LLLL	34.48 N	105.42 W	290079	594
2133816462	10/21/78	36	36	18657	D	43.95	129.95	80	EEEE	NO		CCCL	LLLL	34.48 N	106.84 W	290080	85
2134016575	10/07/78	38	36	18685	D	43.46	130.86	40	EEFF	NO		CCCL	LLLL	34.48 N	109.73 W	290079	581
2134217093	10/07/78	40	36	18713	D	42.95	131.76	10	FEFF	NO		CCCL	LLLL	34.48 N	112.58 W	290079	669
2136017101	10/29/78	40	36	18964	D	38.22	138.72	0	EEFF	NO		CCCL	LLLL	34.48 N	112.58 W	290080	454
2130717133	10/29/78	41	36	18225	D	50.14	115.23	10	EEFF	NO		CCCL	LLLL	34.48 N	114.01 W	290079	54
2134317151	10/07/78	41	36	18727	D	42.71	132.19	10	EEEE	NO		CCCL	LLLL	34.48 N	114.03 W	290080	68
2134417210	10/08/78	42	36	18741	D	42.47	132.59	10	EEEE	NO		CCCL	LLLL	34.48 N	115.45 W	290079	754
2131017305	10/29/78	44	36	18267	D	49.64	116.65	10	EEEE	NO		CCCL	LLLL	34.48 N	118.30 W	290079	74
2134717382	10/15/78	45	36	18783	D	41.70	133.85	30	EEFF	NO		CCCL	LLLL	34.48 N	119.77 W	290080	223
2134101342	10/07/78	128	36	18690	D	43.37	131.01	0	PEFF	NO		CCCL	LLLL	34.49 N	121.15 E	290080	37
2120215423	10/01/78	26	36	16760	D	53.50	109.14	NA	MMMM	NO		CCCL	LLLL	34.49 N	092.54 W	0	0

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133016000	10/07/78	24	36	18545	D	45.77	126.27	80	EEEE	NO		CCCL	LLLL	34.49 N	095.39 W	290079	281
2133616345	10/07/78	34	36	18629	D	44.42	129.05	90	EEFE	NO		CCCL	LLLL	34.49 N	104.00 W	290079	372
2128701311	10/01/78	128	35	17937	D	52.83	108.54	30	EEEE	NO		CCCL	LLLL	35.89 N	121.65 E	290079	151
2133706203	10/07/78	178	35	18637	D	43.58	130.76	10	EEEE	NO		CCCL	LLLL	35.90 N	049.91 E	290079	604
2128604520	10/01/78	163	35	17925	D	52.94	108.26	10	EEEE	NO		CCCL	LLLL	35.90 N	071.44 E	290079	104
2134501570	10/07/78	132	35	18746	D	41.59	134.06	0	EEEE	NO		CCCL	LLLL	35.90 N	115.89 E	290079	693
2135901343	10/29/78	128	35	18941	D	37.79	139.26	30	EEEE	NO		CCCL	LLLL	35.90 N	121.65 E	290080	379
2131814501	10/01/78	16	35	18377	D	47.73	122.18	50	EEFE	NO		CCCL	LLLL	35.90 N	077.70 W	290079	224
2133614511	10/07/78	16	35	18628	D	43.74	130.46	10	EEEE	NO		CCCL	LLLL	35.90 N	077.70 W	290079	416
2133915083	10/08/78	19	35	18670	D	42.98	131.79	20	EEEE	NO		CCCL	LLLL	35.90 N	082.01 W	290080	6
2128615113	10/07/78	20	35	17931	D	52.89	108.39	30	EEEE	NO		CCCL	LLLL	35.90 N	083.42 W	290079	299
2134215255	10/08/78	22	35	18712	D	42.23	133.04	20	EEEE	NO		CCCL	LLLL	35.90 N	086.30 W	290079	708
2134315313	10/08/78	23	35	18726	D	41.97	133.47	30	EEEE	NO		CCCL	LLLL	35.90 N	087.75 W	290079	776
2134415372	10/08/78	24	35	18740	D	41.71	133.88	30	EEEE	NO		CCCL	LLLL	35.90 N	089.18 W	290079	794
2134615485	10/08/78	26	35	18768	D	41.19	134.69	10	EEEE	NO		CCCL	LLLL	35.90 N	092.05 W	290079	765
2135616464	10/22/78	36	35	18908	D	38.45	138.45	10	EEFE	NO		CCCL	LLLL	35.90 N	106.37 W	290080	349
2128616545	10/01/78	38	35	17932	D	52.88	108.43	10	EEEE	NO		CCCL	LLLL	35.90 N	109.25 W	290079	194
2135816581	10/29/78	38	35	18936	D	37.91	139.12	0	EEFE	NO		CCCL	LLLL	35.90 N	109.25 W	290080	536
2130717131	10/29/78	41	35	18225	D	49.76	117.11	10	EEEE	NO		CCCL	LLLL	35.90 N	113.56 W	290079	53
2131017303	10/29/78	44	35	18267	D	49.23	118.48	0	EEEE	NO		CCCL	LLLL	35.90 N	117.86 W	290079	73
2131217420	10/07/78	46	35	18295	D	48.86	119.44	10	EEFE	NO		CCCL	LLLL	35.90 N	120.72 W	290079	84
2133606144	10/07/78	177	35	18623	D	43.81	130.33	10	EEEE	NO		CCCL	LLLL	35.91 N	051.33 E	290079	357
2133506090	10/29/78	176	35	18609	D	44.06	129.88	10	EEEE	NO		CCCL	LLLL	35.91 N	052.77 E	290080	140
2133406031	10/07/78	175	35	18595	D	44.30	129.44	0	EEEE	NO		CCCL	LLLL	35.91 N	054.20 E	290079	338
2136301574	10/29/78	132	35	18997	D	36.67	140.55	0	EEFE	NO		CCCL	LLLL	35.91 W	115.89 E	290080	398
2134101335	10/07/78	128	35	18690	D	42.63	132.38	0	PFEE	NO		CCCL	LLLL	35.91 N	121.60 E	290080	36
2135414515	10/27/78	16	35	18879	D	39.03	137.72	10	EEFE	NO		CCCL	LLLL	35.91 N	077.71 W	290080	331
2133714565	10/07/78	17	35	18642	D	43.49	130.91	80	EEEE	NO		CCCL	LLLL	35.91 N	079.15 W	290079	553
2133815024	10/07/78	18	35	18656	D	43.24	131.35	80	EEFE	NO		CCCL	LLLL	35.91 N	080.59 W	290079	564
2134816003	10/29/78	28	35	18796	D	40.64	135.50	10	EEEE	NO		CCCL	LLLL	35.91 N	094.92 W	290080	155
2133015594	10/07/78	28	35	18545	D	45.14	127.80	90	EEEE	NO		CCCL	LLLL	35.91 N	094.95 W	290079	280
2134916062	10/22/78	29	35	18810	D	40.37	135.89	10	EEEE	NO		CCCL	LLLL	35.91 N	096.37 W	290080	187
2133216111	10/07/78	30	35	18575	D	44.67	128.71	10	EEEE	NO		CCCL	LLLL	35.91 N	097.79 W	290079	635
2135016120	10/22/78	30	35	18824	D	40.10	136.28	30	EEFE	NO		CCCL	LLLL	35.91 N	097.80 W	290080	197
2133316170	10/07/78	31	35	18587	D	44.43	129.18	10	EEEE	NO		CCCL	LLLL	35.91 N	099.23 W	290079	454
2135116175	10/22/78	31	35	18838	D	39.83	136.65	0	EEEE	NO		CCCL	LLLL	35.91 N	099.23 W	290080	312
2133416225	10/07/78	32	35	18601	D	44.19	129.62	40	EEEE	NO		CCCL	LLLL	35.91 N	100.67 W	290079	315
2133616342	10/07/78	34	35	18629	D	43.72	130.50	40	EEEE	NO		CCCL	LLLL	35.91 N	103.55 W	290079	371
2133716401	10/07/78	35	35	18643	D	43.48	130.93	50	EEEE	NO		CCCL	LLLL	35.91 N	104.97 W	290079	593
2133816460	10/21/78	36	35	18657	D	43.24	131.35	20	EEEE	NO		CCCL	LLLL	35.91 N	106.40 W	290080	84

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2134016573	10/07/78	38	35	18685	D	42.72	132.25	30	EEEE	NO		CCCL	LLLL	35.91 N	109.29 W	290079	580
2136017095	10/29/78	40	35	18964	D	37.33	139.81	0	EEFF	NO		CCCL	LLLL	35.91 N	112.13 W	290080	453
2134217090	10/07/78	40	35	18713	D	42.20	133.10	10	FFFF	NO		CCCL	LLLL	35.91 N	112.14 W	290079	668
2134317145	10/07/78	41	35	18727	D	41.94	133.52	10	EEEE	NO		CCCL	LLLL	35.91 N	113.58 W	290080	67
2134417204	10/08/78	42	35	18741	D	41.69	133.91	20	EEEE	NO		CCCL	LLLL	35.91 N	115.01 W	290079	753
2134717380	10/15/78	45	35	18783	D	40.90	135.12	0	EEEE	NO		CCCL	LLLL	35.91 N	119.32 W	290080	222
2133117484	10/29/78	47	35	18560	D	44.89	128.29	50	EEEE	NO		CCCL	LLLL	35.91 N	122.20 W	290079	293
2120215420	10/01/78	26	35	16760	D	53.27	111.28	NA	MMMM	NO		CCCL	LLLL	35.92 W	092.10 W		0
2136001400	10/29/78	129	34	18955	D	36.60	140.67	0	EEFF	NO		CCCL	LLLL	37.32 N	120.67 E	290080	501
2135901341	10/29/78	128	34	18941	D	36.89	140.35	20	EEEE	NO		CCCL	LLLL	37.32 N	122.11 E	290080	378
2128701305	10/01/78	128	34	17937	D	52.63	110.65	70	EEFF	NO		CCCL	LLLL	37.32 N	122.12 E	290079	150
2128615111	10/07/78	20	34	17931	D	52.68	110.51	30	EEEE	NO		CCCL	LLLL	37.32 N	082.96 W	290079	298
2134215252	10/08/78	22	34	18712	D	41.45	134.36	10	EEEE	NO		CCCL	LLLL	37.32 N	085.83 W	290079	707
2128616543	10/01/78	38	34	17932	D	52.67	110.54	10	EEEE	NO		CCCL	LLLL	37.32 N	108.78 W	290079	193
2135816575	10/29/78	38	34	18936	D	37.00	140.22	0	EEFF	NO		CCCL	LLLL	37.32 N	104.78 W	290080	535
2131217414	10/07/78	46	34	18295	D	48.39	121.21	10	EEEE	NO		CCCL	LLLL	37.32 N	120.26 W	290079	83
2133806255	10/21/78	179	34	18651	D	42.59	132.58	30	FEFF	NO		CCCL	LLLL	37.33 N	048.94 E	290079	519
2133706201	10/07/78	178	34	18637	D	42.84	132.16	60	FEFF	NO		CCCL	LLLL	37.33 N	050.37 E	290079	603
2133506083	10/29/78	176	34	18609	D	43.35	131.31	20	EEEE	NO		CCCL	LLLL	37.33 N	053.25 E	290080	139
2134501563	10/07/78	132	34	18746	D	40.80	135.34	10	FEFF	NO		CCCL	LLLL	37.33 N	116.35 E	290079	692
2136301572	10/29/78	132	34	18997	D	35.74	141.59	0	EEEE	NO		CCCL	LLLL	37.33 N	116.35 E	290080	397
2134201391	10/07/78	129	34	18704	D	41.61	134.13	10	FFFF	NO		CCCL	LLLL	37.33 N	120.65 E	290080	51
2132410144	10/01/78	219	34	18458	D	45.93	126.52	0	EEFF	NO		CCCL	LLLL	37.33 N	008.40 W	290079	233
2134210153	10/07/78	219	34	18709	D	41.50	134.30	10	FEFF	NO		CCCL	LLLL	37.33 N	008.41 W	290079	656
2131814495	10/01/78	16	34	18377	D	47.20	123.87	20	FEFF	NO		CCCL	LLLL	37.33 N	077.25 W	290079	223
2133614504	10/07/78	16	34	18628	D	43.01	131.87	30	EEFF	NO		CCCL	LLLL	37.33 N	077.25 W	290079	415
2135414513	10/22/78	16	34	18879	D	38.15	138.86	10	EEFF	NO		CCCL	LLLL	37.33 N	077.25 W	290080	330
2133714563	10/07/78	17	34	18642	D	42.76	132.30	90	EEFF	NO		CCCL	LLLL	37.33 N	078.69 W	290079	552
2133815021	10/07/78	18	34	18656	D	42.50	132.73	80	EEFF	NO		CCCL	LLLL	37.33 N	080.12 W	290079	563
2133915080	10/08/78	19	34	18670	D	42.23	133.15	80	FEFF	NO		CCCL	LLLL	37.33 N	081.54 W	290080	5
2134015135	10/07/78	20	34	18684	D	41.98	133.55	NA	2222	NO		CCCL	LLLL	37.33 N	082.98 W		0
2134315311	10/08/78	23	34	18726	D	41.19	134.77	0	EEEE	NO		CCCL	LLLL	37.33 N	087.27 W	290079	775
2134415370	10/08/78	24	34	18740	D	40.92	135.16	10	EEEE	NO		CCCL	LLLL	37.33 N	088.72 W	290079	793
2134615483	10/08/78	26	34	18768	D	40.37	135.95	10	EEEE	NO		CCCL	LLLL	37.33 N	091.58 W	290079	764
2134816000	10/29/78	28	34	18796	D	39.81	136.73	0	EEFF	NO		CCCL	LLLL	37.33 N	094.46 W	290080	154
2134916055	10/22/78	29	34	18810	D	39.54	137.10	10	FEFF	NO		CCCL	LLLL	37.33 N	095.90 W	290080	186
2133216105	10/07/78	30	34	18573	D	43.99	130.19	10	FEFF	NO		CCCL	LLLL	37.33 N	097.34 W	290079	634
2135016113	10/22/78	30	34	18824	D	39.25	137.47	10	EEFF	NO		CCCL	LLLL	37.33 N	097.34 W	290080	198
2133316164	10/07/78	31	34	18587	D	43.74	130.63	10	EEEE	NO		CCCL	LLLL	37.33 N	098.77 W	290079	453
2135116172	10/22/78	31	34	18838	D	38.97	137.84	0	EEEE	NO		CCCL	LLLL	37.33 N	098.77 W	290080	311

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2133416222	10/07/78	32	34	18601	D	43.49	131.06	50	EEEE	NO							
2133716394	10/07/78	35	34	18643	D	42.75	132.31	70	FEZE	NO				37.33 N	100.21 W	290079	314
2135616462	10/22/78	36	34	18908	D	37.57	139.57	10	EEEE	NO				37.33 N	104.50 W	290079	592
2133816453	10/21/78	36	34	18657	D	42.49	132.73	0	EEEE	NO				37.33 N	105.92 W	290080	348
2136017092	10/29/78	40	34	18964	D	36.41	140.87	0	EEEE	NO				37.33 N	105.94 W	290080	83
2134217084	10/07/78	40	34	18713	D	41.42	134.41	10	FEFE	NO				37.33 N	111.67 W	290080	452
2130717124	10/29/78	41	34	18225	D	49.34	118.95	10	EEEE	NO				37.33 N	111.68 W	290079	667
2134317142	10/07/78	41	34	18727	D	41.15	134.82	10	EEEE	NO				37.33 N	113.10 W	290079	52
2134417201	10/08/78	42	34	18741	D	40.29	135.21	20	EEEE	NO				37.33 N	113.12 W	290080	66
2131017300	10/29/78	44	34	18267	D	48.78	120.30	0	EEEE	NO				37.33 N	114.53 W	290079	752
2133606142	10/07/78	177	34	18623	D	43.09	131.75	80	EFPE	NO				37.33 N	117.39 W	290079	72
2133404025	10/07/78	175	34	18595	D	43.60	130.88	10	EEEE	NO				37.34 N	051.79 E	290079	356
2134101333	10/07/78	128	34	18690	D	41.87	133.73	10	FEFF	NO				37.34 N	054.66 E	290079	337
2120215413	10/01/78	26	34	16760	D	52.99	113.40	NA	MMMM	NO				37.34 N	122.06 E	290080	35
2133015591	10/07/78	28	34	18545	D	44.47	129.30	NO	EEEE	NO				37.34 N	091.63 W	0	0
2133616340	10/07/78	34	34	18629	D	43.00	131.90	20	EEEE	NO				37.34 N	094.48 W	290079	279
2134016570	10/07/78	38	34	18685	D	41.96	133.59	10	EEEE	NO				37.34 N	103.09 W	290079	370
2134717373	10/15/78	45	34	18783	D	40.08	136.36	0	FEFE	NO				37.34 N	108.82 W	290079	579
2133117482	10/29/78	47	34	18560	D	44.22	129.78	10	EEEE	NO				37.34 N	118.87 W	290080	221
2128701302	10/01/78	128	33	17937	D	52.37	112.75	90	EEEE	NO				37.34 N	121.75 W	290079	292
2135901334	10/29/78	128	33	18941	D	35.97	141.41	10	FEFF	NO				38.74 N	122.59 E	290079	149
2134615104	10/07/78	20	33	17931	D	52.43	112.61	80	EEEE	NO				38.74 N	122.59 E	290080	377
2135816572	10/29/78	38	33	18936	D	36.08	141.29	0	FEFE	NO				38.74 N	082.48 W	290079	297
2128616540	10/01/78	38	33	17932	D	52.42	112.64	50	EEEE	NO				38.74 N	108.29 W	290080	534
2133806253	10/21/78	179	33	18651	D	41.83	133.93	20	FEFF	NO				38.74 N	108.30 W	290079	192
2134501561	10/07/78	132	33	18746	D	39.98	136.59	20	FEFE	NO				38.75 N	049.42 E	290079	518
2136301565	10/29/78	132	33	18997	D	34.79	142.60	0	EEEE	NO				38.75 N	116.82 E	290079	691
2134201385	10/07/78	129	33	18704	D	40.81	135.43	0	FEFE	NO				38.75 N	116.83 E	290080	396
2136001393	10/29/78	129	33	18955	D	35.67	141.72	0	FEFE	NO				38.75 N	121.13 E	290080	50
2133014271	10/07/78	12	33	18572	D	43.30	131.59	30	FEFE	NO				38.75 N	121.15 E	290080	500
2135214393	10/15/78	14	33	18851	D	37.84	139.30	10	EEEE	NO				38.75 N	071.04 W	290079	445
2131814492	10/01/78	16	33	18377	D	46.63	125.53	90	EEEE	NO				38.75 N	073.89 W	290080	256
2133614502	10/07/78	16	33	18628	D	42.26	133.25	20	EEEE	NO				38.75 N	076.76 W	290079	222
2133915074	10/08/78	19	33	18670	D	41.46	134.48	90	EEEE	NO				38.75 N	076.76 W	290079	414
2134019132	10/07/78	20	33	18684	D	41.20	134.87	60	EEEE	NO				38.75 N	081.07 W	290080	4
2134215250	10/08/78	22	33	18712	D	40.66	135.65	10	FEFF	NO				38.75 N	082.51 W	290079	601
2134315304	10/08/78	23	33	18726	D	40.38	136.04	0	EEEE	NO				38.75 N	085.36 W	290079	706
2134415363	10/08/78	24	33	18740	D	40.10	136.43	0	EEEE	NO				38.75 N	086.80 W	290079	774
2134615480	10/08/78	26	33	18768	D	39.54	137.18	10	EEEE	NO				38.75 N	088.25 W	290079	792
2134815594	10/29/78	28	33	18796	D	38.96	137.93	0	EEEE	NO				38.75 N	091.10 W	290079	763
														093.98 W	290080	153	

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2135016111	10/22/78	30	33	18824	D	38.39	138.64	0	EEEE	NO		CCCL	LLLL	38.75 N	096.86 W	290080	195
2135116170	10/22/78	31	33	18838	D	38.10	139.00	10	EEEE	NO		CCCL	LLLL	38.75 N	098.29 W	290080	310
2133716392	10/07/78	35	33	18643	D	41.99	133.68	90	EEEE	NO		CCCL	LLLL	38.75 N	104.02 W	290079	591
2135516400	10/29/78	35	33	18894	D	36.94	140.35	10	EEPE	NO		CCCL	LLLL	38.75 N	104.02 W	290080	480
2135616455	10/22/78	36	33	18908	D	36.67	140.65	10	EEEE	NO		CCCL	LLLL	38.75 N	105.45 W	290080	347
2136017090	10/29/78	40	33	18964	D	35.48	141.92	0	EEEE	NO		CCCL	LLLL	38.75 N	111.19 W	290080	451
2130717122	10/29/78	41	33	18225	D	48.89	120.79	30	FFFF	NO		CCCL	LLLL	38.75 N	112.62 W	290079	51
2134417195	10/08/78	42	33	18741	D	40.07	136.46	10	EEEE	NO		CCCL	LLLL	38.75 N	114.05 W	290079	751
2131017294	10/29/78	44	33	18267	D	48.29	122.09	0	EEEE	NO		CCCL	LLLL	38.75 N	116.93 W	290079	71
2131217411	10/07/78	46	33	18295	D	47.89	122.94	10	EEEE	NO		CCCL	LLLL	38.75 N	119.78 W	290079	82
2134101330	10/07/78	128	33	18690	D	41.08	135.05	10	FFFF	NO		CCCL	LLLL	38.76 N	122.54 E	290080	34
2134210151	10/07/78	219	33	18709	D	40.70	135.59	10	FFFE	NO		CCCL	LLLL	38.76 N	007.94 W	290079	655
2134310205	10/08/78	220	33	18723	D	40.43	135.98	10	FFFF	NO		CCCL	LLLL	38.76 N	009.37 W	290079	729
2135014275	10/29/78	12	33	18823	D	38.41	138.62	NA	2222	NO		CCCL	LLLL	38.76 N	071.06 W	0	0
2133113325	10/07/78	13	33	18586	D	43.04	132.01	10	EEEE	NO		CCCL	LLLL	38.76 N	072.50 W	290079	322
2133815015	10/07/78	18	33	18656	D	41.73	134.07	10	EEFE	NO		CCCL	LLLL	38.76 N	079.65 W	290079	562
2133015585	10/07/78	28	33	18545	D	43.78	130.78	80	EEFE	NO		CCCL	LLLL	38.76 N	094.01 W	290079	278
2134916053	10/22/78	29	33	18810	D	38.68	138.29	10	EEEE	NO		CCCL	LLLL	38.76 N	095.43 W	290080	185
2133216102	10/07/78	30	33	18573	D	43.27	131.63	70	EEEE	NO		CCCL	LLLL	38.76 N	096.86 W	290079	633
2133316161	10/07/78	31	33	18587	D	43.02	132.06	0	EEEE	NO		CCCL	LLLL	38.76 N	098.29 W	290079	457
2133416220	10/07/78	32	33	18601	D	42.76	132.48	70	EEEE	NO		CCCL	LLLL	38.76 N	099.75 W	290079	313
2135216224	10/15/78	32	33	18852	D	37.82	139.34	0	EEEE	NO		CCCL	LLLL	38.76 N	099.75 W	290080	275
2133616333	10/07/78	34	33	18629	D	42.25	133.28	30	EEEE	NO		CCCL	LLLL	38.76 N	102.61 W	290079	369
2133816451	10/21/78	36	33	18657	D	41.72	134.09	0	EEEE	NO		CCCL	LLLL	38.76 N	105.47 W	290080	82
2134016564	10/07/78	38	33	18685	D	41.17	134.91	0	EEEE	NO		CCCL	LLLL	38.76 N	106.34 W	290079	578
2134217081	10/07/78	40	33	18713	D	40.62	135.70	10	PEFE	NO		CCCL	LLLL	38.76 N	111.21 W	290079	666
2134317140	10/07/78	41	33	18727	D	40.34	136.09	0	EEEE	NO		CCCL	LLLL	38.76 N	112.65 W	290080	65
2134717371	10/15/78	45	33	18783	D	39.24	137.57	0	EEEE	NO		CCCL	LLLL	38.76 N	118.40 W	290080	220
2133117475	10/29/78	47	33	18960	D	43.51	131.23	10	EEEE	NO		CCCL	LLLL	38.76 N	121.26 W	290079	291
2120215411	10/01/78	26	33	16760	D	52.67	115.50	NA	MMMM	NO		CCCL	LLLL	38.77 N	091.15 W	0	0
2127006444	10/21/78	163	32	17703	D	54.28	110.42	10	FFFF	NO		CCCL	LLLL	40.16 N	044.21 E	290079	40
2128701300	10/01/78	128	32	17937	D	52.07	114.83	90	EEEE	NO		CCCL	LLLL	40.16 N	123.08 E	290079	148
2128615102	10/07/78	20	32	17931	D	52.14	114.70	80	EEEE	NO		CCCL	LLLL	40.16 N	082.00 W	290079	296
2128616534	10/01/78	38	32	17932	D	52.13	114.73	50	EEEE	NO		CCCL	LLLL	40.16 N	107.80 W	290079	191
2135816570	10/29/78	38	32	18936	D	35.15	142.33	10	EEFE	NO		CCCL	LLLL	40.16 N	107.80 W	290080	533
2134501554	10/07/78	132	32	18746	D	39.14	137.82	10	FFFE	NO		CCCL	LLLL	40.17 N	117.31 E	290079	690
2136301563	10/29/78	132	32	18997	D	33.84	143.59	13	EEEE	NO		CCCL	LLLL	40.17 N	117.33 E	290080	395
2134201382	10/07/78	129	32	18704	D	39.99	136.70	50	FEFE	NO		CCCL	LLLL	40.17 N	121.62 E	290080	49
2136001391	10/29/78	129	32	18955	D	34.73	142.75	0	EEFE	NO		CCCL	LLLL	40.17 N	121.64 E	290080	499
2135901332	10/29/78	128	32	18941	D	35.04	142.44	0	EEEE	NO		CCCL	LLLL	40.17 N	123.07 E	290080	376

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LANDSAT 2 MSS SENSOR
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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FILM FRAME
2134001265	10/07/78	127	32	18676	D	40.55	135.95	NA	MMMM	NO		CCCL	LLLL	40.17 N	124.48 E	0	0
2135112500	10/22/78	246	32	18836	D	37.27	140.07	70	EEEE	NO		CCCL	HHLL	40.17 N	046.15 W	290080	301
2135214390	10/15/78	14	32	18851	D	36.95	140.43	50	EEEE	NO		CCCL	LLLL	40.17 N	073.40 W	290080	255
2131814490	10/01/78	16	32	18377	D	46.02	127.16	60	EEEE	NO		CCCL	LLLL	40.17 N	076.27 W	290079	221
2133614495	10/07/78	16	32	18628	D	41.49	134.60	60	EEEE	NO		CCCL	LLLL	40.17 N	076.28 W	290079	413
2134215243	10/08/78	22	32	18712	D	39.83	136.91	0	EEEE	NO		CCCL	LLLL	40.17 N	084.87 W	290079	705
2134315302	10/08/78	23	32	18726	D	39.55	137.29	0	EEEE	NO		CCCL	LLLL	40.17 N	086.31 W	290079	773
2134415361	10/08/78	24	32	18740	D	39.26	137.66	10	EEEE	NO		CCCL	LLLL	40.17 N	087.75 W	290079	791
2134615474	10/08/78	24	32	18768	D	38.69	138.38	20	EEEE	NO		CCCL	LLLL	40.17 N	090.61 W	290079	762
2134815591	10/29/78	28	32	18796	D	38.09	139.11	0	EEEE	NO		CCCL	LLLL	40.17 N	093.50 W	290080	152
2135316281	10/15/78	33	32	18866	D	36.62	140.79	0	EEEE	NO		CCCL	LLLL	40.17 N	100.66 W	290080	285
2135516394	10/29/78	35	32	18894	D	36.03	141.42	10	EEPE	NO		CCCL	LLLL	40.17 N	103.53 W	290080	479
2135616453	10/29/78	36	32	18908	D	35.75	141.72	10	EEEE	NO		CCCL	LLLL	40.17 N	104.97 W	290080	346
2136017083	10/29/78	40	32	18964	D	34.53	142.94	10	EEEE	NO		CCCL	LLLL	40.17 N	110.70 W	290080	450
2130717115	10/29/78	41	32	18225	D	48.39	122.60	20	EEEE	NO		CCCL	LLLL	40.17 N	112.13 W	290079	50
2134417192	10/08/78	42	32	18741	D	39.24	137.69	0	EEEE	NO		CCCL	LLLL	40.17 N	113.57 W	290079	750
2131217405	10/07/78	46	32	18295	D	47.35	124.66	10	EEEE	NO		CCCL	LLLL	40.17 N	119.29 W	290079	81
2134101324	10/07/78	128	32	18690	D	40.27	136.33	10	PEFE	NO		CCCL	LLLL	40.18 N	123.03 E	290080	33
2135801273	10/29/78	127	32	18927	D	35.32	142.16	10	EEEE	NO		CCCL	LLLL	40.18 N	124.47 E	290080	366
2133314323	10/07/78	13	32	18586	D	42.30	133.41	10	EEEE	NO		CCCL	LLLL	40.18 N	072.00 W	290079	321
2133815012	10/07/78	18	32	18656	D	40.94	135.39	20	EEFE	NO		CCCL	LLLL	40.18 N	079.17 W	290079	581
2133915071	10/08/78	19	32	18670	D	40.66	135.79	100	EEEE	NO		CCCL	LLLL	40.18 N	080.59 W	290080	3
2134015130	10/07/78	20	32	18684	D	40.39	136.16	0	EEEE	NO		CCCL	LLLL	40.18 N	082.03 W	290079	600
2134916050	10/22/78	29	32	18810	D	37.80	139.45	50	EEEE	NO		CCCL	LLLL	40.18 N	094.94 W	290080	184
2133116041	10/07/78	29	32	18559	D	42.80	132.63	0	EEEE	NO		CCCL	LLLL	40.18 N	094.96 W	290079	444
2133216100	10/07/78	30	32	18573	D	42.53	133.05	40	EEEE	NO		CCCL	LLLL	40.18 N	096.37 W	290079	632
2135016105	10/22/78	30	32	18624	D	37.51	139.79	10	EEEE	NO		CCCL	LLLL	40.18 N	096.37 W	290080	194
2135116163	10/22/78	31	32	18836	D	37.21	140.13	80	EEEE	NO		CCCL	LLLL	40.18 N	097.80 W	290080	309
2133316155	10/07/78	31	32	18587	D	42.27	133.46	10	EEEE	NO		CCCL	LLLL	40.18 N	097.81 W	290079	451
2135216222	10/15/78	32	32	18852	D	36.92	140.44	0	EEFE	NO		CCCL	LLLL	40.18 N	099.25 W	290080	274
2133416213	10/07/78	32	32	18601	D	42.00	133.85	90	EEEE	NO		CCCL	LLLL	40.18 N	099.26 W	290079	312
2133516272	10/07/78	33	32	18615	D	41.75	134.23	60	EEEE	NO		CCCL	LLLL	40.18 N	100.69 W	290079	401
2133616331	10/07/78	34	32	18629	D	41.48	134.62	50	EEEE	NO		CCCL	LLLL	40.18 N	102.12 W	290079	368
2133716385	10/07/78	35	32	18643	D	41.20	135.02	90	EEEE	NO		CCCL	LLLL	40.18 N	103.54 W	290079	590
2133816444	10/21/78	36	32	18657	D	40.93	135.40	0	EEFE	NO		CCCL	LLLL	40.18 N	104.98 W	290080	81
2134016561	10/07/78	38	32	18685	D	40.37	136.20	0	EEEE	NO		CCCL	LLLL	40.18 N	107.85 W	290079	577
2134217075	10/07/78	40	32	18713	D	39.80	136.96	10	FEFE	NO		CCCL	LLLL	40.18 N	110.72 W	290079	665
2134317133	10/07/78	41	32	18727	D	39.51	137.34	10	EEFE	NO		CCCL	LLLL	40.18 N	112.16 W	290080	64
2131017291	10/29/78	44	32	18267	D	47.77	123.84	0	FEFE	NO		CCCL	LLLL	40.18 N	116.45 W	290079	70
2134717364	10/15/78	45	32	18783	D	38.38	138.76	10	FEFE	NO		CCCL	LLLL	40.18 N	117.91 W	290080	219

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STANDARD CATALOG
LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133117473	10/29/78	47	32	18560	D	42.78	132.67	30	EEEE	NO	CCCL	LLLL	40.18 N	120.77 W	290079	290
2120215405	10/01/78	26	32	16760	D	52.30	117.57	NA	MMMM	NO	CCCL	LLLL	40.19 N	090.67 W	0	0
2133015582	10/07/78	28	32	18545	D	43.06	132.22	70	EEEE	NO	CCCL	LLLL	40.19 N	093.53 W	290079	277
2128508110	10/01/78	198	31	17913	D	52.00	116.39	40	EEEE	NO	CCCL	LLLL	41.58 N	023.20 E	290079	178
2127006441	10/21/78	183	31	17703	D	54.04	112.66	10	EEEE	NO	CCCL	LLLL	41.58 N	044.71 E	290079	39
2136001384	10/29/78	129	31	18955	D	33.78	143.75	0	EEEE	NO	CCCL	LLLL	41.58 N	122.15 E	290080	498
2128701293	10/01/78	128	31	17937	D	51.73	116.90	70	EEEE	NO	CCCL	LLLL	41.58 N	123.58 E	290079	147
2128615095	10/07/78	20	31	17931	D	51.80	116.77	80	EEEE	NO	CCCL	LLLL	41.58 N	081.48 W	290079	295
2128616531	10/01/78	38	31	17932	D	51.78	116.79	30	EEEE	NO	CCCL	LLLL	41.58 N	107.29 W	290079	190
2135816563	10/29/78	38	31	18936	D	34.21	143.35	40	EEFE	NO	CCCL	LLLL	41.58 N	107.29 W	290080	532
2128608165	10/01/78	199	31	17927	D	51.84	116.70	10	EEEE	NO	CCCL	LLLL	41.59 N	021.75 E	290079	136
2128606333	10/01/78	181	31	17926	D	51.85	116.67	20	EEEE	NO	CCCL	LLLL	41.59 N	047.55 E	290079	122
2128506275	10/01/78	180	31	17912	D	52.01	116.37	NA	MMMM	NO	CCCL	LLLL	41.59 N	049.00 E	0	0
2134501552	10/07/78	132	31	18746	D	38.28	139.02	10	FEFE	NO	CCCL	LLLL	41.59 N	117.82 E	290079	689
2136301560	10/29/78	132	31	18997	D	32.87	144.57	10	EEEE	NO	CCCL	LLLL	41.59 N	117.84 E	290080	394
2134201380	10/07/78	129	31	18704	D	39.15	137.95	40	FEFE	NO	CCCL	LLLL	41.59 N	122.13 E	290080	48
2135901325	10/29/78	128	31	18941	D	34.09	143.47	0	EEEF	NO	CCCL	LLLL	41.59 N	123.57 E	290080	375
2135112493	10/22/78	246	31	18836	D	36.37	141.18	80	EEEE	NO	CCCL	HLLL	41.59 N	045.65 W	290080	300
2133713120	10/07/78	250	31	18641	D	40.44	136.29	40	EEEF	NO	CCCL	HLLL	41.59 N	051.79 W	290079	551
2135214384	10/15/78	14	31	18851	D	36.04	141.53	90	EEEE	NO	CCCL	LLLL	41.59 N	072.90 W	290080	254
2131814483	10/01/78	16	31	18377	D	45.39	128.77	50	EEEE	NO	CCCL	LLLL	41.59 N	075.76 W	290079	220
2134215241	10/08/78	22	31	18712	D	38.98	138.16	10	EEEE	NO	CCCL	LLLL	41.59 N	084.37 W	290079	704
2134315295	10/08/78	23	31	18726	D	38.70	138.51	0	EEEE	NO	CCCL	LLLL	41.59 N	085.80 W	290079	772
2134415354	10/08/78	24	31	18740	D	38.41	138.86	50	EEEE	NO	CCCL	LLLL	41.59 N	087.25 W	290079	790
2134615471	10/08/78	26	31	18768	D	37.81	139.57	20	EEEE	NO	CCCL	LLLL	41.59 N	090.11 W	290079	761
2134815585	10/29/78	28	31	18796	D	37.21	140.25	0	EEEE	NO	CCCL	LLLL	41.59 N	093.00 W	290080	151
2135016102	10/22/78	30	31	18824	D	36.61	140.92	70	EEEE	NO	CCCL	LLLL	41.59 N	095.86 W	290080	193
2135116161	10/22/78	31	31	18838	D	36.31	141.25	90	EEFE	NO	CCCL	LLLL	41.59 N	097.29 W	290080	308
2135316274	10/15/78	33	31	18866	D	35.71	141.87	0	EEEE	NO	CCCL	LLLL	41.59 N	100.15 W	290080	284
2135516391	10/29/78	35	31	18894	D	35.11	142.48	10	EEFE	NO	CCCL	LLLL	41.59 N	103.02 W	290080	478
2133716383	10/07/78	35	31	18643	D	40.40	136.33	80	EEEE	NO	CCCL	LLLL	41.59 N	103.03 W	290079	589
2136017081	10/29/78	40	31	18964	D	33.57	143.95	0	EEFF	NO	CCCL	LLLL	41.59 N	110.19 W	290080	449
2130717113	10/29/78	41	31	18225	D	47.86	124.37	30	EEEF	NO	CCCL	LLLL	41.59 N	111.63 W	290079	49
2131217402	10/07/78	46	31	18295	D	46.77	126.36	50	EEEE	NO	CCCL	LLLL	41.59 N	118.78 W	290079	80
2134101321	10/07/78	128	31	18690	D	39.44	137.58	10	FEFE	NO	CCCL	LLLL	41.60 N	123.54 E	290080	32
2134001262	10/07/78	127	31	18676	D	39.73	137.22	30	FEFE	NO	CCCL	LLLL	41.60 N	124.98 E	290079	620
2135801271	10/29/78	127	31	18927	D	34.38	143.20	10	EEEE	NO	CCCL	LLLL	41.60 N	124.98 E	290080	365
2135014270	10/29/78	12	31	18823	D	36.64	140.88	NA	2222	NO	CCCL	LLLL	41.60 N	070.06 W	0	0
2133614493	10/07/78	16	31	18628	D	40.70	135.93	90	EEEE	NO	CCCL	LLLL	41.60 N	075.78 W	290079	412
2133915065	10/08/78	19	31	18670	D	39.84	137.07	90	EEEE	NO	CCCL	LLLL	41.60 N	080.09 W	290080	2

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LANDSAT 2 MSS SENSOR
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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM GLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2135112491	10/22/78	246	30	18836	D	35.45	142.28	80	EEEE	NO		CCCL	HHLL	43.01 N	045.13 W	290080	299
2133713113	10/07/78	250	30	18641	D	39.62	137.57	20	EEEE	NO		CCCL	HHLL	43.01 N	050.86 W	290079	550
2135214381	10/15/78	14	30	18851	D	35.12	142.61	90	EFEE	NO		CCCL	LLLL	43.01 N	072.38 W	290080	253
2134215234	10/08/78	22	30	18712	D	38.12	139.38	30	EEFE	NO		CCCL	LLLL	43.01 N	083.85 W	290079	703
2134315293	10/08/78	23	30	18726	D	37.84	139.71	10	EEEE	NO		CCCL	LLLL	43.01 N	085.28 W	290079	771
2134415352	10/08/78	24	30	18740	D	37.53	140.05	90	EEEE	NO		CCCL	LLLL	43.01 N	086.73 W	290079	789
2134615465	10/08/78	26	30	18768	D	36.92	140.75	60	EEEE	NO		CCCL	LLLL	43.01 N	089.58 W	290079	760
2134815582	10/29/78	28	30	18796	D	36.32	141.38	10	EEEE	NO		CCCL	LLLL	43.01 N	092.46 W	290080	150
2135016100	10/22/78	30	30	18824	D	35.69	142.03	80	EEEF	NO		CCCL	LLLL	43.01 N	095.33 W	290080	192
2135116154	10/22/78	31	30	18838	D	35.39	142.33	90	EEEE	NO		CCCL	LLLL	43.01 N	096.77 W	290080	307
2135316272	10/15/78	33	30	18866	D	34.77	142.94	20	EEEE	NO		CCCL	LLLL	43.01 N	099.62 W	290080	283
2133716380	10/07/78	35	30	18643	D	39.58	137.62	30	FFFE	NO		CCCL	LLLL	43.01 N	102.50 W	290079	588
2135616444	10/08/78	36	30	18908	D	33.86	143.81	0	EEEE	NO		CCCL	LLLL	43.01 N	103.95 W	290080	344
2136017074	10/29/78	40	30	18964	D	32.60	144.93	0	EEFF	NO		CCCL	LLLL	43.01 N	109.67 W	290080	448
2134217070	10/07/78	40	30	18713	D	38.10	139.41	0	FEFE	NO		CCCL	LLLL	43.01 N	109.68 W	290079	664
2130717110	10/29/78	41	30	18225	D	47.30	126.12	10	EEFE	NO		CCCL	LLLL	43.01 N	111.10 W	290079	48
2134417183	10/08/78	42	30	18741	D	37.51	140.08	10	EEFF	NO		CCCL	LLLL	43.01 N	112.55 W	290079	748
2131017282	10/29/78	44	30	18267	D	46.62	127.27	0	EEFE	NO		CCCL	LLLL	43.01 N	115.41 W	290079	68
2134101315	10/07/78	128	30	18690	D	38.59	138.82	10	FEFE	NO		CCCL	LLLL	43.02 N	124.07 E	290080	31
2135601264	10/29/78	127	30	18927	D	33.42	144.22	10	EEEE	NO		CCCL	LLLL	43.02 N	125.50 E	290080	364
2135014264	10/29/78	12	30	18823	D	35.73	142.00	90	EEEE	NO		CCCL	LLLL	43.02 N	069.53 W	290080	435
2133614490	10/07/78	16	30	18628	D	39.88	137.25	90	EEEE	NO		CCCL	LLLL	43.02 N	075.26 W	290079	411
2133915062	10/08/78	19	30	18670	D	39.01	138.33	30	EEEE	NO		CCCL	LLLL	43.02 N	079.57 W	290080	1
2134015121	10/07/78	20	30	18684	D	38.71	138.68	10	EEFF	NO		CCCL	LLLL	43.02 N	081.01 W	290079	598
2133015573	10/07/78	28	30	18545	D	41.55	135.02	80	EEEE	NO		CCCL	LLLL	43.02 N	092.50 W	290079	275
2134916041	10/22/78	29	30	18810	D	36.00	141.72	90	EEEF	NO		CCCL	LLLL	43.02 N	093.91 W	290080	182
2133116032	10/07/78	29	30	18559	D	41.27	135.41	0	EEEE	NO		CCCL	LLLL	43.02 N	093.93 W	290079	442
2133216091	10/07/78	30	30	18573	D	40.99	135.80	20	EEEE	NO		CCCL	LLLL	43.02 N	095.36 W	290079	630
2133316150	10/07/78	31	30	18587	D	40.71	136.17	40	EEFE	NO		CCCL	LLLL	43.02 N	096.79 W	290079	449
2135216213	10/15/78	32	30	18852	D	35.07	142.65	90	EEEE	NO		CCCL	LLLL	43.02 N	098.22 W	290080	272
2133416204	10/07/78	32	30	18601	D	40.43	136.54	90	EEEE	NO		CCCL	LLLL	43.02 N	098.23 W	290079	310
2133516263	10/07/78	33	30	18615	D	40.15	136.90	90	EEEE	NO		CCCL	LLLL	43.02 N	099.66 W	290079	399
2133616322	10/07/78	34	30	18629	D	39.86	137.26	90	EEEE	NO		CCCL	LLLL	43.02 N	101.09 W	290079	366
2133816435	10/21/78	36	30	18657	D	39.30	137.96	0	EEEE	NO		CCCL	LLLL	43.02 N	103.96 W	290080	79
2134016552	10/07/78	38	30	18685	D	38.70	138.70	0	EEEE	NO		CCCL	LLLL	43.02 N	106.83 W	290079	575
2134317124	10/07/78	41	30	18727	D	37.79	139.76	20	EEEE	NO		CCCL	LLLL	43.02 N	111.13 W	290080	62
2134717355	10/15/78	45	30	18783	D	36.60	141.09	20	EEEE	NO		CCCL	LLLL	43.02 N	116.87 W	290080	217
2133117464	10/29/78	47	30	18560	D	41.25	135.45	50	EEEE	NO		CCCL	LLLL	43.03 N	119.75 W	290079	288
2128508101	10/01/78	198	29	17913	D	51.21	120.50	30	EEEF	NO		CCCL	LLLL	44.41 N	024.26 E	290079	176
2127006432	10/21/78	183	29	17703	D	53.42	117.12	0	EE2F	NO		CCCL	LLLL	44.41 N	045.78 F	290079	37

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STANDARD CATALOG

LANDSAT 2 MSS SENSOR

FROM 10/01/78 TO 10/31/78

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OBSERVATION ID	ENTRY DATE	PATH	ROW	GRBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2136001375	10/29/78	129	29	18955	D	31.83	145.73	0	EEEE	NO		CCCL	LLLL	44.41 N	123.22 E	290080	496
2128616522	10/01/78	38	29	17932	D	50.97	120.88	50	EEEE	NO		CCCL	LLLL	44.41 N	106.23 W	290079	188
2128608160	10/01/78	199	29	17927	D	51.03	120.80	10	EEEE	NO		CCCL	LLLL	44.42 N	022.81 E	290079	134
2134206470	10/07/78	183	29	18707	D	37.35	140.46	80	PEFE	NO		CCCL	LLLL	44.42 N	045.75 E	290079	653
2128606324	10/01/78	181	29	17926	D	51.04	120.77	20	EEEE	NO		CCCL	LLLL	44.42 N	048.63 E	290079	120
2128604493	10/01/78	163	29	17925	D	51.06	120.73	0	EEEE	NO		CCCL	LLLL	44.42 N	074.44 E	290079	102
2134201371	10/07/78	129	29	18704	D	37.41	140.39	NA	MMMM	NO		CCCL	LLLL	44.42 N	123.20 E	0	0
2128701284	10/01/78	128	29	17937	D	50.91	120.97	70	EEEE	NO		CCCL	LLLL	44.42 N	124.64 E	290079	145
2135901320	10/29/78	128	29	18941	D	32.15	145.47	10	EEEE	NO		CCCL	LLLL	44.42 N	124.65 E	290080	373
2133114194	10/01/78	11	29	18558	D	40.50	136.73	10	EEEE	NO		CCCL	LLLL	44.42 N	067.53 W	290079	253
2135214375	10/15/78	14	29	18851	D	34.17	143.68	70	EEEE	NO		CCCL	LLLL	44.42 N	071.84 W	290080	252
2131814474	10/01/78	16	29	18377	D	44.04	131.91	20	EEEE	NO		CCCL	LLLL	44.42 N	074.70 W	290079	218
2134415345	10/08/78	24	29	18740	D	36.63	141.23	70	EEEE	NO		CCCL	LLLL	44.42 N	086.18 W	290079	788
2134615462	10/08/78	26	29	18768	D	36.01	141.86	90	EEFE	NO		CCCL	LLLL	44.42 N	089.05 W	290079	759
2134815580	10/29/78	28	29	18796	D	35.40	142.50	10	EEEE	NO		CCCL	LLLL	44.42 N	091.91 W	290080	149
2135316265	10/15/78	33	29	18866	D	33.83	144.00	80	EEEE	NO		CCCL	LLLL	44.42 N	099.00 W	290080	282
2130717104	10/29/78	41	29	18225	D	46.70	127.84	10	EEEE	NO		CCCL	LLLL	44.42 N	110.56 W	290079	47
2131017280	10/29/78	44	29	18267	D	46.00	128.95	10	EEEE	NO		CCCL	LLLL	44.42 N	114.86 W	290079	67
2131217393	10/07/78	46	29	18295	D	45.52	129.68	50	FEFE	NO		CCCL	LLLL	44.42 N	117.72 W	290079	78
2124107221	10/01/78	190	29	17299	D	55.31	116.21	60	EFEE	NO		CCCL	LLLL	44.43 N	035.69 E	290079	248
2133604290	10/07/78	159	29	18622	D	39.16	138.38	50	EFEE	NO		CCCL	LLLL	44.43 N	080.14 E	290079	348
2134101312	10/07/78	128	29	18690	D	37.72	140.05	10	FEFE	NO		CCCL	LLLL	44.43 N	124.62 E	290080	30
2134001253	10/07/78	127	29	18676	D	38.02	139.71	30	FEFE	NO		CCCL	LLLL	44.43 N	126.05 F	290079	618
2135801262	10/29/78	127	29	18927	D	32.45	145.22	10	EEEE	NO		CCCL	LLLL	44.43 N	126.05 E	290080	363
2135014261	10/29/78	12	29	18823	D	34.79	143.09	60	EEEE	NO		CCCL	LLLL	44.43 N	068.97 W	290080	434
2133614484	10/07/78	16	29	18628	D	39.04	138.53	10	EFEE	NO		CCCL	LLLL	44.43 N	074.72 W	290079	410
2134215232	10/08/78	22	29	18712	D	37.24	140.57	70	EEEE	NO		CCCL	LLLL	44.43 N	083.31 W	290079	702
2134315290	10/08/78	23	29	18726	D	36.95	140.89	50	EEEE	NO		CCCL	LLLL	44.43 N	084.75 W	290079	770
2133015571	10/07/78	28	29	18545	D	40.76	136.40	90	EEEE	NO		CCCL	LLLL	44.43 N	091.94 W	290079	274
2134916035	10/22/78	29	29	18810	D	35.08	142.82	70	EEEE	NO		CCCL	LLLL	44.43 N	093.37 W	290080	181
2135016093	10/22/78	30	29	18824	D	34.77	143.12	90	EEEF	NO		CCCL	LLLL	44.43 N	094.80 W	290080	191
2135116152	10/22/78	31	29	18838	D	34.46	143.41	90	FEFE	NO		CCCL	LLLL	44.43 N	096.22 W	290080	306
2135216210	10/15/78	32	29	18852	D	34.13	143.72	90	EEEE	NO		CCCL	LLLL	44.43 N	097.68 W	290080	271
2133616315	10/07/78	34	29	18629	D	39.02	138.55	70	EEEE	NO		CCCL	LLLL	44.43 N	100.55 W	290079	365
2133716374	10/07/78	35	29	18643	D	38.74	138.87	10	EFEE	NO		CCCL	LLLL	44.43 N	101.96 W	290079	587
2133816433	10/21/78	36	29	18657	D	38.44	139.23	0	EEEE	NO		CCCL	LLLL	44.43 N	103.40 W	290080	78
2135616441	10/22/78	36	29	18908	D	32.90	144.83	0	EEEE	NO		CCCL	LLLL	44.43 N	103.40 W	290080	343
2134016550	10/07/78	38	29	18685	D	37.83	139.92	0	EEEE	NO		CCCL	LLLL	44.43 N	106.28 W	290079	574
2134217063	10/07/78	40	29	18713	D	37.21	140.61	0	FEFE	NO		CCCL	LLLL	44.43 N	109.13 W	290079	663
2136017072	10/29/78	40	29	18964	D	31.62	145.90	0	EEEE	NO		CCCL	LLLL	44.43 N	109.14 W	290080	447

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STANDARD CRYALOG
LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2134317122	10/07/78		41	29	D	36.91	140.94	20	EEEE	NO		CCCL	LLLL	44.43 N	110.57 W		
2134417181	10/08/78		42	29	D	36.61	141.26	30	EEEF	NO		CCCL	LLLL	44.43 N	112.01 W	290080	61
2133804403	10/21/78	161	29	18650	D	38.58	139.07	0	FEFE	NO		CCCL	LLLL	44.44 N	077.27 E	290079	747
2133116030	10/07/78		29	18559	D	40.47	136.77	20	EEEE	NO		CCCL	LLLL	44.44 N	093.39 W	290079	510
2133216084	10/07/78		30	29	D	40.18	137.14	10	EEEE	NO		CCCL	LLLL	44.44 N	094.82 W	290079	441
2133316143	10/07/78		31	29	D	39.89	137.50	80	EFEE	NO		CCCL	LLLL	44.44 N	096.25 W	290079	629
2133416202	10/07/78		32	29	D	39.60	137.85	90	EEEE	NO		CCCL	LLLL	44.44 N	097.69 W	290079	448
2133516260	10/07/78		33	29	D	39.32	138.19	100	EEEE	NO		CCCL	LLLL	44.44 N	099.12 W	290079	309
2134717353	10/15/78		45	29	D	35.68	142.22	30	EEEF	NO		CCCL	LLLL	44.44 N	116.33 W	290079	398
2133117461	10/29/78		47	29	D	40.45	136.80	70	EEEE	NO		CCCL	LLLL	44.44 N	119.21 W	290080	216
2127006430	10/21/78	183	28	17703	D	53.04	119.32	0	PE2F	NO		CCCL	LLLL	45.82 N	046.34 E	290079	287
2136001373	10/29/78	129	28	18955	D	30.83	146.71	0	EEEE	NO		CCCL	LLLL	45.82 N	123.37 E	290079	36
2128608153	10/01/78	199	28	17927	D	50.56	122.82	20	EEEE	NO		CCCL	LLLL	45.82 N	023.79 E	290080	495
2128503095	10/01/78	198	28	17913	D	50.75	122.52	30	EEEE	NO		CCCL	LLLL	45.83 N	024.82 E	290079	133
2134206463	10/07/78	183	28	18707	D	36.46	141.64	30	PEFE	NO		CCCL	LLLL	45.83 N	024.82 E	290079	175
2128606322	10/01/78	181	28	17926	D	50.56	122.78	0	EEEE	NO		CCCL	LLLL	45.83 N	046.32 E	290079	652
2128604490	10/01/78	163	28	17925	D	50.59	122.75	0	EEEE	NO		CCCL	LLLL	45.83 N	049.19 E	290079	119
2134201364	10/07/78	129	28	18704	D	36.52	141.58	0	FEFE	NO		CCCL	LLLL	45.83 N	075.01 E	290079	101
2128701282	10/01/78	128	28	17937	D	50.44	122.97	100	EEEE	NO		CCCL	LLLL	45.83 N	123.77 E	290080	47
2135901314	10/29/78	126	28	18941	D	31.16	146.45	10	EEEE	NO		CCCL	LLLL	45.83 N	125.20 E	290079	144
2134815573	10/29/78	28	28	18796	D	34.47	143.60	20	EEEE	NO		CCCL	LLLL	45.83 N	125.21 E	290080	372
2128616520	10/01/78	38	28	17932	D	50.50	122.88	20	EEEE	NO		CCCL	LLLL	45.83 N	091.34 W	290080	148
2131217391	10/07/78	46	28	18295	D	44.85	131.31	30	FEFE	NO		CCCL	LLLL	45.83 N	105.67 W	290079	187
2124107214	10/01/78	190	28	17299	D	54.95	118.57	80	EEEE	NO		CCCL	LLLL	45.83 N	117.15 W	290079	77
2130406331	10/01/78	181	28	18177	D	46.89	128.34	60	FEFF	NO		CCCL	LLLL	45.84 N	036.26 E	290079	247
2134101310	10/07/78	128	28	18690	D	36.84	141.25	0	FEFE	NO		CCCL	LLLL	45.84 N	049.18 E	290079	207
2134001251	10/07/78	127	28	18676	D	37.14	140.93	10	FEFE	NO		CCCL	LLLL	45.84 N	125.19 E	290080	29
2135801255	10/29/78	127	28	18927	D	31.47	146.21	10	EEEE	NO		CCCL	LLLL	45.84 N	126.61 E	290079	617
2133114192	10/01/78	11	28	18558	D	39.68	138.06	0	EEEE	NO		CCCL	LLLL	45.84 N	126.62 E	290080	362
2135014255	10/29/78	12	28	18823	D	33.85	144.17	60	EEEE	NO		CCCL	LLLL	45.84 N	066.96 W	290079	252
2134215225	10/08/78	22	28	18712	D	36.35	141.76	70	EEEE	NO		CCCL	LLLL	45.84 N	068.40 W	290080	433
2134315284	10/08/78	23	28	18726	D	36.05	142.06	90	EEEE	NO		CCCL	LLLL	45.84 N	082.75 W	290079	701
2134415343	10/08/78	24	28	18740	D	35.72	142.39	50	EEEE	NO		CCCL	LLLL	45.84 N	084.18 W	290079	769
2134615460	10/08/78	26	28	18768	D	35.09	143.01	90	EEFE	NO		CCCL	LLLL	45.84 N	085.61 W	290079	787
2135016091	10/22/78	30	28	18824	D	33.82	144.20	60	EEEE	NO		CCCL	LLLL	45.84 N	088.48 W	290079	758
2135116145	10/22/78	31	28	18834	D	33.51	144.48	90	EEEE	NO		CCCL	LLLL	45.84 N	094.23 W	290080	190
2135316263	10/15/78	33	28	18866	D	32.87	145.04	90	EEEE	NO		CCCL	LLLL	45.84 N	095.66 W	290080	305
2133716371	10/07/78	35	28	18643	D	37.88	140.13	30	EEFE	NO		CCCL	LLLL	45.84 N	098.52 W	290080	281
2133816430	10/21/78	36	28	18657	D	37.57	140.47	0	EEEE	NO		CCCL	LLLL	45.84 N	101.40 W	290079	586
2135616435	10/22/78	36	28	18908	D	31.92	145.84	0	EEEE	NO		CCCL	LLLL	45.84 N	102.83 W	290080	77
												CCCL	LLLL	45.84 N	102.83 W	290080	342

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 LANDSAT 2 MSS SENSOR
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OBSERVATION ID	ENTRY DATE	PATH #	ROW #	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2134016543	10/07/78	38	28	18685	D	36.94	141.14	10	EEEE	NO				CCCL LLLL 45.84 N 105.70 W		290079	573
2134217061	10/07/78	40	28	18713	D	36.32	141.79	10	FEFE	NO				CCCL LLLL 45.84 N 108.56 W		290079	662
2132417052	10/01/78	40	28	18462	D	41.65	135.63	20	EEZF	NO				CCCL LLLL 45.84 N 108.57 W		290079	243
2136017065	10/29/78	40	28	18964	D	30.62	146.87	0	EEEE	NO				CCCL LLLL 45.84 N 108.58 W		290080	446
2130717101	10/20/78	41	28	18225	D	46.08	129.54	10	EEEE	NO				CCCL LLLL 45.84 N 110.00 W		290079	46
2134317120	10/07/78	41	28	18727	D	36.01	142.10	10	EEEE	NO				CCCL LLLL 45.84 N 110.00 W		290080	60
2134417174	10/08/78	42	28	18741	D	35.70	142.42	20	EEEF	NO				CCCL LLLL 45.84 N 111.44 W		290079	746
2121917172	10/21/78	43	28	18998	D	53.53	121.95	80	EEEE	NO				CCCL LLLL 45.84 N 112.87 W		290079	15
2134517233	10/22/78	43	28	18755	D	35.39	142.72	90	FFFF	NO				CCCL LLLL 45.84 N 112.87 W		290080	175
2131017273	10/29/78	44	28	18267	D	45.34	130.61	50	FEFF	NO				CCCL LLLL 45.84 N 114.30 W		290079	66
2133804401	10/21/78	161	28	18650	D	37.71	140.32	0	FEFF	NO				CCCL LLLL 45.85 N 077.84 E		290079	509
2133604283	10/07/78	159	28	18622	D	38.31	139.65	60	FFFF	NO				CCCL LLLL 45.85 N 080.70 E		290079	347
2133015564	10/07/78	28	28	18545	D	39.94	129.76	100	EEEE	NO				CCCL LLLL 45.85 N 091.38 W		290079	273
2134916032	10/22/78	29	28	18810	D	34.14	143.90	60	EEEE	NO				CCCL LLLL 45.85 N 092.81 W		290080	180
2133116023	10/07/78	29	28	18559	D	39.65	138.11	40	EEEE	NO				CCCL LLLL 45.85 N 092.82 W		290079	440
2133316141	10/07/78	31	28	18587	D	39.06	138.80	90	FFFF	NO				CCCL LLLL 45.85 N 095.68 W		290079	447
2135216204	10/15/78	32	28	18601	D	38.76	139.14	100	EEEE	NO				CCCL LLLL 45.85 N 097.12 W		290079	308
2133516254	10/07/78	33	28	18615	D	33.17	144.78	90	FEFE	NO				CCCL LLLL 45.85 N 097.12 W		290080	270
2133616313	10/07/78	34	28	18629	D	38.47	139.48	90	EEEE	NO				CCCL LLLL 45.85 N 098.55 W		290079	397
2134717350	10/15/78	45	28	18783	D	38.16	139.81	80	EEFE	NO				CCCL LLLL 45.85 N 099.98 W		290079	364
2133216082	10/07/78	30	28	18573	D	34.75	143.34	50	EEEE	NO				CCCL LLLL 45.85 N 115.76 W		290080	215
2133117455	10/29/78	47	28	18560	D	39.35	138.46	20	EEEE	NO				CCCL LLLL 45.86 N 094.26 W		290079	628
2127006623	10/21/78	183	27	17703	D	39.62	138.14	40	EEEE	NO				CCCL LLLL 45.86 N 118.65 W		290079	286
2136001370	10/29/78	129	27	18955	D	52.61	121.51	10	FEFE	NO				CCCL LLLL 47.23 N 046.93 E		290079	35
2126418104	10/21/78	52	27	17626	D	29.84	147.66	0	EEEE	NO				CCCL LLLL 47.23 N 124.39 E		290080	494
2128508092	10/01/78	198	27	17913	D	53.27	120.86	80	EEEF	NO				CCCL LLLL 47.23 N 125.14 W		290079	25
2134206461	10/07/78	183	27	18707	D	50.25	124.53	40	EEEE	NO				CCCL LLLL 47.24 N 025.41 E		290079	174
2128606315	10/01/78	181	27	17926	D	35.56	142.81	10	FEFE	NO				CCCL LLLL 47.24 N 046.91 E		290079	651
2128604484	10/01/78	163	27	17925	D	50.07	124.78	0	EEEE	NO				CCCL LLLL 47.24 N 049.78 E		290079	118
2134201362	10/07/78	129	27	18704	D	50.09	124.73	10	EEEE	NO				CCCL LLLL 47.24 N 075.59 E		290079	100
2128701225	10/01/78	128	27	17937	D	35.62	142.75	NA	MMMM	NO				CCCL LLLL 47.24 N 124.36 E		0	0
2135901211	10/29/78	128	27	18941	D	49.93	124.95	100	EEEE	NO				CCCL LLLL 47.24 N 125.79 E		290079	143
2128616313	10/01/78	38	27	17932	D	30.16	147.43	NA	MMMM	NO				CCCL LLLL 47.24 N 125.81 E		0	0
2131217384	10/07/78	46	27	18295	D	50.00	124.86	30	EEEE	NO				CCCL LLLL 47.24 N 105.09 W		290079	186
2122818090	10/21/78	52	27	17124	D	44.15	132.92	20	EEFE	NO				CCCL LLLL 47.24 N 116.56 W		290079	76
2128608151	10/01/78	199	27	17927	D	54.02	122.48	70	FFEE	NO				CCCL LLLL 47.24 N 125.17 W		290079	18
2124107212	10/01/78	190	27	17299	D	50.05	124.81	50	EEEE	NO				CCCL LLLL 47.25 N 023.96 E		290079	132
2130406325	10/01/78	181	27	18177	D	54.54	120.89	30	FEFE	NO				CCCL LLLL 47.25 N 036.84 E		290079	246
2134101303	10/07/78	128	27	18690	D	46.25	130.08	30	FEFF	NO				CCCL LLLL 47.25 N 049.77 E		290079	206
					D	35.93	142.45	10	PEFE	NO				CCCL LLLL 47.25 N 125.77 E		290080	24

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SFCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2135801253	10/29/78	127	27	18927	D	30.48	147.19	10	EEEE	NO		CCCL	LLLL	47.25 N	127.21 E	2900F0	361
2135014252	10/29/78	12	27	18823	D	32.89	145.25	70	EEEE	NO		CCCL	LLLL	47.25 N	067.81 W	290080	432
2134615453	10/08/78	26	27	18768	D	34.15	144.13	100	FFFF	NO		CCCL	LLLL	47.25 N	087.89 W	290079	757
2134815571	10/29/78	28	27	18796	D	33.52	144.70	30	EEEE	NO		CCCL	LLLL	47.25 N	090.76 W	290080	147
2135016084	10/22/78	30	27	18824	D	32.86	145.27	50	EEEE	NO		CCCL	LLLL	47.25 N	093.64 W	290080	189
2135116143	10/22/78	31	27	18838	D	32.55	145.53	90	EEEE	NO		CCCL	LLLL	47.25 N	095.07 W	290080	304
2135316260	10/15/78	33	27	18866	D	31.90	146.07	100	EEEE	NO		CCCL	LLLL	47.25 N	097.93 W	290080	280
2133716365	10/07/78	35	27	18643	D	36.99	141.37	40	EEEE	NO		CCCL	LLLL	47.25 N	100.81 W	290079	585
2133816424	10/21/78	36	27	18657	D	36.68	141.69	0	EEEE	NO		CCCL	LLLL	47.25 N	102.25 W	290080	76
2135616432	10/22/78	36	27	18908	D	30.93	146.84	0	EEEE	NO		CCCL	LLLL	47.25 N	102.25 W	290080	341
2134016541	10/07/78	38	27	18685	D	36.04	142.34	10	EEEE	NO		CCCL	LLLL	47.25 N	105.11 W	290079	572
2134217054	10/07/78	40	27	18713	D	35.40	142.96	30	FEFE	NO		CCCL	LLLL	47.25 N	107.97 W	290079	661
2132417045	10/01/78	40	27	18462	D	40.86	137.06	10	EEZE	NO		CCCL	LLLL	47.25 N	107.98 W	290079	242
2130717095	10/29/78	41	27	18225	D	45.42	131.22	10	EEEE	NO		CCCL	LLLL	47.25 N	109.47 W	290079	45
2134317113	10/07/78	41	27	18727	D	35.10	143.25	10	EEEE	NO		CCCL	LLLL	47.25 N	109.41 W	290080	59
2134417172	10/08/78	42	27	18741	D	34.77	143.56	50	EEEF	NO		CCCL	LLLL	47.25 N	110.86 W	290079	745
2121917170	10/21/78	43	27	16998	D	53.05	124.13	50	EEEE	NO		CCCL	LLLL	47.25 N	112.28 W	290079	14
2134517230	10/22/78	43	27	18755	D	34.46	143.85	NA	MMMM	NO		CCCL	LLLL	47.25 N	112.28 W	0	0
2131017271	10/29/78	44	27	18267	D	44.66	132.25	50	FFFF	NO		CCCL	LLLL	47.25 N	113.71 W	290079	65
2134817403	10/21/78	46	27	18797	D	33.49	144.72	40	EEEE	NO		CCCL	LLLL	47.25 N	116.59 W	290080	134
2133804394	10/21/78	161	27	18650	D	36.82	141.55	0	FFFF	NO		CCCL	LLLL	47.26 N	078.43 E	290079	502
2133604281	10/07/78	159	27	18622	D	37.44	140.90	10	EEEE	NO		CCCL	LLLL	47.26 N	081.29 E	290079	346
2133404163	10/07/78	157	27	18594	D	38.05	140.25	0	EEFE	NO		CCCL	LLLL	47.26 N	084.16 E	290079	329
2134001244	10/07/78	127	27	18676	D	36.74	142.14	10	PEFE	NO		CCCL	LLLL	47.26 N	127.20 E	290079	616
2133015562	10/07/78	28	27	18545	D	39.11	139.09	100	EEEE	NO		CCCL	LLLL	47.26 N	090.80 W	290079	272
2133316134	10/07/78	31	27	18587	D	38.21	140.09	NA	EE22	NO		CCCL	LLLL	47.26 N	095.09 W	290079	446
2133416193	10/07/78	32	27	18601	D	37.90	140.42	90	EEFE	NO		CCCL	LLLL	47.26 N	096.53 W	290079	307
2135216201	10/15/78	32	27	18852	D	32.20	145.82	90	EEEE	NO		CCCL	LLLL	47.26 N	096.53 W	290080	269
2133516251	10/07/78	33	27	18615	D	37.60	140.75	90	EEEF	NO		CCCL	LLLL	47.26 N	097.96 W	290079	396
2133616310	10/07/78	34	27	18629	D	37.29	141.06	90	EFEE	NO		CCCL	LLLL	47.26 N	099.39 W	290079	363
2136017063	10/29/78	40	27	18964	D	29.62	147.83	10	EEEE	NO		CCCL	LLLL	47.26 N	108.00 W	290080	445
2134717344	10/15/78	45	27	18783	D	33.81	144.45	60	EEEE	NO		CCCL	LLLL	47.26 N	115.17 W	290080	214
2133216075	10/07/78	30	27	18573	D	38.51	139.76	80	EEEE	NO		CCCL	LLLL	47.27 N	093.67 W	290079	627
2133117452	10/29/78	47	27	18560	D	38.78	139.46	NA	666E	NO		CCCL	LLLL	47.27 N	118.06 W	290079	285
2128508090	10/01/78	198	26	17913	D	49.71	126.51	30	EEEE	NO		CCCL	LLLL	48.64 N	026.03 E	290079	173
2127006421	10/21/78	183	26	17703	D	52.15	123.67	30	FEFE	NO		CCCL	LLLL	48.64 N	047.55 E	290079	34
2136001364	10/29/78	129	26	18955	D	28.83	146.62	0	EEEE	NO		CCCL	LLLL	48.64 N	125.00 E	290080	493
2126418102	10/21/78	52	26	17626	D	52.81	123.07	90	EEEE	NO		CCCL	LLLL	48.64 N	124.53 W	290079	24
2134206454	10/07/78	183	26	18707	D	34.63	143.97	30	FEFE	NO		CCCL	LLLL	48.65 N	047.53 E	290079	650
2128606313	10/01/78	181	26	17976	D	49.52	126.76	10	EEEE	NO		CCCL	LLLL	48.65 N	050.39 E	290079	117

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2130406322	10/01/78	181	26	18177	D	45.59	131.80	20	EEEE	NO							
2128506254	10/01/78	180	26	17912	D	49.72	126.52	20	EEEE	NO	CCCL	LLLL	48.65 N	050.39 E	290079	205	
2134405140	10/08/78	167	26	18734	D	34.00	144.55	90	PPFF	NO	CCCL	LLLL	48.65 N	051.82 E	290079	170	
2128604481	10/01/78	163	26	17925	D	49.55	126.70	20	EEEE	NO	CCCL	LLLL	48.65 N	070.47 E	290079	740	
2134201355	10/07/78	129	26	18704	D	34.70	143.92	20	EEEE	NO	CCCL	LLLL	48.65 N	076.21 E	290079	99	
2128701273	10/01/78	128	26	17937	D	49.38	126.91	100	EEEE	NO	CCCL	LLLL	48.65 N	124.97 E	290080	46	
2135901305	10/29/78	128	26	18941	D	29.16	148.39	NA	MMMM	NO	CCCL	LLLL	48.65 N	126.41 E	290079	142	
2128616511	10/01/78	38	26	17932	D	49.45	126.82	20	EEEE	NO	CCCL	LLLL	48.65 N	126.42 E	0	0	
2121917163	10/21/78	43	26	16998	D	52.52	126.29	20	EEEE	NO	CCCL	LLLL	48.65 N	104.47 W	290079	185	
2131217382	10/07/78	46	26	18295	D	43.42	134.51	NA	2222	NO	CCCL	LLLL	48.65 N	117.66 W	290079	13	
2122818084	10/21/78	52	26	17124	D	53.53	124.72	30	FFEE	NO	CCCL	LLLL	48.65 N	115.95 W	0	0	
2134220315	10/08/78	76	26	18715	D	34.44	144.15	100	EEEE	NO	CCCL	HLLL	48.65 N	124.55 W	290079	17	
2134320374	10/07/78	77	26	18729	D	34.12	144.44	100	FFEE	NO	CCCL	HLLL	48.65 N	158.98 W	290079	726	
2130408154	10/01/78	199	26	18178	D	45.57	131.83	40	EEEE	NO	CCCL	HLLL	48.65 N	160.41 W	290079	686	
2128608144	10/01/78	199	26	17927	D	49.51	126.78	70	EEEE	NO	CCCL	LLLL	48.66 N	024.56 E	290079	216	
2134205022	10/07/78	165	26	18706	D	34.64	143.97	70	PEPE	NO	CCCL	LLLL	48.66 N	024.57 E	290079	131	
2133804392	10/21/78	161	26	18650	D	35.92	142.77	10	EFEE	NO	CCCL	LLLL	48.66 N	073.32 E	290079	645	
2134101301	10/07/78	128	26	18690	D	35.01	143.63	10	PEEE	NO	CCCL	LLLL	48.66 N	079.05 E	290079	507	
2135801250	10/29/78	127	26	18927	D	29.47	148.18	50	EEEE	NO	CCCL	LLLL	48.66 N	126.38 E	290080	27	
2134815564	10/29/78	28	26	18796	D	32.56	145.78	40	EEEE	NO	CCCL	LLLL	48.66 N	127.83 E	290080	360	
2135016082	10/22/78	30	26	18824	D	31.89	146.33	50	EEEE	NO	CCCL	LLLL	48.66 N	090.15 W	290080	146	
2135116146	10/22/78	31	26	18838	D	31.57	146.59	90	EFEE	NO	CCCL	LLLL	48.66 N	093.03 W	290080	188	
2135316254	10/15/78	33	26	18866	D	30.92	147.10	90	EEEE	NO	CCCL	LLLL	48.66 N	094.46 W	290080	303	
2133716362	10/07/78	35	26	18643	D	36.09	142.60	60	EEEE	NO	CCCL	LLLL	48.66 N	097.32 W	290080	279	
2135616430	10/22/78	36	26	18908	D	29.93	147.84	0	EEEE	NO	CCCL	LLLL	48.66 N	100.19 W	290079	584	
2133816421	10/21/78	36	26	18657	D	35.78	142.90	0	EEEE	NO	CCCL	LLLL	48.66 N	101.62 W	290080	340	
2134016534	10/07/78	38	26	18685	D	35.13	143.52	10	EEEE	NO	CCCL	LLLL	48.66 N	101.63 W	290080	75	
2134217052	10/07/78	40	26	18713	D	34.48	144.12	NA	MMMM	NO	CCCL	LLLL	48.66 N	104.50 W	290079	571	
2132417043	10/01/78	40	26	18462	D	40.05	138.46	30	EEPE	NO	CCCL	LLLL	48.66 N	107.36 W	0	0	
2136017060	10/29/78	40	26	18964	D	28.60	148.78	20	EEEE	NO	CCCL	LLLL	48.66 N	107.37 W	290079	241	
2130717092	10/29/78	41	26	18225	D	44.73	132.88	20	EFEE	NO	CCCL	LLLL	48.66 N	107.37 W	290080	444	
2134317111	10/07/78	41	26	18727	D	34.16	144.40	10	EEEE	NO	CCCL	LLLL	48.66 N	108.79 W	290079	44	
2134517224	10/22/78	43	26	18755	D	33.52	144.97	90	EFEE	NO	CCCL	LLLL	48.66 N	108.80 W	290080	58	
2131017264	10/29/78	44	26	18267	D	43.95	133.86	60	FFFF	NO	CCCL	LLLL	48.66 N	111.67 W	290080	174	
2135318085	10/22/78	51	26	18867	D	30.90	147.11	10	EEEE	NO	CCCL	LLLL	48.66 N	113.09 W	290079	64	
2134318542	10/08/78	59	26	18728	D	34.14	144.43	90	EEFE	NO	CCCL	HLLL	48.66 N	123.14 W	290080	205	
2133419454	10/07/78	68	26	18603	D	36.98	141.73	100	EEEE	NO	CCCL	HLLL	48.66 N	134.62 W	290079	781	
2133604274	10/07/78	159	26	18622	D	36.56	142.15	10	EEEE	NO	CCCL	HLLL	48.66 N	147.53 W	290079	393	
2133404161	10/07/78	157	26	18594	D	37.18	141.53	10	EEEE	NO	CCCL	LLLL	48.67 N	081.90 E	290079	345	
2134001242	10/07/78	127	26	18676	D	35.32	143.34	10	PEEE	NO	CCCL	LLLL	48.67 N	084.78 E	290079	328	
											CCCL	LLLL	48.67 N	127.81 E	290079	615	

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2133216073	10/07/78	30	26	18573	D	37.64	141.95	80	EEEE	NO		CCCL	LLLL	48.67 N	093.05 W	290079	626
2133416190	10/07/78	32	26	18601	D	37.02	141.69	NA	EMEE	NO		CCCL	LLLL	48.67 N	095.92 W	290079	306
2133216195	10/15/78	32	26	18852	D	31.22	146.87	NA	M666	NO		CCCL	LLLL	48.67 N	095.92 W	0	C
2133516245	10/07/78	33	26	18615	D	36.71	142.00	90	EEEE	NO		CCCL	LLLL	48.67 N	097.35 W	290079	395
2133616304	10/07/78	34	26	18629	D	36.40	142.30	90	EEEE	NO		CCCL	LLLL	48.67 N	098.78 W	290079	362
2134417165	10/08/78	42	26	18741	D	33.83	144.70	40	EEEE	NO		CCCL	LLLL	48.67 N	110.25 W	290079	744
2134717341	10/15/78	45	26	18783	D	32.85	145.55	NA	2222	NO		CCCL	LLLL	48.67 N	114.56 W	0	0
2134218483	10/08/78	58	26	18714	D	34.45	144.14	90	FEFE	NO		CCCL	HLLL	48.67 N	133.20 W	290080	12
2133319395	10/07/78	67	26	18589	D	37.29	141.41	20	EEEE	NO		CCCL	HLLL	48.67 N	146.10 W	290079	385
2133619571	10/07/78	70	26	18631	D	36.37	142.33	90	EEEE	NO		CCCL	HLLL	48.67 N	150.41 W	290079	432
2133820084	10/21/78	72	26	18659	D	35.73	142.95	40	EEEE	NO		CCCL	HLLL	48.67 N	153.28 W	290080	96
2133920143	10/21/78	73	26	18673	D	35.40	143.26	40	EEEE	NO		CCCL	HLLL	48.67 N	154.72 W	290080	110
2133015555	10/07/78	28	26	18545	D	38.26	140.41	90	EEEE	NO		CCCL	LLLL	48.68 N	090.19 W	290079	271
2133519512	10/07/78	69	26	18617	D	36.67	142.04	100	EEEE	NO		CCCL	HLLL	48.68 N	149.00 W	290079	409
2136001361	10/29/78	129	25	18955	D	27.81	149.58	0	EEEE	NO		CCCL	LLLL	50.04 N	125.65 E	290080	492
2128508083	10/01/78	198	25	17913	D	49.14	128.48	NA	2222	NO		CCCL	LLLL	50.05 N	026.67 E	0	0
2134203452	10/07/78	183	25	18707	D	33.69	145.14	90	PEFF	NO		CCCL	LLLL	50.05 N	048.17 E	290079	649
2127006414	10/21/78	183	25	17703	D	51.64	125.81	80	EEEE	NO		CCCL	LLLL	50.05 N	048.19 E	290079	33
2135901303	10/29/78	128	25	18941	D	28.14	149.37	20	EEEE	NO		CCCL	LLLL	50.05 N	127.06 E	290080	371
2128616504	10/01/78	38	25	17932	D	48.87	128.77	20	EEEE	NO		CCCL	LLLL	50.05 N	103.83 W	290079	184
2130408151	10/01/78	199	25	18178	D	44.87	133.53	30	EEEE	NO		CCCL	LLLL	50.06 N	025.20 E	290079	215
2128608142	10/01/78	199	25	17927	D	48.93	128.73	30	EEEE	NO		CCCL	LLLL	50.06 N	025.21 E	290079	130
2128606310	10/01/78	181	25	17926	D	48.94	128.72	10	EEEE	NO		CCCL	LLLL	50.06 N	051.03 E	290079	116
2130406320	10/01/78	181	25	18177	D	44.90	133.50	30	EEFE	NO		CCCL	LLLL	50.06 N	051.03 E	290079	204
2134006334	10/21/78	181	25	18679	D	34.34	144.57	10	EEEE	NO		CCCL	LLLL	50.06 N	051.03 E	290080	125
2128506252	10/01/78	180	25	17912	D	49.14	128.50	20	EEEE	NO		CCCL	LLLL	50.06 N	052.47 E	290079	169
2133806221	10/21/78	179	25	18651	D	34.99	144.00	10	FEFE	NO		CCCL	LLLL	50.06 N	053.29 E	290079	517
2134605251	10/08/78	169	25	18762	D	32.38	146.25	20	FEFE	NO		CCCL	LLLL	50.06 N	068.23 E	290079	809
2134405133	10/08/78	167	25	18734	D	33.05	145.68	100	2FFE	NO		CCCL	LLLL	50.06 N	071.12 E	290079	739
2134205020	10/07/78	165	25	18706	D	33.70	145.13	40	PEFE	NO		CCCL	LLLL	50.06 N	073.97 E	290079	644
2128604475	10/01/78	163	25	17925	D	48.97	128.66	30	EEEE	NO		CCCL	LLLL	50.06 N	076.85 E	290079	98
2134201353	10/07/78	129	25	18704	D	33.76	145.08	30	EEEE	NO		CCCL	LLLL	50.06 N	125.60 E	290080	45
2128701270	10/01/78	128	25	17937	D	48.80	128.86	90	EEEE	NO		CCCL	LLLL	50.06 N	127.05 E	290079	141
2133816415	10/21/78	36	25	18657	D	34.86	144.10	10	EEEE	NO		CCCL	LLLL	50.06 N	100.9E W	290080	74
2134016532	10/07/78	38	25	18685	D	34.20	144.69	0	EEEE	NO		CCCL	LLLL	50.06 N	103.85 W	290079	570
2134217045	10/07/78	40	25	18713	D	33.54	145.27	10	FEFE	NO		CCCL	LLLL	50.06 N	106.72 W	290079	660
2130717090	10/29/78	41	25	18225	D	44.01	134.53	50	EEEE	NO		CCCL	LLLL	50.06 N	108.15 W	290079	43
2131017262	10/29/78	44	25	18267	D	43.21	135.47	60	EMFE	NO		CCCL	LLLL	50.06 N	112.45 W	290079	63
2134220313	10/08/78	76	25	18715	D	33.50	145.30	100	FEFE	NO		CCCL	HLLL	50.06 N	158.32 W	290079	725
2134320371	10/07/78	77	25	18729	D	33.17	145.58	90	FEFE	NO		CCCL	HLLL	50.06 N	159.77 W	290079	685

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OBSERVATION ID	ENTRY DATE	FATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133245473	10/07/78	173	25	18567	D	36.89	142.21	60	EEEE	NO	CCCL	LLLL	50.07 N	062.47 E	290079	497
2133005355	10/07/78	171	25	18539	D	37.52	141.60	60	EEEE	NO	CCCL	LLLL	50.07 N	065.35 E	290079	270
2134004503	10/21/78	163	25	18678	D	34.36	144.56	10	EEEE	NO	CCCL	LLLL	50.07 N	076.83 E	290080	115
2133804385	10/21/78	161	25	18650	D	35.00	143.98	20	EFFE	NO	CCCL	LLLL	50.07 N	079.69 E	290079	506
2133404154	10/07/78	157	25	18594	D	36.28	142.80	10	EEEE	NO	CCCL	LLLL	50.07 N	085.42 E	290079	327
2133002092	10/07/78	135	25	18537	D	37.58	141.53	10	EEEE	NO	CCCL	LLLL	50.07 N	116.98 E	290079	260
2134101294	10/07/78	128	25	18690	D	34.07	144.81	10	1EFE	NO	CCCL	LLLL	50.07 N	127.02 E	290080	26
2132417040	10/01/78	40	25	18462	D	39.22	139.85	50	FE2E	NO	CCCL	LLLL	50.07 N	106.73 W	290079	240
2134317104	10/07/78	41	25	18727	D	33.21	145.55	10	EEEE	NO	CCCL	LLLL	50.07 N	108.17 W	290080	57
2134517221	10/22/78	43	25	18755	D	32.56	146.09	50	EEEE	NO	CCCL	LLLL	50.07 N	111.03 W	290080	123
2134218481	10/08/78	58	25	18714	D	33.51	145.30	90	FEFE	NO	CCCL	HLLL	50.07 N	132.55 W	290080	11
2134318540	10/08/78	59	25	18728	D	33.20	145.56	90	EEFF	NO	CCCL	HLLL	50.07 N	133.97 W	290079	700
2133319392	10/07/78	67	25	18589	D	36.40	142.68	30	EEEE	NO	CCCL	HLLL	50.07 N	145.45 W	290079	384
2133419451	10/07/78	68	25	18603	D	36.09	142.98	100	EEEE	NO	CCCL	HLLL	50.07 N	146.87 W	290079	392
2133619564	10/07/78	10	25	18631	D	35.46	143.55	70	EEEE	NO	CCCL	HLLL	50.07 N	149.76 W	290079	431
2133606103	10/07/78	177	25	18623	D	35.62	143.43	100	FFFE	NO	CCCL	LLLL	50.08 N	056.73 E	290079	355
2133405591	10/07/78	175	25	18595	D	36.26	142.82	0	EEEE	NO	CCCL	LLLL	50.08 N	059.60 E	290079	336
2133604272	10/07/78	159	25	18622	D	35.65	143.39	0	MFEE	NO	CCCL	LLLL	50.08 N	082.55 F	290079	344
2133202205	10/07/78	137	25	18565	D	36.94	142.16	40	EEEE	NO	CCCL	LLLL	50.08 N	114.10 E	290079	487
2133102151	10/01/78	136	25	18551	D	37.26	141.85	50	EEEE	NO	CCCL	LLLL	50.08 N	115.53 E	290079	166
2133516242	10/07/78	33	25	18615	D	35.80	143.25	90	MEEE	NO	CCCL	LLLL	50.08 N	096.71 W	290079	394
2133616301	10/07/78	34	25	18629	D	35.49	143.53	NA	H6EE	NO	CCCL	LLLL	50.08 N	098.14 W	290079	361
2134417163	10/08/78	42	25	18741	D	32.88	145.83	30	EEFF	NO	CCCL	LLLL	50.08 N	109.61 W	290079	743
2133519510	10/07/78	69	25	18617	D	35.77	143.28	100	EEEE	NO	CCCL	HLLL	50.08 N	148.35 W	290079	408
2133820082	10/21/78	72	25	18659	D	34.81	144.15	50	EEEE	NO	CCCL	HLLL	50.08 N	152.63 W	290080	95
2133920141	10/21/78	73	25	18673	D	34.48	144.45	40	EEEE	NO	CCCL	HLLL	50.08 N	154.08 W	290080	109
2128508081	10/01/78	198	24	17913	D	48.52	130.43	NA	MMMM	NO	CCCL	LLLL	51.45 N	027.35 E	0	G
2127006412	10/21/78	183	24	17703	D	51.09	127.93	90	EEFF	NO	CCCL	LLLL	51.45 N	048.87 E	290079	32
2128616502	10/01/78	38	24	17932	D	48.25	130.71	30	EEEE	NO	CCCL	LLLL	51.45 N	103.15 W	290079	183
2134320365	10/07/78	77	24	18729	D	52.22	146.72	70	PEFF	NO	CCCL	HLLL	51.45 N	159.09 W	290079	684
2133007184	10/01/78	189	24	18540	D	36.63	142.91	80	EEEE	NO	CCCL	LLLL	51.46 N	040.23 E	290079	158
2134206445	10/07/78	183	24	18707	D	32.74	146.30	100	PEFE	NO	CCCL	LLLL	51.46 N	048.85 E	290079	648
2128606304	10/01/78	181	24	17926	D	48.33	130.65	10	EEEE	NO	CCCL	LLLL	51.46 N	051.70 E	290079	115
2130406313	10/01/78	181	24	18177	D	44.18	135.17	50	EEEE	NO	CCCL	LLLL	51.46 N	051.71 E	290079	203
2134006332	10/21/78	181	24	18679	D	33.40	145.75	20	EEEE	NO	CCCL	LLLL	51.46 N	051.71 E	290080	124
2128506245	10/01/78	180	24	17912	D	48.53	130.44	30	EEEE	NO	CCCL	LLLL	51.46 N	053.14 E	290079	168
2133806214	10/21/78	179	24	18651	D	34.06	145.20	20	FFFE	NO	CCCL	LLLL	51.46 N	054.57 E	290079	516
2134405131	10/08/78	167	24	18734	D	32.09	146.82	90	2FFE	NO	CCCL	LLLL	51.46 N	071.79 E	290079	738
2128604472	10/01/78	163	24	17925	D	48.35	130.61	30	EEEE	NO	CCCL	LLLL	51.46 N	077.53 E	290079	97
2128701264	10/01/78	128	24	17937	D	48.17	130.80	20	EEEE	NO	CCCL	LLLL	51.46 N	127.73 E	290079	140

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2130717083	10/29/78	41	24	18225	D	43.28	136.15	50	EFEE	NO		CCCL	LLLL	51.46 N	107.47 W	290079	42
2131217373	10/07/78	46	24	18295	D	41.90	137.63	NA	2222	NO		CCCL	LLLL	51.46 N	114.64 W	0	0
2133419445	10/07/78	68	24	18603	D	35.18	144.23	100	EFEE	NO		CCCL	HLLL	51.46 N	146.19 W	290079	391
2134220310	10/08/78	76	24	18715	D	32.55	146.45	90	FEFE	NO		CCCL	HLLL	51.46 N	157.64 W	290079	724
2128608135	10/01/78	199	24	17927	D	48.31	130.67	10	EEEE	NO		CCCL	LLLL	51.47 N	025.88 E	290079	124
2130408145	10/01/78	199	24	18178	D	44.15	135.21	30	EEEE	NO		CCCL	LLLL	51.47 N	025.88 E	290079	214
2133808050	10/21/78	197	24	18652	D	34.03	145.23	60	FEFE	NO		CCCL	LLLL	51.47 N	028.75 E	290079	525
2133607533	10/29/78	195	24	18624	D	34.69	144.66	40	EEEE	NO		CCCL	LLLL	51.47 N	031.61 E	290080	414
2133407415	10/07/78	193	24	18596	D	35.33	144.10	90	EEEE	NO		CCCL	LLLL	51.47 N	034.48 E	290079	539
2133207302	10/07/78	191	24	18568	D	35.98	143.52	NA	MMMM	NO		CCCL	LLLL	51.47 N	037.35 E	0	0
2134406562	10/08/78	185	24	18735	D	32.06	146.85	80	EEEE	NO		CCCL	LLLL	51.47 N	045.95 E	290079	785
2133005353	10/07/78	171	24	18539	D	36.63	142.91	10	EEEE	NO		CCCL	LLLL	51.47 N	066.02 E	290079	269
2134605244	10/08/78	169	24	18762	D	31.40	147.36	20	FEFE	NO		CCCL	LLLL	51.47 N	068.90 E	290079	808
2134205013	10/07/78	165	24	18706	D	32.75	146.29	70	PEFE	NO		CCCL	LLLL	51.47 N	074.64 E	290079	643
2134004500	10/21/78	163	24	18678	D	33.41	145.75	10	EEEE	NO		CCCL	LLLL	51.47 N	077.51 E	290079	114
2133804383	10/21/78	161	24	18650	D	34.08	145.19	40	EEEE	NO		CCCL	LLLL	51.47 N	080.37 E	290080	73
2133404152	10/07/78	157	24	18594	D	35.37	144.06	10	EEEE	NO		CCCL	LLLL	51.47 N	086.10 E	290079	326
2132903462	10/07/78	152	24	18524	D	36.98	142.58	30	EEEE	NO		CCCL	LLLL	51.47 N	093.29 E	290079	477
2134016525	10/07/78	38	24	18685	D	33.26	145.87	20	EEEE	NO		CCCL	LLLL	51.47 N	103.18 W	290079	569
2134217043	10/07/78	40	24	18713	D	32.59	146.42	10	FEFE	NO		CCCL	LLLL	51.47 N	106.04 W	290079	659
2132417034	10/01/78	40	24	18462	D	38.37	141.25	30	EEFE	NO		CCCL	LLLL	51.47 N	106.06 W	290079	239
2134517215	10/22/78	43	24	18755	D	31.59	147.21	40	EEEE	NO		CCCL	LLLL	51.47 N	110.35 W	290080	172
2134817391	10/29/78	46	24	18797	D	30.57	147.98	NA	2222	NO		CCCL	LLLL	51.47 N	114.66 W	0	0
2134318533	10/08/78	59	24	18728	D	32.24	146.69	90	EFEM	NO		CCCL	HLLL	51.47 N	133.29 W	290079	779
2133319390	10/07/78	67	24	18589	D	35.50	143.04	40	EEEE	NO		CCCL	HLLL	51.47 N	144.77 W	290079	383
2133619562	10/07/78	70	24	18631	D	34.54	144.78	80	EEEE	NO		CCCL	HLLL	51.47 N	149.08 W	290079	430
2133721452	10/07/78	89	24	18646	D	34.19	145.09	10	EEEE	NO		CCCL	LLLL	51.47 N	176.32 W	290079	560
2133606101	10/07/78	177	24	18623	D	34.69	144.66	100	FFFE	NO		CCCL	LLLL	51.48 N	057.40 E	290079	354
2133405584	10/07/78	175	24	18595	D	35.35	144.08	0	EEEE	NO		CCCL	LLLL	51.48 N	060.27 E	290079	335
2133205470	10/07/78	173	24	18567	D	35.99	143.50	70	EEEF	NO		CCCL	LLLL	51.48 N	063.15 E	290079	496
2133604265	10/07/78	159	24	18622	D	34.73	144.62	0	EEEE	NO		CCCL	LLLL	51.48 N	083.23 E	290079	343
2134317102	10/07/78	41	24	18727	D	32.25	146.69	10	EEEE	NO		CCCL	LLLL	51.48 N	107.50 W	290080	56
2134417160	10/08/78	42	24	18741	D	31.91	146.97	40	EEEF	NO		CCCL	LLLL	51.48 N	108.95 W	290079	742
2134717332	10/15/78	45	24	18783	D	30.90	147.75	NA	2222	NO		CCCL	LLLL	51.48 N	113.25 W	0	0
2133820075	10/21/78	72	24	18659	D	33.88	145.36	80	EEFE	NO		CCCL	HLLL	51.48 N	151.96 W	290080	94
2133920134	10/21/78	73	24	18673	D	33.54	145.64	50	EEEE	NO		CCCL	HLLL	51.48 N	153.40 W	290080	108
2111821170	10/21/78	86	24	15592	S	18.03	142.71	NA	MMMM	NO		CCCL	LLLL	51.48 N	172.03 W	0	0
2133519503	10/07/78	69	24	18617	D	34.85	144.52	100	EEEE	NO		CCCL	HLLL	51.49 N	147.67 W	290079	407
2127006405	10/21/78	183	23	17703	D	50.50	130.03	100	FEFE	NO		CCCL	LLLL	52.84 N	049.58 E	290079	31
2128508074	10/01/78	198	23	17913	D	47.88	132.36	NA	MMMM	NO		CCCL	LLLL	52.85 N	028.06 E	0	0

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2134206443	10/07/78	183	23	18707	D	31.77	147.46	90	PFPE	NO		CCCL	LLLL	52.85 N	049.56 E	290079	647
2127003142	10/21/78	147	23	17701	D	50.52	130.02	10	FEFE	NO		CCCL	LLLL	52.85 N	101.20 E	290079	26
2128616495	10/01/78	38	23	17932	D	47.60	132.63	10	EEEE	NO		CCCL	LLLL	52.85 N	102.43 W	290079	182
2134320362	10/07/78	77	23	18729	D	31.25	147.85	70	PEEE	NO		CCCL	HLLL	52.85 N	158.37 W	290079	683
2130408142	10/01/78	199	23	18173	D	43.41	136.89	30	EEEE	NO		CCCL	LLLL	52.86 N	026.59 E	290079	213
2133407413	10/07/78	193	23	18596	D	34.41	145.35	100	FEFE	NO		CCCL	LLLL	52.86 N	035.20 E	290079	538
2133007182	10/01/78	189	23	18540	D	35.73	144.22	90	EEEE	NO		CCCL	LLLL	52.86 N	040.94 E	290079	157
2128606301	10/01/78	181	23	17926	D	47.68	132.58	10	EEEE	NO		CCCL	LLLL	52.86 N	052.41 F	290079	114
2130406311	10/01/78	181	23	18177	D	43.43	136.85	80	EEEE	NO		CCCL	LLLL	52.86 N	052.42 E	290079	202
2134006325	10/21/78	181	23	18679	D	32.44	146.94	70	EEEE	NO		CCCL	LLLL	52.86 N	052.42 E	290080	123
2128506243	10/01/78	180	23	17912	D	47.89	132.37	50	EEEE	NO		CCCL	LLLL	52.86 N	053.85 E	290079	167
2133606212	10/01/78	179	23	18651	D	33.12	146.41	70	PEEE	NO		CCCL	LLLL	52.86 N	055.29 E	290079	515
2134405124	10/08/78	167	23	18734	D	31.11	147.96	80	2EPE	NO		CCCL	LLLL	52.86 N	072.50 F	290079	737
2134205011	10/07/78	165	23	18706	D	31.79	147.45	80	PEFE	NO		CCCL	LLLL	52.86 N	075.36 E	290079	642
2128604470	10/01/78	163	23	17925	D	47.71	132.53	70	EEEE	NO		CCCL	LLLL	52.86 N	078.25 E	290079	96
2133003515	10/01/78	153	23	18533	D	35.76	144.20	10	EEEE	NO		CCCL	LLLL	52.86 N	092.57 E	290079	264
2132903430	10/07/78	152	23	18524	D	36.09	143.91	10	EEEE	NO		CCCL	LLLL	52.86 N	094.00 F	290079	476
2128703093	10/01/78	146	23	17938	D	47.50	132.75	NA	666M	NO		CCCL	LLLL	52.86 N	102.62 E	0	0
2128603034	10/29/78	145	23	17924	D	47.71	132.54	NA	MMMM	NO		CCCL	LLLL	52.86 N	104.05 F	0	0
2134016523	10/07/78	38	23	18685	D	32.29	147.06	20	EEEE	NO		CCCL	LLLL	52.86 N	102.46 W	290079	568
2130717081	10/29/78	41	23	18225	D	42.51	137.77	50	EEEE	NO		CCCL	LLLL	52.86 N	106.76 W	290079	41
2121917152	10/21/78	43	23	16998	D	50.69	132.61	50	EEEE	NO		CCCL	LLLL	52.86 N	109.63 V	290079	12
2133419442	10/07/78	68	23	18603	D	34.26	145.47	100	EEEE	NO		CCCL	HLLL	52.86 N	145.48 W	290079	390
2134220304	10/08/78	76	23	18715	D	31.58	147.60	90	EEEE	NO		CCCL	HLLL	52.86 N	156.93 W	290079	723
2134921110	10/15/78	83	23	18813	D	29.19	149.34	NA	2222	NO		CCCL	LLLL	52.86 N	166.98 W	0	0
2133723450	10/07/78	89	23	18646	D	33.25	146.30	30	FFEE	NO		CCCL	LLLL	52.86 N	175.61 W	290079	559
2128608133	10/01/78	199	23	17927	D	47.66	132.59	10	EEEE	NO		CCCL	LLLL	52.87 N	026.59 E	290079	128
2133808043	10/21/78	197	23	18652	D	33.08	146.44	70	FEFE	NO		CCCL	LLLL	52.87 N	029.45 E	290079	524
2133607530	10/29/78	195	23	18624	D	33.75	145.90	80	EEEE	NO		CCCL	LLLL	52.87 N	032.32 E	290080	413
2133207295	10/07/78	191	23	18568	D	35.06	144.80	10	EEEE	NO		CCCL	LLLL	52.87 N	038.06 E	290079	503
2134406560	10/08/78	185	23	18735	D	31.08	148.00	70	EEEE	NO		CCCL	LLLL	52.87 N	046.66 E	290079	784
2133005350	10/07/78	171	23	18539	D	35.73	144.23	0	EEEE	NO		CCCL	LLLL	52.87 N	066.73 E	290079	268
2134605242	10/08/78	169	23	18762	D	30.42	148.47	60	FEFE	NO		CCCL	LLLL	52.87 N	069.61 E	290079	807
2134004494	10/21/78	163	23	18678	D	32.46	146.93	10	EEEE	NO		CCCL	LLLL	52.87 N	078.22 E	290080	113
2133804380	10/21/78	161	23	18650	D	33.13	146.40	10	EEEE	NO		CCCL	LLLL	52.87 N	081.09 F	290080	72
2133404145	10/07/78	157	23	18594	D	34.46	145.31	10	EEEE	NO		CCCL	LLLL	52.87 N	086.81 E	290079	325
2133204032	10/07/78	155	23	18566	D	35.12	144.75	60	EEEE	NO		CCCL	LLLL	52.87 N	089.69 E	290079	491
2123203010	10/07/78	145	23	17171	D	52.06	130.92	30	EEEE	NO		CCCL	LLLL	52.87 N	104.03 E	290079	473
2132417031	10/01/78	40	23	18462	D	37.50	142.63	50	EE2E	NO		CCCL	LLLL	52.87 N	105.34 W	290079	238
2134217040	10/07/78	40	23	18713	D	31.62	147.58	20	FEFE	NO		CCCL	LLLL	52.87 N	105.34 W	290079	658

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2134517212	10/22/78	43	23	18755	D	30.60	148.34	70	EEEE	NO		CCCL	LLLL	52.87 N	109.64 W	290080	171
2130818571	10/29/78	60	23	18240	D	42.21	138.09	70	EEEE	NO		CCCL	LLLL	52.87 N	134.01 W	290079	60
2133319383	10/07/78	67	23	18589	D	34.58	145.21	30	EEEE	NO		CCCL	HLLL	52.87 N	144.03 W	290079	382
2133619555	10/07/78	70	23	18631	D	33.60	146.01	70	EEEE	NO		CCCL	HLLL	52.87 N	148.36 W	290079	429
2133920132	10/21/78	73	23	18673	D	32.59	146.83	60	EEEE	NO		CCCL	HLLL	52.87 N	152.68 W	290080	107
2133606094	10/07/78	177	23	18623	D	33.76	145.90	100	FFFF	NO		CCCL	LLLL	52.88 N	058.12 E	290079	353
2133405581	10/07/78	175	23	18595	D	34.43	145.34	0	EEEE	NO		CCCL	LLLL	52.88 N	061.00 E	290079	334
2133205464	10/07/78	173	23	18567	D	35.08	144.79	60	FFFF	NO		CCCL	LLLL	52.88 N	063.86 E	290079	495
2133604263	10/29/78	159	23	18622	D	33.80	145.86	10	FFFF	NO		CCCL	LLLL	52.88 N	083.94 E	290080	408
2134317095	10/07/78	41	23	18727	D	31.27	147.84	50	EEEE	NO		CCCL	LLLL	52.88 N	106.79 W	290080	55
2134717330	10/15/78	45	23	18783	D	29.90	148.85	100	FFFF	NO		CCCL	LLLL	52.88 N	112.53 W	290080	213
2133820073	10/21/78	72	23	18659	D	32.92	146.57	50	FFFF	NO		CCCL	HLLL	52.88 N	151.25 W	290080	93
2135021165	10/15/78	84	23	18827	D	28.85	149.57	60	EEEE	NO		CCCL	LLLL	52.88 N	168.46 W	290080	251
2111821163	10/21/78	86	23	15592	S	17.14	143.56	40	EEEE	NO		CCCL	LLLL	52.88 N	171.32 W	290079	11
2134417154	10/08/78	42	23	18741	D	30.93	148.10	20	EEEE	NO		CCCL	LLLL	52.89 N	108.25 W	290079	741
2133519501	10/07/78	69	23	18617	D	33.91	145.77	90	EEEE	NO		CCCL	HLLL	52.89 N	146.96 W	290079	406
2128508072	10/01/78	198	22	17918	D	47.21	134.28	10	EEEE	NO		CCCL	LLLL	54.24 N	028.81 E	290079	172
2127006403	10/21/78	183	22	17703	D	49.88	132.12	100	EEEE	NO		CCCL	LLLL	54.24 N	050.33 E	290079	30
2134320360	10/07/78	77	22	18729	D	30.27	149.01	80	PPFF	NO		CCCL	HLLL	54.24 N	157.61 W	290079	682
2133007175	10/01/78	189	22	18540	D	34.81	145.54	100	FFEE	NO		CCCL	LLLL	54.25 N	041.70 E	290079	156
2134206440	10/07/78	183	22	18707	D	30.79	148.63	90	PEEE	NO		CCCL	LLLL	54.25 N	050.31 E	290079	644
2130406304	10/01/78	181	22	18177	D	42.67	138.51	80	EEEE	NO		CCCL	LLLL	54.25 N	053.17 E	290079	201
2134006323	10/21/78	181	22	18679	D	31.47	148.14	90	EEEE	NO		CCCL	LLLL	54.25 N	053.17 E	290080	122
2133806205	10/21/78	179	22	18651	D	32.16	147.63	90	ZFFE	NO		CCCL	LLLL	54.25 N	056.04 E	290079	514
2134405122	10/08/78	167	22	18734	D	30.13	149.11	90	ZEFE	NO		CCCL	LLLL	54.25 N	073.25 E	290079	736
2134205005	10/07/78	165	22	18706	D	30.81	148.62	90	PEFE	NO		CCCL	LLLL	54.25 N	076.11 E	290079	641
2128604463	10/01/78	163	22	17925	D	47.03	134.43	80	EEEE	NO		CCCL	LLLL	54.25 N	079.00 E	290079	95
2128703090	10/01/78	146	22	17938	D	46.82	134.64	90	FFFM	NO		CCCL	LLLL	54.25 N	103.37 E	290079	251
2131217364	10/07/78	46	22	18295	D	40.28	140.75	NA	M222	NO		CCCL	LLLL	54.25 N	113.18 W	0	0
2134220301	10/08/78	76	22	18715	D	30.61	148.77	80	EEEE	NO		CCCL	HLLL	54.25 N	156.19 W	290079	722
2134921104	10/15/78	83	22	18813	D	28.17	150.43	60	EEEE	NO		CCCL	LLLL	54.25 N	166.23 W	290080	239
2128608130	10/01/78	199	22	17927	D	46.99	134.50	10	EEEE	NO		CCCL	LLLL	54.26 N	027.34 E	290079	127
2130408140	10/01/78	199	22	18178	D	42.64	138.55	20	EEEE	NO		CCCL	LLLL	54.26 N	027.34 E	290079	212
2133808041	10/21/78	197	22	18652	D	32.13	147.66	90	FFFF	NO		CCCL	LLLL	54.26 N	030.20 E	290079	523
2133607524	10/29/78	195	22	18624	D	32.80	147.14	90	EEEE	NO		CCCL	LLLL	54.26 N	033.08 E	290080	412
2133407410	10/07/78	193	22	18596	D	33.47	148.62	100	EEEE	NO		CCCL	LLLL	54.26 N	035.95 E	290079	537
2133207293	10/07/78	191	22	18568	D	34.14	146.89	10	FFFF	NO		CCCL	LLLL	54.26 N	038.82 E	290079	502
2128606295	10/01/78	181	22	17926	D	47.00	134.48	30	EEEE	NO		CCCL	LLLL	54.26 N	053.16 E	290079	113
2134605235	10/08/78	169	22	18762	D	29.43	149.60	50	FEFE	NO		CCCL	LLLL	54.26 N	070.37 E	290079	806
2134004491	10/21/78	163	22	18678	D	31.48	148.14	20	EEEE	NO		CCCL	LLLL	54.26 N	078.98 E	290080	112

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STANDARD CATALOG
LANDSAT 2 MSS SENSOR
FROM 10/31/78 TO 10/31/78

OBSERVATION ID	ENTRY DATE	PATH	ROW #	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM* ROLL	MIC FILM FRAME
2133804374	10/21/78	161	22	18650	D	32.17	147.62	NA	MMMM	NO						
2133204030	10/07/78	155	22	18566	D	34.19	146.04	40	EEEE	NO	CCCL	LLLL	54.26 N	081.85 E		0
2133103571	10/07/78	154	22	18552	D	34.52	145.77	40	EEEE	NO	CCCL	LLLL	54.26 N	090.45 E		0
2133003512	10/07/78	153	22	18538	D	34.84	145.52	20	EEEE	NO	CCCL	LLLL	54.26 N	091.89 E	290079	490
2132903453	10/07/78	152	22	18524	D	35.18	145.23	60	EEEE	NO	CCCL	LLLL	54.26 N	093.32 E	290079	481
2130818565	10/29/78	60	22	18240	D	41.42	139.69	70	EEEE	NO	CCCL	LLLL	54.26 N	094.75 E	290079	263
2133319381	10/07/78	67	22	18589	D	33.65	146.47	40	EEEE	NO	CCCL	LLLL	54.26 N	133.27 W	290079	475
2133419440	10/07/78	68	22	18603	D	33.32	146.73	100	EEEE	NO	CCCL	HLLL	54.26 N	143.30 W	290079	59
2134406553	10/08/78	185	22	18735	D	30.09	149.15	80	EEEE	NO	CCCL	HLLL	54.26 N	144.72 W	290079	381
2133606092	10/07/78	177	22	18623	D	32.81	147.14	60	EFEE	NO	CCCL	LLLL	54.27 N	047.41 E	290079	389
2133405575	10/07/78	175	22	18595	D	33.49	146.61	0	EEEE	NO	CCCL	LLLL	54.27 N	047.41 E	290079	783
2133105402	10/07/78	172	22	18553	D	34.49	145.81	20	EEEE	NO	CCCL	LLLL	54.27 N	058.87 E	290079	352
2133005344	10/07/78	171	22	18539	D	34.81	145.55	10	EEEE	NO	CCCL	LLLL	54.27 N	061.75 F	290079	333
2133604260	10/29/78	159	22	18622	D	32.85	147.10	10	EEEE	NO	CCCL	LLLL	54.27 N	066.05 E	290079	483
2133404143	10/07/78	157	22	18594	D	33.52	146.57	10	EEEE	NO	CCCL	LLLL	54.27 N	067.48 E	290079	267
2134817382	10/07/78	46	22	18797	D	28.57	150.17	NA	2222	NO	CCCL	LLLL	54.27 N	084.70 E	290079	267
2132418460	10/01/78	58	22	18463	D	36.58	144.06	70	FE2E	NO	CCCL	LLLL	54.27 N	087.57 E	290079	407
2133619553	10/07/78	70	22	18631	D	32.65	147.25	70	FE2E	NO	CCCL	LLLL	54.27 N	113.20 W		0
2133920125	10/21/78	73	22	18673	D	31.62	148.03	70	FE2E	NO	CCCL	HLLL	54.27 N	130.41 W	290079	92
2111821161	10/21/78	86	22	18592	S	16.24	144.42	40	FE2E	NO	CCCL	HLLL	54.27 N	147.61 W	290079	428
2133205461	10/07/78	173	22	18567	D	34.15	146.08	50	FE2E	NO	CCCL	HLLL	54.27 N	151.92 W	290080	106
2133519494	10/07/78	69	22	18617	D	32.97	147.01	90	FE2E	NO	CCCL	LLLL	54.28 N	170.56 W	290079	10
2133820070	10/21/78	72	22	18659	D	31.96	147.78	60	FE2E	NO	CCCL	HLLL	54.28 N	064.60 E	290079	494
2135021162	10/15/78	84	22	18827	D	27.84	150.65	50	FE2E	NO	CCCL	HLLL	54.28 N	146.21 W	290079	405
2127006400	10/21/78	183	21	17703	D	49.22	134.20	90	FE2E	NO	CCCL	LLLL	54.28 N	150.50 W	290080	92
2128508065	10/01/78	198	21	17913	D	46.50	136.20	30	FE2E	NO	CCCL	LLLL	55.62 N	167.71 W	290080	250
2126418081	10/21/78	52	21	17626	D	49.93	133.86	90	FE2E	NO	CCCL	LLLL	55.62 N	051.13 E	290079	29
2134320353	10/07/78	77	21	18729	D	29.27	150.18	NA	MMMM	NO	CCCL	LLLL	55.63 N	029.61 E	290079	171
2133407404	10/07/78	193	21	18596	D	32.52	147.89	90	EEEE	NO	CCCL	HLLL	55.63 N	120.96 W	290079	23
2133007173	10/01/78	189	21	18540	D	33.88	146.86	90	EEEE	NO	CCCL	LLLL	55.63 N	156.81 W		0
2130406302	10/01/78	181	21	18177	D	41.87	140.18	90	EEEE	NO	CCCL	LLLL	55.64 N	036.75 E	290079	536
2134006320	10/21/78	181	21	18679	D	30.50	149.35	NA	MMMM	NO	CCCL	LLLL	55.64 N	042.50 E	290079	155
2133806203	10/21/78	179	21	18651	D	31.19	148.86	80	PEFE	NO	CCCL	LLLL	55.64 N	053.97 E	290079	200
2134605233	10/08/78	169	21	18762	D	28.43	150.75	80	PEFE	NO	CCCL	LLLL	55.64 N	053.98 E		0
2134405115	10/08/78	167	21	18734	D	29.13	150.27	80	PEFE	NO	CCCL	LLLL	55.64 N	056.84 E	290079	513
2134205002	10/07/78	165	21	18706	D	29.83	149.81	50	PEFE	NO	CCCL	LLLL	55.64 N	071.17 E	290079	835
2128604461	10/01/78	163	21	17925	D	46.32	136.35	80	EEEE	NO	CCCL	LLLL	55.64 N	074.05 E	290079	735
2133804371	10/21/78	161	21	18650	D	31.20	148.85	NA	MMMM	NO	CCCL	LLLL	55.64 N	076.92 E	290079	640
2133103564	10/07/78	154	21	18552	D	33.59	147.09	90	EEEE	NO	CCCL	LLLL	55.64 N	079.79 E	290079	94
2128703084	10/01/78	146	21	17938	D	46.11	136.54	100	FE2E	NO	CCCL	LLLL	55.64 N	082.65 E		0
													104.17 F	290079	480	250

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LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELFV	SUN AZIM	% CLD COVER	QUALITY 4547	CCM	CCM GLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133618115	10/07/78	52	21	18630	D	31.72	148.46	40	EEEE	NO				CCCL LLLL	55.64 N 120.98 W	290079	376
2122818063	10/21/78	52	21	17124	D	50.45	135.61	0	FFEF	NO				CCCL LLLL	55.64 N 121.00 W	290079	16
2133419433	10/07/78	68	21	18603	D	32.37	148.00	90	EEEE	NO				CCCL HHLL	55.64 N 143.92 W	290079	388
2134921191	10/15/78	83	21	18813	D	27.15	151.54	80	EEEE	NO				CCCL LLLL	55.64 N 165.44 W	290080	238
2128608124	10/01/78	199	21	17927	D	46.28	136.40	10	EEEE	NO				CCCL LLLL	55.65 N 028.14 E	290079	126
2130408133	10/01/78	199	21	18178	D	41.85	140.21	10	EEEE	NO				CCCL LLLL	55.65 N 028.14 E	290079	211
2133808035	10/21/78	197	21	18652	D	31.16	148.88	90	EEEE	NO				CCCL LLLL	55.65 N 031.01 E	290079	522
2133607521	10/29/78	195	21	18624	D	31.84	148.40	90	EEEE	NO				CCCL LLLL	55.65 N 033.87 F	290080	411
2133207290	10/07/78	191	21	18568	D	33.20	147.39	50	EEEE	NO				CCCL LLLL	55.65 N 039.52 E	290079	501
2134607064	10/08/78	187	21	18763	D	28.40	150.76	100	2FPE	NO				CCCL LLLL	55.65 N 045.35 C	290080	14
2134406551	10/08/78	185	21	18735	D	29.09	150.31	NA	F222	NO				CCCL LLLL	55.65 N 048.21 E	290079	732
2128606292	10/01/78	181	21	17926	D	46.30	136.38	40	EEEE	NO				CCCL LLLL	55.65 N 053.96 E	290079	112
2134004485	10/21/78	163	21	18678	D	30.51	149.34	10	EEEE	NO				CCCL LLLL	55.65 N 058.78 E	290080	111
2133204023	10/07/78	155	21	18566	D	33.25	147.35	40	EEEE	NO				CCCL LLLL	55.65 N 063.59 E	290079	489
2133003510	10/07/78	153	21	18538	D	33.91	146.84	70	EEEE	NO				CCCL LLLL	55.65 N 068.41 E	290079	262
2132903451	10/07/78	152	21	18524	D	34.26	146.57	90	EEEE	NO				CCCL LLLL	55.65 N 073.23 E	290079	474
2135318065	10/22/78	51	21	18867	D	25.81	152.34	20	EEEE	NO				CCCL LLLL	55.65 N 119.56 W	290080	204
2130813562	10/29/78	60	21	18240	D	40.60	141.30	60	EEEE	NO				CCCL LLLL	55.65 N 132.47 W	290079	58
2133314374	10/07/78	67	21	18589	D	32.70	147.75	40	EEEE	NO				CCCL HHLL	55.65 N 142.50 W	290079	380
2133619551	10/07/78	70	21	18631	D	31.68	148.50	50	EEEE	NO				CCCL HHLL	55.65 N 146.81 W	290079	427
2134220295	10/08/78	76	21	18715	D	29.61	149.96	90	EEEE	NO				CCCL HHLL	55.65 N 155.40 W	290079	721
2111821155	10/21/78	86	21	15592	S	15.34	145.31	70	EEEE	NO				CCCL LLLL	55.65 N 169.76 W	290079	9
2133606085	10/07/78	177	21	18623	D	31.85	148.40	40	EEEE	NO				CCCL LLLL	55.66 N 059.67 E	290079	351
2133405572	10/07/78	175	21	18595	D	32.55	147.89	0	EEEE	NO				CCCL LLLL	55.66 N 062.54 E	290079	352
2133105400	10/07/78	172	21	18553	D	33.53	147.13	20	EEEE	NO				CCCL LLLL	55.66 N 066.85 E	290079	482
2133005341	10/07/78	171	21	18539	D	33.88	146.87	10	EEEE	NO				CCCL LLLL	55.66 N 068.28 E	290079	266
2132905282	10/07/78	170	21	18525	D	34.21	146.61	50	EEEE	NO				CCCL LLLL	55.66 N 069.72 E	290079	254
2133604254	10/29/78	154	21	18622	D	31.89	148.35	10	EFPE	NO				CCCL LLLL	55.66 N 085.50 E	290080	406
2133404140	10/07/78	157	21	18594	D	32.57	147.86	10	EEEE	NO				CCCL LLLL	55.66 N 088.37 F	290079	323
2133518060	10/07/78	51	21	18616	D	32.04	148.25	80	EEEE	NO				CCCL LLLL	55.66 N 119.58 W	290079	342
2132418454	10/01/78	58	21	18463	D	35.67	145.46	80	FE2E	NO				CCCL LLLL	55.66 N 129.61 W	290079	91
2133820064	10/21/78	72	21	18659	D	30.99	149.00	40	EEEE	NO				CCCL HHLL	55.66 N 149.70 W	290080	91
2133920123	10/21/78	73	21	18673	D	30.65	149.25	80	EEEE	NO				CCCL HHLL	55.66 N 151.12 W	290080	105
2135021160	10/15/78	84	21	18827	D	26.82	151.75	90	EEEE	NO				CCCL LLLL	55.66 N 166.91 W	290080	249
2133205455	10/07/78	173	21	18567	D	33.21	147.38	50	EEEE	NO				CCCL LLLL	55.67 N 065.40 E	290079	493
2133519492	10/07/78	69	21	18617	D	32.00	148.28	90	EEEE	NO				CCCL HHLL	55.68 N 145.42 W	290079	404
2127006394	10/21/78	183	20	17703	D	48.53	136.28	80	FEFE	NO				CCCL LLLL	57.01 N 051.97 E	290079	28
2133007170	10/01/78	189	20	18540	D	32.93	148.21	80	EEEE	NO				CCCL LLLL	57.02 N 043.35 E	290079	154
2134006314	10/21/78	181	20	18679	D	29.51	150.57	100	EEEE	NO				CCCL LLLL	57.02 N 054.83 F	290080	121
2133806200	10/21/78	179	20	18651	D	30.20	150.11	50	FEFE	NO				CCCL LLLL	57.02 N 057.69 E	290079	512

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STANDARD CATALOG
LANDSAT 2 MSS SENSOR
FROM 10/01/78 TO 10/31/78

OBSERVATION ID	ENTRY DATE	PATH	ROW	CORET #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLT	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2134205060	10/07/78	165	20	18706	D	28.83	151.02	0	EEEE	NO							
2128604454	10/01/78	165	20	17925	D	45.58	138.26	60	EEEE	NO				CCCL LLLL	57.02 N	077.77 E	
2134004482	10/07/78	163	20	18678	D	29.53	150.56	10	EEEE	NO				CCCL LLLL	57.02 N	080.64 E	290079
2133319372	10/07/78	67	20	18589	D	31.75	149.04	70	EEEE	NO				CCCL LLLL	57.02 N	141.64 W	290079
2133419431	10/07/78	68	20	18603	D	31.41	149.28	90	EEEE	NO				CCCL HLLL	57.02 N	143.06 W	290079
2134921095	10/15/78	83	20	18813	D	26.13	152.67	50	EEEE	NO				CCCL LLLL	57.02 N	164.59 W	290079
2128608121	10/01/78	199	20	17927	D	45.54	138.31	10	EEEE	NO				CCCL LLLL	57.03 N	029.00 E	290079
2130408131	10/01/78	199	20	18174	D	41.03	141.90	20	EEEE	NO				CCCL LLLL	57.03 N	029.00 E	290079
2133808032	10/21/78	197	20	18652	D	30.17	150.14	70	EEEE	NO				CCCL LLLL	57.03 N	031.86 F	290079
2133402401	10/07/78	193	20	18596	D	31.50	149.19	90	EEEE	NO				CCCL LLLL	57.03 N	037.60 E	290079
2133207284	10/07/78	191	20	18568	D	32.25	148.70	90	EEEE	NO				CCCL LLLL	57.03 N	040.47 E	290079
2134607062	10/08/78	187	20	18763	D	27.38	151.93	100	FFFE	NO				CCCL LLLL	57.03 N	046.20 E	290079
2128606290	10/01/78	181	20	17926	D	45.56	138.29	60	EEEE	NO				CCCL LLLL	57.03 N	054.81 E	290080
2130406295	10/01/78	181	20	18177	D	41.06	141.87	90	EEEE	NO				CCCL LLLL	57.03 N	072.02 E	290079
2134605230	10/08/78	169	20	18782	D	27.41	151.90	90	FFFE	NO				CCCL LLLL	57.03 N	074.90 E	290079
2134405113	10/08/78	167	20	18734	D	28.12	151.47	90	FFFE	NO				CCCL LLLL	57.03 N	083.50 E	290079
2133804365	10/21/78	101	20	18650	D	30.22	150.11	80	EEEE	NO				CCCL LLLL	57.03 N	092.10 E	290079
2133204021	10/07/78	155	20	18566	D	32.29	148.67	10	EEEE	NO				CCCL LLLL	57.03 N	093.54 E	290079
2133103562	10/07/78	154	20	18552	D	32.64	148.42	60	EEEE	NO				CCCL LLLL	57.03 N	096.40 E	290079
2132903444	10/29/78	152	20	18524	D	33.31	147.93	90	EEEE	NO				CCCL LLLL	57.03 N	161.71 W	290080
2134720582	10/29/78	81	20	18785	D	26.85	152.25	NA	2222	NO				CCCL LLLL	57.03 N	168.91 W	290079
2111821152	10/21/78	86	20	18592	S	14.44	146.22	100	EEEE	NO				CCCL LLLL	57.03 N	034.72 E	290080
2133607515	10/29/78	195	20	18624	D	30.86	149.68	90	FFFE	NO				CCCL LLLL	57.04 N	063.40 E	290079
2133405570	10/07/78	175	20	18595	D	31.57	149.10	10	EEEE	NO				CCCL LLLL	57.04 N	086.35 E	290079
2133604251	10/07/78	159	20	18622	D	30.91	149.64	10	FFFE	NO				CCCL LLLL	57.04 N	089.22 E	290079
2133404134	10/07/78	157	20	18594	D	31.61	149.15	20	EEEE	NO				CCCL LLLL	57.04 N	094.96 E	290079
2133003503	10/07/78	153	20	18538	D	32.47	148.18	60	EEEE	NO				CCCL LLLL	57.04 N	131.62 W	290079
2130818560	10/29/78	60	20	18240	D	39.75	142.93	50	EEEE	NO				CCCL LLLL	57.04 N	145.96 W	290079
2133619544	10/07/78	70	20	18631	D	30.71	149.77	60	EEEE	NO				CCCL LLLL	57.04 N	150.27 W	290080
2133920120	10/21/78	73	20	18673	D	29.66	150.47	80	EEEE	NO				CCCL HLLL	57.04 N	166.05 W	290079
2135021154	10/15/78	84	20	18827	D	25.79	152.86	90	EEEE	NO				CCCL HLLL	57.04 N	060.52 E	290080
2133606083	10/07/78	177	20	18623	D	30.88	149.67	40	EEEE	NO				CCCL LLLL	57.05 N	069.13 E	290079
2133005335	10/07/78	171	20	18539	D	32.94	148.21	60	EEEE	NO				CCCL LLLL	57.05 N	148.84 W	290079
2133820061	10/21/78	72	20	18650	D	30.01	150.25	40	EEEE	NO				CCCL LLLL	57.05 N	066.25 E	290079
2133205452	10/07/78	173	20	18567	D	32.25	148.71	70	EEEE	NO				CCCL HLLL	57.05 N	144.58 W	290079
2133519485	10/07/78	69	20	18617	D	31.02	149.57	90	EEEE	NO				CCCL LLLL	57.06 N	052.88 F	290079
2127006391	10/21/78	183	19	17703	D	47.80	138.36	80	EEEE	NO				CCCL HLLL	58.39 N	140.72 W	290079
2133319365	10/07/78	67	19	18589	D	30.78	150.36	40	EEEE	NO				CCCL LLLL	58.40 N	044.26 E	290079
2133007164	10/01/78	189	19	18540	D	31.98	149.57	70	EEEE	NO				CCCL LLLL	58.40 N	044.26 E	290079
2134807173	10/21/78	189	19	18791	D	25.45	153.52	100	EEEE	NO				CCCL LLLL	58.40 N		290080

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2134006311	10/21/78	181	19	18679	D	28.50	151.83	100	EFEE	NO		CCCL	LLLL	58.40 N	055.73 E	290080	120
2133419424	10/07/78	68	19	18603	D	30.43	150.59	50	EEEE	NO		CCCL	HLLL	58.40 N	142.16 W	290079	386
2134921093	10/15/78	83	19	18813	D	25.09	153.83	10	EEEE	NO		CCCL	LLLL	58.40 N	163.67 W	290080	236
2128608115	10/01/78	199	19	18178	D	44.78	140.22	10	EEEE	NO		CCCL	LLLL	58.41 N	029.90 E	290079	124
2130408124	10/01/78	199	19	18178	D	40.19	143.59	40	FFFF	NO		CCCL	LLLL	58.41 N	029.90 E	290079	209
2133808030	10/21/78	197	19	18652	D	29.18	151.42	80	EEEE	NO		CCCL	LLLL	58.41 N	032.76 F	290079	520
2133407395	10/07/78	193	19	18596	D	30.58	150.51	90	FFFF	NO		CCCL	LLLL	58.41 N	033.51 E	290079	534
2133207281	10/07/78	191	19	18568	D	31.28	150.05	90	EEEE	NO		CCCL	LLLL	58.41 N	041.37 F	290079	499
2134607055	10/08/78	187	19	18763	D	26.36	153.13	90	FFFF	NO		CCCL	LLLL	58.41 N	047.11 F	290079	81J
2128606283	10/01/78	181	19	17926	D	44.79	140.21	90	EEEE	NO		CCCL	LLLL	58.41 N	055.72 E	290079	110
2130406293	10/01/78	181	19	18177	D	40.21	143.57	80	EEEE	NO		CCCL	LLLL	58.41 N	055.72 E	290079	198
2133806194	10/21/78	179	19	18651	D	29.21	151.39	70	FFFF	NO		CCCL	LLLL	58.41 N	058.59 E	290079	511
2134720575	10/29/78	81	19	18785	D	25.82	153.42	40	EEEE	NO		CCCL	LLLL	58.41 N	160.82 W	290080	431
2134821034	10/29/78	82	19	18799	D	25.44	153.64	10	EEEE	NO		CCCL	LLLL	58.41 N	162.26 W	290080	170
2111821150	10/21/78	86	19	15592	S	13.52	147.18	90	FFFF	NO		CCCL	LLLL	58.41 N	168.00 W	290079	7
2133607512	10/29/78	195	19	18624	D	29.87	150.91	90	FFFF	NO		CCCL	LLLL	58.42 N	035.63 F	290079	409
2133405563	10/07/78	175	19	18595	D	30.59	150.51	30	EEEE	NO		CCCL	LLLL	58.42 N	064.30 F	290079	330
2133404131	10/07/78	157	19	18594	D	30.63	150.48	NA	MMMM	NO		CCCL	LLLL	58.42 N	090.12 E	0	0
2133619542	10/07/78	70	19	18631	D	29.72	151.06	90	EEEE	NO		CCCL	HLLL	58.42 N	145.06 W	290079	425
2133820055	10/21/78	72	19	18659	C	29.01	151.52	50	EEEE	NO		CCCL	HLLL	58.42 N	147.92 W	290080	89
2133920114	10/21/78	73	19	18673	D	28.67	151.73	90	EEEE	NO		CCCL	HLLL	58.42 N	149.36 W	290080	103
2133606080	10/07/78	177	19	18623	D	29.49	150.97	90	EEEE	NO		CCCL	LLLL	58.43 N	061.43 E	290079	349
2111819314	10/21/78	68	19	15591	S	13.47	147.21	NA	MMMM	NO		CCCL	LLLL	58.43 N	142.21 W	0	0
2135021151	10/15/78	84	19	18827	D	24.74	154.82	70	EEEE	NO		CCCL	LLLL	58.43 N	165.15 W	290080	247
2133519483	10/07/78	69	19	18617	D	30.04	150.88	90	EEEE	NO		CCCL	HLLL	58.46 N	143.68 W	290079	402
2133319363	10/07/78	67	18	18589	D	29.81	151.71	50	EEEE	NO		CCCL	HLLL	59.76 N	139.75 W	290079	377
2134921090	10/15/78	83	18	18813	D	24.06	155.02	0	EEEE	NO		CCCL	LLLL	59.76 N	162.68 W	290080	235
2128609544	10/01/78	217	18	17926	D	43.98	142.15	NA	MMMM	NO		CCCL	HLLL	59.77 N	065.08 E	0	0
2133007161	10/07/78	189	18	18540	D	31.00	150.98	90	EEEE	NO		CCCL	LLLL	59.77 N	045.23 E	290079	478
2134807170	10/21/78	189	18	18791	D	24.61	154.75	90	EEEE	NO		CCCL	LLLL	59.77 N	045.23 F	290080	127
2130408122	10/01/78	199	18	18178	D	39.33	145.31	60	FFFF	NO		CCCL	LLLL	59.78 N	030.67 E	290079	208
2133407392	10/07/78	193	18	18596	D	29.59	151.87	30	EEEE	NO		CCCL	LLLL	59.78 N	039.48 E	290079	533
2133207275	10/07/78	191	18	18568	D	30.30	151.44	100	EEEE	NO		CCCL	LLLL	59.78 N	042.34 F	290079	498
2111821143	10/21/78	86	18	15592	S	12.60	148.19	100	EEEE	NO		CCCL	LLLL	59.78 N	167.03 W	290079	6
2128608112	10/01/78	199	18	17927	D	43.99	142.16	10	EEEE	NO		CCCL	LLLL	59.79 N	030.87 E	290079	123
2133820052	10/21/78	72	18	18659	D	28.01	152.83	50	MMMM	NO		CCCL	HLLL	59.79 N	146.95 W	290080	68
2134220283	10/08/78	76	18	18715	D	26.57	153.67	100	EEEE	NO		CCCL	LLLL	59.79 N	152.69 W	290079	720
2134320342	10/07/78	77	18	18729	D	26.21	153.87	90	FFFF	NO		CCCL	LLLL	59.79 N	154.12 W	290079	681
2134720573	10/29/78	81	18	18785	D	24.76	154.64	10	EEEE	NO		CCCL	LLLL	59.79 N	159.85 W	290080	430
2134821031	10/29/78	82	18	18799	D	24.40	154.86	0	EEEE	NO		CCCL	LLLL	59.79 N	161.29 W	290080	169

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2131919573	10/01/78	71	15	18394	D	31.67	153.52	10	FEFC	NO		CCCL	LLLL	63.89 N	142.14 W	290079	88
2135021133	10/15/78	84	15	18827	D	20.48	159.17	0	EEEF	NO		CCCL	LLLL	63.89 N	160.79 W	290080	243
2133621355	10/07/78	88	15	18632	D	25.63	156.75	50	PEEE	NO		CCCL	LLLL	63.89 N	166.52 W	290079	549
2132820493	10/29/78	80	15	18520	D	28.51	155.27	20	EEEE	NO		CCCL	LLLL	63.91 N	155.07 W	290079	460
2134921072	10/15/78	83	14	18813	S	19.81	160.44	0	FEFE	NO		CCCL	LLLL	65.17 N	157.95 W	290080	233
2135121185	10/29/78	85	14	18841	S	19.17	160.75	0	EEEE	NO		CCCL	LLLL	65.18 N	160.84 W	290080	440
2135321303	10/15/78	87	14	18669	S	18.33	161.05	100	EEEE	NO		CCCL	LLLL	65.18 N	163.70 W	290080	290
2128509471	10/01/78	216	14	17914	D	40.82	150.19	80	FEFE	NO		CCCL	HLLL	65.20 N	011.23 E	290079	179
2128620124	10/07/78	74	14	17934	D	40.49	150.33	10	EEEE	NO		CCCL	LLLL	65.20 N	145.07 W	290079	303
2134420383	10/08/78	78	14	18743	D	21.67	159.87	20	FEFE	NO		CCCL	LLLL	65.20 W	150.00 W	290079	802
2134220265	10/08/78	76	14	18715	D	22.39	159.36	90	FEFE	NO		CCCL	LLLL	65.21 N	147.1 W	290079	716
2134320324	10/07/78	77	14	18729	D	22.62	159.53	90	PEEE	NO		CCCL	LLLL	65.21 N	149.37 W	290079	677
2134821013	10/29/78	82	14	18799	D	20.16	160.32	0	FEFE	NO		CCCL	LLLL	65.21 N	156.56 W	290080	165
2123420214	10/21/78	76	14	17209	D	45.35	150.34	30	EEEF	NO		CCCL	LLLL	65.22 N	147.96 W	290079	22
2134720555	10/29/78	81	14	18785	D	20.55	160.15	0	EEEE	NO		CCCL	LLLL	65.22 N	155.14 W	290080	426
2135221244	10/15/78	86	14	18855	S	18.66	160.94	10	EEEF	NO		CCCL	LLLL	65.22 N	162.30 W	290080	264
2132020025	10/01/78	72	14	18408	D	30.34	155.50	10	FEFE	NO		CCCL	LLLL	65.23 N	142.23 W	290079	90
2133621353	10/07/78	88	14	18632	D	24.60	158.34	80	FEFE	NO		CCCL	LLLL	65.23 N	165.19 W	290079	548
2131919570	10/01/78	71	14	18394	D	30.68	155.32	30	FEFE	NO		CCCL	LLLL	65.24 N	140.81 W	290079	87
2135021131	10/15/78	84	14	18827	S	19.40	160.65	NA	HMMM	NO		CCCL	LLLL	65.24 N	159.45 W	U	0
2132820491	10/29/78	80	14	18520	D	27.51	156.93	70	EEEE	NO		CCCL	LLLL	65.25 N	153.72 W	290079	459
2134921070	10/15/78	83	13	18813	S	18.73	162.64	0	FEFE	NO		CCCL	LLLL	66.51 N	156.50 W	290080	232
2135121183	10/29/78	85	13	18841	S	17.99	162.31	0	EEFE	NO		CCCL	LLLL	66.51 N	159.36 W	290080	439
2135321300	10/15/78	87	13	18869	S	17.23	162.60	90	EEEE	NO		CCCL	LLLL	66.52 N	162.25 W	290080	289
2128620121	10/07/78	74	13	17934	D	39.59	152.52	10	PEEE	NO		CCCL	LLLL	66.53 N	143.60 W	290079	302
2134220263	10/08/78	76	13	18715	D	21.34	161.01	90	FEFE	NO		CCCL	LLLL	66.53 N	146.48 W	290079	715
2134320321	10/07/78	77	13	18729	D	20.96	161.17	10	FEFE	NO		CCCL	LLLL	66.53 N	147.90 W	290079	676
2134420380	10/08/78	78	13	18743	D	20.60	161.30	30	PEEE	NO		CCCL	LLLL	66.53 N	149.34 W	290079	801
2134821011	10/29/78	82	13	18799	S	19.08	161.93	0	EEEE	NO		CCCL	LLLL	66.55 N	155.09 W	290080	164
2135221241	10/15/78	86	13	18855	S	17.57	162.51	10	EEEF	NO		CCCL	LLLL	66.55 N	160.83 W	290080	263
2123420211	10/21/78	76	13	17209	D	44.44	152.72	40	EEFF	NO		CCCL	LLLL	66.56 N	146.50 W	290079	21
2134720552	10/29/78	81	13	18785	S	19.47	161.76	0	PPPP	NO		CCCL	LLLL	66.56 N	153.66 W	290080	425
2133521291	10/07/78	87	13	18818	D	23.94	159.86	60	EEFE	NO		CCCL	LLLL	66.56 N	162.27 W	290079	439
2132020023	10/01/78	72	13	18408	D	29.34	157.35	0	FEFE	NO		CCCL	LLLL	66.57 N	140.77 W	290079	89
2132820484	10/29/78	80	13	18520	D	26.50	158.69	90	FEFE	NO		CCCL	LLLL	66.57 N	152.25 W	290079	458
2135021124	10/15/78	84	13	18827	S	18.32	162.23	NA	HMMM	NO		CCCL	LLLL	66.57 N	157.98 W	U	0
2133621350	10/07/78	88	13	18632	D	23.56	160.64	30	FEFE	NO		CCCL	LLLL	66.57 N	163.72 W	290079	547
2135121180	10/29/78	85	12	18841	S	16.90	164.01	20	EEFE	NO		CCCL	LLLL	67.83 N	157.75 W	290080	438
2128620115	10/07/78	74	12	17934	D	38.69	154.81	10	EEEE	NO		CCCL	LLLL	67.84 N	141.98 W	290079	301
2134420374	10/08/78	78	12	18743	S	19.52	163.07	20	PEEE	NO		CCCL	LLLL	67.84 N	147.71 W	290079	800

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2134921063	10/15/78	83	12	18813	S	17.64	163.77	10	EEEE	NO								
2135321294	10/15/78	87	12	18869	S	16.13	164.30	70	EEEE	NO	CCCL	LLLL	67.84	N	154.88	W	290080	231
2134320315	10/07/78	77	12	18729	S	19.90	162.92	20	FFFF	NO	CCCL	LLLL	67.84	N	160.61	W	290080	268
2134220267	10/08/78	76	12	18715	D	20.27	162.78	30	FFEE	NO	CCCL	LLLL	67.85	N	146.28	W	290079	675
2134321004	10/29/78	82	12	18799	S	17.99	163.67	30	EEEE	NO	CCCL	LLLL	67.86	N	144.86	W	290079	714
2123420205	10/21/78	76	12	18209	D	43.52	155.21	90	EEFF	NO	CCCL	LLLL	67.86	N	153.46	W	290080	163
2132820482	10/29/78	80	12	18520	D	25.48	160.58	90	EEEE	NO	CCCL	LLLL	67.87	N	144.86	W	290079	21
2135221235	10/15/78	86	12	18855	S	16.48	164.21	10	EEEE	NO	CCCL	LLLL	67.87	N	150.61	W	290079	457
2135021122	10/15/78	84	12	18827	S	17.22	163.96	10	EEEE	NO	CCCL	LLLL	67.87	N	159.21	W	290080	262
2133521285	10/07/78	87	12	18618	D	22.59	161.70	50	EEEE	NO	CCCL	LLLL	67.88	N	156.34	W	290080	242
2133621344	10/07/78	88	12	18632	D	22.51	161.86	0	FFFF	NO	CCCL	LLLL	67.88	N	160.65	W	290079	438
2135121174	10/29/78	85	11	18841	S	15.41	165.87	90	EECF	NO	CCCL	LLLL	67.88	N	162.09	W	290079	546
2128620112	10/07/78	74	11	17934	D	37.75	157.20	20	FFEE	NO	CCCL	LLLL	69.13	N	155.94	W	290080	437
2134420371	10/08/78	78	11	18743	S	18.45	165.00	70	PEEE	NO	CCCL	LLLL	69.14	N	140.18	W	290079	300
2134921061	10/15/78	83	11	18813	S	16.54	165.66	90	EEEE	NO	CCCL	LLLL	69.14	N	145.91	W	290079	799
2134320312	10/07/78	77	11	18729	S	18.83	164.85	70	FFFF	NO	CCCL	LLLL	69.14	N	153.08	W	290080	230
2135321291	10/15/78	87	11	18869	S	15.03	166.16	100	EEEE	NO	CCCL	LLLL	69.15	N	144.48	W	290079	674
2134220254	10/08/78	76	11	18715	S	19.20	164.71	70	EEFF	NO	CCCL	LLLL	69.15	N	152.82	W	290080	287
2135221232	10/15/78	86	11	18855	S	15.39	166.07	90	EECE	NO	CCCL	LLLL	69.16	N	143.05	W	290079	713
2123420202	10/21/78	76	11	18209	D	42.58	157.82	90	EEFF	NO	CCCL	LLLL	69.17	N	137.40	W	290080	261
2135021115	10/15/78	84	11	18827	S	16.14	165.84	90	EEFF	NO	CCCL	LLLL	69.18	N	143.06	W	290079	19
2133521282	10/07/78	87	11	18618	D	21.83	163.70	70	EEFE	NO	CCCL	LLLL	69.18	N	154.54	W	290080	241
2133621341	10/07/78	88	11	18632	D	21.46	163.84	80	PEEE	NO	CCCL	LLLL	69.18	N	158.84	W	290079	437
2135121171	10/29/78	85	10	18841	S	14.71	167.92	90	EEEE	NO	CCCL	LLLL	69.18	N	160.29	W	290079	545
2134420365	10/08/78	78	10	18743	S	17.37	167.09	90	FEFE	NO	CCCL	LLLL	70.41	N	153.92	W	290080	436
2134921054	10/15/78	83	10	18813	S	15.45	167.75	90	EEEE	NO	CCCL	LLLL	70.43	N	143.89	W	290079	798
2134320310	10/07/78	77	10	18729	S	17.74	166.98	70	FFFF	NO	CCCL	LLLL	70.43	N	151.05	W	290080	229
2135321285	10/15/78	87	10	18869	S	13.92	168.21	90	EEEE	NO	CCCL	LLLL	70.44	N	142.46	W	290079	673
2135221230	10/15/78	86	10	18855	S	14.29	168.13	90	EEEE	NO	CCCL	LLLL	70.44	N	156.80	W	290080	286
2133621335	10/07/78	88	10	18632	D	20.38	166.04	100	PEEE	NO	CCCL	LLLL	70.45	N	155.37	W	290080	260
2133521273	10/07/78	87	10	18618	D	20.77	165.90	90	EEFF	NO	CCCL	LLLL	70.46	N	158.25	W	290079	544
2135021113	10/15/78	84	10	18827	S	15.04	167.91	100	MEEE	NO	CCCL	LLLL	70.47	N	156.81	W	290079	436
2133708144	10/07/78	196	61	18638	D	49.71	086.45	60	FEFE	NO	CCCL	LLLL	70.48	N	152.52	W	290080	240
2133608085	10/29/78	195	61	18624	D	49.58	085.87	90	FFEE	NO	CCCL	LLLL	01.43	S	014.47	E	290079	608
2136312281	10/29/78	240	61	19003	D	51.53	102.46	70	FMHP	NO	CCCL	HHLL	01.43	S	015.90	E	290080	420
2133708150	10/07/78	196	62	18638	D	49.37	084.80	90	FEFE	NO	CCCL	LLLL	01.44	S	048.59	W	290080	542
2133608091	10/29/78	195	62	18624	D	49.23	084.23	90	EEEE	NO	CCCL	LLLL	02.87	S	014.14	E	290079	609
2133708153	10/07/78	196	63	18638	D	48.99	083.16	80	FEFE	NO	CCCL	LLLL	02.87	S	015.57	E	290080	421
2133608094	10/29/78	195	63	18624	D	48.83	082.62	90	FEFE	NO	CCCL	LLLL	04.31	S	018.80	E	290079	610
2133708155	10/07/78	196	64	18638	D	48.57	081.61	90	PEEE	NO	CCCL	LLLL	04.31	S	015.23	F	290080	422
													05.75	S	013.46	F	290079	611

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OBSERVATION ID	ENTRY DATE	PATH	ROW	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM NO	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2133608100	10/29/78	195	64	18624	D	48.40	081.05	80	EEEE	NO		CCCL	LLLL	05.75 S	014.89 E	290080	423
2134607244	10/08/78	187	64	18763	D	49.93	086.71	10	FFFE	NO		CCCL	LLLL	05.75 S	026.37 E	290080	15
2134462031	10/08/78	131	64	18732	D	49.62	085.44	50	PFFF	NO		CCCL	LLLL	05.75 S	106.69 E	290079	732
2132501564	10/01/78	130	64	18467	D	46.37	075.23	40	EE2M	NO		CCCL	LLLL	05.75 S	108.11 E	290079	244
2134301573	10/07/78	130	64	18718	D	49.48	084.87	NA	MMMM	NO		CCCL	LLLL	05.75 S	108.12 E	0	0
2133708162	10/07/78	196	65	18638	D	48.10	080.07	80	PEFF	NO		CCCL	LLLL	07.19 S	013.12 E	290079	612
2132501570	10/01/78	130	65	18467	D	45.76	073.88	30	FE26	NO		CCCL	LLLL	07.19 S	107.78 E	290079	245
2134301575	10/07/78	130	65	18718	D	49.10	083.25	NA	MMMM	NO		CCCL	LLLL	07.19 S	107.78 E	0	0
2134201521	10/07/78	129	65	18704	D	48.93	082.68	20	FEFE	NO		CCCL	LLLL	07.19 S	109.22 E	290080	54
2134607250	10/08/78	187	65	18763	D	49.60	085.06	20	FFFE	NO		CCCL	LLLL	07.20 S	026.04 E	290080	16
2136207141	10/29/78	185	65	18986	D	51.41	094.48	40	FE2C	NO		CCCL	LLLL	07.20 S	028.92 E	290080	384
2134307074	10/08/78	124	65	18721	D	49.12	083.34	90	PFFF	NO		CCCL	LLLL	07.20 S	030.34 E	290079	727
2136107082	10/29/78	184	65	18972	D	51.34	093.88	10	EEPE	NO		CCCL	LLLL	07.20 S	030.36 E	290080	510
2133906443	10/21/78	180	65	18665	D	48.45	081.12	10	EEEE	NO		CCCL	LLLL	07.20 S	036.07 E	290080	102
2134402034	10/08/78	131	65	18732	D	49.26	083.82	60	FFEF	NO		CCCL	LLLL	07.20 S	106.35 E	290079	733
2136307202	10/29/78	186	66	19000	D	51.36	093.27	40	EEEE	NO		CCCL	LLLL	08.64 S	027.16 E	290080	540
2136207143	10/29/78	185	66	18986	D	51.27	092.69	30	FEFE	NO		CCCL	LLLL	08.64 S	028.58 E	290080	385
2134307081	10/08/78	184	66	18721	D	48.70	081.77	70	PFFF	NO		CCCL	LLLL	08.64 S	030.00 E	290079	728
2136107085	10/29/78	184	66	18972	D	51.18	092.10	10	EE2E	NO		CCCL	LLLL	08.64 S	030.02 E	290080	511
2136314142	10/29/78	7	68	19004	D	50.99	089.93	30	EEEE	NO		CCCL	HLLL	11.52 S	076.76 W	290080	547
2136214085	10/29/78	6	69	18990	D	50.61	087.67	0	EEEE	NO		CCCL	HLLL	12.96 S	075.69 W	290080	390
2136314144	10/29/78	7	69	19004	D	50.73	088.21	90	EEEE	NO		CCCL	HLLL	12.96 S	077.11 W	290080	548
2136214092	10/29/78	6	70	18990	D	50.29	086.00	30	FFFF	NO		CCCL	HLLL	14.40 S	076.04 W	290080	391
2136114040	10/29/78	5	71	18976	D	49.76	083.81	60	EEFE	NO		CCCL	HLLL	15.84 S	074.95 W	290080	520
2135813470	10/29/78	2	72	18934	D	48.80	080.71	60	FFFF	NO		CCCL	HLLL	17.28 S	071.00 W	290080	529
2136114042	10/29/78	5	72	18976	D	49.35	082.25	100	FEFE	NO		CCCL	HLLL	17.28 S	075.31 W	290080	521
2135813473	10/29/78	2	73	18934	D	48.31	079.23	100	FEFE	NO		CCCL	HLLL	18.72 S	071.36 W	290080	530
2134900533	10/21/78	118	75	18801	D	44.51	072.21	0	EEEE	NO		CCCL	LLLL	21.58 S	121.47 E	290080	136
2134800474	10/15/78	117	75	18787	D	44.65	071.78	0	EEEE	NO		CCCL	LLLL	21.59 S	122.92 E	290080	227
2135511474	10/29/78	232	75	18891	D	46.51	075.03	80	FEFF	NO		CCCL	HLLL	21.59 S	041.97 W	290080	469
2135301170	10/29/78	122	76	18857	D	45.27	072.72	0	EEEE	NO		CCCL	LLLL	23.02 S	115.38 E	290080	458
2135201111	10/22/78	121	76	18843	D	45.01	072.29	0	EEEE	NO		CCCL	LLLL	23.02 S	116.80 E	290080	318
2134800481	10/15/78	117	76	18787	D	43.94	070.63	0	EEEE	NO		CCCL	LLLL	23.02 S	122.54 E	290080	228
2134100074	10/07/78	110	76	18689	D	41.97	067.88	10	FEFE	NO		CCCL	LLLL	23.02 S	132.57 E	290079	624
2128700050	10/01/78	110	76	17936	D	27.82	052.59	100	EEEE	NO		CCCL	LLLL	23.02 S	132.58 E	290079	139
2134000015	10/07/78	109	76	18675	D	41.69	067.51	0	FFFE	NO		CCCL	LLLL	23.02 S	134.00 E	290079	614
2135800023	10/29/78	187	76	18926	D	46.49	074.87	0	EEFF	NO		CCCL	LLLL	23.02 S	134.00 E	290080	359
2128523591	10/01/78	109	76	17922	D	27.64	052.40	90	EEEE	NO		CCCL	LLLL	23.03 S	134.04 E	290079	181
2135511481	10/29/78	232	76	18891	D	45.88	073.75	50	FFFP	NO		CCCL	HLLL	23.03 S	042.35 W	290080	470
2135201114	10/22/78	121	77	18843	D	44.33	071.14	0	EEEE	NO		CCCL	LLLL	24.45 S	116.42 E	290080	319

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OBSERVATION ID	ENTRY DATE	PATH #	ROW #	ORBIT #	DAY/NITE /SPCL	SUN ELEV	SUN AZIM	% CLD COVER	QUALITY 4567	CCM	CCM QLTY	MODE 4567	GAIN 4567	PICTURE CNTR LAT	PICTURE CNTR LONG	MICROFILM ROLL	MIC FLM FRAME
2135301172	10/29/78	122	77	18557	D	44.59	071.54	0	EEEE	NO							
2135812055	10/29/78	235	77	18933	D	45.98	073.82	NA	MMMM	NO		CCCL	LLLL	24.46 S	115.01 E	29008J	459
2135912114	10/29/78	236	77	18947	D	46.23	074.25	10	FFFF	NO		CCCL	HLLL	24.46 S	047.04 W	0	0
2135812062	10/29/78	235	78	18933	D	45.32	072.60	80	FFFF	NO		CCCL	HLLL	24.46 S	048.47 W	290080	482
2135912120	10/29/78	236	78	18947	D	45.58	073.62	10	EEEE	NO		CCCL	HLLL	25.89 S	047.43 W	290080	526
2132923052	10/07/78	59	79	18535	D	36.08	061.66	10	EEEE	NO		CCCL	HLLL	25.89 S	048.85 W	290080	483
2135806565	10/29/78	181	79	18930	D	44.57	071.36	40	EEEE	NO		CCCL	LLLL	27.32 S	147.19 E	290079	259
2134723060	10/15/78	99	79	18756	D	41.67	067.50	0	EEFE	NO		CCCL	LLLL	27.32 S	029.60 E	290080	369
2135812064	10/29/78	235	79	18933	D	44.63	071.45	40	EEEE	NO		CCCL	LLLL	27.32 S	147.21 E	290080	225
2135912123	10/29/78	236	79	18947	D	44.90	071.85	20	EEEE	NO		CCCL	HLLL	27.32 S	047.83 W	290080	527
2134107022	10/07/78	182	80	18693	D	38.80	064.37	70	FEFE	NO		CCCL	LLLL	27.33 S	049.25 W	290080	484
2135806572	10/29/78	181	80	18930	D	43.85	070.27	30	EEEE	NO		CCCL	LLLL	28.74 S	027.72 E	290080	43
2136222495	10/29/78	96	80	18495	D	45.09	072.08	50	EEEE	NO		CCCL	LLLL	28.75 S	029.19 E	290080	524
2135812071	10/29/78	235	80	18933	D	43.91	070.35	20	FFFF	NO		CCCL	LLLL	28.75 S	151.11 E	290080	392
2135912125	10/29/78	236	80	18947	D	44.19	070.75	10	EEFE	NO		CCCL	HLLL	28.76 S	048.23 W	290080	525
2134107025	10/07/78	182	81	18693	D	37.93	063.60	50	FEFE	NJ		CCCL	LLLL	28.76 S	049.64 W	290080	485
2135806574	10/29/78	181	81	18930	D	43.11	069.23	20	EEFE	NO		CCCL	LLLL	30.17 S	027.31 E	290080	44
2135912132	10/29/78	236	81	18947	D	43.46	069.69	40	EEFE	NO		CCCL	LLLL	30.18 S	028.78 E	290080	526
2133100553	10/01/78	118	82	18550	D	33.64	060.06	0	EEEE	NO		CCCL	HLLL	30.19 S	050.05 W	290080	486
2134100101	10/07/78	111	32	18689	D	36.94	062.78	40	FEFE	NO		CCCL	LLLL	31.61 S	115.71 E	290079	164
2135900105	10/29/78	110	82	18940	D	42.55	068.51	90	EEEE	NO		CCCL	LLLL	31.61 S	130.19 E	290079	628
2128700073	10/01/78	110	82	17936	D	21.24	050.76	NA	MMMM	NO		CCCL	LLLL	31.61 S	130.20 E	290080	370
2135912134	10/29/78	236	82	18947	D	42.69	068.68	NA	PPPP	NO		CCCL	LLLL	31.62 S	130.23 E	0	0
2133623473	10/29/78	106	83	18633	D	34.68	061.03	20	FEFE	NO		CCCL	LLLL	31.62 S	050.47 W	290080	487
2133100560	10/01/78	111	83	18550	D	32.68	059.52	0	EEEE	NO		CCCL	LLLL	33.03 S	135.50 E	290080	424
2133123183	10/07/78	101	83	18563	D	33.00	059.75	30	EEEE	NO		CCCL	LLLL	33.04 S	118.28 E	290079	165
2136112254	10/29/78	236	83	18975	D	42.49	068.42	90	EEEE	NO		CCCL	LLLL	33.04 S	142.68 E	290079	496
2135513342	10/29/78	250	83	18892	D	40.73	066.45	40	FFFF	NO		CCCL	HLLL	33.04 S	053.79 W	290080	512
2136112261	10/29/78	236	84	18975	D	41.69	067.50	60	EEEE	NO		CCCL	LLLL	33.04 S	071.00 W	290080	474
2135513344	10/29/78	250	84	18892	D	39.90	065.62	20	EEEE	NO		CCCL	HLLL	34.47 S	054.23 W	290080	513
2133023133	10/01/78	100	85	18549	D	30.71	058.55	10	EEEE	NO		CCCL	LLLL	34.47 S	071.43 W	290080	475
2134823142	10/21/78	100	85	18600	D	36.88	063.00	40	EEEE	NO		CCCL	LLLL	35.89 S	143.21 E	290079	163
2134723083	10/15/78	99	85	18786	D	36.55	062.72	0	EEFE	NO		CCCL	LLLL	35.89 S	143.22 E	290080	135
2135513351	10/29/78	250	85	18892	D	39.04	064.84	70	FFFF	NO		CCCL	LLLL	35.89 S	144.64 E	290080	226
2136112263	10/29/78	238	85	18975	D	40.87	066.64	30	EEFE	NO		CCCL	LLLL	35.89 S	071.89 W	290080	476
2135513353	10/29/78	250	86	18892	D	38.16	064.13	70	EEEE	NO		CCCL	HLLL	35.90 S	054.67 W	290080	514
2134712495	10/15/78	242	87	18780	D	34.56	061.45	50	EEEE	NO		CCCL	LLLL	37.32 S	072.36 W	290080	477
2134712501	10/15/78	242	88	18780	D	33.62	060.95	NA	2222	NO		CCCL	HLLL	38.74 S	061.37 W	290080	210
2134712504	10/15/78	242	89	18780	D	32.66	060.51	80	EEEE	NO		CCCL	HLLL	40.16 S	061.85 W	J	0
2134712510	10/15/78	242	90	18780	D	31.59	060.11	80	EEEE	NO		CCCL	HLLL	41.58 S	062.36 W	290080	211
														42.99 S	062.88 W	290080	212

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2136321170	10/29/78	79	91	19008	D	36.35	063.27	50	EEEE	NO	CCCL	LLLL	44.40 S	170.52 E	290050	544
2135009424	10/22/78	209	92	18820	D	30.75	060.02	90	EEEE	NO	CCCL	LLLL	45.81 S	016.68 W	290050	292
2136321172	10/29/78	79	92	19008	D	35.41	062.79	80	EEEE	NO	CCCL	LLLL	45.82 S	169.76 E	290050	550
2135009430	10/22/78	209	93	18820	D	29.76	059.76	90	EEEE	NO	CCCL	LLLL	47.22 S	017.27 W	290050	293
2134809313	10/21/78	207	93	18792	D	29.02	059.41	100	EEEE	NO	CCCL	LLLL	47.23 S	014.39 W	290050	129
2134612490	10/08/78	241	99	18766	D	22.09	059.05	90	2FFE	NO	CCCL	LLLL	55.61 S	667.36 W	290050	21