[redacted]

#678

STS-51B
IR SPECTRA DATA
RAW SOLAR IR SPECTRAL DATA
85-034A-14B
85-034A-14E

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:

http://nssdc.gsfc.nasa.gov/nmc/

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

a. Associated Documents To find associated documents you will need to know the document ID number and then click here. http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/

b. Core Catalog Materials

STS-51B

IR SPECTRA DATA

RAW SOLAR IR SPECTRAL DATA

85-034A-14B ESAC-00043

85-034A-14E ESAC-00005

This data set catalog consists 23 data tapes. The tapes are 9-track, 6250 BPI, multi-filed and created on a PRIME computer. The D and C numbers along with the timespan are as follows:

85-034A-14B

D#	C#	FILES	TIME SPAN
D-79778	C-27463	18	04/29/85
D-79779	C-27464	60	04/30/85
D-79780	C-27465	28	05/01/85
D-79781	C-27466	34	05/01/85
D-79782	C-27467	39	05/01/85
D-79783	C-27468	42	05/01/85
D-79784	C-27469	73	05/01/85
D-79785	C-27470	56	05/01/85
D-79786	C-27471	64	04/30/85
D-79787	C-27472	73	04/30/85
D-79788	C-27473	67	04/30/85
D-79789	C-27474	28	04/30/85
D-79790	C-27475	27	04/30/85
D-79791	C-27476	55	04/30/85
D-79792	C-27477	57	04/30/85
D-79793	C-27478	58	05/01/85
D-79794	C-27479	69	05/01/85
D-79795	C-27480	63	05/01/85
D-79796	C-27481	53	05/01/85
D-79797	C-27482	67	05/01/85
D-79798	C-27483	61	05/01/85
D-79799	C-27484	68	05/01/85

85-034A-14E

D-79777	C-27485	55	05/01/85

NSSDC NATIONAL SPACE SCIENCE DATA CENTER

Central Data Services Facility
Operated for NASA by Science Applications Research

Goddard Space Flight Center
Code 633.4
Greenbelt, Maryland 20771
Telephone (301) 286-6695
FTS 888-6695

Note to Users of the Spacelab 3 ATMOS
Solar and Earth Spectral Tapes

The ATMOS spectra data are on 9-track, 6250 bpi, 7-bit ASCII tapes. Since the tapes were generated by JPL on a PRIME computer, and the record length in each file is very long, they may not be automatically readable by other computers. The following are suggestions made by the NSSDC acquisition scientists.

To determine if PRIME-generated ATMOS data will be readable on a system other than PRIME, the following approach should be used.

Initially, you should compare your output with a sample output of the first file of the SUN2 tape, which accompanies this note. Each file has a header (as shown in the example), that explains the various characteristics of the particular spectrum. For example, each file may have different starting and stopping frequencies, resolution, observational altitude, etc. The data contain only intensities. To calculate the frequency of a spectral point, you should use the starting frequency and the frequency spacing. If unable to read even the header, you should consult with computer personnel regarding the difference in the data structure between the PRIME environment and your computer.

If there are no discrepancies, you may then be able to read the data with a format (16I5) statement, as shown in the header. The most common problem is the "-" sign in front of 4 digits of each spectral point. Some computers (e.g., VAX) read this sign as a blank or other control language. If you can resolve the difference in the computers, then it may be possible to remap the PRIME ASCII to your own individual computer ASCII. Otherwise, after making an independent file, (which contains blanks and other control language for the minus sign), you should edit out such blanks or control language using edit routines.

After the tape files are dumped into disk files, you may not be able to read the files using ordinary "EDIT" modes because of the large record block size (10,000 bytes). The long record length block can be read following the OPEN statement in FORTRAN:

```
OPEN(UNIT=24,FILE='SUN2.DAT',STATUS='OLD',FORM='FORMATTED',ACCESS=
'SEQUENTIAL',RECL=10000)
```

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SOLAR ATLAS

ATMOS CD-ROM

NSSDC currently does not have a copy of the ATMOS SOLAR ATLAS on CD-ROM, although it is so advertised in the NASA Reference Publication 1224. JPL is preparing the software for data retrieval and will work with NSSDC staff in premastering the disk. When the disk is published you will be notified. Thank you for your query and interest in NSSDC's services.

The ATMOS Spacelab 3 Spectral Data Set

This documentation describes the data package containing the individual spectra returned by the ATMOS (Atmospheric Trace Molecule Spectroscopy) experiment during the Spacelab 3 shuttle mission, 29th April to 6th May, 1985. The ATMOS instrument is a high-speed, high-resolution, Michelson interferometer, and these spectra are the Fourier transforms of the interferograms recorded by this instrument. The Fourier transforms were made at the ATMOS DAF (Data Analysis Facility), maintained at the Jet Propulsion Laboratory, California Institute of Technology, under contract to the National Aeronautical and Space Administration. Descriptions of the ATMOS instrument and results can be found elsewhere (see attached reference list), although readers are directed to "Final Report on the First Flight of the ATMOS Instrument During the Spacelab 3 Mission, April 29 Through May 6, 1985" by Farmer et al. (JPL publication 87-32), and hereafter referred to as FRO, copies of which are available through the NSSDC. A comprehensive set of the profiles of concentration for all of the gases analyzed in the ATMOS spectra is also available in a computer-compatible format from the NSSDC.

On the present tapes, the individual spectra are filed in the order in which they were acquired during the shuttle flight. A short header record precedes each spectral record, with one file per spectrum. In the header, the spectra are identified by a twelve character label, relating to the time and date of acquisition. The first 2 characters in all cases are A5, signifying that each is a 2-sided average acquired in 1985, and the remaining characters, in the form of A5MMDDhhmmss, are as follows:

MM = the calendar month (either 04 or 05)
DD = the calendar date (29, 30, or 01)
hh = hour (00 through 23) GMT
mm = minute (00 through 59) "
ss = second (00 through 59) "

The header record contains additional pertinent information derived in part from the spacecraft ephemeris, provided to the ATMOS science team by NASA's Marshall Space Flight Center, Huntsville, Alabama. The header is immediately followed on the tape by the primary points of the run described.

The following describes the format of the header record. All frequencies are given in wavenumbers (cm-1) in air, and all angles are in degrees except where noted:

RUN LABEL: run label based on time and date of acquisition (see above).

TITLE: brief spectrum description including occultation event (see FRO).

SOURCE OBSERVED: radiation source (always the sun for Spacelab 3).

WHERE OBSERVED: instrument location (Spacelab 3).

NUMBER OF SPECTRAL POINTS: number of spectral values contained in the file being described.

FREQUENCY OF FIRST POINT: frequency of first spectral point in the file.

FREQUENCY OF LAST POINT: frequency of last spectral point in the file.

SPACING: frequency interval of spectral values.

RESOLUTION: unapodized resolution of the spectrum.

PATH DIFFERENCE: optical path difference corresponding to this spectrum in cm, and the equivalent number of optical fringes at a wavelength of 0.633 fm.

ZENITH ANGLE: the astronomical zenith angle of the spacecraft.

LATITUDE: spacecraft sub-orbital latitude.

LONGITUDE: spacecraft sub-orbital longitude.

FOV: instrument angular field-of-view (1 or 2 mrad, filter dependent).

FILTER: ATMOS optical filter number (see FRO).

ZPD GMT: Greenwich Mean Time at zero path difference for this spectrum in seconds from 00:00 hours on the day the spectrum was recorded.

SCAN TYPE: interferometer mirror movement, either F or R (FORMAT A1).

SPECTRAL MAXIMUM: the maximum value of the spectrum, in arbitrary units. The DN values of the spectral points may be calibrated by dividing SMAX by 3000.

Averages of spectra containing only solar and instrumental features are reproduced in "A high resolution atlas of the infrared spectrum of the Sun and the Earth atmosphere from space: Volume I. The Sun" by Farmer and Norton, and averages of spectra over narrow tangent height ranges and containing absorption features due to telluric gases are reproduced in "Volume II. Stratosphere and Mesosphere 650-3350 cm-1", of the same document. Enquiries regarding this document should also be addressed to the NSSDC.

Interested readers with requirements to analyze this data set are invited to contact Dr. C. B. Farmer at JPL to make arrangements to use the ATMOS DAF where analytical and manipulative software is available.

A list of all of the run numbers and the more pertinent header information contained on all the data tapes is enclosed herewith.

ATMOS References

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R. Zander, C. P. Rinsland, C. B. farmer, J. namkung, R. H. norton, and J. M. Russell III, "Concentrations of carbonyl sulfide (OCS) and hydrogen cyanide (HCN) in the free upper troposphere and lower stratosphere deduced from ATMOS/Spacelab 3 infrared solar occultation spectra," J. Geophys. Res., vol. 93, pp. 1669-1678, 1988.

R. Zander, C. P. Rinsland, C. B. Farmer, and R. H. Norton, "Infrared spectroscopic measurements of halogenated source gases in the stratosphere with the ATMOS instrument," J. Geophys. Res., vol. 92, pp. 9836-9850, 1987.

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50429231753	SR01	3	R	83873.5	364.36	105.457	6.05	-48.50	116.97
A50429231755	SR01	3	F	83875.7	364.33	105.326	6.06	-48.45	116.93
A50429231757	SR01	3	R	83877.8	364.31	105.198	6.06	-48.39	116.88
A50429231759	SR01	3	F	83880.0	364.28	105.068	6.07	-48.34	116.84
A50429231803	SR01	3	F	83884.3	364.23	104.811	6.09	-48.23	116.75
A50429231812	SR01	3	F	83892.8	364.13	104.294	6.12	-48.02	116.58
A50429231814	SR01	3	R	83895.0	364.11	104.166	6.13	-47.97	116.55
A50429231821	SR01	3	F	83901.4	364.02	103.778	6.15	-47.80	116.42
A50429231823	SR01	3	R	83903.6	364.00	103.649	6.16	-47.75	116.38
A50429231825	SR01	3	F	83905.8	363.97	103.519	6.17	-47.70	116.34
A50429231829	SR01	3	F	83910.0	363.92	103.261	6.18	-47.59	116.26
A50429231831	SR01	3	R	83912.2	363.89	103.132	6.19	-47.54	116.22
A50429231836	SR01	3	R	83916.5	363.83	102.873	6.20	-47.43	116.14
A50429231838	SR01	3	F	83918.7	363.81	102.743	6.21	-47.38	116.10
A50429231842	SR01	3	F	83923.0	363.76	102.485	6.22	-47.28	116.02
A50429231844	SR01	3	R	83925.1	363.73	102.356	6.23	-47.22	115.98
A50429231846	SR01	3	F	83927.3	363.70	102.225	6.24	-47.17	115.93
A50429231849	SR01	3	R	83929.4	363.67	102.096	6.24	-47.11	115.89

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50430112950	SR02	3	R	41390.5	364.74	108.936	5.69	-49.10	294.54
A50430112952	SR02	3	F	41392.7	364.72	108.809	5.70	-49.04	294.49
A50430112954	SR02	3	R	41394.8	364.70	108.683	5.71	-48.98	294.45
A50430112956	SR02	3	F	41397.0	364.68	108.557	5.72	-48.92	294.40
A50430112958	SR02	3	R	41399.1	364.65	108.431	5.73	-48.87	294.35
A50430113000	SR02	3	F	41461.3	363.90	104.758	5.97	-47.17	293.05
A50430113002	SR02	3	R	41403.4	364.60	108.179	5.75	-48.75	294.26
A50430113005	SR02	3	F	41405.6	364.58	108.050	5.76	-48.69	294.21
A50430113007	SR02	3	R	41407.7	364.55	107.924	5.77	-48.63	294.17
A50430113009	SR02	3	F	41409.8	364.53	107.799	5.78	-48.57	294.12
A50430113011	SR02	3	R	41412.0	364.50	107.672	5.78	-48.51	294.07
A50430113013	SR02	3	F	41414.1	364.48	107.545	5.79	-48.46	294.03
A50430113015	SR02	3	R	41416.3	364.45	107.418	5.80	-48.40	293.98
A50430113017	SR02	3	F	41418.4	364.43	107.292	5.80	-48.33	293.93
A50430113020	SR02	3	R	41420.6	364.40	107.166	5.81	-48.28	293.89
A50430113022	SR02	3	F	41422.7	364.38	107.039	5.82	-48.22	293.85
A50430113024	SR02	3	R	41424.8	364.35	106.913	5.83	-48.16	293.80
A50430113026	SR02	3	F	41427.0	364.33	106.787	5.84	-48.10	293.76
A50430113028	SR02	3	R	41429.1	364.30	106.660	5.85	-48.04	293.71
A50430113030	SR02	3	F	41431.3	364.27	106.531	5.86	-47.98	293.67
A50430113032	SR02	3	R	41433.4	364.24	106.405	5.86	-47.92	293.62
A50430113035	SR02	3	F	41435.6	364.22	106.280	5.87	-47.87	293.58
A50430113037	SR02	3	R	41437.7	364.19	106.153	5.88	-47.81	293.54
A50430113039	SR02	3	F	41439.9	364.17	106.025	5.89	-47.75	293.49
A50430113041	SR02	3	R	41442.0	364.14	105.898	5.90	-47.69	293.44
A50430113043	SR02	3	F	41444.1	364.11	105.771	5.91	-47.64	293.40
A50430113045	SR02	3	R	41446.3	364.08	105.646	5.92	-47.58	293.35
A50430113047	SR02	3	F	41448.4	364.06	105.518	5.92	-47.52	293.31
A50430113050	SR02	3	R	41450.6	364.03	105.392	5.93	-47.46	293.27
A50430113052	SR02	3	F	41452.7	364.00	105.265	5.94	-47.40	293.23
A50430113054	SR02	3	R	41454.9	363.98	105.138	5.95	-47.34	293.18
A50430113056	SR02	3	F	41457.0	363.95	105.009	5.95	-47.28	293.14
A50430113058	SR02	3	R	41459.1	363.92	104.884	5.96	-47.23	293.10
A50430113102	SR02	3	R	41463.4	363.87	104.630	5.97	-47.11	293.01
A50430113105	SR02	3	F	41465.6	363.84	104.501	5.98	-47.05	292.97
A50430113107	SR02	3	R	41467.7	363.81	104.375	5.99	-47.00	292.93
A50430113109	SR02	3	F	41469.9	363.78	104.248	6.00	-46.94	292.88
A50430113111	SR02	3	R	41472.0	363.76	104.122	6.00	-46.88	292.84
A50430113113	SR02	3	F	41474.2	363.73	103.994	6.01	-46.83	292.80
A50430113115	SR02	3	R	41476.3	363.70	103.867	6.02	-46.77	292.75
A50430113117	SR02	3	F	41478.4	363.67	103.740	6.03	-46.71	292.71
A50430113120	SR02	3	R	41480.6	363.64	103.613	6.04	-46.65	292.67
A50430113122	SR02	3	F	41482.8	363.61	103.485	6.05	-46.60	292.62
A50430113124	SR02	3	R	41484.9	363.59	103.360	6.06	-46.54	292.58
A50430113126	SR02	3	F	41487.0	363.56	103.233	6.06	-46.48	292.54
A50430113128	SR02	3	R	41489.2	363.53	103.105	6.07	-46.43	292.50
A50430113130	SR02	3	F	41491.3	363.50	102.976	6.08	-46.37	292.45
A50430113133	SR02	3	R	41493.5	363.47	102.850	6.08	-46.31	292.41
A50430113135	SR02	3	F	41495.6	363.44	102.723	6.09	-46.26	292.37
A50430113137	SR02	3	R	41497.7	363.40	102.597	6.10	-46.21	292.34
A50430113139	SR02	3	F	41499.9	363.37	102.468	6.11	-46.15	292.29
A50430113141	SR02	3	R	41502.0	363.35	102.341	6.11	-46.09	292.25
A50430113143	SR02	3	F	41504.2	363.32	102.213	6.12	-46.03	292.21

A50430113145	SR02	3	R	41506.3	363.29	102.087	6.13	-45.97	292.17
A50430113148	SR02	3	F	41508.5	363.26	101.959	6.13	-45.92	292.13
A50430113150	SR02	3	R	41510.6	363.23	101.833	6.14	-45.86	292.09
A50430113152	SR02	3	F	41512.7	363.20	101.706	6.15	-45.81	292.05
A50430113154	SR02	3	R	41514.9	363.17	101.578	6.16	-45.75	292.01
A50430113156	SR02	3	F	41517.1	363.14	101.449	6.16	-45.69	291.97
A50430113158	SR02	3	R	41519.2	363.11	101.322	6.17	-45.63	291.93

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501072201	SR04	4	F	26521.9	363.23	104.949	5.76	-45.38	354.52
A50501072203	SR04	4	R	26524.1	363.20	104.826	5.77	-45.31	354.48
A50501072205	SR04	4	F	26526.2	363.17	104.700	5.77	-45.25	354.44
A50501072208	SR04	4	R	26528.4	363.13	104.576	5.78	-45.18	354.39
A50501072212	SR04	4	R	26532.7	363.07	104.327	5.80	-45.06	354.30
A50501072214	SR04	4	F	26534.9	363.04	104.201	5.80	-44.99	354.25
A50501072218	SR04	4	F	26539.2	362.98	103.952	5.82	-44.86	354.17
A50501072223	SR04	4	F	26543.5	362.92	103.702	5.83	-44.74	354.08
A50501072225	SR04	4	R	26545.7	362.89	103.578	5.84	-44.68	354.04
A50501072229	SR04	4	R	26550.0	362.82	103.328	5.85	-44.55	353.95
A50501072231	SR04	4	F	26552.1	362.79	103.202	5.86	-44.49	353.91
A50501072233	SR04	4	R	26554.3	362.76	103.078	5.87	-44.42	353.86
A50501072240	SR04	4	F	26560.8	362.66	102.703	5.89	-44.23	353.73
A50501072244	SR04	4	F	26565.1	362.59	102.453	5.90	-44.11	353.65
A50501072246	SR04	4	R	26567.2	362.56	102.329	5.91	-44.04	353.61
A50501072249	SR04	4	F	26569.4	362.53	102.202	5.92	-43.98	353.56
A50501072251	SR04	4	R	26571.6	362.50	102.078	5.93	-43.92	353.52
A50501072253	SR04	4	F	26573.7	362.46	101.952	5.94	-43.85	353.48
A50501072255	SR04	4	R	26575.9	362.43	101.829	5.95	-43.79	353.43
A50501072301	SR04	4	F	26582.4	362.33	101.451	5.96	-43.60	353.30
A50501072304	SR04	4	R	26584.5	362.30	101.327	5.97	-43.54	353.26
A50501072306	SR04	4	F	26586.7	362.26	101.202	5.98	-43.48	353.22
A50501072308	SR04	4	R	26588.8	362.23	101.077	5.98	-43.42	353.18
A50501072310	SR04	4	F	26591.0	362.20	100.951	5.99	-43.36	353.14
A[illegible]01072312	SR04	4	R	26593.1	362.16	100.826	6.00	-43.29	353.10
A50501072314	SR04	4	F	26595.3	362.13	100.700	6.00	-43.23	353.05
A50501072317	SR04	4	R	26597.4	362.10	100.575	6.01	-43.17	353.01
A50501072319	SR04	4	F	26599.6	362.07	100.450	6.02	-43.10	352.97
A50501072321	SR04	4	R	26601.7	362.03	100.326	6.03	-43.04	352.93
A50501072323	SR04	4	F	26603.9	362.00	100.199	6.03	-42.98	352.89
A50501072327	SR04	4	F	26608.3	361.93	99.948	6.05	-42.85	352.81
A50501072330	SR04	4	R	26610.4	361.90	99.823	6.05	-42.79	352.77
A50501072332	SR04	4	F	26612.6	361.86	99.698	6.06	-42.72	352.73
A50501072336	SR04	4	F	26616.9	361.80	99.447	6.08	-42.60	352.64

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501072056	SR04	4	F	26457.3	364.11	108.677	5.50	-47.33	355.93
A50501072059	SR04	4	R	26459.4	364.08	108.554	5.51	-47.26	355.89
A50501072101	SR04	4	F	26461.6	364.06	108.430	5.52	-47.19	355.84
A50501072103	SR04	4	R	26463.7	364.03	108.307	5.53	-47.13	355.79
A50501072105	SR04	4	F	26465.9	364.00	108.182	5.53	-47.06	355.74
A50501072107	SR04	4	R	26468.0	363.97	108.058	5.54	-47.00	355.69
A50501072109	SR04	4	F	26470.2	363.94	107.933	5.55	-46.93	355.64
A50501072111	SR04	4	R	26472.3	363.91	107.810	5.56	-46.87	355.60
A50501072114	SR04	4	F	26474.5	363.88	107.686	5.57	-46.80	355.55
A50501072118	SR04	4	F	26478.8	363.83	107.437	5.59	-46.67	355.45
A50501072120	SR04	4	R	26480.9	363.80	107.313	5.59	-46.60	355.40
A50501072122	SR04	4	F	26483.1	363.77	107.188	5.61	-46.54	355.35
A50501072124	SR04	4	R	26485.3	363.74	107.065	5.62	-46.47	355.31
A50501072127	SR04	4	F	26487.4	363.71	106.941	5.62	-46.41	355.26
A50501072129	SR04	4	R	26489.6	363.68	106.817	5.63	-46.34	355.21
A50501072131	SR04	4	F	26491.7	363.65	106.692	5.64	-46.28	355.17
A50501072133	SR04	4	R	26493.9	363.62	106.569	5.65	-46.21	355.12
A50501072135	SR04	4	F	26496.1	363.59	106.443	5.65	-46.15	355.07
A50501072139	SR04	4	F	26500.4	363.53	106.196	5.67	-46.02	354.98
A50501072142	SR04	4	R	26502.5	363.50	106.071	5.68	-45.95	354.93
A50501072144	SR04	4	F	26504.7	363.47	105.946	5.69	-45.89	354.89
A50501072146	SR04	4	R	26506.8	363.44	105.822	5.70	-45.83	354.84
A50501072148	SR04	4	F	26509.0	363.41	105.696	5.71	-45.76	354.80
A50501072150	SR04	4	R	26511.1	363.38	105.573	5.71	-45.70	354.76
A50501072152	SR04	4	F	26513.3	363.35	105.448	5.72	-45.63	354.71
A50501072155	SR04	4	R	26515.4	363.32	105.324	5.73	-45.57	354.66
A50501072157	SR04	4	F	26517.6	363.29	105.198	5.74	-45.50	354.61
A50501072159	SR04	4	R	26519.8	363.26	105.075	5.75	-45.44	354.57

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501085340	SR05	2	R	32021.1	363.16	104.843	5.75	-45.17	331.51
A50501085342	SR05	2	F	32023.3	363.13	104.717	5.75	-45.10	331.46
A50501085344	SR05	2	R	32025.4	363.10	104.595	5.76	-45.04	331.42
A50501085347	SR05	2	F	32027.6	363.07	104.469	5.77	-44.97	331.38
A50501085349	SR05	2	R	32029.8	363.04	104.345	5.78	-44.91	331.33
A50501085351	SR05	2	F	32031.9	363.00	104.220	5.78	-44.85	331.29
A50501085353	SR05	2	R	32034.1	362.97	104.095	5.79	-44.78	331.24
A50501085355	SR05	2	F	32036.3	362.94	103.970	5.80	-44.72	331.20
A50501085357	SR05	2	R	32038.4	362.91	103.847	5.81	-44.66	331.15
A50501085400	SR05	2	F	32040.6	362.88	103.722	5.81	-44.59	331.11
A50501085402	SR05	2	R	32042.7	362.84	103.598	5.82	-44.53	331.07
A50501085406	SR05	2	R	32047.0	362.78	103.348	5.84	-44.40	330.98
A50501085408	SR05	2	F	32049.2	362.74	103.221	5.85	-44.33	330.94
A50501085410	SR05	2	R	32051.3	362.71	103.098	5.86	-44.27	330.89
A50501085413	SR05	2	F	32053.5	362.68	102.972	5.87	-44.20	330.85
A50501085415	SR05	2	R	32055.7	362.64	102.847	5.87	-44.14	330.81
A50501085417	SR05	2	F	32057.8	362.61	102.721	5.88	-44.07	330.76
A50501085419	SR05	2	R	32060.0	362.58	102.597	5.89	-44.01	330.72
A50501085421	SR05	2	F	32062.2	362.55	102.472	5.89	-43.95	330.68
A50501085423	SR05	2	R	32064.3	362.52	102.349	5.90	-43.88	330.63
A50501085426	SR05	2	F	32066.5	362.48	102.223	5.91	-43.82	330.59
A50501085428	SR05	2	R	32068.6	362.45	102.099	5.92	-43.76	330.55
A50501085430	SR05	2	F	32070.8	362.42	101.973	5.92	-43.69	330.50
A50501085432	SR05	2	R	32072.9	362.38	101.849	5.93	-43.63	330.46
A501085434	SR05	2	F	32075.1	362.35	101.724	5.94	-43.57	330.42
A50501085436	SR05	2	R	32077.2	362.32	101.600	5.95	-43.51	330.38
A50501085441	SR05	2	R	32081.6	362.25	101.350	5.96	-43.38	330.29
A50501085443	SR05	2	F	32083.7	362.22	101.224	5.96	-43.32	330.25
A50501085445	SR05	2	R	32085.9	362.19	101.100	5.97	-43.25	330.21
A50501085447	SR05	2	F	32088.0	362.15	100.975	5.97	-43.19	330.17
A50501085451	SR05	2	F	32092.4	362.08	100.725	5.99	-43.07	330.08
A50501085454	SR05	2	R	32094.5	362.05	100.601	6.00	-43.00	330.04
A50501085456	SR05	2	F	32096.7	362.01	100.475	6.00	-42.94	330.00
A50501085458	SR05	2	R	32098.8	361.98	100.351	6.01	-42.87	329.96
A50501085500	SR05	2	F	32101.0	361.95	100.226	6.02	-42.81	329.92
A50501085502	SR05	2	R	32103.1	361.92	100.102	6.02	-42.75	329.88
A50501085504	SR05	2	F	32105.3	361.88	99.975	6.03	-42.69	329.83
A50501085507	SR05	2	R	32107.5	361.85	99.850	6.04	-42.63	329.79
A50501085509	SR05	2	F	32109.6	361.81	99.724	6.05	-42.57	329.75
A50501085511	SR05	2	R	32111.8	361.78	99.599	6.05	-42.51	329.72
A50501085513	SR05	2	F	32113.9	361.75	99.473	6.06	-42.44	329.68
A50501085515	SR05	2	R	32116.1	361.71	99.348	6.07	-42.38	329.64

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501085216	SR05	2	F	31937.0	364.30	109.674	5.41	-47.73	333.37
A50501085218	SR05	2	R	31939.2	364.27	109.551	5.42	-47.67	333.32
A50501085220	SR05	2	F	31941.3	364.24	109.427	5.43	-47.60	333.27
A50501085223	SR05	2	R	31943.5	364.21	109.304	5.44	-47.53	333.22
A50501085225	SR05	2	F	31945.7	364.19	109.179	5.45	-47.47	333.17
A50501085227	SR05	2	R	31947.8	364.16	109.056	5.46	-47.40	333.12
A50501085229	SR05	2	F	31950.0	364.13	108.932	5.46	-47.33	333.07
A50501085231	SR05	2	R	31952.1	364.10	108.810	5.47	-47.27	333.03
A50501085233	SR05	2	F	31954.3	364.08	108.685	5.48	-47.20	332.98
A50501085235	SR05	2	R	31956.4	364.05	108.562	5.49	-47.13	332.93
A50501085238	SR05	2	F	31958.6	364.02	108.437	5.50	-47.06	332.88
A50501085240	SR05	2	R	31960.7	363.99	108.315	5.51	-47.00	332.83
A50501085242	SR05	2	F	31962.9	363.97	108.191	5.52	-46.93	332.78
A50501085244	SR05	2	R	31965.0	363.94	108.068	5.53	-46.86	332.73
A50501085246	SR05	2	F	31967.2	363.91	107.944	5.54	-46.79	332.68
A50501085248	SR05	2	R	31969.4	363.88	107.820	5.55	-46.73	332.63
A50501085251	SR05	2	F	31971.5	363.85	107.695	5.55	-46.66	332.58
A50501085253	SR05	2	R	31973.7	363.82	107.572	5.56	-46.60	332.53
A50501085255	SR05	2	F	31975.8	363.79	107.448	5.57	-46.53	332.48
A50501085257	SR05	2	R	31978.0	363.76	107.325	5.58	-46.46	332.44
A50501085259	SR05	2	F	31980.2	363.74	107.200	5.59	-46.40	332.39
A50501085301	SR05	2	R	31982.3	363.71	107.076	5.60	-46.33	332.34
A50501085304	SR05	2	F	31984.5	363.68	106.951	5.61	-46.27	332.29
A50501085306	SR05	2	R	31986.6	363.65	106.829	5.62	-46.20	332.25
A50501085308	SR05	2	F	31988.8	363.62	106.705	5.63	-46.14	332.20
A50501085310	SR05	2	R	31990.9	363.59	106.582	5.64	-46.07	332.15
A50501085312	SR05	2	F	31993.1	363.55	106.457	5.64	-46.01	332.11
A50501085314	SR05	2	R	31995.3	363.52	106.334	5.65	-45.94	332.06
A50501085316	SR05	2	F	31997.4	363.49	106.208	5.66	-45.88	332.01
A50501085319	SR05	2	R	31999.6	363.46	106.085	5.67	-45.81	331.97
A50501085321	SR05	2	F	32001.7	363.43	105.961	5.67	-45.75	331.92
A50501085323	SR05	2	R	32003.9	363.40	105.838	5.68	-45.68	331.88
A50501085325	SR05	2	F	32006.1	363.37	105.713	5.69	-45.62	331.83
A50501085327	SR05	2	R	32008.2	363.34	105.589	5.70	-45.55	331.78
A50501085329	SR05	2	F	32010.4	363.31	105.464	5.70	-45.49	331.74
A50501085332	SR05	2	R	32012.5	363.28	105.342	5.71	-45.43	331.69
A50501085334	SR05	2	F	32014.7	363.25	105.217	5.72	-45.36	331.65
A50501085336	SR05	2	R	32016.8	363.22	105.093	5.73	-45.30	331.60
A50501085338	SR05	2	F	32019.0	363.19	104.967	5.74	-45.23	331.55

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501102408	SR06	1	R	37449.1	363.98	108.828	5.46	-47.14	310.06
A50501102410	SR06	1	F	37451.3	363.95	108.704	5.47	-47.07	310.01
A50501102412	SR06	1	R	37453.4	363.92	108.582	5.47	-47.00	309.96
A50501102415	SR06	1	F	37455.6	363.90	108.457	5.48	-46.94	309.91
A50501102417	SR06	1	R	37457.8	363.87	108.334	5.49	-46.87	309.87
A50501102419	SR06	1	F	37459.9	363.84	108.209	5.50	-46.80	309.81
A50501102421	SR06	1	R	37462.1	363.82	108.087	5.51	-46.73	309.76
A50501102423	SR06	1	F	37464.2	363.79	107.963	5.52	-46.66	309.71
A50501102425	SR06	1	R	37466.4	363.75	107.840	5.53	-46.60	309.67
A50501102428	SR06	1	F	37468.6	363.72	107.715	5.54	-46.53	309.62
A50501102430	SR06	1	R	37470.7	363.69	107.592	5.54	-46.47	309.57
A50501102432	SR06	1	F	37472.9	363.66	107.467	5.55	-46.40	309.52
A50501102434	SR06	1	R	37475.0	363.63	107.344	5.57	-46.33	309.47
A50501102436	SR06	1	F	37477.2	363.60	107.220	5.57	-46.26	309.42
A50501102438	SR06	1	R	37479.3	363.58	107.098	5.58	-46.20	309.38
A50501102441	SR06	1	F	37481.5	363.55	106.973	5.59	-46.13	309.33
A50501102443	SR06	1	R	37483.7	363.52	106.849	5.60	-46.07	309.28
A50501102445	SR06	1	F	37485.8	363.49	106.724	5.60	-46.00	309.24
A50501102447	SR06	1	R	37488.0	363.46	106.600	5.61	-45.93	309.19
A50501102449	SR06	1	F	37490.1	363.43	106.477	5.62	-45.87	309.14
A50501102451	SR06	1	R	37492.3	363.40	106.354	5.63	-45.80	309.10
A50501102454	SR06	1	F	37494.5	363.36	106.229	5.64	-45.74	309.05
A50501102456	SR06	1	R	37496.6	363.34	106.105	5.65	-45.67	309.00
A50501102458	SR06	1	F	37498.8	363.31	105.980	5.66	-45.61	308.96
A 501102500	SR06	1	R	37500.9	363.28	105.857	5.66	-45.54	308.91
A50501102502	SR06	1	F	37503.1	363.24	105.733	5.67	-45.48	308.86
A50501102504	SR06	1	R	37505.3	363.21	105.609	5.68	-45.41	308.82
A50501102506	SR06	1	F	37507.4	363.18	105.484	5.69	-45.35	308.77
A50501102509	SR06	1	R	37509.6	363.15	105.360	5.70	-45.28	308.73
A50501102511	SR06	1	F	37511.8	363.12	105.235	5.71	-45.22	308.68
A50501102513	SR06	1	R	37513.9	363.09	105.112	5.72	-45.15	308.64
A50501102515	SR06	1	F	37516.1	363.06	104.987	5.72	-45.09	308.59
A50501102517	SR06	1	R	37518.2	363.03	104.863	5.73	-45.02	308.55
A50501102519	SR06	1	F	37520.4	362.99	104.738	5.74	-44.95	308.50
A50501102522	SR06	1	R	37522.5	362.96	104.614	5.75	-44.89	308.45
A50501102524	SR06	1	F	37524.7	362.93	104.489	5.75	-44.82	308.41
A50501102528	SR06	1	F	37529.0	362.87	104.241	5.77	-44.69	308.32
A50501102530	SR06	1	R	37531.2	362.84	104.117	5.77	-44.63	308.28
A50501102532	SR06	1	F	37533.3	362.81	103.992	5.78	-44.57	308.23
A50501102535	SR06	1	R	37535.5	362.78	103.868	5.79	-44.50	308.19
A50501102537	SR06	1	F	37537.7	362.74	103.743	5.80	-44.44	308.14
A50501102539	SR06	1	R	37539.8	362.71	103.620	5.81	-44.38	308.10
A50501102541	SR06	1	F	37542.0	362.68	103.494	5.82	-44.31	308.05
A50501102543	SR06	1	R	37544.1	362.65	103.370	5.83	-44.25	308.01
A50501102545	SR06	1	F	37546.3	362.62	103.245	5.83	-44.18	307.96
A50501102548	SR06	1	R	37548.5	362.58	103.121	5.84	-44.12	307.92
A50501102550	SR06	1	F	37550.6	362.55	102.995	5.85	-44.05	307.88
A50501102552	SR06	1	R	37552.8	362.52	102.872	5.86	-43.99	307.83
A5[illegible]01102554	SR06	1	F	37554.9	362.49	102.746	5.86	-43.92	307.79
A5[illegible]01102556	SR06	1	R	37557.1	362.45	102.622	5.87	-43.86	307.75
A50501102558	SR06	1	F	37559.3	362.42	102.496	5.88	-43.79	307.70
A50501102603	SR06	1	F	37563.6	362.35	102.247	5.89	-43.66	307.62
A50501102605	SR06	1	R	37565.7	362.31	102.125	5.90	-43.60	307.58

A50501102607	SR06	1	F	37567.9	362.28	101.998	5.91	-43.54	307.53
A50501102609	SR06	1	R	37570.0	362.25	101.874	5.91	-43.48	307.49
A50501102611	SR06	1	F	37572.2	362.22	101.748	5.92	-43.41	307.45
A50501102613	SR06	1	R	37574.4	362.18	101.624	5.93	-43.35	307.41
A50501102616	SR06	1	F	37576.5	362.15	101.498	5.94	-43.28	307.37
A50501102618	SR06	1	R	37578.7	362.12	101.375	5.94	-43.22	307.33
A50501102620	SR06	1	F	37580.9	362.08	101.249	5.95	-43.15	307.28
A50501102622	SR06	1	R	37583.0	362.05	101.125	5.96	-43.09	307.24
A50501102624	SR06	1	F	37585.2	362.01	100.999	5.96	-43.03	307.20
A50501102626	SR06	1	R	37587.3	361.98	100.875	5.97	-42.97	307.15
A50501102629	SR06	1	F	37589.5	361.95	100.750	5.98	-42.90	307.11
A50501102631	SR06	1	R	37591.6	361.92	100.626	5.99	-42.84	307.07
A50501102633	SR06	1	F	37593.8	361.88	100.499	5.99	-42.78	307.03
A50501102635	SR06	1	R	37596.0	361.85	100.375	6.00	-42.71	306.99
A50501102637	SR06	1	F	37598.1	361.81	100.249	6.00	-42.65	306.95
A50501102639	SR06	1	R	37600.3	361.78	100.125	6.01	-42.59	306.90
A50501102641	SR06	1	F	37602.4	361.74	100.000	6.01	-42.53	306.86
A50501102644	SR06	1	R	37604.6	361.71	99.876	6.02	-42.46	306.82
A50501102646	SR06	1	F	37606.8	361.68	99.750	6.03	-42.40	306.78
A50501102648	SR06	1	R	37608.9	361.64	99.626	6.03	-42.33	306.74

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501115547	SR07	5	F	42948.3	363.83	108.708	5.45	-46.93	287.04
A50501115550	SR07	5	R	42950.5	363.80	108.586	5.46	-46.86	286.99
A50501115552	SR07	5	F	42952.6	363.77	108.462	5.47	-46.79	286.94
A50501115554	SR07	5	R	42954.8	363.74	108.341	5.47	-46.73	286.89
A50501115556	SR07	5	F	42956.9	363.71	108.216	5.48	-46.66	286.85
A50501115558	SR07	5	R	42959.1	363.68	108.093	5.50	-46.59	286.80
A50501115600	SR07	5	F	42961.3	363.65	107.969	5.50	-46.52	286.75
A50501115602	SR07	5	R	42963.4	363.62	107.846	5.51	-46.46	286.70
A50501115605	SR07	5	F	42965.6	363.60	107.723	5.52	-46.39	286.65
A50501115607	SR07	5	R	42967.7	363.56	107.600	5.53	-46.33	286.60
A50501115609	SR07	5	F	42969.9	363.53	107.474	5.54	-46.26	286.56
A50501115611	SR07	5	R	42972.0	363.50	107.352	5.55	-46.19	286.51
A50501115613	SR07	5	F	42974.2	363.47	107.227	5.56	-46.12	286.46
A50501115615	SR07	5	R	42976.4	363.44	107.104	5.56	-46.05	286.41
A50501115618	SR07	5	F	42978.5	363.41	106.981	5.57	-45.98	286.36
A50501115620	SR07	5	R	42980.7	363.38	106.858	5.58	-45.92	286.31
A50501115622	SR07	5	F	42982.9	363.36	106.733	5.59	-45.85	286.26
A50501115624	SR07	5	R	42985.0	363.33	106.610	5.59	-45.79	286.22
A50501115626	SR07	5	F	42987.2	363.29	106.485	5.61	-45.72	286.17
A50501115628	SR07	5	R	42989.3	363.26	106.362	5.62	-45.65	286.12
A50501115631	SR07	5	F	42991.5	363.23	106.239	5.62	-45.59	286.08
A50501115633	SR07	5	R	42993.6	363.20	106.116	5.63	-45.52	286.03
A50501115635	SR07	5	F	42995.8	363.17	105.990	5.64	-45.46	285.98
A50501115637	SR07	5	R	42998.0	363.14	105.867	5.65	-45.39	285.94
A50501115639	SR07	5	F	43000.1	363.11	105.742	5.65	-45.33	285.89
A50501115641	SR07	5	R	43002.3	363.08	105.619	5.66	-45.26	285.84
A50501115643	SR07	5	F	43004.4	363.05	105.495	5.67	-45.19	285.80
A50501115646	SR07	5	R	43006.6	363.02	105.371	5.68	-45.12	285.76
A50501115648	SR07	5	F	43008.8	362.99	105.246	5.69	-45.06	285.71
A50501115650	SR07	5	R	43010.9	362.96	105.123	5.70	-44.99	285.67
A50501115652	SR07	5	F	43013.1	362.92	104.998	5.71	-44.93	285.62
A50501115654	SR07	5	R	43015.2	362.89	104.876	5.71	-44.86	285.57
A50501115656	SR07	5	F	43017.4	362.86	104.751	5.72	-44.80	285.53
A50501115659	SR07	5	R	43019.5	362.83	104.627	5.73	-44.73	285.48
A50501115701	SR07	5	F	43021.7	362.79	104.502	5.74	-44.67	285.44
A50501115703	SR07	5	R	43023.9	362.76	104.378	5.74	-44.60	285.39
A50501115705	SR07	5	F	43026.1	362.73	104.253	5.75	-44.54	285.35
A50501115707	SR07	5	R	43028.2	362.70	104.131	5.76	-44.47	285.30
A50501115709	SR07	5	F	43030.4	362.66	104.006	5.77	-44.41	285.26
A50501115712	SR07	5	R	43032.5	362.63	103.882	5.78	-44.35	285.21
A50501115714	SR07	5	F	43034.7	362.60	103.757	5.79	-44.28	285.17
A50501115716	SR07	5	R	43036.8	362.58	103.633	5.80	-44.22	285.12
A50501115718	SR07	5	F	43039.0	362.54	103.508	5.80	-44.15	285.08
A50501115722	SR07	5	F	43043.3	362.47	103.260	5.82	-44.02	284.99
A50501115725	SR07	5	R	43045.5	362.44	103.136	5.82	-43.96	284.95
A50501115727	SR07	5	F	43047.6	362.41	103.011	5.83	-43.89	284.91
A50501115729	SR07	5	R	43049.8	362.37	102.887	5.84	-43.83	284.86
A50501115731	SR07	5	F	43052.0	362.34	102.761	5.85	-43.76	284.82
A50501115733	SR07	5	R	43054.1	362.31	102.639	5.85	-43.70	284.78
A50501115735	SR07	5	F	43056.3	362.28	102.513	5.86	-43.63	284.73
A50501115737	SR07	5	R	43058.4	362.24	102.390	5.87	-43.57	284.69
A50501115744	SR07	5	F	43064.9	362.15	102.016	5.89	-43.37	284.56
A50501115746	SR07	5	R	43067.0	362.11	101.893	5.90	-43.31	284.52

A50501115750	SR07	5	R	43071.4	362.05	101.643	5.91	-43.18	284.43
A50501115753	SR07	5	F	43073.6	362.02	101.517	5.92	-43.11	284.39
A50501115801	SR07	5	F	43082.2	361.88	101.018	5.95	-42.86	284.22

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501215509	SUN2	4	R	78910.2	362.33	84.472	-6.12	38.78	313.06
A50501215512	SUN2	4	F	78912.4	362.30	84.598	-6.13	38.72	313.02
A50501215514	SUN2	4	R	78914.5	362.28	84.723	-6.14	38.65	312.98
A50501215518	SUN2	4	R	78918.8	362.23	84.969	-6.14	38.52	312.91
A50501215522	SUN2	4	R	78923.2	362.18	85.216	-6.15	38.39	312.83
A50501215529	SUN2	4	F	78929.7	362.10	85.589	-6.17	38.20	312.71
A50501215531	SUN2	4	R	78931.8	362.08	85.711	-6.18	38.14	312.68
A50501215533	SUN2	4	F	78934.0	362.05	85.835	-6.18	38.07	312.64
A50501215535	SUN2	4	R	78936.2	362.02	85.960	-6.19	38.00	312.60
A50501215537	SUN2	4	F	78938.3	362.00	86.086	-6.19	37.94	312.56
A50501215542	SUN2	4	F	78942.7	361.94	86.332	-6.20	37.81	312.49
A50501215546	SUN2	4	F	78947.0	361.89	86.579	-6.21	37.68	312.41
A50501215553	SUN2	4	R	78953.5	361.81	86.951	-6.22	37.49	312.30
A50501215557	SUN2	4	R	78957.8	361.76	87.197	-6.23	37.36	312.22
A50501215559	SUN2	4	F	78960.0	361.74	87.323	-6.24	37.29	312.18
A50501215601	SUN2	4	R	78962.1	361.71	87.448	-6.24	37.23	312.14
A50501215603	SUN2	4	F	78964.3	361.69	87.574	-6.25	37.16	312.10
A50501215606	SUN2	4	R	78966.5	361.66	87.695	-6.25	37.10	312.07
A50501215608	SUN2	4	F	78968.6	361.63	87.817	-6.26	37.03	312.03
A50501215610	SUN2	4	R	78970.8	361.60	87.940	-6.26	36.97	312.00
A50501215612	SUN2	4	F	78973.0	361.58	88.068	-6.26	36.90	311.96
A50501215614	SUN2	4	R	78975.1	361.55	88.193	-6.27	36.84	311.92
A50501215616	SUN2	4	F	78977.3	361.53	88.316	-6.27	36.77	311.89
A50501215619	SUN2	4	R	78979.4	361.50	88.438	-6.28	36.71	311.85
A 501215623	SUN2	4	R	78983.8	361.45	88.685	-6.29	36.58	311.77
A50501215625	SUN2	4	F	78986.0	361.42	88.812	-6.29	36.51	311.73
A50501215627	SUN2	4	R	78988.1	361.39	88.937	-6.30	36.45	311.70
A50501215632	SUN2	4	R	78992.4	361.34	89.181	-6.31	36.32	311.63
A50501215634	SUN2	4	F	78994.6	361.31	89.305	-6.31	36.25	311.59
A50501215636	SUN2	4	R	78996.8	361.29	89.430	-6.31	36.19	311.55
A50501215638	SUN2	4	F	78998.9	361.26	89.557	-6.32	36.12	311.52
A50501215640	SUN2	4	R	79001.1	361.24	89.681	-6.32	36.06	311.48
A50501215642	SUN2	4	F	79003.3	361.21	89.803	-6.33	35.99	311.45
A50501215645	SUN2	4	R	79005.4	361.19	89.924	-6.33	35.93	311.41
A50501215647	SUN2	4	F	79007.6	361.16	90.050	-6.33	35.86	311.37
A50501215649	SUN2	4	R	79009.8	361.13	90.175	-6.34	35.80	311.34
A50501215651	SUN2	4	F	79011.9	361.10	90.301	-6.34	35.73	311.30
A50501215655	SUN2	4	F	79016.2	361.05	90.546	-6.35	35.60	311.23
A50501215658	SUN2	4	R	79018.4	361.02	90.669	-6.35	35.54	311.19
A50501215700	SUN2	4	F	79020.6	361.00	90.796	-6.35	35.47	311.15
A50501215702	SUN2	4	R	79022.7	360.97	90.921	-6.36	35.41	311.11
A50501215706	SUN2	4	R	79027.0	360.91	91.166	-6.37	35.28	311.04
A50501215715	SUN2	4	R	79035.7	360.81	91.665	-6.38	35.01	310.90
A50501215717	SUN2	4	F	79037.9	360.79	91.789	-6.38	34.95	310.87
A50501215719	SUN2	4	R	79040.0	360.76	91.909	-6.39	34.89	310.83
A50501215721	SUN2	4	F	79042.2	360.74	92.033	-6.39	34.82	310.80
A50501215726	SUN2	4	F	79046.5	360.68	92.284	-6.39	34.69	310.72
A50501215728	SUN2	4	R	79048.7	360.65	92.409	-6.39	34.62	310.69
A 501215730	SUN2	4	F	79050.9	360.63	92.532	-6.39	34.55	310.65
A 501215732	SUN2	4	R	79053.0	360.60	92.652	-6.40	34.49	310.62
A50501215736	SUN2	4	R	79057.4	360.55	92.903	-6.41	34.36	310.54
A50501215741	SUN2	4	R	79061.7	360.50	93.151	-6.41	34.23	310.47
A50501215745	SUN2	4	R	79066.0	360.44	93.395	-6.42	34.10	310.40

0501215749	SUN2	4	R	79070.3	360.39	93.647	-6.42	33.97	310.33
0501215752	SUN2	4	F	79072.5	360.36	93.773	-6.42	33.90	310.29

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50430001003	SS01	1	R	604.0	360.94	97.680	-6.83	39.16	279.05
A50430001007	SS01	1	R	608.3	360.89	97.941	-6.84	39.05	278.99
A50430001010	SS01	1	F	610.4	360.86	98.070	-6.84	39.00	278.95
A50430001012	SS01	1	R	612.6	360.84	98.199	-6.84	38.95	278.92
A50430001014	SS01	1	F	614.7	360.81	98.330	-6.84	38.89	278.89
A50430001016	SS01	1	R	616.9	360.78	98.459	-6.84	38.84	278.86
A50430001018	SS01	1	F	619.1	360.75	98.589	-6.84	38.79	278.82
A50430001020	SS01	1	R	621.2	360.73	98.718	-6.84	38.74	278.79
A50430001023	SS01	1	F	623.4	360.70	98.848	-6.84	38.69	278.76
A50430001025	SS01	1	R	625.5	360.68	98.977	-6.84	38.63	278.73
A50430001027	SS01	1	F	627.7	360.65	99.108	-6.84	38.58	278.69
A50430001029	SS01	1	R	629.8	360.62	99.237	-6.84	38.52	278.66
A50430001031	SS01	1	F	632.0	360.59	99.369	-6.84	38.47	278.63
A50430001033	SS01	1	R	634.1	360.56	99.496	-6.84	38.42	278.60
A50430001035	SS01	1	F	636.3	360.53	99.627	-6.84	38.36	278.57
A50430001038	SS01	1	R	638.4	360.51	99.756	-6.84	38.31	278.53
A50430001040	SS01	1	F	640.6	360.48	99.887	-6.84	38.25	278.50
A50430001042	SS01	1	R	642.7	360.45	100.015	-6.84	38.20	278.47
A50430001044	SS01	1	F	644.9	360.43	100.146	-6.84	38.15	278.44
A50430001046	SS01	1	R	647.0	360.40	100.274	-6.84	38.09	278.41
A50430001048	SS01	1	F	649.2	360.37	100.405	-6.84	38.04	278.38
A50430001051	SS01	1	R	651.4	360.34	100.534	-6.84	37.99	278.35
A50430001053	SS01	1	F	653.5	360.32	100.664	-6.84	37.93	278.32
A50430001057	SS01	1	F	657.8	360.27	100.924	-6.84	37.83	278.25
A50430001059	SS01	1	R	660.0	360.24	101.052	-6.84	37.78	278.22
A50430001101	SS01	1	F	662.1	360.21	101.183	-6.84	37.73	278.19
A50430001103	SS01	1	R	664.3	360.18	101.312	-6.84	37.67	278.16
A50430001106	SS01	1	F	666.5	360.15	101.442	-6.84	37.61	278.12
A50430001110	SS01	1	F	670.8	360.10	101.702	-6.84	37.50	278.06
A50430001114	SS01	1	F	675.1	360.05	101.960	-6.84	37.39	277.99
A50430001119	SS01	1	F	679.4	359.99	102.219	-6.84	37.29	277.93
A50430001121	SS01	1	R	681.5	359.96	102.348	-6.84	37.23	277.90
A50430001123	SS01	1	F	683.7	359.94	102.478	-6.84	37.18	277.86
A50430001125	SS01	1	R	685.8	359.91	102.606	-6.84	37.12	277.83
A50430001129	SS01	1	R	690.1	359.85	102.865	-6.84	37.02	277.77
A50430001132	SS01	1	F	692.3	359.83	102.995	-6.84	36.96	277.74
A50430001134	SS01	1	R	694.5	359.80	103.124	-6.84	36.91	277.71
A50430001136	SS01	1	F	696.6	359.78	103.255	-6.83	36.85	277.68
A50430001138	SS01	1	R	698.8	359.75	103.383	-6.83	36.80	277.65
A50430001140	SS01	1	F	700.9	359.72	103.513	-6.83	36.74	277.62
A50430001142	SS01	1	R	703.1	359.69	103.642	-6.83	36.68	277.58
A50430001144	SS01	1	F	705.3	359.67	103.772	-6.83	36.63	277.55
A50430001147	SS01	1	R	707.4	359.64	103.901	-6.83	36.58	277.52
A50430001149	SS01	1	F	709.5	359.62	104.030	-6.83	36.52	277.49
A50430001157	SS01	1	F	718.2	359.51	104.548	-6.82	36.30	277.36
A50430001200	SS01	1	R	720.3	359.48	104.677	-6.82	36.24	277.33
A50430001202	SS01	1	F	722.5	359.45	104.806	-6.82	36.19	277.29
A50430001204	SS01	1	R	724.6	359.43	104.934	-6.82	36.13	277.26
A50430001208	SS01	1	R	728.9	359.38	105.193	-6.82	36.02	277.20
A50430001210	SS01	1	F	731.1	359.35	105.323	-6.81	35.96	277.17
A50430001212	SS01	1	R	733.3	359.33	105.452	-6.81	35.91	277.14
A50430001215	SS01	1	F	735.4	359.30	105.581	-6.81	35.85	277.11
A50430001217	SS01	1	R	737.6	359.27	105.709	-6.81	35.80	277.08

A[illegible]430001219	SS01	1	F	739.7	359.24	105.840	-6.81	35.74	277.04
A[illegible]430001221	SS01	1	R	741.9	359.22	105.968	-6.81	35.68	277.01
A50430001223	SS01	1	F	744.1	359.19	106.098	-6.80	35.63	276.98
A50430001225	SS01	1	R	746.2	359.17	106.227	-6.80	35.57	276.95
A50430001228	SS01	1	F	748.3	359.14	106.356	-6.80	35.52	276.91
A50430001232	SS01	1	F	752.7	359.09	106.615	-6.80	35.40	276.85
A50430001238	SS01	1	R	759.1	359.01	107.000	-6.79	35.23	276.75
A50430001240	SS01	1	F	761.3	358.98	107.130	-6.79	35.17	276.72
A50430001243	SS01	1	R	763.4	358.96	107.258	-6.79	35.12	276.69
A50430001245	SS01	1	F	765.6	358.93	107.388	-6.79	35.06	276.66
A50430001247	SS01	1	R	767.7	358.91	107.516	-6.78	35.00	276.63

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50430105146	SS02	1	F	39106.9	360.44	98.859	-6.76	37.05	117.82
A50430105148	SS02	1	R	39109.0	360.41	98.985	-6.76	37.00	117.78
A50430105150	SS02	1	F	39111.2	360.38	99.112	-6.76	36.94	117.75
A50430105152	SS02	1	R	39113.3	360.36	99.241	-6.76	36.88	117.72
A50430105157	SS02	1	R	39117.6	360.30	99.496	-6.76	36.77	117.66
A50430105159	SS02	1	F	39119.8	360.28	99.623	-6.76	36.72	117.62
A50430105201	SS02	1	R	39121.9	360.25	99.750	-6.76	36.66	117.59
A50430105203	SS02	1	F	39124.0	360.23	99.879	-6.76	36.61	117.56
A50430105205	SS02	1	R	39126.2	360.20	100.006	-6.76	36.55	117.53
A50430105207	SS02	1	F	39128.3	360.18	100.134	-6.76	36.49	117.50
A50430105210	SS02	1	R	39130.5	360.15	100.261	-6.76	36.43	117.46
A50430105212	SS02	1	F	39132.6	360.12	100.390	-6.76	36.38	117.43
A50430105214	SS02	1	R	39134.8	360.09	100.516	-6.76	36.32	117.40
A50430105216	SS02	1	F	39136.9	360.07	100.643	-6.76	36.26	117.36
A50430105218	SS02	1	R	39139.0	360.04	100.770	-6.76	36.21	117.33
A50430105220	SS02	1	F	39141.2	360.02	100.899	-6.76	36.15	117.29
A50430105222	SS02	1	R	39143.3	359.99	101.026	-6.76	36.09	117.26
A50430105225	SS02	1	F	39145.5	359.97	101.153	-6.76	36.03	117.23
A50430105227	SS02	1	R	39147.6	359.94	101.279	-6.76	35.98	117.20
A50430105229	SS02	1	F	39149.8	359.91	101.407	-6.76	35.92	117.16
A50430105231	SS02	1	R	39151.9	359.88	101.534	-6.76	35.86	117.13
A50430105233	SS02	1	F	39154.0	359.86	101.662	-6.76	35.81	117.10
A50430105235	SS02	1	R	39156.2	359.83	101.790	-6.76	35.75	117.07
A50430105237	SS02	1	F	39158.3	359.81	101.917	-6.76	35.69	117.03
A50430105240	SS02	1	R	39160.5	359.78	102.043	-6.76	35.63	117.00
A50430105242	SS02	1	F	39162.6	359.76	102.170	-6.76	35.58	116.97
A50430105244	SS02	1	R	39164.8	359.73	102.298	-6.76	35.52	116.94
A50430105246	SS02	1	F	39166.9	359.71	102.426	-6.76	35.46	116.91
A50430105248	SS02	1	R	39169.1	359.68	102.553	-6.76	35.40	116.87
A50430105250	SS02	1	F	39171.2	359.65	102.680	-6.76	35.35	116.84
A50430105252	SS02	1	R	39173.3	359.63	102.807	-6.76	35.29	116.81
A50430105255	SS02	1	F	39175.5	359.60	102.936	-6.76	35.23	116.78
A50430105257	SS02	1	R	39177.6	359.57	103.062	-6.76	35.18	116.75
A50430105259	SS02	1	F	39179.8	359.55	103.189	-6.75	35.12	116.71
A50430105301	SS02	1	R	39181.9	359.52	103.316	-6.75	35.06	116.68
A50430105303	SS02	1	F	39184.1	359.50	103.443	-6.75	35.00	116.65
A50430105305	SS02	1	R	39186.2	359.47	103.570	-6.75	34.94	116.62
A50430105307	SS02	1	F	39188.3	359.45	103.697	-6.75	34.88	116.58
A50430105312	SS02	1	F	39192.6	359.40	103.952	-6.75	34.77	116.52
A50430105314	SS02	1	R	39194.8	359.37	104.078	-6.75	34.71	116.49
A50430105318	SS02	1	R	39199.0	359.31	104.331	-6.75	34.59	116.42
A50430105320	SS02	1	F	39201.2	359.29	104.460	-6.75	34.53	116.39
A50430105322	SS02	1	R	39203.4	359.27	104.586	-6.74	34.47	116.36
A50430105325	SS02	1	F	39205.5	359.25	104.713	-6.74	34.41	116.33
A50430105327	SS02	1	R	39207.6	359.22	104.840	-6.74	34.35	116.30
A50430105329	SS02	1	F	39209.8	359.19	104.967	-6.74	34.29	116.26
A50430105331	SS02	1	R	39211.9	359.16	105.094	-6.74	34.23	116.23
A50430105333	SS02	1	F	39214.1	359.14	105.220	-6.74	34.18	116.20
A50430105335	SS02	1	R	39216.2	359.11	105.347	-6.73	34.12	116.17
A50430105337	SS02	1	F	39218.4	359.09	105.475	-6.73	34.06	116.13
A50430105340	SS02	1	R	39220.5	359.06	105.602	-6.73	34.00	116.10
A50430105342	SS02	1	F	39222.6	359.04	105.727	-6.73	33.94	116.07
A50430105344	SS02	1	R	39224.8	359.01	105.854	-6.73	33.88	116.04

A50430105346	SS02	1	F	39226.9	358.99	105.983	-6.73	33.82	116.01
A50430105348	SS02	1	R	39229.1	358.97	106.109	-6.72	33.76	115.97
A50430105350	SS02	1	F	39231.2	358.95	106.236	-6.72	33.71	115.94
A50430105352	SS02	1	R	39233.3	358.92	106.361	-6.72	33.65	115.91
A50430105355	SS02	1	F	39235.5	358.90	106.489	-6.72	33.58	115.88
A50430105357	SS02	1	R	39237.6	358.87	106.616	-6.72	33.52	115.85
A50430105359	SS02	1	F	39239.8	358.85	106.742	-6.71	33.46	115.81
A50430105401	SS02	1	R	39241.9	358.82	106.869	-6.71	33.40	115.78
A50430105403	SS02	1	F	39244.1	358.80	106.997	-6.71	33.34	115.75
A50430105405	SS02	1	R	39246.2	358.77	107.122	-6.71	33.28	115.72
A50430105407	SS02	1	F	39248.4	358.75	107.249	-6.71	33.22	115.68
A50430105410	SS02	1	R	39250.5	358.72	107.375	-6.71	33.16	115.65
A50430105412	SS02	1	F	39252.7	358.70	107.503	-6.70	33.10	115.62
A50430105414	SS02	1	R	39254.8	358.67	107.629	-6.70	33.04	115.59
A50430105416	SS02	1	F	39256.9	358.65	107.755	-6.70	32.98	115.56
A50430105418	SS02	1	R	39259.1	358.62	107.881	-6.70	32.92	115.52
A50430105420	SS02	1	F	39261.2	358.60	108.008	-6.70	32.86	115.49
A50430105422	SS02	1	R	39263.4	358.58	108.135	-6.69	32.79	115.47
A50430105425	SS02	1	F	39265.5	358.55	108.261	-6.69	32.73	115.44
A50430105427	SS02	1	R	39267.7	358.53	108.388	-6.69	32.67	115.40

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50430135503	SS03	2	R	50104.0	360.37	98.955	-6.73	36.53	71.80
A50430135505	SS03	2	F	50106.2	360.34	99.083	-6.74	36.47	71.77
A50430135507	SS03	2	R	50108.3	360.32	99.210	-6.74	36.41	71.74
A50430135514	SS03	2	F	50114.8	360.24	99.591	-6.74	36.25	71.64
A50430135516	SS03	2	R	50116.9	360.21	99.719	-6.74	36.19	71.61
A50430135520	SS03	2	R	50121.2	360.16	99.975	-6.74	36.07	71.54
A50430135522	SS03	2	F	50123.3	360.13	100.100	-6.74	36.01	71.51
A50430135525	SS03	2	R	50125.5	360.11	100.227	-6.74	35.95	71.48
A50430135527	SS03	2	F	50127.6	360.08	100.356	-6.74	35.90	71.45
A50430135529	SS03	2	R	50129.8	360.05	100.482	-6.74	35.84	71.41
A50430135531	SS03	2	F	50131.9	360.02	100.609	-6.74	35.78	71.38
A50430135535	SS03	2	F	50136.2	359.97	100.864	-6.74	35.67	71.32
A50430135537	SS03	2	R	50138.4	359.95	100.990	-6.74	35.61	71.28
A50430135540	SS03	2	F	50140.5	359.92	101.117	-6.74	35.55	71.25
A50430135542	SS03	2	R	50142.6	359.90	101.244	-6.74	35.49	71.21
A50430135546	SS03	2	R	50146.9	359.84	101.498	-6.74	35.37	71.15
A50430135548	SS03	2	F	50149.1	359.81	101.625	-6.74	35.31	71.11
A50430135552	SS03	2	F	50153.4	359.76	101.879	-6.74	35.20	71.05
A50430135557	SS03	2	F	50157.7	359.71	102.132	-6.74	35.09	70.99
A50430135559	SS03	2	R	50159.8	359.69	102.260	-6.74	35.03	70.95
A50430135603	SS03	2	R	50164.1	359.63	102.513	-6.74	34.91	70.89
A50430135605	SS03	2	F	50166.3	359.60	102.640	-6.73	34.85	70.86
A50430135610	SS03	2	F	50170.6	359.55	102.895	-6.73	34.73	70.79
A50430135612	SS03	2	R	50172.7	359.53	103.021	-6.73	34.67	70.76
A50430135614	SS03	2	F	50174.8	359.50	103.147	-6.73	34.62	70.73
A50430135618	SS03	2	F	50179.1	359.45	103.401	-6.73	34.49	70.66
A50430135620	SS03	2	R	50181.3	359.43	103.528	-6.73	34.44	70.63
A50430135627	SS03	2	F	50187.7	359.35	103.908	-6.73	34.26	70.53
A50430135629	SS03	2	R	50189.8	359.33	104.034	-6.72	34.20	70.50
A50430135635	SS03	2	F	50196.3	359.25	104.415	-6.72	34.02	70.41
A50430135637	SS03	2	R	50198.4	359.22	104.540	-6.72	33.96	70.37
A50430135640	SS03	2	F	50200.6	359.20	104.668	-6.72	33.90	70.34
A50430135642	SS03	2	R	50202.7	359.17	104.793	-6.72	33.84	70.31
A50430135644	SS03	2	F	50204.9	359.14	104.920	-6.72	33.78	70.28
A50430135646	SS03	2	R	50207.0	359.11	105.047	-6.72	33.72	70.24
A50430135648	SS03	2	F	50209.2	359.09	105.175	-6.71	33.66	70.21
A50430135650	SS03	2	R	50211.3	359.06	105.300	-6.71	33.60	70.18
A50430135652	SS03	2	F	50213.4	359.04	105.427	-6.71	33.54	70.15
A50430135655	SS03	2	R	50215.6	359.01	105.553	-6.71	33.48	70.12
A50430135657	SS03	2	F	50217.8	358.99	105.681	-6.71	33.42	70.08
A50430135659	SS03	2	R	50219.9	358.96	105.807	-6.71	33.36	70.05
A50430135701	SS03	2	F	50222.1	358.94	105.935	-6.71	33.30	70.02
A50430135703	SS03	2	R	50224.2	358.91	106.059	-6.71	33.24	69.99
A50430135705	SS03	2	F	50226.3	358.89	106.187	-6.70	33.18	69.95
A50430135708	SS03	2	R	50228.5	358.87	106.313	-6.70	33.12	69.92
A50430135710	SS03	2	F	50230.6	358.84	106.441	-6.70	33.05	69.89
A50430135712	SS03	2	R	50232.8	358.82	106.567	-6.70	32.99	69.86
A50430135714	SS03	2	F	50235.0	358.80	106.695	-6.70	32.93	69.83
A50430135716	SS03	2	R	50237.1	358.77	106.820	-6.69	32.87	69.79
A50430135718	SS03	2	F	50239.2	358.75	106.947	-6.69	32.81	69.76
A50430135720	SS03	2	R	50241.4	358.72	107.073	-6.69	32.75	69.73
A50430135723	SS03	2	F	50243.6	358.70	107.201	-6.69	32.69	69.70
A50430135725	SS03	2	R	50245.7	358.67	107.327	-6.69	32.63	69.66

[illegible]0430135727	SS03	2	F	50247.9	358.65	107.454	-6.69	32.56	69.63
[illegible]0430135729	SS03	2	R	50250.0	358.62	107.579	-6.68	32.50	69.60
A50430135731	SS03	2	F	50252.2	358.60	107.707	-6.68	32.44	69.57
A50430135733	SS03	2	R	50254.3	358.57	107.833	-6.68	32.37	69.54
A50430135736	SS03	2	F	50256.5	358.55	107.960	-6.67	32.31	69.50
A50430135738	SS03	2	R	50258.6	358.52	108.086	-6.67	32.25	69.47
A50430135740	SS03	2	F	50260.8	358.50	108.213	-6.67	32.19	69.44
A50430135742	SS03	2	R	50262.9	358.48	108.339	-6.67	32.12	69.41
A50430135744	SS03	2	F	50265.1	358.46	108.466	-6.67	32.06	69.37
A50430135746	SS03	2	R	50267.2	358.43	108.591	-6.66	32.00	69.34
A50430135748	SS03	2	F	50269.4	358.41	108.718	-6.66	31.94	69.31
A50430135751	SS03	2	R	50271.5	358.38	108.844	-6.66	31.87	69.28
A50430135755	SS03	2	R	50275.8	358.34	109.096	-6.65	31.75	69.21
A50430135757	SS03	2	F	50278.0	358.32	109.223	-6.65	31.68	69.18

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50430165817	SS04	4	F	61097.9	360.07	98.839	-6.71	36.10	25.84
A50430165821	SS04	4	F	61102.2	360.01	99.091	-6.71	35.98	25.78
A50430165823	SS04	4	R	61104.4	359.99	99.218	-6.71	35.92	25.74
A50430165826	SS04	4	F	61106.5	359.96	99.346	-6.71	35.86	25.71
A50430165830	SS04	4	F	61110.8	359.91	99.601	-6.71	35.74	25.64
A50430165834	SS04	4	F	61115.1	359.85	99.855	-6.71	35.63	25.57
A50430165836	SS04	4	R	61117.3	359.83	99.981	-6.71	35.57	25.54
A50430165841	SS04	4	R	61121.6	359.77	100.236	-6.72	35.45	25.48
A50430165847	SS04	4	F	61128.1	359.69	100.618	-6.72	35.27	25.38
A50430165851	SS04	4	F	61132.4	359.64	100.871	-6.72	35.15	25.31
A50430165854	SS04	4	R	61134.5	359.61	100.997	-6.72	35.09	25.28
A50430165856	SS04	4	F	61136.6	359.58	101.125	-6.72	35.03	25.25
A50430165900	SS04	4	F	61140.9	359.53	101.377	-6.72	34.92	25.19
A50430165904	SS04	4	F	61145.3	359.48	101.632	-6.71	34.80	25.12
A50430165909	SS04	4	F	61145.3	359.48	101.632	-6.71	34.80	25.12
A50430165911	SS04	4	R	61151.7	359.40	102.012	-6.71	34.62	25.02
A50430165913	SS04	4	F	61153.8	359.37	102.139	-6.71	34.56	24.99
A50430165917	SS04	4	F	61158.2	359.32	102.394	-6.71	34.44	24.92
A50430165922	SS04	4	F	61162.5	359.27	102.648	-6.71	34.32	24.85
A50430165926	SS04	4	F	61166.8	359.22	102.901	-6.71	34.21	24.79
A50430165930	SS04	4	F	61171.1	359.16	103.156	-6.71	34.09	24.72
A50430165935	SS04	4	F	61175.4	359.11	103.409	-6.71	33.96	24.66
A50430165939	SS04	4	F	61179.7	359.06	103.662	-6.71	33.84	24.59
A50430165950	SS04	4	R	61190.5	358.93	104.295	-6.70	33.54	24.43
A50430165952	SS04	4	F	61192.6	358.90	104.423	-6.70	33.48	24.40
A50430165954	SS04	4	R	61194.8	358.88	104.549	-6.70	33.41	24.37
A50430170000	SS04	4	F	61201.3	358.80	104.931	-6.70	33.23	24.27
A50430170003	SS04	4	R	61203.4	358.77	105.055	-6.70	33.17	24.24

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50430170005	SS04	4	F	61205.6	358.75	105.183	-6.69	33.11	24.21
A50430170007	SS04	4	R	61207.7	358.72	105.309	-6.69	33.05	24.17
A50430170009	SS04	4	F	61209.9	358.70	105.436	-6.69	32.99	24.14
A50430170011	SS04	4	R	61212.0	358.67	105.562	-6.69	32.93	24.11
A50430170013	SS04	4	F	61214.2	358.65	105.690	-6.69	32.86	24.08
A50430170015	SS04	4	R	61216.3	358.62	105.815	-6.69	32.80	24.05
A50430170018	SS04	4	F	61218.5	358.60	105.942	-6.68	32.74	24.01
A50430170020	SS04	4	R	61220.6	358.57	106.068	-6.68	32.67	23.98
A50430170024	SS04	4	R	61225.0	358.52	106.322	-6.68	32.55	23.92
A50430170026	SS04	4	F	61227.1	358.50	106.448	-6.68	32.49	23.88
A50430170028	SS04	4	R	61229.2	358.48	106.573	-6.67	32.43	23.85
A50430170031	SS04	4	F	61231.4	358.46	106.701	-6.67	32.37	23.82
A50430170033	SS04	4	R	61233.6	358.43	106.827	-6.67	32.31	23.79
A50430170035	SS04	4	F	61235.7	358.41	106.954	-6.67	32.24	23.75
A50430170039	SS04	4	F	61240.0	358.36	107.206	-6.67	32.12	23.69
A50430170041	SS04	4	R	61242.2	358.33	107.331	-6.66	32.06	23.65
A50430170043	SS04	4	F	61244.3	358.31	107.459	-6.66	31.99	23.61
A50430170046	SS04	4	R	61246.5	358.28	107.584	-6.66	31.93	23.58
A50430170048	SS04	4	F	61248.7	358.26	107.711	-6.66	31.86	23.55
A50430170050	SS04	4	R	61250.8	358.23	107.837	-6.66	31.80	23.52
A50430170052	SS04	4	F	61253.0	358.21	107.963	-6.66	31.74	23.49
A50430170059	SS04	4	R	61259.4	358.14	108.341	-6.64	31.55	23.39
A50430170101	SS04	4	F	61261.6	358.11	108.468	-6.64	31.48	23.36
A50430170103	SS04	4	R	61263.7	358.09	108.593	-6.64	31.42	23.32
A50430170105	SS04	4	F	61265.9	358.06	108.719	-6.64	31.35	23.29
A50430170107	SS04	4	R	61268.0	358.04	108.845	-6.64	31.29	23.26
A50430170109	SS04	4	F	61270.2	358.02	108.972	-6.64	31.22	23.23

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50430183034	SS05	1	F	66634.8	359.47	101.136	-6.70	34.78	2.25
A50430183036	SS05	1	R	66637.0	359.44	101.262	-6.70	34.72	2.22
A50430183038	SS05	1	F	66639.2	359.42	101.391	-6.70	34.66	2.18
A50430183043	SS05	1	F	66643.5	359.37	101.644	-6.70	34.54	2.12
A50430183045	SS05	1	R	66645.6	359.34	101.770	-6.70	34.48	2.09
A50430183047	SS05	1	F	66647.8	359.32	101.898	-6.70	34.42	2.05
A50430183049	SS05	1	R	66649.9	359.29	102.024	-6.70	34.36	2.02
A50430183051	SS05	1	F	66652.1	359.26	102.152	-6.70	34.30	1.99
A50430183055	SS05	1	F	66656.4	359.21	102.405	-6.70	34.18	1.92
A50430183058	SS05	1	R	66658.5	359.18	102.532	-6.70	34.12	1.89
A50430183100	SS05	1	F	66660.7	359.15	102.660	-6.70	34.06	1.86
A50430183102	SS05	1	R	66662.9	359.13	102.786	-6.70	34.00	1.83
A50430183104	SS05	1	F	66665.0	359.10	102.914	-6.70	33.93	1.79
A50430183106	SS05	1	R	66667.2	359.07	103.038	-6.70	33.87	1.75
A50430183108	SS05	1	F	66669.3	359.04	103.167	-6.70	33.81	1.72
A50430183113	SS05	1	F	66673.7	358.99	103.421	-6.70	33.69	1.65
A50430183115	SS05	1	R	66675.8	358.97	103.547	-6.70	33.63	1.62
A50430183117	SS05	1	F	66678.0	358.94	103.674	-6.69	33.57	1.59
A50430183119	SS05	1	R	66680.1	358.92	103.799	-6.69	33.51	1.56
A50430183121	SS05	1	F	66682.3	358.89	103.928	-6.69	33.44	1.53
A50430183124	SS05	1	R	66684.4	358.87	104.053	-6.69	33.38	1.49
A50430183126	SS05	1	F	66686.6	358.84	104.181	-6.69	33.32	1.46
A50430183128	SS05	1	R	66688.8	358.82	104.308	-6.69	33.26	1.43
A50430183130	SS05	1	F	66690.9	358.79	104.435	-6.69	33.20	1.40
A 430183132	SS05	1	R	66693.1	358.77	104.560	-6.69	33.14	1.36
A50430183134	SS05	1	F	66695.2	358.74	104.688	-6.69	33.08	1.33
A50430183136	SS05	1	R	66697.4	358.72	104.814	-6.69	33.02	1.30
A50430183139	SS05	1	F	66699.6	358.69	104.942	-6.69	32.96	1.27
A50430183141	SS05	1	R	66701.7	358.66	105.067	-6.68	32.90	1.23
A50430183143	SS05	1	F	66703.9	358.63	105.195	-6.68	32.83	1.20
A50430183145	SS05	1	R	66706.0	358.61	105.320	-6.68	32.77	1.17
A50430183147	SS05	1	F	66708.2	358.59	105.447	-6.68	32.71	1.14
A50430183149	SS05	1	R	66710.3	358.57	105.572	-6.68	32.65	1.11
A50430183152	SS05	1	F	66712.5	358.54	105.701	-6.68	32.58	1.07
A50430183154	SS05	1	R	66714.7	358.51	105.826	-6.67	32.52	1.04
A50430183156	SS05	1	F	66716.8	358.48	105.953	-6.67	32.46	1.01
A50430183158	SS05	1	R	66719.0	358.46	106.078	-6.67	32.40	0.98
A50430183200	SS05	1	F	66721.1	358.44	106.207	-6.67	32.33	0.94
A50430183202	SS05	1	R	66723.3	358.42	106.332	-6.67	32.27	0.91
A50430183205	SS05	1	F	66725.5	358.39	106.460	-6.66	32.21	0.88
A50430183207	SS05	1	R	66727.6	358.36	106.585	-6.66	32.14	0.85
A50430183209	SS05	1	F	66729.8	358.34	106.711	-6.66	32.08	0.81
A50430183211	SS05	1	R	66731.9	358.31	106.836	-6.66	32.02	0.78
A50430183213	SS05	1	F	66734.1	358.29	106.964	-6.66	31.96	0.75
A50430183215	SS05	1	R	66736.2	358.26	107.090	-6.66	31.89	0.71
A50430183217	SS05	1	F	66738.4	358.24	107.218	-6.65	31.83	0.68
A50430183220	SS05	1	R	66740.6	358.21	107.343	-6.65	31.76	0.64
A50430183222	SS05	1	F	66742.7	358.19	107.469	-6.65	31.70	0.61
A 430183224	SS05	1	R	66744.9	358.16	107.594	-6.65	31.64	0.58
A 430183226	SS05	1	F	66747.0	358.14	107.722	-6.65	31.58	0.54
A50430183228	SS05	1	R	66749.2	358.12	107.847	-6.64	31.51	0.51
A50430183230	SS05	1	F	66751.4	358.10	107.975	-6.64	31.45	0.48
A50430183233	SS05	1	R	66753.5	358.07	108.100	-6.64	31.38	0.45

A 430183235	SS05	1	F	66755.7	358.05	108.226	-6.63	31.32	0.41
A 430183237	SS05	1	R	66757.8	358.02	108.351	-6.63	31.26	0.38

IN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50430230521	SS06	3	R	83122.2	359.58	100.759	-6.67	34.19	293.36
A50430230523	SS06	3	F	83124.3	359.56	100.886	-6.67	34.13	293.33
A50430230536	SS06	3	F	83137.3	359.40	101.644	-6.67	33.76	293.12
A50430230541	SS06	3	F	83141.6	359.34	101.897	-6.67	33.64	293.06
A50430230543	SS06	3	R	83143.8	359.32	102.023	-6.67	33.58	293.02
A50430230545	SS06	3	F	83145.9	359.29	102.149	-6.67	33.51	292.99
A50430230547	SS06	3	R	83148.0	359.27	102.275	-6.67	33.45	292.96
A50430230549	SS06	3	F	83150.2	359.24	102.402	-6.67	33.39	292.93
A50430230554	SS06	3	F	83154.5	359.19	102.655	-6.67	33.26	292.86
A50430230556	SS06	3	R	83156.7	359.17	102.780	-6.67	33.20	292.83
A50430230558	SS06	3	F	83158.8	359.14	102.906	-6.67	33.14	292.79
A50430230600	SS06	3	R	83161.0	359.12	103.031	-6.67	33.08	292.76
A50430230602	SS06	3	F	83163.2	359.09	103.159	-6.66	33.02	292.72
A50430230607	SS06	3	F	83167.5	359.04	103.411	-6.66	32.90	292.66
A50430230609	SS06	3	R	83169.6	359.01	103.537	-6.66	32.83	292.63
A50430230611	SS06	3	F	83171.8	358.98	103.662	-6.66	32.77	292.59
A50430230613	SS06	3	R	83173.9	358.96	103.788	-6.66	32.71	292.56
A50430230615	SS06	3	F	83176.1	358.93	103.915	-6.66	32.64	292.53
A50430230617	SS06	3	R	83178.3	358.91	104.040	-6.66	32.58	292.50
A50430230620	SS06	3	F	83180.4	358.88	104.168	-6.66	32.52	292.46
A50430230622	SS06	3	R	83182.6	358.86	104.293	-6.66	32.45	292.43
A50430230624	SS06	3	F	83184.7	358.83	104.419	-6.66	32.39	292.40
A50430230626	SS06	3	R	83186.9	358.81	104.544	-6.66	32.33	292.37
A[illegible]430230628	SS06	3	F	83189.1	358.78	104.671	-6.65	32.27	292.33
A[illegible]430230630	SS06	3	R	83191.2	358.76	104.796	-6.65	32.20	292.30
A50430230632	SS06	3	F	83193.4	358.73	104.923	-6.65	32.14	292.27
A50430230635	SS06	3	R	83195.5	358.71	105.049	-6.65	32.07	292.24
A50430230637	SS06	3	F	83197.7	358.68	105.174	-6.65	32.01	292.20
A50430230639	SS06	3	R	83199.8	358.66	105.299	-6.65	31.95	292.17
A50430230641	SS06	3	F	83202.0	358.64	105.426	-6.65	31.89	292.14
A50430230643	SS06	3	R	83204.1	358.61	105.551	-6.65	31.83	292.10
A50430230645	SS06	3	F	83206.3	358.59	105.678	-6.64	31.76	292.07
A50430230648	SS06	3	R	83208.5	358.56	105.802	-6.64	31.70	292.03
A50430230650	SS06	3	F	83210.6	358.54	105.929	-6.64	31.63	292.00
A50430230652	SS06	3	R	83212.8	358.51	106.053	-6.64	31.57	291.97
A50430230656	SS06	3	R	83217.1	358.46	106.305	-6.63	31.44	291.90
A50430230658	SS06	3	F	83219.3	358.44	106.433	-6.63	31.37	291.87
A50430230701	SS06	3	R	83221.4	358.42	106.556	-6.63	31.31	291.84
A50430230703	SS06	3	F	83223.6	358.39	106.683	-6.63	31.25	291.81
A50430230705	SS06	3	R	83225.7	358.37	106.808	-6.63	31.19	291.77
A50430230707	SS06	3	F	83227.9	358.35	106.934	-6.63	31.12	291.74
A50430230709	SS06	3	R	83230.0	358.32	107.059	-6.62	31.05	291.71
A50430230711	SS06	3	F	83232.2	358.30	107.186	-6.62	30.98	291.68
A50430230713	SS06	3	R	83234.3	358.27	107.309	-6.62	30.92	291.64
A50430230716	SS06	3	F	83236.5	358.25	107.436	-6.62	30.86	291.61
A50430230718	SS06	3	R	83238.7	358.22	107.561	-6.62	30.80	291.58
A50430230720	SS06	3	F	83240.8	358.20	107.687	-6.62	30.73	291.55
A50430230722	SS06	3	R	83243.0	358.18	107.813	-6.61	30.66	291.51
A[illegible]430230724	SS06	3	F	83245.2	358.16	107.939	-6.61	30.59	291.48
A50430230726	SS06	3	R	83247.3	358.13	108.062	-6.61	30.53	291.45
A50430230729	SS06	3	F	83249.5	358.11	108.188	-6.61	30.47	291.42
A50430230731	SS06	3	R	83251.6	358.08	108.314	-6.61	30.40	291.38
A50430230733	SS06	3	F	83253.8	358.06	108.440	-6.60	30.34	291.35

A[illegible]30230735	SS06	3	R	83256.0	358.04	108.565	-6.60	30.27	291.31
A50430230737	SS06	3	F	83258.1	358.02	108.690	-6.60	30.20	291.28
A50430230739	SS06	3	R	83260.3	358.00	108.814	-6.59	30.14	291.25
A50430230742	SS06	3	F	83262.4	357.98	108.939	-6.59	30.07	[illegible]

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501003711	SS07	2	F	2232.0	359.38	101.453	-6.66	33.59	270.18
A50501003713	SS07	2	R	2234.2	359.35	101.578	-6.66	33.53	270.14
A50501003715	SS07	2	F	2236.3	359.32	101.704	-6.66	33.47	270.11
A50501003718	SS07	2	R	2238.5	359.30	101.829	-6.66	33.41	270.08
A50501003720	SS07	2	F	2240.6	359.27	101.957	-6.66	33.35	270.04
A50501003722	SS07	2	R	2242.8	359.24	102.082	-6.66	33.29	270.01
A50501003724	SS07	2	F	2245.0	359.22	102.210	-6.66	33.22	269.98
A50501003726	SS07	2	R	2247.1	359.19	102.335	-6.66	33.16	269.94
A50501003728	SS07	2	F	2249.3	359.17	102.462	-6.66	33.09	269.91
A50501003730	SS07	2	R	2251.4	359.14	102.588	-6.66	33.03	269.88
A50501003733	SS07	2	F	2253.6	359.11	102.716	-6.66	32.97	269.85
A50501003735	SS07	2	R	2255.7	359.09	102.841	-6.66	32.91	269.81
A50501003737	SS07	2	F	2257.9	359.06	102.968	-6.65	32.84	269.77
A50501003739	SS07	2	R	2260.1	359.04	103.092	-6.65	32.78	269.74
A50501003741	SS07	2	F	2262.2	359.01	103.219	-6.65	32.72	269.71
A50501003743	SS07	2	R	2264.4	358.99	103.344	-6.65	32.66	269.67
A50501003748	SS07	2	R	2268.7	358.94	103.597	-6.65	32.53	269.61
A50501003752	SS07	2	R	2273.0	358.89	103.849	-6.65	32.40	269.55
A50501003756	SS07	2	R	2277.3	358.85	104.101	-6.65	32.28	269.48
A50501003759	SS07	2	F	2279.5	358.82	104.228	-6.65	32.21	269.45
A50501003801	SS07	2	R	2281.7	358.80	104.353	-6.64	32.15	269.42
A50501003803	SS07	2	F	2283.8	358.77	104.480	-6.64	32.08	269.38
A50501003805	SS07	2	R	2286.0	358.75	104.603	-6.64	32.02	269.35
A50501003807	SS07	2	F	2288.1	358.72	104.729	-6.64	31.96	269.32
A50501003809	SS07	2	R	2290.3	358.70	104.853	-6.64	31.90	269.29
A50501003812	SS07	2	F	2292.5	358.67	104.980	-6.64	31.84	269.25
A50501003814	SS07	2	R	2294.6	358.64	105.104	-6.64	31.77	269.22
A50501003816	SS07	2	F	2296.8	358.62	105.231	-6.64	31.71	269.18
A50501003818	SS07	2	R	2298.9	358.60	105.355	-6.63	31.64	269.15
A50501003820	SS07	2	F	2301.1	358.57	105.482	-6.63	31.58	269.11
A50501003822	SS07	2	R	2303.3	358.55	105.607	-6.63	31.51	269.08
A50501003824	SS07	2	F	2305.4	358.53	105.735	-6.63	31.45	269.05
A50501003827	SS07	2	R	2307.6	358.50	105.861	-6.63	31.38	269.02
A50501003829	SS07	2	F	2309.8	358.48	105.987	-6.63	31.32	268.98
A50501003831	SS07	2	R	2311.9	358.45	106.111	-6.63	31.25	268.95
A50501003833	SS07	2	F	2314.1	358.43	106.238	-6.63	31.19	268.92
A50501003835	SS07	2	R	2316.2	358.41	106.363	-6.63	31.12	268.89
A50501003837	SS07	2	F	2318.4	358.39	106.490	-6.62	31.06	268.85
A50501003840	SS07	2	R	2320.5	358.36	106.615	-6.62	30.99	268.82
A50501003842	SS07	2	F	2322.7	358.34	106.740	-6.62	30.93	268.79
A50501003844	SS07	2	R	2324.9	358.31	106.864	-6.62	30.86	268.76
A50501003846	SS07	2	F	2327.0	358.29	106.991	-6.62	30.80	268.72
A50501003848	SS07	2	R	2329.2	358.27	107.116	-6.61	30.73	268.69
A50501003850	SS07	2	F	2331.4	358.25	107.243	-6.61	30.67	268.66
A50501003853	SS07	2	R	2333.5	358.22	107.368	-6.61	30.60	268.63
A50501003855	SS07	2	F	2335.7	358.20	107.493	-6.61	30.54	268.59
A50501003857	SS07	2	R	2337.8	358.17	107.618	-6.61	30.48	268.56
A50501003859	SS07	2	F	2340.0	358.15	107.744	-6.61	30.41	268.53
A50501003901	SS07	2	R	2342.1	358.13	107.869	-6.60	30.34	268.49
A50501003903	SS07	2	F	2344.3	358.11	107.995	-6.60	30.27	268.46
A50501003906	SS07	2	R	2346.5	358.09	108.118	-6.60	30.21	268.43
A50501003908	SS07	2	F	2348.6	358.06	108.243	-6.59	30.14	268.40
A50501003910	SS07	2	R	2350.8	358.04	108.367	-6.59	30.08	268.36

A5 01003912	SS07	2	F	2353.0	358.02	108.493	-6.59	30.01	268.33
A50501003914	SS07	2	R	2355.1	357.99	108.617	-6.59	29.94	268.30
A50501003916	SS07	2	F	2357.3	357.97	108.743	-6.58	29.87	268.26
A50501003918	SS07	2	R	2359.4	357.95	108.867	-6.58	29.81	268.23
A50501003921	SS07	2	F	2361.6	357.92	108.992	-6.58	29.74	268.20

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501020836	SS08	1	F	7717.0	359.42	100.697	-6.65	33.70	247.37
A50501020838	SS08	1	R	7719.2	359.39	100.822	-6.65	33.64	247.34
A50501020840	SS08	1	F	7721.4	359.36	100.949	-6.65	33.58	247.31
A50501020843	SS08	1	R	7723.5	359.34	101.073	-6.65	33.52	247.28
A50501020845	SS08	1	F	7725.7	359.31	101.200	-6.65	33.45	247.24
A50501020847	SS08	1	R	7727.8	359.29	101.325	-6.65	33.39	247.21
A50501020849	SS08	1	F	7730.0	359.26	101.452	-6.65	33.33	247.17
A50501020851	SS08	1	R	7732.1	359.24	101.577	-6.65	33.27	247.14
A50501020853	SS08	1	F	7734.3	359.21	101.704	-6.65	33.20	247.11
A50501020855	SS08	1	R	7736.4	359.19	101.828	-6.65	33.14	247.07
A50501020858	SS08	1	F	7738.6	359.16	101.955	-6.65	33.08	247.04
A50501020900	SS08	1	R	7740.8	359.14	102.080	-6.65	33.02	247.01
A50501020902	SS08	1	F	7742.9	359.11	102.208	-6.65	32.95	246.98
A50501020904	SS08	1	R	7745.1	359.09	102.333	-6.65	32.89	246.94
A50501020906	SS08	1	F	7747.3	359.06	102.458	-6.65	32.83	246.91
A50501020908	SS08	1	R	7749.4	359.04	102.583	-6.65	32.77	246.88
A50501020911	SS08	1	F	7751.6	359.01	102.710	-6.65	32.70	246.85
A50501020913	SS08	1	R	7753.7	358.99	102.835	-6.64	32.64	246.81
A50501020915	SS08	1	F	7755.9	358.96	102.962	-6.64	32.57	246.78
A50501020917	SS08	1	R	7758.0	358.94	103.087	-6.64	32.51	246.75
A50501020919	SS08	1	F	7760.2	358.92	103.213	-6.64	32.45	246.71
A50501020921	SS08	1	R	7762.3	358.90	103.337	-6.64	32.39	246.67
A50501020924	SS08	1	F	7764.5	358.87	103.464	-6.64	32.32	246.64
A50501020926	SS08	1	R	7766.7	358.85	103.590	-6.64	32.26	246.61
A50501020928	SS08	1	F	7768.9	358.82	103.717	-6.64	32.20	246.58
A50501020930	SS08	1	R	7771.0	358.79	103.841	-6.64	32.14	246.54
A50501020932	SS08	1	F	7773.2	358.77	103.967	-6.64	32.07	246.51
A50501020934	SS08	1	R	7775.3	358.74	104.092	-6.64	32.01	246.48
A50501020937	SS08	1	F	7777.5	358.72	104.219	-6.63	31.95	246.45
A50501020939	SS08	1	R	7779.6	358.69	104.344	-6.63	31.88	246.42
A50501020941	SS08	1	F	7781.8	358.67	104.471	-6.63	31.82	246.38
A50501020943	SS08	1	R	7784.0	358.65	104.595	-6.63	31.75	246.35
A50501020945	SS08	1	F	7786.1	358.63	104.720	-6.63	31.69	246.32
A50501020947	SS08	1	R	7788.3	358.60	104.845	-6.63	31.62	246.28
A50501020949	SS08	1	F	7790.4	358.58	104.972	-6.63	31.56	246.25
A50501020952	SS08	1	R	7792.6	358.55	105.097	-6.63	31.49	246.21
A50501020954	SS08	1	F	7794.8	358.53	105.223	-6.63	31.43	246.18
A50501020956	SS08	1	R	7796.9	358.50	105.347	-6.62	31.36	246.15
A50501020958	SS08	1	F	7799.1	358.48	105.473	-6.62	31.30	246.11
A50501021000	SS08	1	R	7801.2	358.46	105.598	-6.62	31.23	246.08
A50501021002	SS08	1	F	7803.4	358.44	105.725	-6.62	31.17	246.05
A50501021005	SS08	1	R	7805.5	358.41	105.849	-6.62	31.10	246.02
A50501021007	SS08	1	F	7807.7	358.39	105.976	-6.62	31.04	245.98
A50501021009	SS08	1	R	7809.9	358.36	106.100	-6.62	30.97	245.95
A50501021011	SS08	1	F	7812.0	358.34	106.225	-6.62	30.91	245.92
A50501021013	SS08	1	R	7814.2	358.32	106.350	-6.61	30.84	245.89
A50501021015	SS08	1	F	7816.3	358.30	106.476	-6.61	30.78	245.85
A50501021018	SS08	1	R	7818.5	358.27	106.601	-6.61	30.72	245.82
A50501021020	SS08	1	F	7820.7	358.25	106.727	-6.61	30.65	245.79
A50501021022	SS08	1	R	7822.8	358.22	106.850	-6.61	30.58	245.76
A50501021024	SS08	1	F	7825.0	358.20	106.977	-6.61	30.52	245.73
A50501021026	SS08	1	R	7827.1	358.18	107.101	-6.60	30.45	245.69
A50501021028	SS08	1	F	7829.3	358.16	107.227	-6.60	30.38	245.66

A50501021030	SS08	1	R	7831.5	358.14	107.352	-6.60	30.32	245.63
A50501021033	SS08	1	F	7833.6	358.11	107.478	-6.60	30.25	245.60
A50501021035	SS08	1	R	7835.8	358.09	107.601	-6.60	30.19	245.56
A50501021037	SS08	1	F	7837.9	358.07	107.727	-6.59	30.12	245.52
A50501021039	SS08	1	R	7840.1	358.05	107.852	-6.59	30.06	245.49
A50501021041	SS08	1	F	7842.3	358.02	107.978	-6.59	29.99	245.46
A50501021043	SS08	1	R	7844.4	358.00	108.102	-6.58	29.92	245.42
A50501021046	SS08	1	F	7846.6	357.97	108.228	-6.58	29.85	245.39
A50501021048	SS08	1	R	7848.7	357.95	108.351	-6.58	29.79	245.36
A50501021050	SS08	1	F	7850.9	357.93	108.477	-6.58	29.72	245.33
A50501021052	SS08	1	R	7853.0	357.91	108.601	-6.58	29.66	245.29
A50501021054	SS08	1	F	7855.2	357.89	108.727	-6.57	29.59	245.26
A50501021056	SS08	1	R	7857.4	357.87	108.851	-6.57	29.52	245.23
A50501021101	SS08	1	R	7861.7	357.82	109.099	-6.56	29.38	245.16
A50501021103	SS08	1	F	7863.9	357.80	109.225	-6.56	29.31	245.13
A50501021105	SS08	1	R	7866.0	357.78	109.350	-6.56	29.25	245.10

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501172458	SS09	3	F	62698.9	358.96	100.692	-6.54	31.01	17.37
A50501172500	SS09	3	R	62701.1	358.94	100.816	-6.54	30.95	17.33
A50501172502	SS09	3	F	62703.3	358.91	100.940	-6.54	30.88	17.30
A50501172504	SS09	3	R	62705.4	358.89	101.062	-6.54	30.81	17.27
A50501172509	SS09	3	R	62709.7	358.84	101.309	-6.54	30.68	17.20
A50501172513	SS09	3	R	62714.0	358.79	101.556	-6.54	30.55	17.13
A50501172515	SS09	3	F	62716.2	358.77	101.680	-6.54	30.48	17.10
A50501172517	SS09	3	R	62718.3	358.75	101.803	-6.54	30.41	17.06
A50501172520	SS09	3	F	62720.5	358.72	101.926	-6.54	30.34	17.03
A50501172522	SS09	3	R	62722.6	358.70	102.049	-6.54	30.27	17.00
A50501172524	SS09	3	F	62724.8	358.67	102.173	-6.54	30.21	16.97
A50501172530	SS09	3	R	62731.3	358.60	102.542	-6.54	30.01	16.86
A50501172532	SS09	3	F	62733.4	358.58	102.665	-6.54	29.94	16.83
A50501172535	SS09	3	R	62735.6	358.55	102.788	-6.54	29.87	16.80
A50501172537	SS09	3	F	62737.7	358.53	102.913	-6.54	29.80	16.76
A50501172539	SS09	3	R	62739.9	358.50	103.035	-6.54	29.74	16.73
A50501172541	SS09	3	F	62742.1	358.48	103.160	-6.54	29.67	16.70
A50501172543	SS09	3	R	62744.2	358.46	103.282	-6.54	29.60	16.66
A50501172545	SS09	3	F	62746.4	358.44	103.406	-6.53	29.53	16.63
A50501172548	SS09	3	R	62748.5	358.41	103.528	-6.53	29.46	16.59
A50501172550	SS09	3	F	62750.7	358.39	103.652	-6.53	29.40	16.56
A50501172552	SS09	3	R	62752.8	358.36	103.775	-6.53	29.33	16.53
A50501172554	SS09	3	F	62755.0	358.34	103.899	-6.53	29.27	16.49
A50501172556	SS09	3	R	62757.2	358.32	104.021	-6.53	29.19	16.46
A50501172558	SS09	3	F	62759.3	358.30	104.145	-6.53	29.12	16.43
A50501172601	SS09	3	R	62761.5	358.28	104.267	-6.53	29.06	16.40
A50501172603	SS09	3	F	62763.6	358.25	104.391	-6.53	28.99	16.36
A50501172605	SS09	3	R	62765.8	358.23	104.514	-6.53	28.93	16.32
A50501172607	SS09	3	F	62768.0	358.21	104.638	-6.53	28.85	16.29
A50501172609	SS09	3	R	62770.1	358.19	104.760	-6.53	28.78	16.26
A50501172611	SS09	3	F	62772.3	358.17	104.883	-6.53	28.71	16.23
A50501172613	SS09	3	R	62774.4	358.15	105.006	-6.53	28.64	16.19
A50501172616	SS09	3	F	62776.6	358.12	105.130	-6.52	28.57	16.16
A50501172618	SS09	3	R	62778.7	358.10	105.252	-6.52	28.51	16.13
A50501172620	SS09	3	F	62780.9	358.08	105.377	-6.52	28.44	16.09
A50501172622	SS09	3	R	62783.1	358.05	105.499	-6.52	28.37	16.06
A50501172624	SS09	3	F	62785.2	358.03	105.622	-6.52	28.30	16.02
A50501172626	SS09	3	R	62787.4	358.01	105.744	-6.52	28.23	15.99
A50501172629	SS09	3	F	62789.6	357.98	105.868	-6.52	28.16	15.96
A50501172631	SS09	3	R	62791.7	357.96	105.990	-6.52	28.09	15.92
A50501172633	SS09	3	F	62793.9	357.94	106.114	-6.51	28.02	15.89
A50501172635	SS09	3	R	62796.0	357.92	106.236	-6.51	27.95	15.86
A50501172637	SS09	3	F	62798.2	357.90	106.359	-6.51	27.88	15.83
A50501172639	SS09	3	R	62800.3	357.88	106.481	-6.51	27.81	15.79
A50501172642	SS09	3	F	62802.5	357.86	106.605	-6.51	27.74	15.76
A50501172644	SS09	3	R	62804.7	357.84	106.727	-6.51	27.67	15.73
A50501172646	SS09	3	F	62806.8	357.82	106.851	-6.50	27.60	15.69
A50501172648	SS09	3	R	62809.0	357.80	106.972	-6.50	27.53	15.66
A50501172650	SS09	3	F	62811.1	357.78	107.095	-6.50	27.46	15.62
A50501172652	SS09	3	R	62813.3	357.76	107.217	-6.50	27.39	15.59
A50501172655	SS09	3	F	62815.5	357.74	107.341	-6.50	27.32	15.56
A50501172657	SS09	3	R	62817.6	357.71	107.463	-6.49	27.25	15.53
A50501172659	SS09	3	F	62819.8	357.69	107.587	-6.49	27.18	15.49

A[illegible]501172701	SS09	3	R	62821.9	357.67	107.707	-6.49	27.11	15.46
A[illegible]501172703	SS09	3	F	62824.1	357.66	107.831	-6.49	27.04	15.42
A50501172705	SS09	3	R	62826.3	357.64	107.953	-6.49	26.97	15.39
A50501172707	SS09	3	F	62828.4	357.62	108.076	-6.49	26.90	15.35
A50501172710	SS09	3	R	62830.6	357.59	108.198	-6.48	26.83	15.32
A50501172712	SS09	3	F	62832.8	357.57	108.321	-6.48	26.75	15.29
A50501172714	SS09	3	R	62834.9	357.55	108.442	-6.48	26.68	15.26
A50501172716	SS09	3	F	62837.1	357.53	108.565	-6.48	26.61	15.22
A50501172718	SS09	3	R	62839.2	357.51	108.688	-6.48	26.54	15.19
A50501172720	SS09	3	F	62841.4	357.49	108.811	-6.47	26.47	15.15

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501185637	SS10	4	F	68198.0	358.91	100.736	-6.53	30.71	354.36
A50501185646	SS10	4	F	68206.7	358.81	101.231	-6.53	30.44	354.22
A50501185650	SS10	4	F	68211.0	358.76	101.476	-6.53	30.31	354.15
A50501185652	SS10	4	R	68213.2	358.74	101.600	-6.53	30.25	354.11
A50501185654	SS10	4	F	68215.3	358.71	101.724	-6.53	30.18	354.08
A50501185659	SS10	4	F	68219.7	358.66	101.972	-6.53	30.04	354.01
A50501185701	SS10	4	R	68221.8	358.64	102.094	-6.53	29.97	353.98
A50501185703	SS10	4	F	68224.0	358.62	102.217	-6.53	29.90	353.95
A50501185705	SS10	4	R	68226.1	358.60	102.340	-6.53	29.84	353.92
A50501185707	SS10	4	F	68228.3	358.57	102.465	-6.53	29.77	353.88
A50501185710	SS10	4	R	68230.5	358.55	102.588	-6.53	29.70	353.85
A50501185712	SS10	4	F	68232.6	358.52	102.713	-6.53	29.63	353.81
A50501185714	SS10	4	R	68234.8	358.50	102.835	-6.53	29.56	353.78
A50501185725	SS10	4	F	68245.6	358.38	103.452	-6.53	29.22	353.61
A50501185727	SS10	4	R	68247.8	358.36	103.575	-6.52	29.15	353.58
A50501185731	SS10	4	R	68252.1	358.32	103.820	-6.52	29.01	353.51
A50501185733	SS10	4	F	68254.3	358.29	103.945	-6.52	28.94	353.48
A50501185736	SS10	4	R	68256.4	358.27	104.067	-6.52	28.88	353.44
A50501185738	SS10	4	F	68258.6	358.24	104.192	-6.52	28.81	353.41
A50501185740	SS10	4	R	68260.7	358.22	104.313	-6.52	28.74	353.38
A50501185742	SS10	4	F	68262.9	358.20	104.437	-6.52	28.67	353.34
A50501185744	SS10	4	R	68265.0	358.18	104.559	-6.52	28.60	353.31
A50501185746	SS10	4	F	68267.2	358.16	104.683	-6.52	28.53	353.27
A50501185749	SS10	4	R	68269.4	358.14	104.806	-6.52	28.47	353.24
A50501185751	SS10	4	F	68271.6	358.11	104.930	-6.51	28.40	353.21
A50501185755	SS10	4	F	68275.9	358.07	105.175	-6.51	28.26	353.14
A50501185757	SS10	4	R	68278.0	358.04	105.298	-6.51	28.19	353.11
A50501185759	SS10	4	F	68280.2	358.02	105.422	-6.51	28.11	353.08
A50501185802	SS10	4	R	68282.4	358.00	105.544	-6.51	28.05	353.04
A50501185804	SS10	4	F	68284.5	357.98	105.668	-6.51	27.98	353.00
A50501185806	SS10	4	R	68286.7	357.96	105.789	-6.51	27.91	352.97
A50501185808	SS10	4	F	68288.9	357.94	105.913	-6.51	27.83	352.94
A50501185810	SS10	4	R	68291.0	357.91	106.036	-6.50	27.76	352.90
A50501185812	SS10	4	F	68293.2	357.89	106.159	-6.50	27.69	352.87
A50501185814	SS10	4	R	68295.3	357.87	106.281	-6.50	27.62	352.84
A50501185817	SS10	4	F	68297.5	357.85	106.405	-6.50	27.55	352.81
A50501185819	SS10	4	R	68299.7	357.83	106.526	-6.50	27.48	352.77
A50501185821	SS10	4	F	68301.8	357.81	106.650	-6.49	27.41	352.74
A50501185823	SS10	4	R	68304.0	357.79	106.772	-6.49	27.34	352.70
A50501185825	SS10	4	F	68306.2	357.77	106.896	-6.49	27.27	352.67
A50501185830	SS10	4	F	68310.5	357.73	107.140	-6.49	27.13	352.60
A50501185832	SS10	4	R	68312.6	357.70	107.263	-6.49	27.06	352.57
A50501185836	SS10	4	R	68317.0	357.66	107.508	-6.48	26.92	352.51
A50501185838	SS10	4	F	68319.2	357.64	107.631	-6.48	26.84	352.47
A50501185840	SS10	4	R	68321.3	357.63	107.753	-6.48	26.77	352.44
A50501185843	SS10	4	F	68323.5	357.61	107.875	-6.48	26.70	352.41
A50501185845	SS10	4	R	68325.6	357.58	107.997	-6.47	26.63	352.37
A50501185847	SS10	4	F	68327.8	357.56	108.120	-6.47	26.56	352.33
A50501185851	SS10	4	F	68332.1	357.53	108.366	-6.47	26.41	352.27
A50501185856	SS10	4	F	68336.5	357.49	108.610	-6.47	26.27	352.20
A50501185858	SS10	4	R	68338.6	357.46	108.731	-6.46	26.20	352.17
A50501185900	SS10	4	F	68340.8	357.44	108.854	-6.46	26.12	352.14
A50501185904	SS10	4	F	68345.1	357.41	109.100	-6.46	25.98	352.06

ON LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501202815	SS11	3	F	73696.1	358.90	100.721	-6.52	30.44	331.36
A50501202817	SS11	3	R	73698.2	358.88	100.843	-6.52	30.38	331.32
A50501202819	SS11	3	F	73700.4	358.86	100.966	-6.52	30.31	331.28
A50501202822	SS11	3	R	73702.5	358.83	101.089	-6.52	30.24	331.25
A50501202824	SS11	3	F	73704.7	358.81	101.214	-6.52	30.17	331.22
A50501202826	SS11	3	R	73706.8	358.78	101.336	-6.52	30.10	331.19
A50501202828	SS11	3	F	73709.0	358.75	101.461	-6.52	30.03	331.15
A50501202832	SS11	3	F	73713.3	358.71	101.708	-6.52	29.90	331.09
A50501202835	SS11	3	R	73715.5	358.69	101.830	-6.52	29.84	331.05
A50501202837	SS11	3	F	73717.7	358.66	101.954	-6.52	29.77	331.02
A50501202839	SS11	3	R	73719.8	358.64	102.077	-6.52	29.70	330.98
A50501202845	SS11	3	F	73726.3	358.57	102.446	-6.52	29.49	330.89
A50501202848	SS11	3	R	73728.5	358.55	102.569	-6.52	29.43	330.85
A50501202850	SS11	3	F	73730.7	358.52	102.693	-6.52	29.36	330.82
A50501202852	SS11	3	R	73732.8	358.50	102.815	-6.52	29.29	330.78
A50501202854	SS11	3	F	73735.0	358.47	102.940	-6.52	29.21	330.75
A50501202856	SS11	3	R	73737.1	358.45	103.062	-6.52	29.15	330.71
A50501202858	SS11	3	F	73739.3	358.43	103.185	-6.52	29.08	330.68
A50501202901	SS11	3	R	73741.5	358.41	103.308	-6.52	29.02	330.65
A50501202903	SS11	3	F	73743.6	358.38	103.432	-6.52	28.95	330.61
A50501202905	SS11	3	R	73745.8	358.36	103.555	-6.51	28.87	330.58
A50501202907	SS11	3	F	73748.0	358.33	103.679	-6.51	28.80	330.54
A50501202909	SS11	3	R	73750.1	358.31	103.801	-6.51	28.73	330.51
A[illegible]501202911	SS11	3	F	73752.3	358.29	103.924	-6.51	28.66	330.48
A[illegible]501202913	SS11	3	R	73754.4	358.27	104.047	-6.51	28.60	330.44
A50501202916	SS11	3	R	73756.6	358.24	104.170	-6.51	28.53	330.41
A50501202918	SS11	3	R	73758.8	358.22	104.293	-6.51	28.46	330.38
A50501202920	SS11	3	F	73761.0	358.20	104.417	-6.51	28.39	330.35
A50501202922	SS11	3	R	73763.1	358.18	104.538	-6.51	28.32	330.31
A50501202924	SS11	3	F	73765.3	358.16	104.662	-6.51	28.25	330.28
A50501202926	SS11	3	R	73767.4	358.14	104.784	-6.51	28.18	330.25
A50501202929	SS11	3	F	73769.6	358.11	104.908	-6.50	28.11	330.21
A50501202931	SS11	3	R	73771.8	358.09	105.031	-6.50	28.04	330.17
A50501202933	SS11	3	F	73773.9	358.07	105.155	-6.50	27.97	330.14
A50501202935	SS11	3	R	73776.1	358.05	105.275	-6.50	27.90	330.11
A50501202937	SS11	3	F	73778.3	358.03	105.399	-6.50	27.83	330.08
A50501202939	SS11	3	R	73780.4	358.01	105.520	-6.50	27.76	330.04
A50501202942	SS11	3	F	73782.6	357.98	105.644	-6.50	27.69	330.00
A50501202944	SS11	3	R	73784.7	357.96	105.767	-6.50	27.62	329.97
A50501202946	SS11	3	F	73786.9	357.94	105.890	-6.50	27.55	329.94
A50501202948	SS11	3	R	73789.0	357.92	106.012	-6.49	27.48	329.90
A50501202950	SS11	3	F	73791.2	357.90	106.136	-6.49	27.41	329.87
A50501202952	SS11	3	R	73793.4	357.88	106.257	-6.49	27.34	329.84
A50501202955	SS11	3	F	73795.6	357.85	106.381	-6.49	27.26	329.81
A50501202957	SS11	3	R	73797.7	357.83	106.504	-6.49	27.19	329.77
A50501202959	SS11	3	F	73799.9	357.81	106.627	-6.49	27.13	329.74
A50501203001	SS11	3	R	73802.0	357.79	106.748	-6.49	27.05	329.70
A50501203003	SS11	3	F	73804.2	357.77	106.872	-6.49	26.98	329.67
A[illegible]501203005	SS11	3	R	73806.4	357.75	106.994	-6.48	26.91	329.64
A50501203008	SS11	3	F	73808.5	357.73	107.117	-6.48	26.83	329.60
A50501203010	SS11	3	R	73810.7	357.71	107.238	-6.48	26.76	329.57
A50501203012	SS11	3	F	73812.9	357.69	107.360	-6.48	26.70	329.54
A50501203014	SS11	3	R	73815.0	357.67	107.481	-6.48	26.63	329.50

A[illegible]501203016	SS11	3	F	73817.2	357.65	107.605	-6.47	26.55	329.47
A[illegible]501203018	SS11	3	R	73819.4	357.63	107.727	-6.47	26.48	329.44
A50501203021	SS11	3	F	73821.5	357.61	107.849	-6.47	26.41	329.40
A50501203023	SS11	3	R	73823.7	357.59	107.971	-6.46	26.34	329.37
A50501203025	SS11	3	F	73825.8	357.57	108.093	-6.46	26.27	329.33
A50501203027	SS11	3	R	73828.0	357.55	108.215	-6.46	26.19	329.30
A50501203029	SS11	3	F	73830.2	357.53	108.339	-6.46	26.12	329.27
A50501203031	SS11	3	R	73832.3	357.51	108.460	-6.46	26.05	329.23
A50501203034	SS11	3	F	73834.5	357.49	108.584	-6.46	25.98	329.20
A50501203036	SS11	3	R	73836.7	357.47	108.704	-6.45	25.90	329.17
A50501203038	SS11	3	F	73838.8	357.45	108.827	-6.45	25.83	329.14
A50501203040	SS11	3	R	73841.0	357.44	108.947	-6.45	25.76	329.10
A50501203042	SS11	3	F	73843.2	357.42	109.070	-6.45	25.68	329.06
A50501203044	SS11	3	R	73845.3	357.40	109.192	-6.45	25.61	329.03

RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501220001	SS12	2	F	79202.4	358.85	101.178	-6.51	29.91	308.23
A50501220017	SS12	2	R	79217.6	358.68	102.041	-6.51	29.43	307.99
A50501220019	SS12	2	F	79219.8	358.66	102.165	-6.51	29.36	307.95
A50501220021	SS12	2	R	79221.9	358.64	102.288	-6.51	29.29	307.92
A50501220023	SS12	2	F	79224.1	358.62	102.411	-6.51	29.22	307.89
A50501220025	SS12	2	R	79226.2	358.59	102.534	-6.51	29.16	307.86
A50501220027	SS12	2	F	79228.4	358.57	102.658	-6.51	29.09	307.82
A50501220030	SS12	2	R	79230.5	358.54	102.780	-6.51	29.02	307.79
A50501220032	SS12	2	F	79232.7	358.52	102.904	-6.51	28.95	307.75
A50501220034	SS12	2	R	79234.9	358.50	103.027	-6.51	28.88	307.72
A50501220036	SS12	2	F	79237.1	358.47	103.151	-6.51	28.81	307.68
A50501220038	SS12	2	R	79239.2	358.45	103.273	-6.51	28.74	307.65
A50501220040	SS12	2	F	79241.4	358.43	103.396	-6.51	28.67	307.62
A50501220043	SS12	2	R	79243.5	358.40	103.518	-6.50	28.60	307.59
A50501220045	SS12	2	F	79245.7	358.38	103.642	-6.50	28.53	307.55
A50501220047	SS12	2	R	79247.9	358.36	103.764	-6.50	28.46	307.52
A50501220049	SS12	2	F	79250.1	358.34	103.889	-6.50	28.39	307.48
A50501220051	SS12	2	R	79252.2	358.32	104.009	-6.50	28.32	307.45
A50501220053	SS12	2	F	79254.4	358.30	104.133	-6.50	28.25	307.41
A50501220056	SS12	2	R	79256.5	358.27	104.256	-6.50	28.19	307.38
A50501220058	SS12	2	F	79258.7	358.25	104.380	-6.50	28.12	307.35
A50501220100	SS12	2	R	79260.9	358.23	104.501	-6.50	28.04	307.31
A50501220102	SS12	2	F	79263.1	358.21	104.625	-6.50	27.97	307.28
A50501220104	SS12	2	R	79265.2	358.19	104.746	-6.50	27.90	307.24
A50501220106	SS12	2	F	79267.4	358.17	104.870	-6.49	27.83	307.21
A50501220109	SS12	2	R	79269.5	358.14	104.991	-6.49	27.76	307.18
A50501220111	SS12	2	F	79271.7	358.12	105.115	-6.49	27.69	307.14
A50501220113	SS12	2	R	79273.9	358.10	105.238	-6.49	27.62	307.11
A50501220115	SS12	2	F	79276.1	358.08	105.362	-6.49	27.55	307.08
A50501220117	SS12	2	R	79278.2	358.06	105.482	-6.49	27.48	307.05
A50501220119	SS12	2	F	79280.4	358.04	105.605	-6.49	27.41	307.01
A50501220122	SS12	2	R	79282.5	358.01	105.727	-6.49	27.34	306.98
A50501220124	SS12	2	F	79284.7	357.99	105.851	-6.49	27.27	306.94
A50501220126	SS12	2	R	79286.9	357.97	105.973	-6.48	27.20	306.91
A50501220128	SS12	2	F	79289.1	357.95	106.097	-6.48	27.12	306.87
A50501220130	SS12	2	R	79291.2	357.93	106.217	-6.48	27.05	306.84
A50501220132	SS12	2	F	79293.4	357.91	106.341	-6.48	26.98	306.81
A50501220135	SS12	2	R	79295.5	357.89	106.462	-6.48	26.91	306.77
A50501220137	SS12	2	F	79297.7	357.87	106.586	-6.48	26.84	306.74
A50501220139	SS12	2	R	79299.9	357.85	106.708	-6.48	26.76	306.70
A50501220141	SS12	2	F	79302.0	357.83	106.831	-6.48	26.70	306.67
A50501220143	SS12	2	R	79304.2	357.81	106.952	-6.47	26.63	306.64
A50501220145	SS12	2	F	79306.4	357.79	107.075	-6.47	26.56	306.60
A50501220148	SS12	2	R	79308.5	357.76	107.197	-6.47	26.48	306.57
A50501220150	SS12	2	F	79310.7	357.74	107.321	-6.47	26.40	306.54
A50501220152	SS12	2	R	79312.9	357.72	107.442	-6.47	26.33	306.51
A50501220154	SS12	2	F	79315.0	357.70	107.565	-6.46	26.26	306.47
A50501220156	SS12	2	R	79317.2	357.69	107.685	-6.46	26.19	306.44
A50501220158	SS12	2	F	79319.4	357.67	107.808	-6.46	26.11	306.41
A50501220201	SS12	2	R	79321.5	357.64	107.930	-6.46	26.04	306.37
A50501220203	SS12	2	F	79323.7	357.62	108.053	-6.46	25.97	306.33
A50501220205	SS12	2	R	79325.9	357.60	108.174	-6.46	25.90	306.30
A50501220207	SS12	2	F	79328.0	357.59	108.297	-6.45	25.83	306.27

A[illegible]501220209	SS12	2	R	79330.2	357.57	108.418	-6.45	25.75	306.24
A[illegible]501220211	SS12	2	F	79332.4	357.55	108.541	-6.45	25.68	306.20
A50501220214	SS12	2	R	79334.5	357.53	108.662	-6.44	25.61	306.16
A50501220216	SS12	2	F	79336.7	357.51	108.785	-6.44	25.53	306.13
A50501220218	SS12	2	R	79338.9	357.50	108.906	-6.44	25.46	306.10
A50501220220	SS12	2	F	79341.0	357.48	109.028	-6.44	25.38	306.06
A50501220222	SS12	2	R	79343.2	357.46	109.149	-6.44	25.31	306.03
A50501220224	SS12	2	F	79345.4	357.44	109.272	-6.43	25.24	306.00

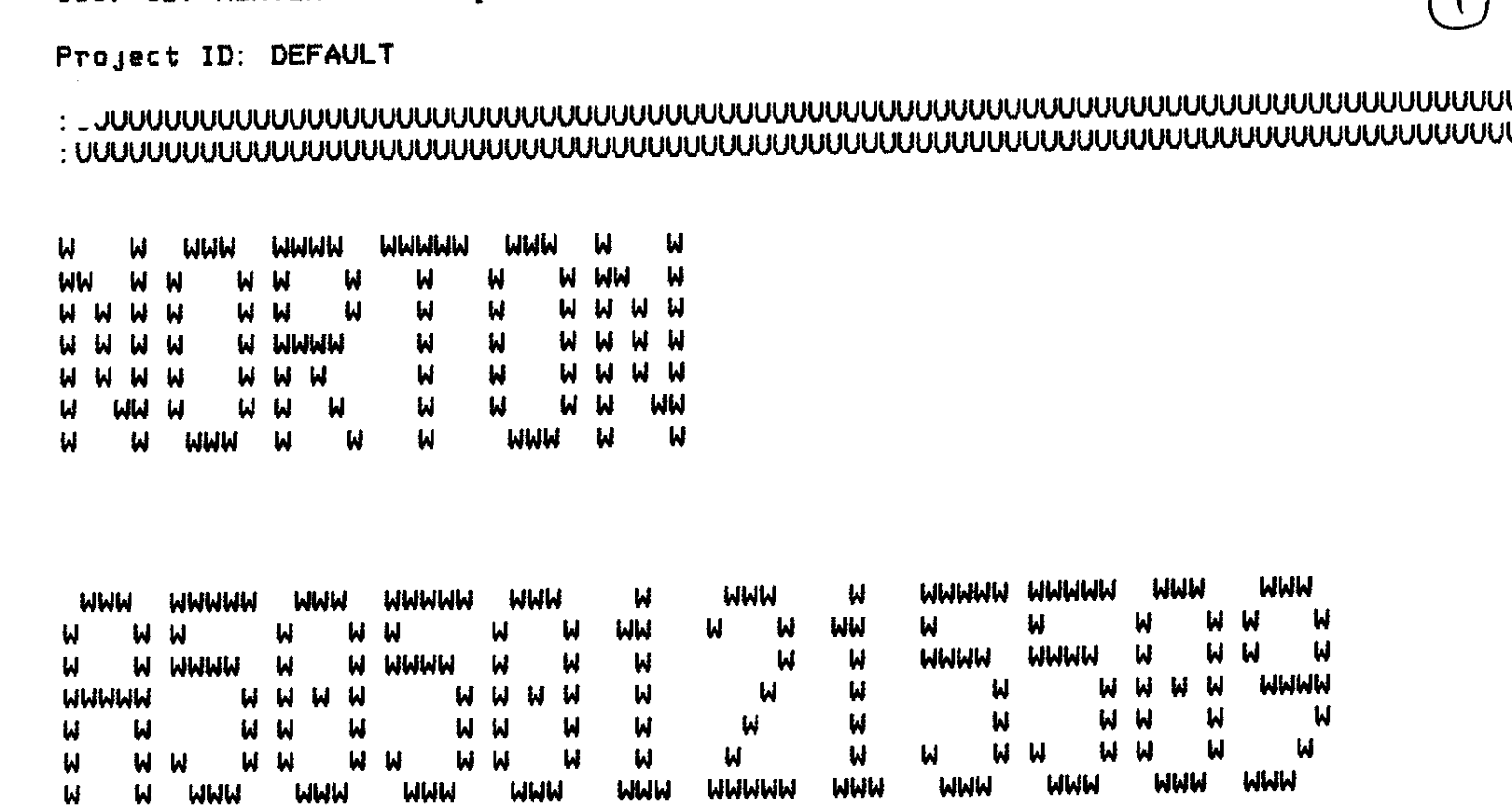
RUN LABEL	OCC	FILTER	SCAN TYPE	GMT AT ZPD	OBSERV ALT	ZENITH ANGLE	VELOCITY	TANGENT LATITUDE	TANGENT LONGITUDE
A50501233132	SS13	3	F	84693.1	358.94	100.740	-6.50	29.87	285.34
A50501233134	SS13	3	R	84695.2	358.92	100.862	-6.50	29.80	285.31
A50501233136	SS13	3	F	84697.4	358.89	100.986	-6.50	29.73	285.28
A50501233139	SS13	3	R	84699.6	358.87	101.108	-6.50	29.66	285.24
A50501233141	SS13	3	F	84701.8	358.84	101.233	-6.50	29.60	285.20
A50501233143	SS13	3	R	84703.9	358.82	101.354	-6.50	29.53	285.17
A50501233145	SS13	3	F	84706.1	358.80	101.478	-6.50	29.45	285.14
A50501233147	SS13	3	R	84708.2	358.78	101.600	-6.50	29.38	285.11
A50501233149	SS13	3	F	84710.4	358.76	101.723	-6.50	29.32	285.07
A50501233152	SS13	3	R	84712.5	358.73	101.846	-6.50	29.25	285.04
A50501233154	SS13	3	F	84714.7	358.71	101.970	-6.50	29.19	285.01
A50501233156	SS13	3	R	84716.9	358.69	102.092	-6.50	29.11	284.97
A50501233158	SS13	3	F	84719.0	358.66	102.215	-6.50	29.04	284.94
A50501233200	SS13	3	R	84721.2	358.64	102.337	-6.50	28.97	284.90
A50501233202	SS13	3	F	84723.4	358.62	102.461	-6.50	28.90	284.87
A50501233205	SS13	3	R	84725.5	358.59	102.582	-6.50	28.83	284.84
A50501233207	SS13	3	F	84727.7	358.57	102.707	-6.50	28.77	284.80
A50501233209	SS13	3	R	84729.9	358.54	102.828	-6.50	28.70	284.77
A50501233211	SS13	3	F	84732.0	358.52	102.952	-6.50	28.63	284.73
A50501233213	SS13	3	R	84734.2	358.50	103.074	-6.50	28.56	284.70
A50501233215	SS13	3	F	84736.4	358.48	103.198	-6.50	28.49	284.66
A50501233218	SS13	3	R	84738.5	358.45	103.320	-6.50	28.42	284.63
A50501233220	SS13	3	F	84740.7	358.43	103.444	-6.50	28.35	284.60
A50501233222	SS13	3	R	84742.9	358.41	103.565	-6.49	28.28	284.57
A50501233224	SS13	3	F	84745.0	358.39	103.688	-6.49	28.21	284.53
A50501233226	SS13	3	R	84747.2	358.37	103.810	-6.49	28.14	284.50
A50501233228	SS13	3	F	84749.4	358.35	103.934	-6.49	28.07	284.46
A50501233231	SS13	3	R	84751.5	358.32	104.056	-6.49	28.00	284.43
A50501233233	SS13	3	F	84753.7	358.30	104.180	-6.49	27.93	284.39
A50501233235	SS13	3	R	84755.8	358.28	104.300	-6.49	27.86	284.36
A50501233237	SS13	3	F	84758.0	358.26	104.424	-6.49	27.79	284.33
A50501233239	SS13	3	R	84760.2	358.24	104.546	-6.49	27.72	284.30
A50501233241	SS13	3	F	84762.4	358.22	104.669	-6.49	27.65	284.26
A50501233244	SS13	3	R	84764.5	358.19	104.792	-6.49	27.58	284.23
A50501233246	SS13	3	F	84766.7	358.17	104.915	-6.48	27.50	284.19
A50501233248	SS13	3	R	84768.8	358.15	105.036	-6.48	27.43	284.16
A50501233250	SS13	3	F	84771.0	358.13	105.159	-6.48	27.36	284.12
A50501233252	SS13	3	R	84773.2	358.11	105.280	-6.48	27.30	284.09
A50501233254	SS13	3	F	84775.3	358.09	105.404	-6.48	27.23	284.06
A50501233257	SS13	3	R	84777.5	358.06	105.526	-6.48	27.15	284.03
A50501233259	SS13	3	F	84779.7	358.04	105.649	-6.48	27.08	283.99
A50501233301	SS13	3	R	84781.8	358.02	105.769	-6.48	27.01	283.96
A50501233303	SS13	3	F	84784.0	358.01	105.892	-6.47	26.94	283.92
A50501233305	SS13	3	R	84786.2	357.99	106.014	-6.47	26.86	283.89
A50501233307	SS13	3	F	84788.3	357.97	106.137	-6.47	26.79	283.85
A50501233310	SS13	3	R	84790.5	357.94	106.259	-6.47	26.72	283.82
A50501233312	SS13	3	F	84792.7	357.92	106.382	-6.47	26.65	283.79
A50501233314	SS13	3	R	84794.8	357.91	106.502	-6.47	26.58	283.76
A50501233316	SS13	3	F	84797.0	357.89	106.626	-6.47	26.50	283.72
A50501233318	SS13	3	R	84799.2	357.87	106.747	-6.47	26.43	283.69
A50501233320	SS13	3	F	84801.3	357.85	106.871	-6.46	26.36	283.65
A50501233323	SS13	3	R	84803.5	357.83	106.992	-6.46	26.29	283.62
A50501233325	SS13	3	F	84805.7	357.81	107.114	-6.46	26.21	283.59

A[illegible]01233327	SS13	3	R	84807.8	357.79	107.235	-6.46	26.14	283.55
A50501233329	SS13	3	F	84810.0	357.77	107.358	-6.46	26.07	283.52
A50501233331	SS13	3	R	84812.1	357.75	107.479	-6.46	26.00	283.49
A50501233333	SS13	3	F	84814.3	357.73	107.602	-6.45	25.93	283.46
A50501233336	SS13	3	R	84816.5	357.71	107.723	-6.45	25.85	283.42
A50501233338	SS13	3	F	84818.7	357.69	107.845	-6.45	25.78	283.39
A50501233340	SS13	3	R	84820.8	357.67	107.965	-6.45	25.71	283.35
A50501233342	SS13	3	F	84823.0	357.65	108.088	-6.45	25.64	283.32
A50501233344	SS13	3	R	84825.1	357.63	108.210	-6.44	25.56	283.28
A50501233346	SS13	3	F	84827.3	357.62	108.333	-6.44	25.48	283.25
A50501233349	SS13	3	R	84829.5	357.60	108.454	-6.44	25.41	283.22
A50501233351	SS13	3	F	84831.6	357.58	108.575	-6.43	25.34	283.19
A50501233353	SS13	3	R	84833.8	357.56	108.696	-6.43	25.27	283.15
A50501233355	SS13	3	F	84836.0	357.54	108.818	-6.43	25.19	283.12
A50501233357	SS13	3	R	84838.1	357.52	108.940	-6.43	25.12	283.08

User ID: NORTON Request 99

(1)

Project ID: DEFAULT



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Using Despooler Environment: PRO
Print Request Attributes:
Spool options: -NPH
Total size: 41 records

Pathname: <FDATA>ATLAS>A50501215509
File last modified: 89-11-08.16:11:20.Wed

Spooled: 89-11-08.16:20:40.Wed
Started: 89-11-08.16:20:40.Wed

RUN LABEL: A50501215509
TITLE: SUN2 2-SIDED UNRATIO'D SPECTRUM
SOURCE OBSERVED: SUN
WHERE OBSERVED: SL3
NUMBER OF SPECTRAL POINTS: 509952
FREQUENCY OF FIRST POINT: 2638.142706 CM-1 (IN AIR)
FREQUENCY OF LAST POINT: 5199.141714 CM-1 (IN AIR)
SPACING: 0.00502204919 CM-1 (IN AIR)
RESOLUTION: 0.0105320005 CM-1 (AIR)
PATH DIFFERENCE: 47.47436 CM (750000 FRINGES)
FOV: 0.00270 RADIANS AT THE BEAM SPLITTER
FILTER: 4
SCAN TYPE: R
SPECTRAL MAXIMUM: 0.27696
ZPD GMT: 78910.2 SEC
OBSERVATIONAL ALTITUDE: 362.33 KM
ZENITH ANGLE: 84.472
VELOCITY: -6.12
LATITUDE: 38.78
LONGITUDE: 313.06

THERE ARE 16 SPECTRAL POINTS PER LINE, AND 5 DIGITS PER POINT. IN FORTRAN YOU MAY READ THE LINE WITH A FORMAT(16I5) STATEMENT. TO NORMALIZE THE SPECTRAL POINTS TO THE ARBITRARY UNITS THAT THEY HAD JUST AFTER THE FFT, MULTIPLY EACH POINT BY THE EXPRESSION (SPECTRAL MAXIMUM)/30,000. THE LAST RECORD HAS BEEN PADDED WITH ZEROS TO MAKE IT THE SAME LENGTH AS ALL OTHER RECORDS.

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                                  WHERE OBSERVED: SL3
                    NUMBER OF SPECTRAL POINTS:  509952
    FREQUENCY OF FIRST POINT:  2638.142706 CM-1 (IN AIR)                          FREQUENCY OF  L
AST POINT:  5199.141714 CM-1 (IN AIR)                  SPACING:  0.00502204919 CM-1 (IN
AIR)                                  RESOLUTION:  0.0105320005 CM-1 (AIR)
                        PATH DIFFERENCE:  47.47436 CM  ( 750000 FRINGES)
        FOV:  0.00270 RADIANS AT THE BEAM SPLITTER                                FILTER: 4
                                                          SCAN TYPE: R
                                          SPECTRAL MAXIMUM:  0.27696
                          ZPD GMT:   78910.2 SEC
            OBSERVATIONAL ALTITUDE: 362.33 KM                                     ZENITH
ANGLE:  84.472                                                  VELOCITY: -6.12
                                                LATITUDE: 38.78
                              LONGITUDE:313.06
                                                                                      THE
RE ARE 16 SPECTRAL POINTS PER LINE, AND 5 DIGITS PER POINT.  IN FORTRAN YOU  MAY READ THE LINE WITH
 A FORMAT(16I5) STATEMENT.  TO NORMALIZE THE SPECTRAL     POINTS TO THE ARBITRARY UNITS THAT THEY H
AD JUST AFTER THE FFT, MULTIPLY EACH   POINT BY THE EXPRESSION (SPECTRAL MAXIMUM)/30,000.  THE LAST
 RECORD HAS BEEN    PADDED WITH ZEROS TO MAKE IT THE SAME LENGTH AS ALL OTHER RECORDS.
```

STS-51B
Raw Solar IR Spectral Data Tape
85-034A-14E
D79777 C27485
05/01/85
55F

***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE: AS SR=1=1 1 1 55

TAPE NO. 1 FILE NO. 55
RECORD 1 LENGTH 10000
RUN LABEL: A5(5(1215752
D UNRATIC'D SPECTRUM TITLE: SUN2 2-SIDE
SOURCE OBSERVED: SUN
WHERE OBSERVED: SL3
NUMBER OF SPECTRAL POINTS: 509952
FREQUENCY OF FIRST POINT: 2638.142706 CM-1 (IN AIR) FREQUENCY OF L
AST POINT: 5199.141714 CM-1 (IN AIR) SPACING: 0.005220491S CM-1 (IN
AIR)
RESOLUTION: 0.010532000S CM-1 (AIR)
PATH DIFFERENCE: 47.47436 CM (750000 FRINGES)
FOV: 0.027 RADIANS AT THE BEAM SPLITTER FILTER: 4
SCAN TYPE: F
SPECTRAL MAXIMUM: 0.27847
ZPD GMT: 79072.5 SEC
OBSERVATIONAL ALTITUDE: 360.36 KM
ANGLE: 53.773 ZENITH
VELOCITY: -6.42

LATITUDE: 33.90

LONGITUDE:310.29

RE ARE 16 SPECTRAL POINTS PER LINE, AND 5 DIGITS PER POINT. IN FORTRAN YOU MAY READ THE LINE WITH THE A FORMAT(16I5) STATEMENT. TO NORMALIZE THE SPECTRAL POINTS TO THE ARBITRARY UNITS THAT THEY H AD JUST AFTER THE FFT, MULTIPLY EACH POINT BY THE EXPRESSION (SPECTRAL MAXIMUM)/30,000. THE LAST RECORD HAS BEEN PADDED WITH ZEROS TO MAKE IT THE SAME LENGTH AS ALL OTHER RECORDS.

```
$NOP
$NCP
$NCP
$NOP *************** SCUT51 **************
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 1

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   1[illegible]000
RUN LABEL:  A50429231753                                          TITLE:  SR01 2-SIDE
D UNRATIO'D SPECTRUM                                  SOURCE OBSERVED:  SUN
                                        WHERE OBSERVED: SL3
                      NUMBER OF SPECTRAL POINTS:  325632
    FREQUENCY OF FIRST POINT:  1342.212956 CM-1 (IN AIR)                  FREQUENCY OF  L
AST POINT:  3795.215307 CM-1 (IN AIR)                  SPACING:   0.00753307379 CM-1 (IN
AIR)                                  RESOLUTION:   0.0105320005 CM-1 (AIR)
                          PATH DIFFERENCE:   47.47436 CM  ( 750000 FRINGES)
        FOV:  0.00270 RADIANS AT THE BEAM SPLITTER                          FILTER: 3
                                                          SCAN TYPE: R
                                          SPECTRAL MAXIMUM:  0.45639
                                ZPD GMT:   83873.5 SEC
            OBSERVATIONAL ALTITUDE: 364.36 KM                                  ZENITH
ANGLE: 105.457                                                  VELOCITY:  6.05
                                                  LATITUDE:-48.50
                                  LONGITUDE:116.97
                                                                                  THE
RE ARE 16 SPECTRAL POINTS PER LINE, AND 5 DIGITS PER POINT.  IN FORTRAN YOU  MAY READ THE LINE WITH
 A FORMAT(16I5) STATEMENT.  TO NORMALIZE THE SPECTRAL     POINTS TO THE ARBITRARY UNITS THAT THEY H
AD JUST AFTER THE FFT, MULTIPLY EACH   POINT BY THE EXPRESSION (SPECTRAL MAXIMUM)/30,000.  THE LAST
 RECORD HAS BEEN    PADDED WITH ZEROS TO MAKE IT THE SAME LENGTH AS ALL OTHER RECORDS.
```

STS-51B
IR Spectra Data
85-034A-14B
D79778 C27463
04/29/85
18F

***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE: AS SR=1=1 1 1 18

TAPE NO. 1 FILE NO. 18
RECORD 1 LENGTH 10000
RUN LABEL: A5(429231849 TITLE: SR01 2-SIDE
D URATIC'C SPECTRUM SOURCE OBSERVED: SUN
WHERE OBSERVED: SL3
NUMBER OF SPECTRAL POINTS: 325632
FREQUENCY OF FIRST POINT: 1342.212966 CM-1 (IN AIR) FREQUENCY OF L
AST POINT: 3795.215307 CM-1 (IN AIR) SPACING: 0.(((753(7375 CM-1 (IN
AIR)
RESOLUTION: 0.0105320005 CM-1 (AIR)
PATH DIFFERENCE: 47.47436 CM (750000 FRINGES)
FOV: C.CC27C RADIANS AT THE BEAM SPLITTER FILTER: 3
SCAN TYPE: R
SPECTRAL MAXIMUM: 0.45423
ZPD GMT: 83929.4 SEC

OBSERVATIONAL ALTITUDE: 363.67 KM ZENITH
ANGLE: 102.056 VELOCITY: 6.24
LATITUDE:-47.11
LONGITUDE:115.89

THERE ARE 16 SPECTRAL POINTS PER LINE, AND 5 DIGITS PER POINT. IN FORTRAN YOU MAY READ THE LINE WITH A FORMAT(16I5) STATEMENT. TO NORMALIZE THE SPECTRAL POINTS TO THE ARBITRARY UNITS THAT THEY HAD JUST AFTER THE FFT, MULTIPLY EACH POINT BY THE EXPRESSION (SPECTRAL MAXIMUM)/30,000. THE LAST RECORD HAS BEEN PADDED WITH ZEROS TO MAKE IT THE SAME LENGTH AS ALL OTHER RECORDS.