NIMS GUIDE TO THE C22 ORBIT

Original: August 1999

Revised: May 2000

C22 Encounter starts 08/12/99, **C22 Playback starts 08/13/99**

VERSION DATE: 000501

Foreword to the Revised Edition

This document was originally published by the NIMS team as a preview to data acquisition for one orbit. It has has been revised and corrected after data receipt and systematic processing for inclusion on the CD-ROMs containing NIMS Experimental Data Records (EDRs) and Systematic Data Products (Cubes). It is also available on the NIMS website in both PostScript (PS) and Portable Document Format (PDF) form. Some material in the original document has been omitted, and a chapter added describing the data actually returned.

The aim of this guide is to provide detailed information on the various NIMS observations and calibrations. Also included in this document is background information on the orbit. A brief overview of the guide is given below. Please refer to the beginning of each chapter for a detailed list of contents.

Chapter 1 gives a brief introduction to the orbit. Chapter 2 gives an overview and summarizes the NIMS science objectives using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry. Chapter 4 summarizes the NIMS observations in terms of a comprehensive sequence summary and a NIMS Observation Table (Obstab). Chapter 5 is a collection of the Detailed Observation Designs made up of OAPEL forms and POINTER plots. Chapter 6 contains plots of the NIMS wavelength edit tables used. Chapter 7 summarizes the NIMS data return from the orbit.

For more information, please refer to the Galileo Orbit Planning Guide (OPG) and the Galileo Orbit Activity Plan (OAP) for this orbit. Both of these documents are produced by the Galileo Project.

For more information on the NIMS instrument, please refer to the NIMS instrument paper: R.W. Carlson, P.R. Weissman, W.D. Smythe, J.C. Mahoney and the NIMS Science and Engineering Teams, "Near-infrared Mapping Spectrometer Experiment on Galileo", Space Science Reviews, Vol 60, pp 457-502, 1992.

Acknowledgements

The NIMS observations in this guide were designed by the NIMS Science Coordinators: Kevin Baines, John Hui, Rosaly Lopes-Gautier, Adriana Ocampo and Marcia Segura. Materials were also provided by Elias Barbinis, Paul Herrera, Bob Mehlman, Jim Shirley, Al Stevenson and Bill Smythe. Some figures and plots produced by various members of the Galileo Project were incorporated into this guide. Frank Leader provided some materials and edited the guide under the direction of Bob Mehlman and Bill Smythe.

Foreword

This document serves as a guide to the C22 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS C22 observations and calibrations. Also included in this document is background information on the C22 orbit. This guide was produced before the start of the C22 orbit. After analysis of the NIMS C22 data is complete, it will be revised and corrected. A brief overview of the guide is given below. Please refer to the beginning of each chapter for a detailed list of contents.

Chapter 1 gives a brief introduction to the C22 orbit. Chapter 2 gives an overview of the C22 orbit and summarizes the NIMS science objectives for the C22 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the C22 orbit. Chapter 4 summarizes the NIMS C22 observations in terms of a comprehensive sequence summary and a NIMS Observation Table (Obstab). Chapter 5 is a collection of the Detailed Observation Designs made up of OAPEL forms and POINTER plots. Chapter 6 contains plots of the NIMS wavelength edit tables used during the C22 orbit.

For more information on the C22 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the C22 Orbit. Both of these documents are produced by the Galileo Project.

For more information on the NIMS instrument, please refer to the NIMS instrument paper: R.W. Carlson, P.R. Weissman, W.D. Smythe, J.C. Mahoney and the NIMS Science and Engineering Teams, "Near-infrared Mapping Spectrometer Experiment on Galileo", Space Science Reviews, Vol 60, pp 457-502, 1992.

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Chapter 1 - Introduction

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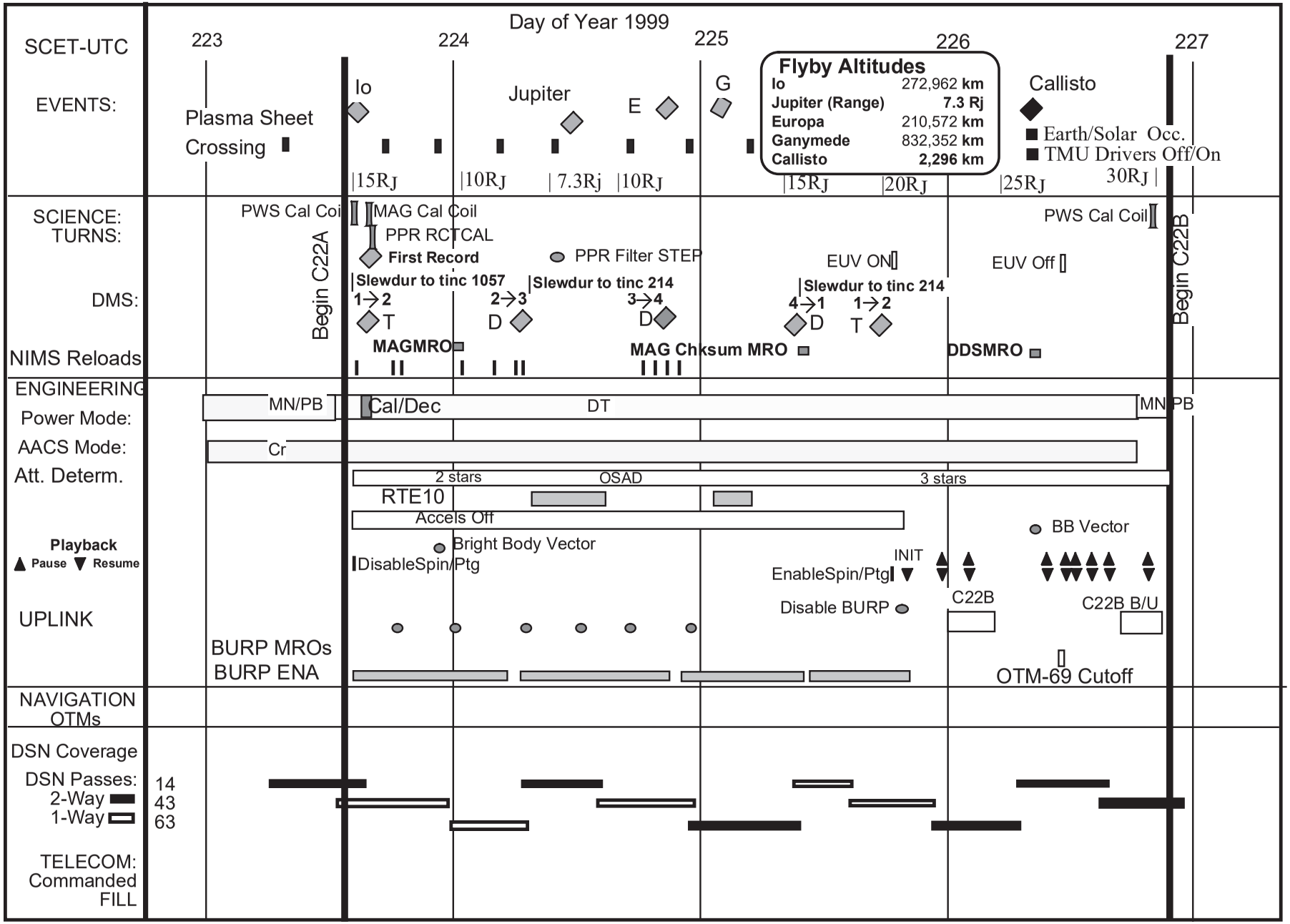
Introduction

This C22 orbit is the twenty-second of twenty-five orbits in Galileo's Tour of the Jovian system and the eleventh orbit in the Galileo Europa Mission (GEM). C22 continues the perijove reduction part of the GEM. This orbit has a targetted satellite flyby of Callisto. NIMS will make observations of Jupiter, Europa and Io in this orbit.

There are 12 autonomous reloads of the NIMS RAM code from CDS planned during the C22A encounter period, one just before each science observation. These reloads are in response to the on-going flight-anomalies where the NIMS RAM code takes some bit hits and halts the instrument during when the spacecraft is close to Jupiter. NIMS personnel will monitior the NIMS engineering telemetry data on a regular schedule to track the instrument's status.

The C22 orbit is divided into 2 sequence loads: one Encounter Load (C22A) and one Orbital Cruise Load (C22B). The C22A load begins on D223 (08/11/99) and ends on D226 (08/14/99). This load contains the flybys of Jupiter and Callisto. The Cruise Load C22B runs from D226 to D256. Playback of the recorded data takes place during the Cruise phase, C22B. A high-level overview timeline of the C22 orbit can be found on the following two pages.

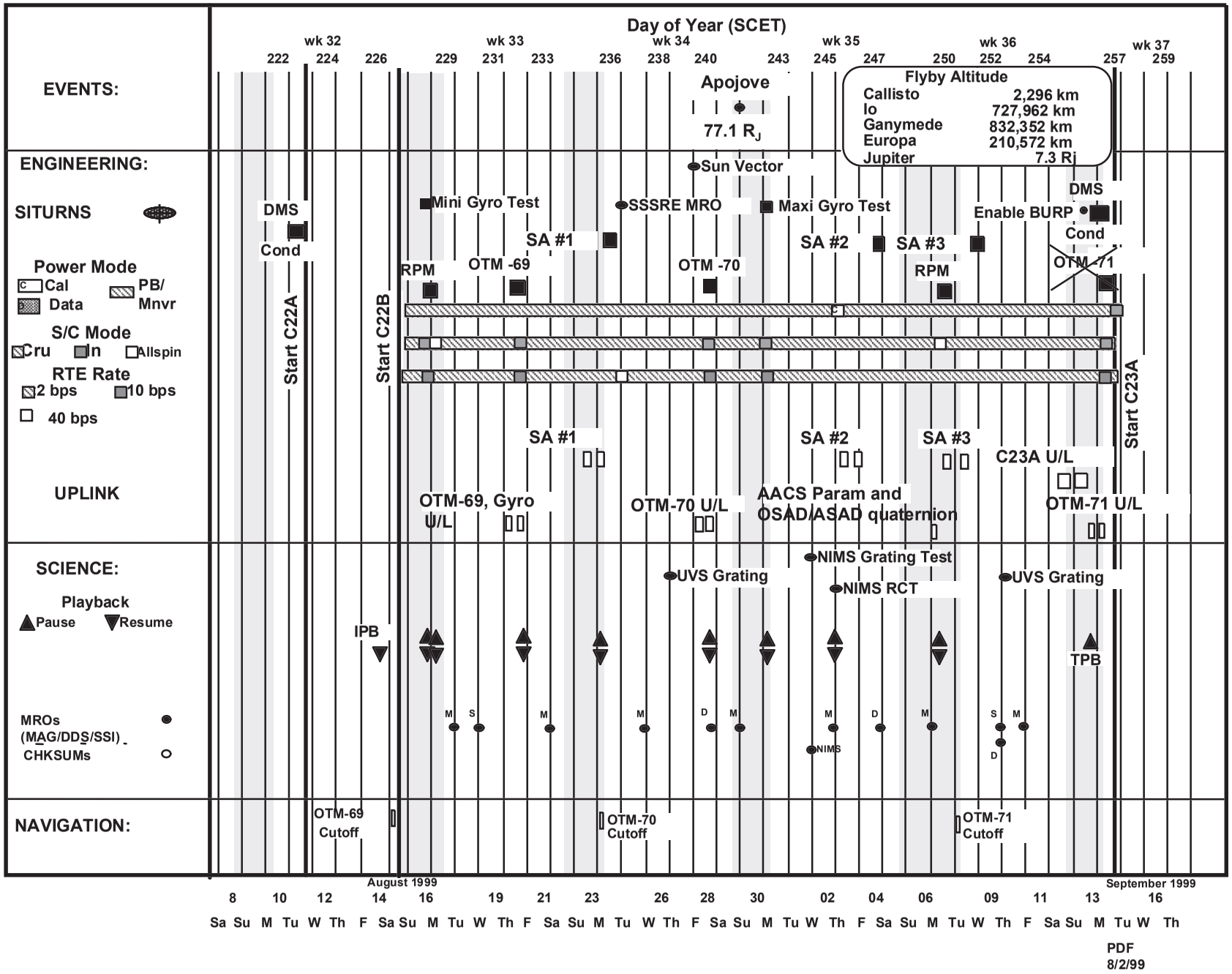
C22A Sequence Overview



P. Fieseler
7/02/99

1-03

C-22B Overview



Introduction

The following table lists the major events during C22, including NIMS Real Time observations, in UTC.

08/11/99	99-223/14:00:00	C22 Encounter Start
08/11/99	99-223/14:46:39	NIMS RAM Reload 01
08/11/99	99-223/14:52:32	NIMS R/T Jupiter 01
08/11/99	99-223/19:16:37	NIMS RAM Reload 02
08/11/99	99-223/19:25:32	NIMS R/T Jupiter 02
08/12/99	99-224/00:48:19	NIMS RAM Reload 03
08/12/99	99-224/04:36:18	NIMS RAM Reload 04
08/12/99	99-224/04:56:02	NIMS RAM Reload 05
08/12/99	99-224/06:40:11	NIMS RAM Reload 06
08/12/99	99-224/11:08:32	PJ-22 Jupiter Closest Approach
08/12/99	99-224/18:06:36	NIMS RAM Reload 07
08/12/99	99-224/19:41:43	NIMS RAM Reload 08
08/12/99	99-224/20:02:53	NIMS RAM Reload 09
08/12/99	99-224/20:37:15	NIMS RAM Reload 10
08/12/99	99-224/21:07:35	NIMS RAM Reload 11
08/13/99	99-225/14:59:22	NIMS RAM Reload 12
08/14/99	99-226/08:39:35	C22 Calisto Closest Approach
08/14/99	99-226/22:00:00	Start C22 Playback
09/03/99	99-245/11:34:44	NIMS R/T RCT CAL
09/13/99	99-255/19:54:08	End C22 Playback

Chapter 2 - Orbit Overview

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Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the C22 Orbit.

The text on page 3 summarizes the NIMS science objectives for C22. The NIMS calibrations are discussed on page 3. Early data return and C22 playback are also discussed on page 3.

The table on page 4 is a time-ordered listing of the NIMS Oapels for C22.

The plot on page 5 shows the geometry of the NIMS C22 observations using a north trajectory pole view projection. The plot on page 6 shows the geometry of the NIMS C22 calibrations.

The spreadsheet on page 7 summarizes the various inputs for the NIMS C22 Observations. The spreadsheet on pages 8 and 9 summarizes the resource usage for the NIMS C22 observations.

The table on page 10 lists various NIMS C22 observing parameters: target latitude/longitude, range, cone angle, incidence angle light), emission angle view) and phase angle.

The timeline on pages 11 through 14 show the placement of the C22 observations for all intruments during the C22 Encounter Period.

The tapemap on page 15 shows the placement of the C22 observations on the spacecraft's tape recorder.

The timeline on pages 16 through 20 shows the preliminary C22 playback schedule.

The NIMS C22 mosaic designs are summarized on pages 21 and 22 in time-order.

NIMS C22 SCIENCE OVERVIEW

Jupiter Science

There are two realtime and six recorded Jupiter observations in C22. The first realtime observation looks at the North Equatorial Belt Region. The second looks at the same longitude at 20 degrees North latitude, 10 degrees North latitude and the equator. Of the six recorded Jupiter observations, three are observations of the hotspot region at 7 degrees North latitude, two look at the white oval region near 30 degrees South latitude and one looks at a dark spot near 30 degrees South latitude.

Io Science

INHRSPEC01 is a low resolution map of Io. This is the final observation of Io before I24.

Europa Science

There are two Europa observations in C22. ENBELUSL is a long spectrometer observation of dark surface material in the Belus Linea region. ENGLOBAL is a two swath global map covering the trailing hemisphere.

Ganymede Science

Ganymede was not observed in C22.

Callisto Science

Callisto was not observed in C22.

Calibration

There are two NIMS calibration observations planned for C22: one RCT cal and three OPCALs. Two OPCALs were inserted into the encounter sequence in the dark sky portion at the tail end of the observations INHRSPEC01 and ENGLOBAL01.

Early Data Return

There are four realtime observations in C22: Two 408 wavelength Jupiter observations (JUPRTS), one RCT calibration and one OPCAL.

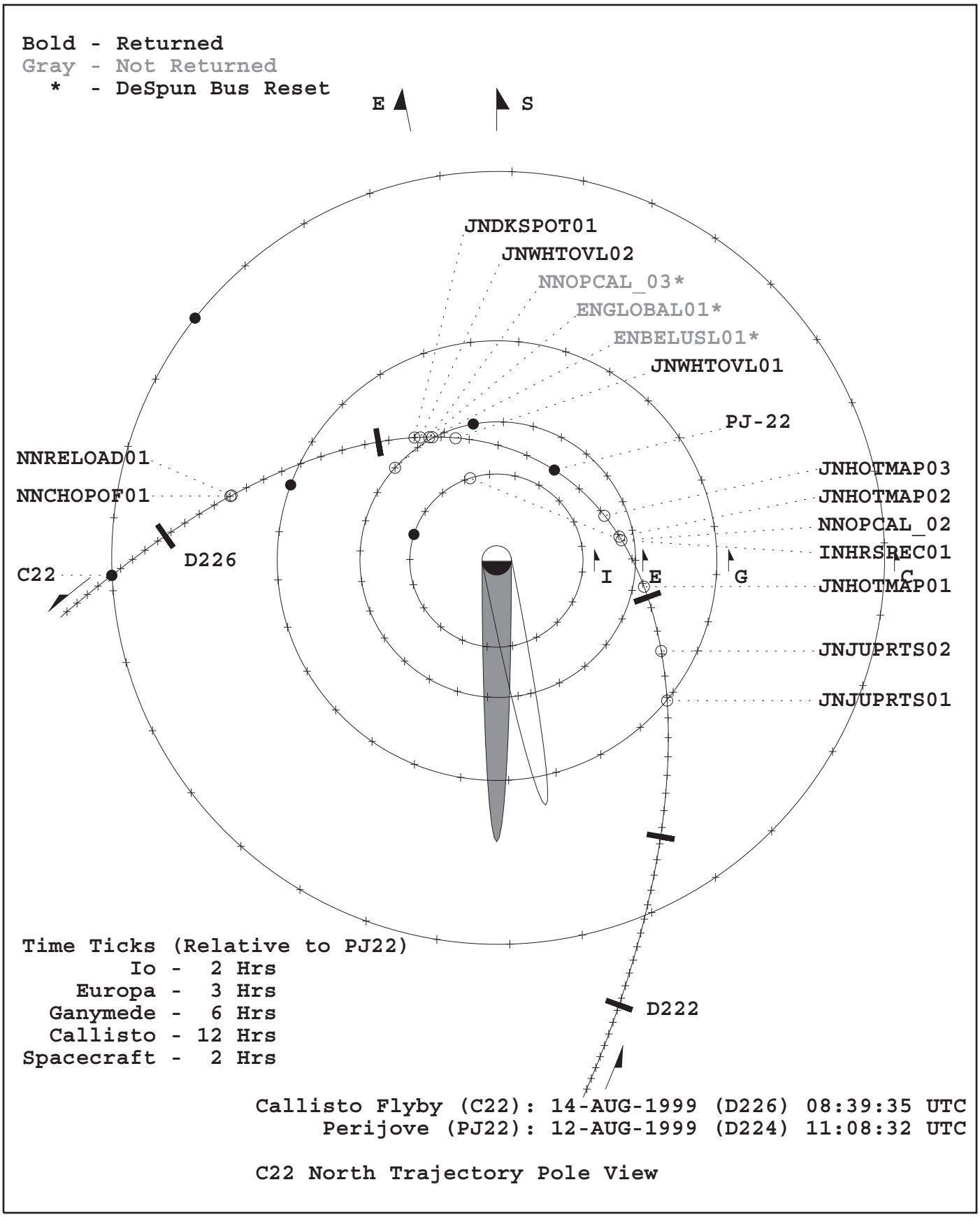
C22 Playback

C22 playback is split into two passes through the tape.

C22 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
22NNJUPRTS01-	99-223/14:45:27	99-223/14:48:29	000/00:03:02
22JNJUPRTS01*	99-223/14:49:30	99-223/15:15:47	000/00:26:17
22NNHRSPEC01-	99-223/17:57:34	99-223/18:00:36	000/00:03:02
22INHRSPEC01-	99-223/18:02:37	99-223/18:09:42	000/00:07:04
22NNJUPRTS02-	99-223/19:16:26	99-223/19:19:28	000/00:03:02
22JNJUPRTS02*	99-223/19:19:28	99-223/19:45:45	000/00:26:17
22NNHOTMAP01-	99-224/00:47:04	99-224/00:50:06	000/00:03:02
22JNHOTMAP01-	99-224/00:52:07	99-224/01:25:29	000/00:33:22
22NNHOTMAP02-	99-224/04:54:47	99-224/04:57:49	000/00:03:02
22JNHOTMAP02-	99-224/04:57:49	99-224/05:31:11	000/00:33:22
22NNHOTMAP03-	99-224/06:38:56	99-224/06:41:58	000/00:03:02
22JNHOTMAP03-	99-224/06:41:58	99-224/07:06:14	000/00:24:16
22NNWHTOVL01-	99-224/18:05:29	99-224/18:08:31	000/00:03:02
22JNWHTOVL01-	99-224/18:08:31	99-224/18:20:39	000/00:12:08
22NNBELUSL01-	99-224/19:40:31	99-224/19:43:33	000/00:03:02
22ENBELUSL01-	99-224/19:47:36	99-224/20:01:45	000/00:14:09
22NNGLOBAL01-	99-224/20:01:45	99-224/20:04:47	000/00:03:02
22ENGLOBAL01*	99-224/20:04:47	99-224/20:26:01	000/00:21:14
22NNWHTOVL02-	99-224/20:36:08	99-224/20:39:10	000/00:03:02
22JNWHTOVL02-	99-224/20:40:11	99-224/20:54:20	000/00:14:09
22NNDKSPOT01-	99-224/21:06:28	99-224/21:09:30	000/00:03:02
22JNDKSPOT01-	99-224/21:09:30	99-224/21:21:38	000/00:12:08
22NNRELOAD01-	99-225/14:56:13	99-225/15:00:16	000/00:04:02
22NNCHOPOF01-	99-225/15:05:19	99-225/15:15:26	000/00:10:06
22NNDETECT01-	99-244/06:49:31	99-244/09:56:34	000/03:07:03
22NNRCTRLT01-	99-244/23:00:11	99-245/12:15:55	000/13:15:44

NIMS C22 OBSERVATIONS

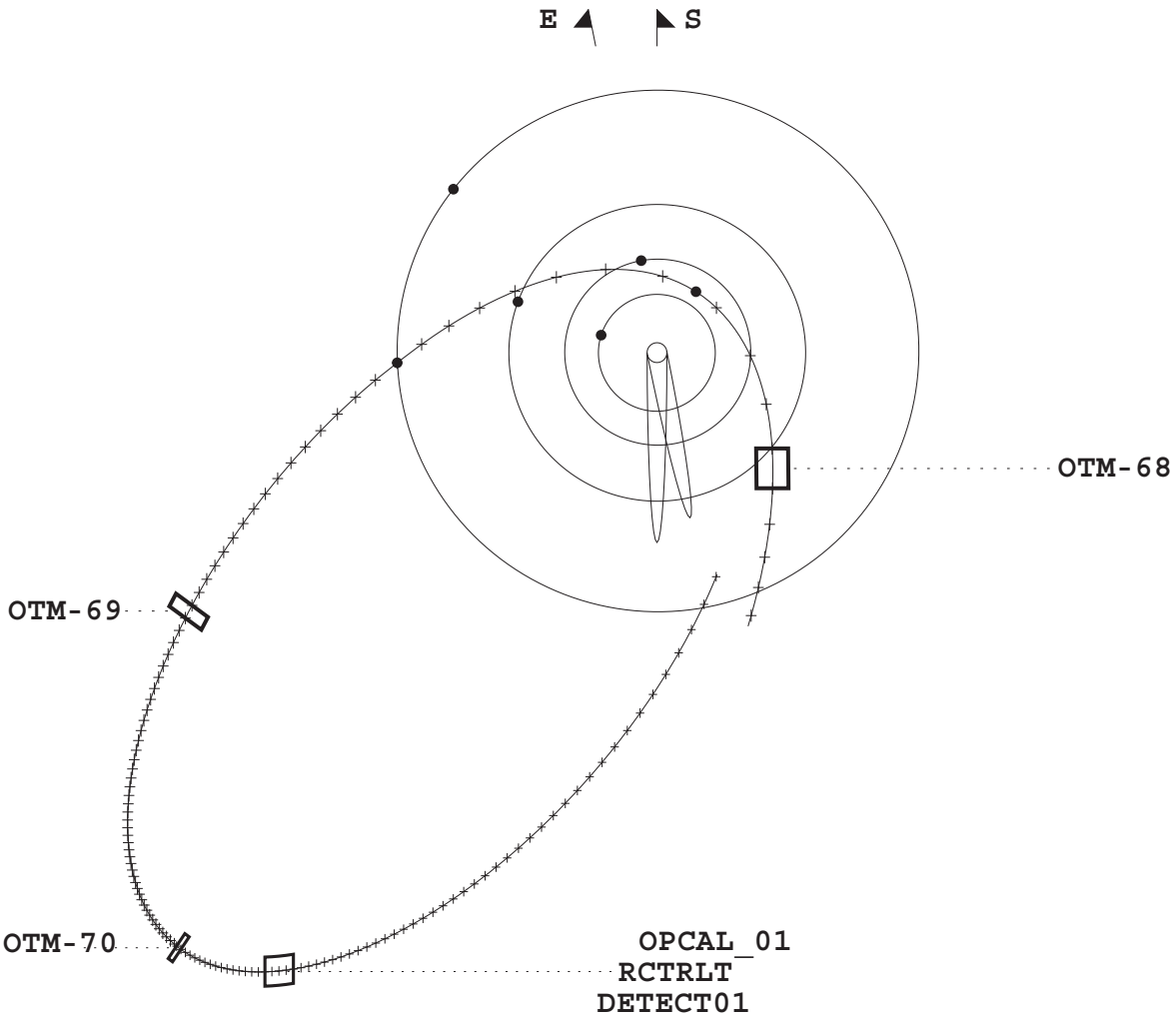


NIMS - FEL - 12/06/99

NIMS C22 CRUISE CALIBRATIONS

Callisto Flyby (C22): 14-AUG-1999 (D226) 08:39:35 UTC
Perijove (PJ22): 12-AUG-1999 (D224) 11:08:32 UTC
Apojove (AJ22): 28-AUG-1999 (D240) 16:00:00 UTC

Time Ticks (Relative to C22)
Spacecraft - 6 Hours



C22 North Trajectory Pole View, Perijove to Perijove

C22 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
22NNJUPRTS01-	NIMS Software Reload								
22JNJUPRTS01*	Jupiter Realtime Observation	C22JLM442/MB	R/T	LM	4	0	4	R/T	DB
22NNHRSPEC01-	NIMS Software Reload								
22INHRSPEC01-	Io monitoring	C22ILMDK243D	C22ILMDK228D	LM	4	0	4	LPU	DC
22NNJUPRTS02-	NIMS Software Reload								
22JNJUPRTS02*	Jupiter Realtime Observation	C22JLM442/MB	R/T	LM	2	0	4	R/T	DD
22NNHOTMAP01-	NIMS Software Reload								
22JNHOTMAP01-	NIMS Jupiter HotMap	C22JSB253C	C22JSB76C	LM	2	0	4	LPU	DA
22NNHOTMAP02-	NIMS Software Reload								
22JNHOTMAP02-	NIMS Jupiter HotMap	C22JHT253A	C22JHT80A	LM	4	0	4	LPU	DE
22NNHOTMAP03-	NIMS Software Reload								
22JNHOTMAP03-	NIMS Jupiter HotMap	C22JSB253C	C22JSB76C	LM	2	0	4	LPU	DG
22NNWHTOVL01-	NIMS Software Reload								
22JNWHTOVL01-	Jupiter White Oval	C22JSB253C	C22JSB132C	LM	2	0	4	LPU	DJ
22NNBELUSL01-	NIMS Software Reload								
22ENBELUSL01-	Europa Belus Linea Dark Materials Obs	C22ELS442	C22ELS360	LS	3	0	4	MPW	DH
22NNGLOBAL01-	NIMS Software Reload								
22ENGLOBAL01*	Europa Global	C22ELM243C	C22ELM228C	LM	3,2	0	4	LPU	DI
22ENGLOBAL01_O	Europa Global(O)	C22OPCAL48	C22OPCAL48	LM	4	0	4	LPU	
22NNWHTOVL02-	NIMS Software Reload								
22JNWHTOVL02-	Jupiter White Oval	C22JSB253C	C22JSB132C	LM	2	0	4	LPU	DK
22NNDKSPOT01-	NIMS Software Reload								
22JNDKSPOT01-	Jupiter Dark Spot	C22JSB253C	C22JSB76C	LM	2	0	4	LPU	DL
22NNRELOAD01-	NIMS Software Reload								
22NNCHOPOF01-	Chopper off								
22NNDETECT01-	Grating Step Test								
22NNRCTRLT01-	NIMS RCT Real Time Calibration	C22RCT252	R/T	LM	1	0	4	R/T	
22NNROPCAL01	NIMS OPCAL	C22OPCAL48	R/T	LM	4	0	4	R/T	

C22 RESOURCES

Activity ID	Mode	Record Format	Obs. Cost (tracks)	Obs. Cost (ticks)	Number Wavelengths Returned	Obs Record (sec.)	Obs PB (sec.)	Selected Bits to Tape sBOT (MBITS)	Bits to Tape BOT (Mbit)	Mode Cycle time (sec)
22JNJUPRTS01	LM	R/T			360					
22INHRSPEC01	LM	LPU	0.0148	86	228	360	170	1.05	2.22	8.667
22JNJUPRTS02	LM	R/T			360					
22JNHOTMAP01	LM	LPU	0.0245	143	76	600	590	3.64	3.70	8.667
22JNHOTMAP02	LM	LPU	0.0245	143	80	600	590	3.64	3.70	8.667
22JNHOTMAP03	LM	LPU	0.0245	143	76	600	590	3.64	3.70	8.667
22JNWHTOVL01	LM	LPU	0.0245	143	132	600	590	3.64	3.70	8.667
22ENBELUSL01	LS	MPW	0.0909	530	360	600	598	6.89	6.91	8.667
22ENGLOBAL01	LM	LPU	0.0537	313	228	1327	674	4.16	8.18	8.667
22ENGLOBAL01_O	LM	LPU	0.0537	313	48	1327	110	0.68	8.18	8.667
22JNWHTOVL02	LM	LPU	0.0414	241	132	1020	1010	6.23	6.29	8.667
22JNDKSPOT01	LM	LPU	0.0450	262	76	1110	550	3.39	6.85	8.667
Resource Totals			**0.3827**	**2054**						

C22 RESOURCES

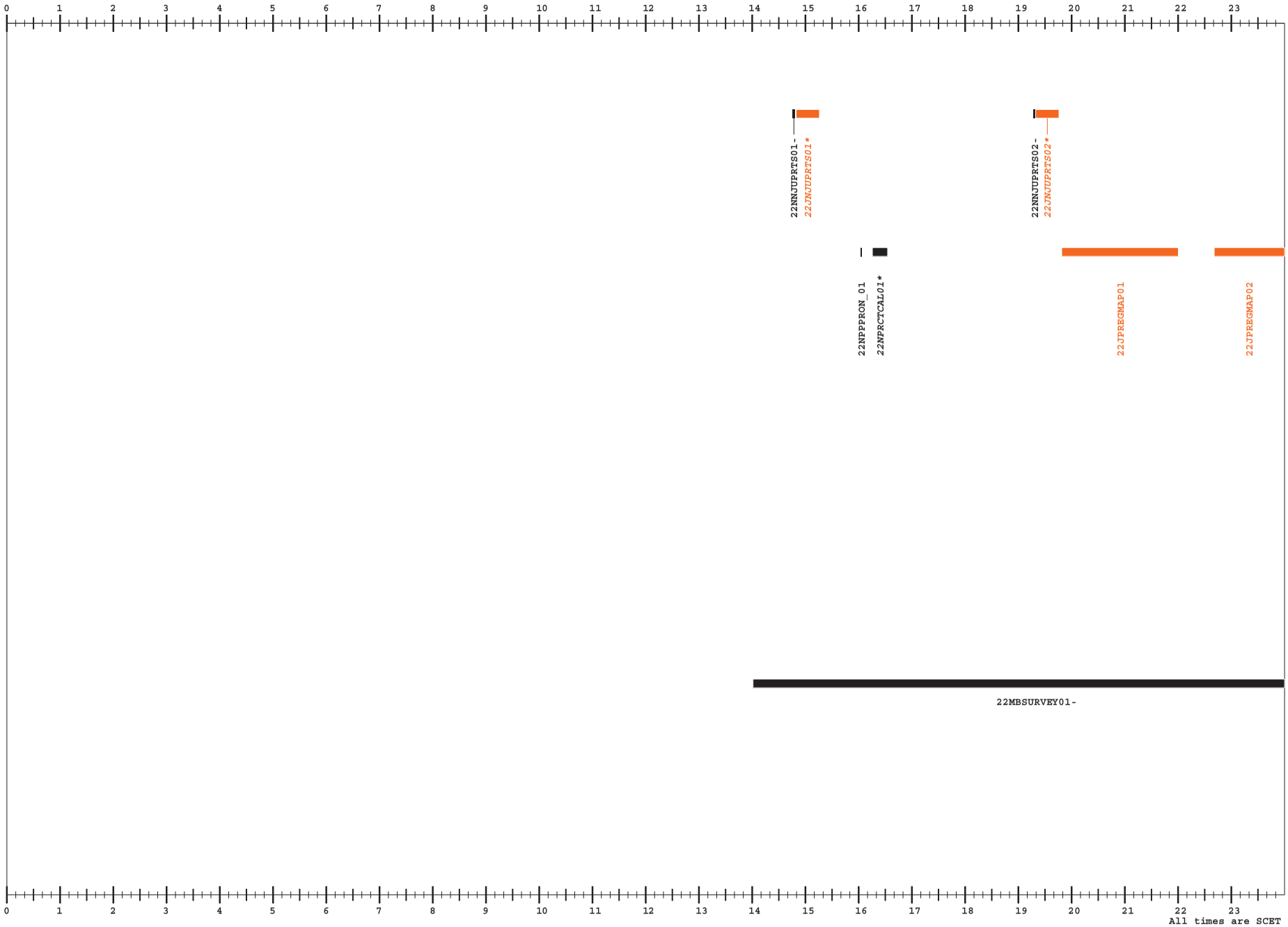
Activity ID	AACS Mbits c 2.5	RT BTG Mbits	Comp	Thold	Total BTG Mbits (w/4% overhead)	Data Reduction Factor (sBOT/BTG)	Pass
22JNJUPRTS01		0.32					
22INHRSPEC01	0.01		1.80	0	0.5168	2.0	1
22JNJUPRTS02		0.32					
22JNHOTMAP01	0.03		1.50	0	0.7174	5.1	2
22JNHOTMAP02	0.03		1.50	0	0.7552	4.8	1
22JNHOTMAP03	0.03		1.50	0	0.7174	5.1	2
22JNWHTOVL01	0.03		1.80	0	1.0384	3.5	1
22ENBELUSL01	0.03		1.80	0	2.8703	2.4	1
22ENGLOBAL01	0.04		1.80	0	2.0489	2.0	2
22ENGLOBAL01_O	0.01		2.00	0	0.0634	10.7	1
22JNWHTOVL02	0.06		1.80	0	1.7775	3.5	2
22JNDKSPOT01	0.03		1.80	0	0.5573	6.1	1
Resource Totals					**11.0625**		

NIMS C22 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
22JNJUPRTS01	+7	350 to 70	1000K	39 to 43	96 to 164	8 to 41	126 to 131
22INHRSPEC01	-90 to +90	220 to 40	787K	58	21 to 174	0 to 90	111
22JNJUPRTS02	+20	125 to 150	855K	48	58 to 88	32 to 67	120
	+10	125 to 150	855K	48	58 to 88	32 to 67	120
	+0	125 to 150	855K	48	58 to 88	32 to 67	120
22JNHOTMAP01	+22 to +35	311 to 342	671K	68	48 to 75	40 to 70	101
22JNHOTMAP02	+4 to +15	128 to 148	529K	94	68 to 87	8 to 19	76
22JNHOTMAP03	+4 to +12	129 to 155	510K	99	6 to 40	30 to 68	70
22JNWHTOVL01	+26 to +34	133 to 143	580K	171	41 to 51	34 to 40	19
22ENBELUSL01	+8	233	211K	122	6	44	47
22ENGLOBAL01	-90 to +90	184 to 4	212K	126	31 to 129	31 to 90	42
22JNWHTOVL02	+4 to +12	212 to 230	650K	158	32 to 60	8 to 29	32
22JNDKSPOT01	-36 to -26	255 to 277	676K	153	34 to 46	34 to 49	37

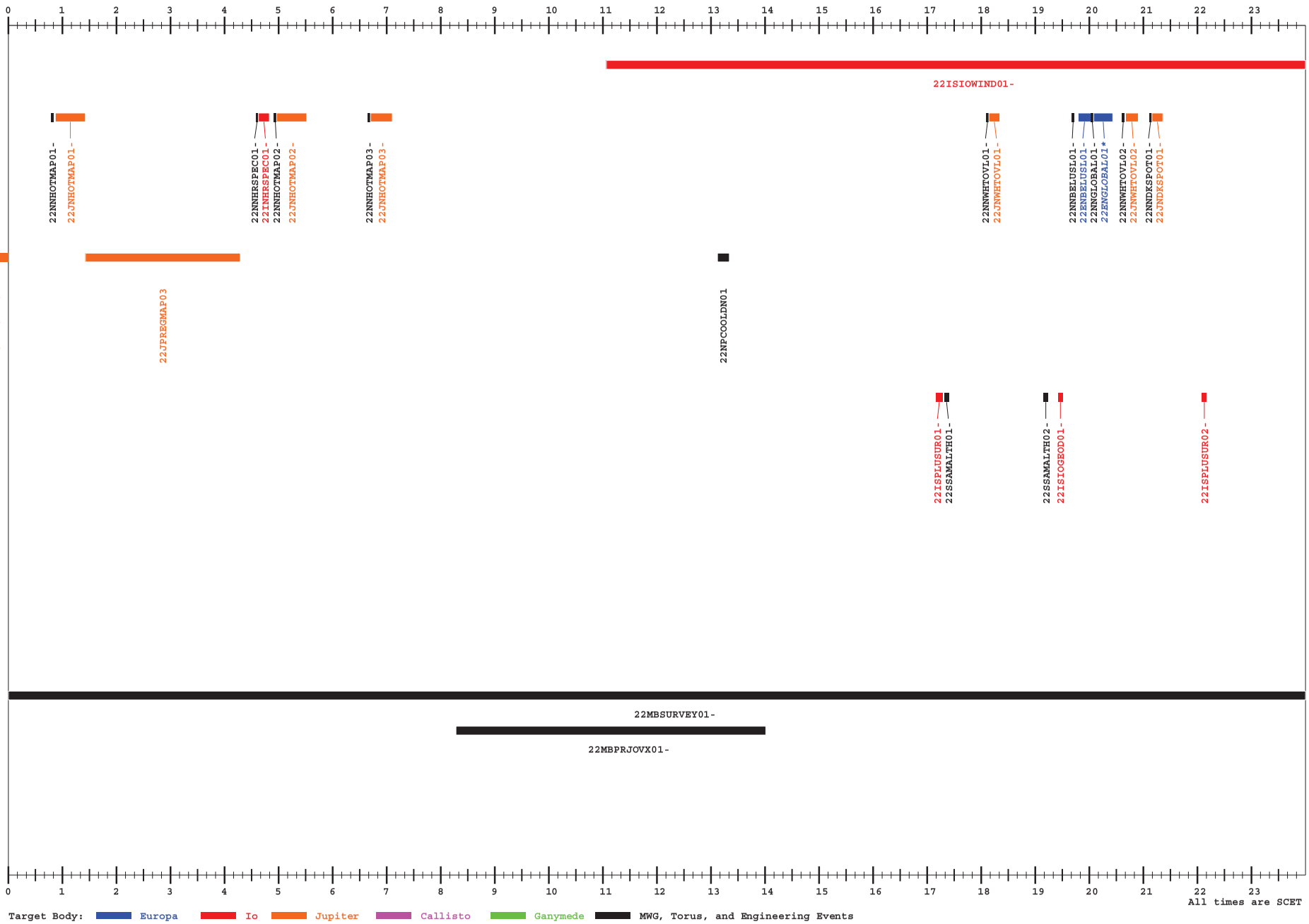
C22 ENCOUNTER
Plot Time: 99-223/00:00:00.000 to 99-224/00:00:00.000
Date of Plot: 3-Aug-99 13:43:35

GEM: C22



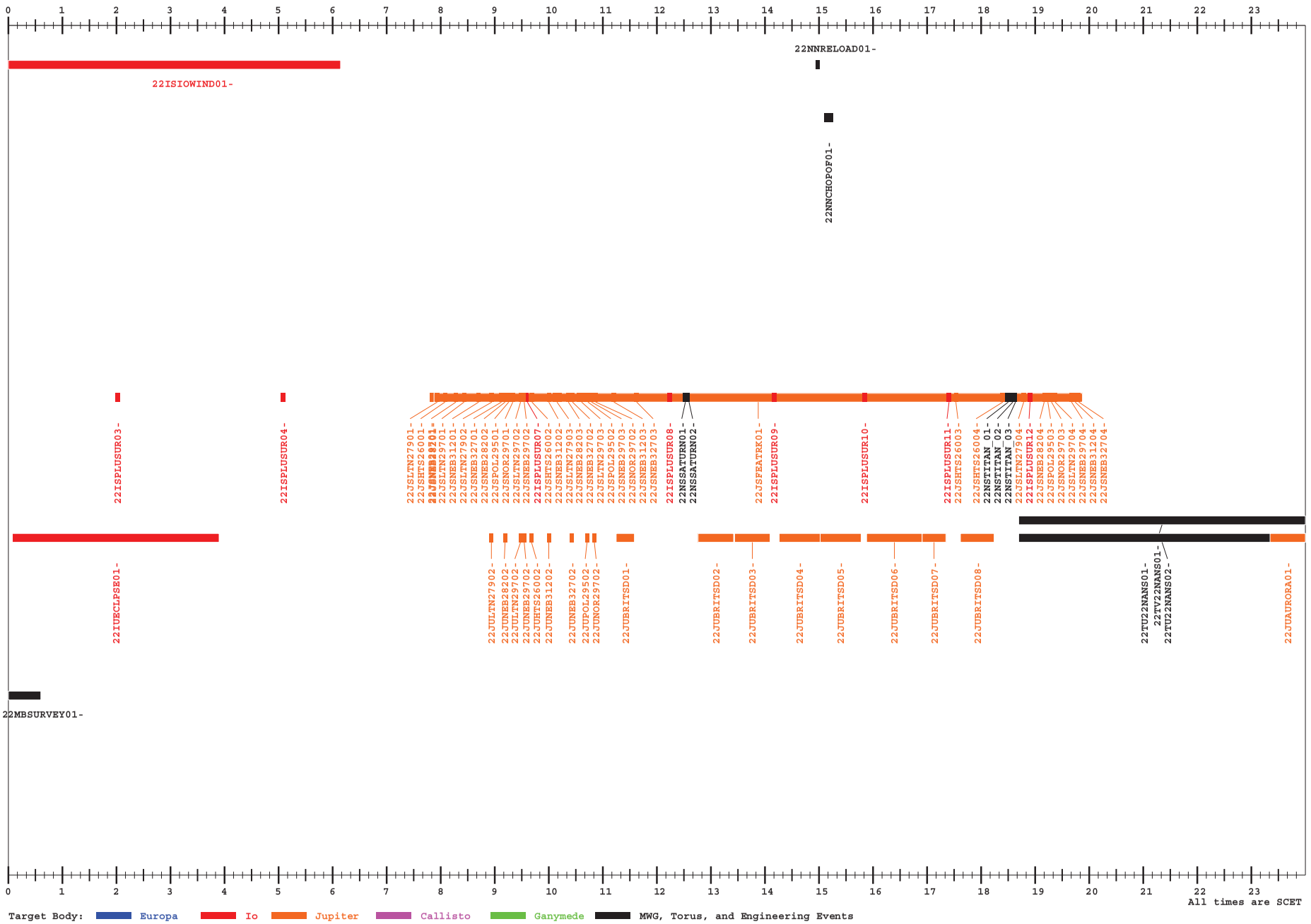
GEM: C22

C22 ENCOUNTER
Plot Time: 99-224/00:00:00.000 to 99-225/00:00:00.000
Date of Plot: 3-Aug-99 13:43:35



GEM: C22

C22 ENCOUNTER
Plot Time: 99-225/00:00:00.000 to 99-226/00:00:00.000
Date of Plot: 3-Aug-99 13:43:35



GEM: C22

C22 ENCOUNTER
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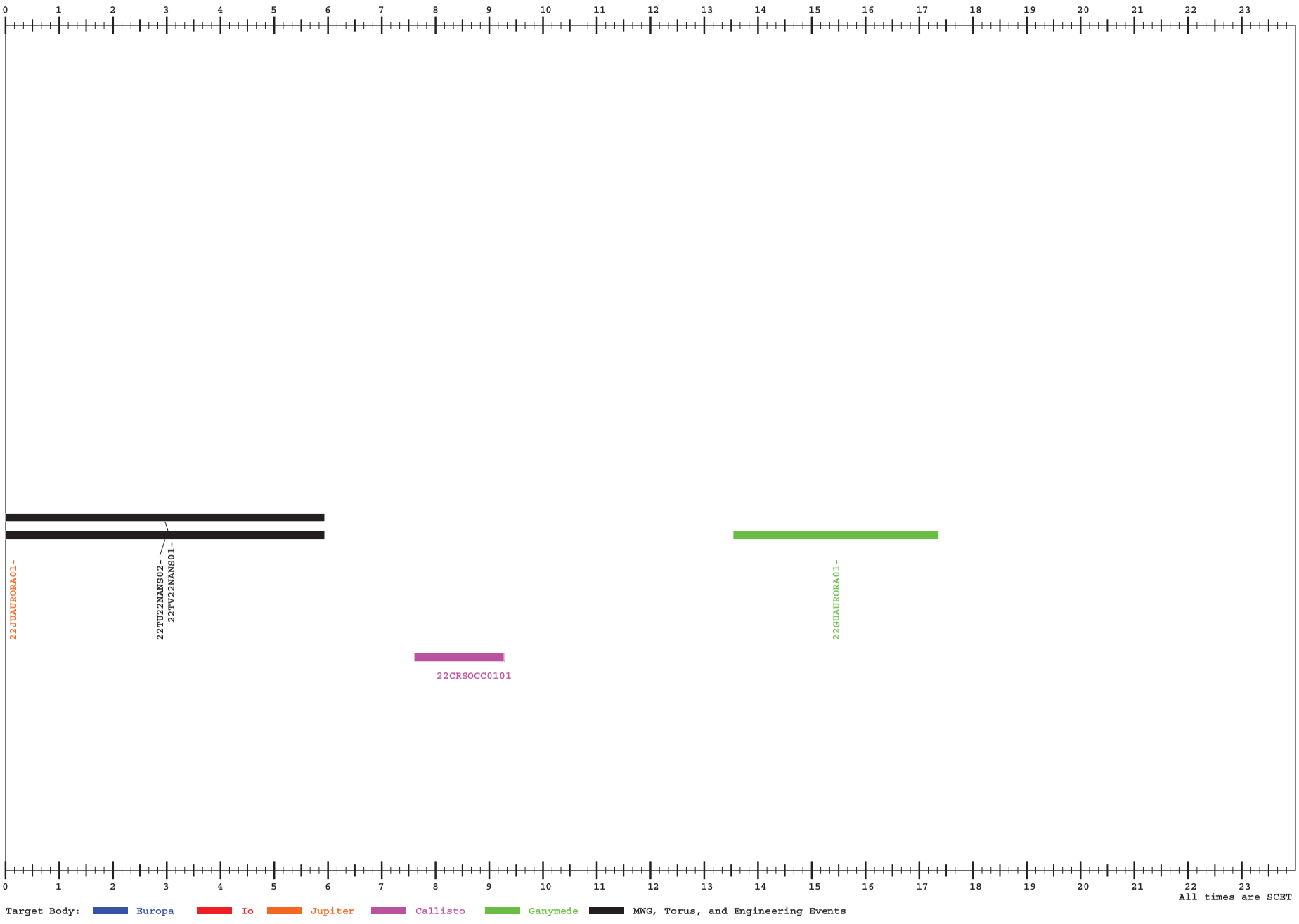
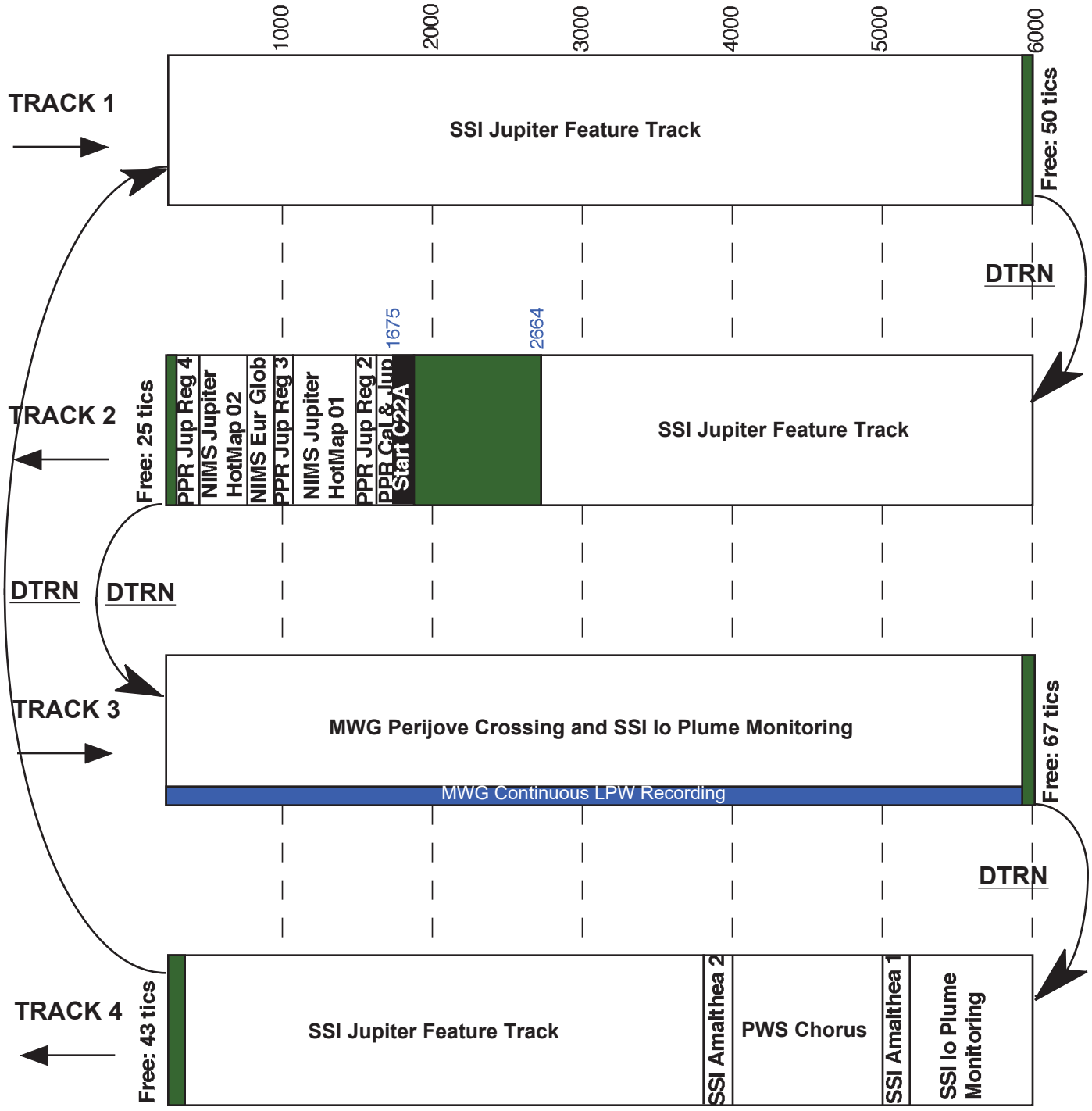
Date of Plot: 3-Aug-99 13:43:36



C22 HIGH-LEVEL TAPEMAP



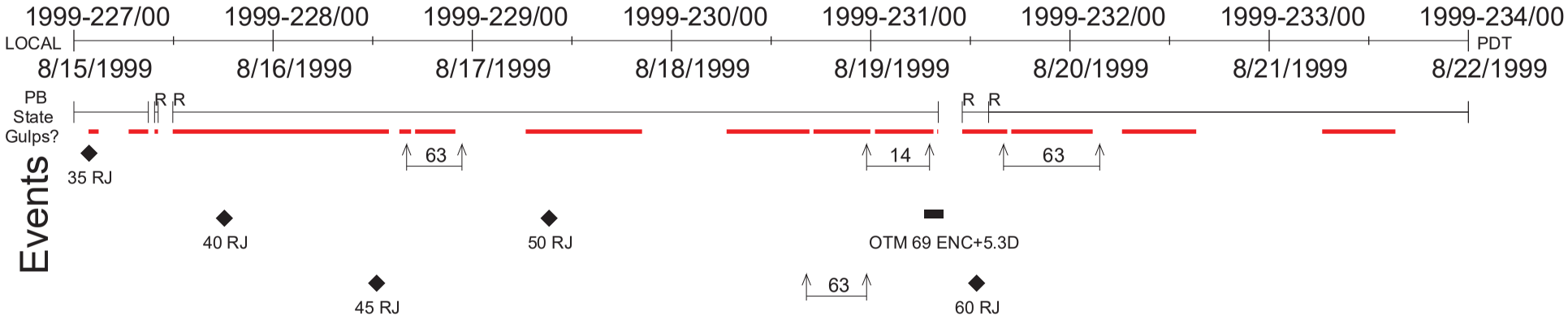
J. Gross, 8/13/97

C22PED-UPDATE

214/3
22MBPRJOVX01-

2-16

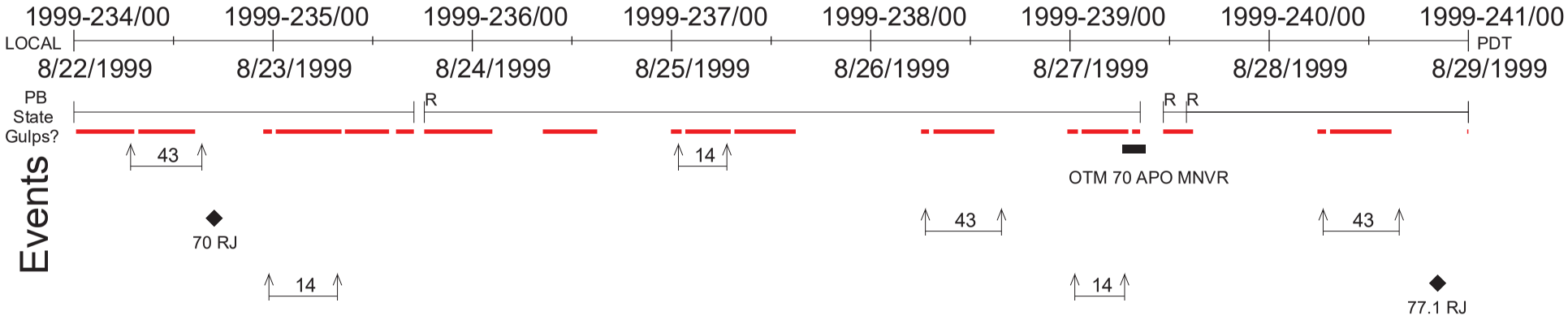
Playback / Date Returned



C22PED-UPDATE

22MBPRJOVX01-

Playback / Date Returned

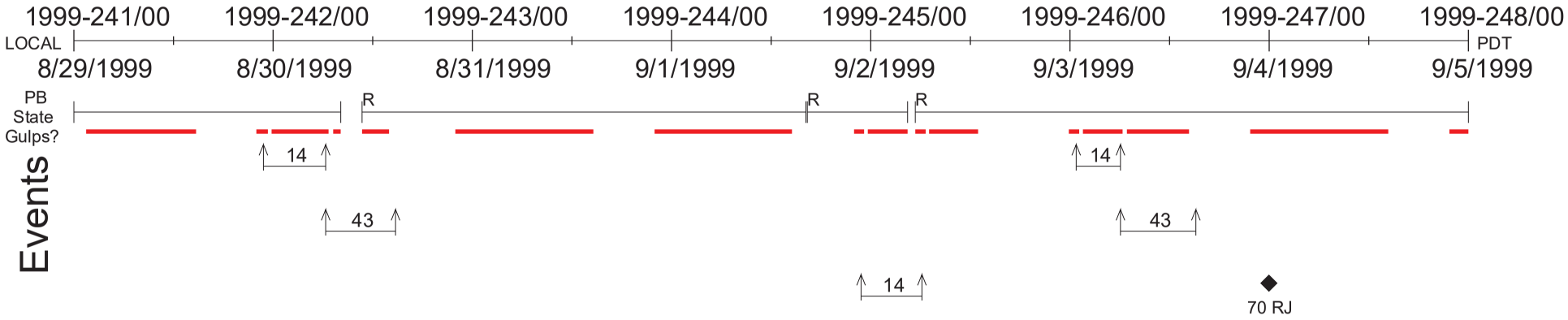


C22PED-UPDATE

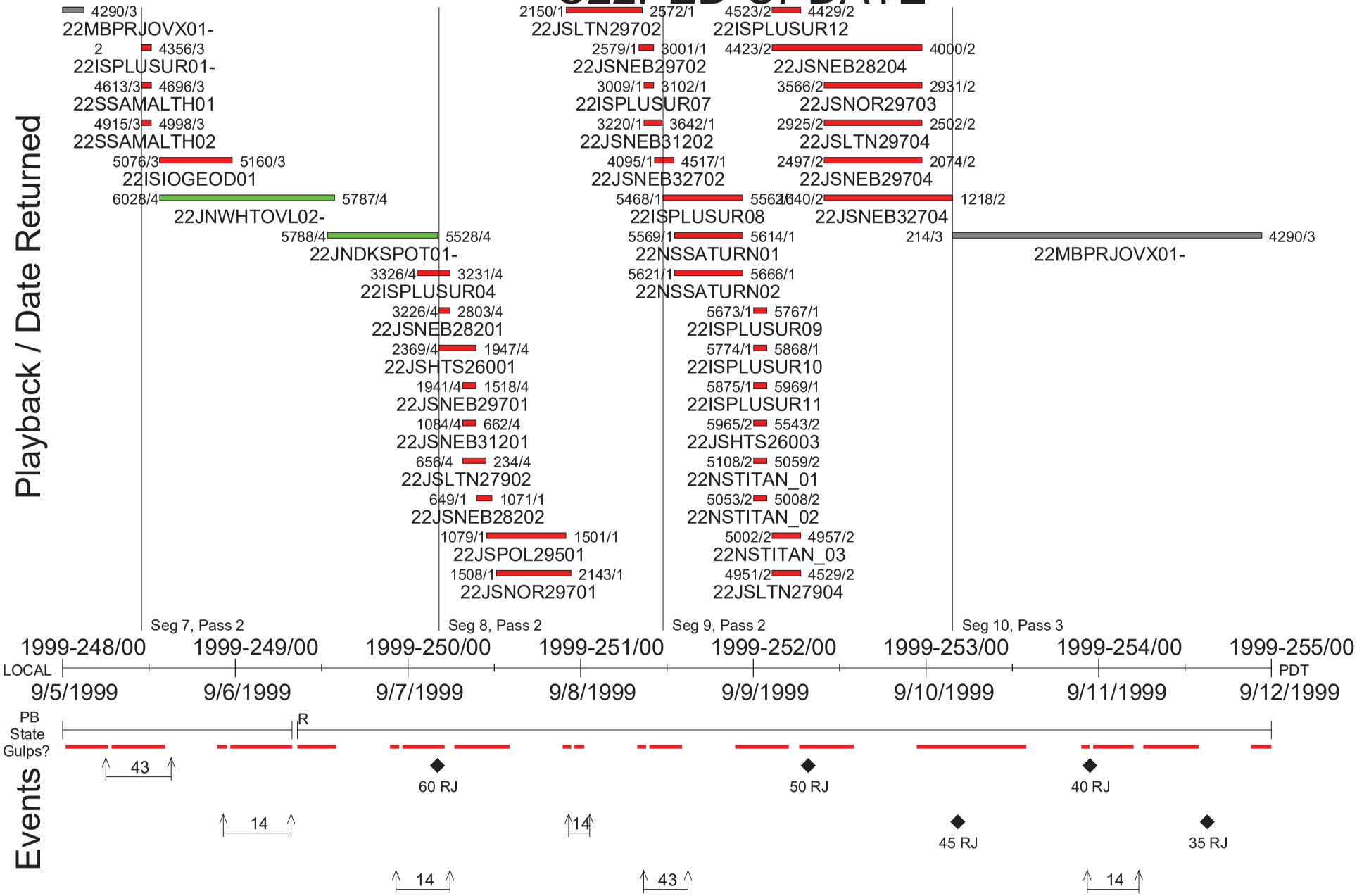
22MBPRJOVX01-

2-18

Playback / Date Returned



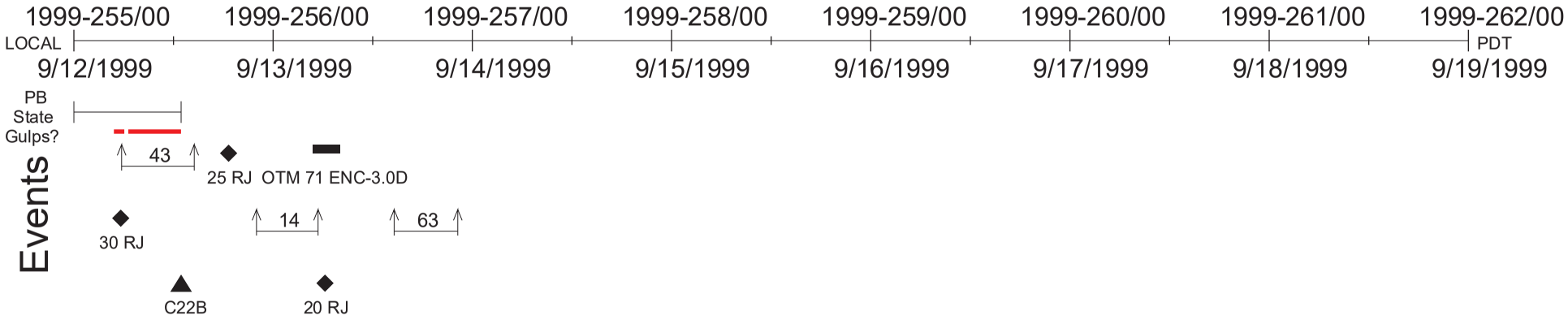
C22PED-UPDATE



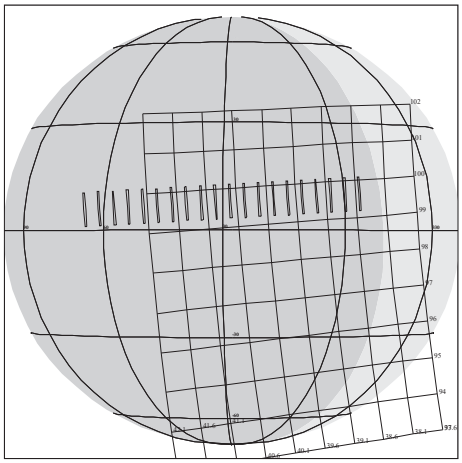
C22PED-UPDATE

Playback / Date Returned

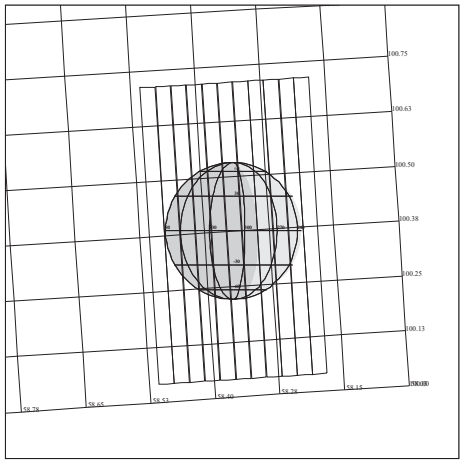
2-20



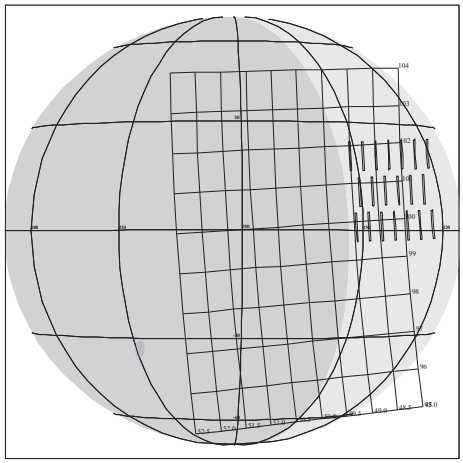
C22 NIMS A



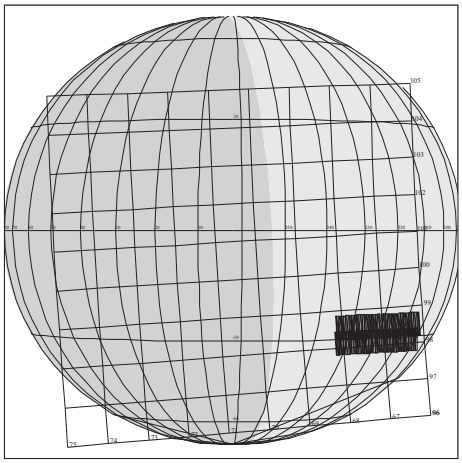
22JNJUPRTS01
99-223/14:49:30



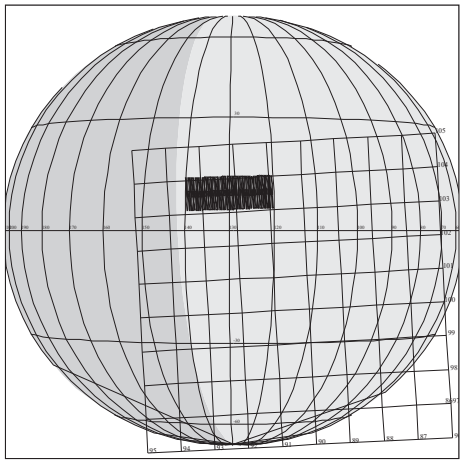
22INHRSPEC01
99-223/18:02:37



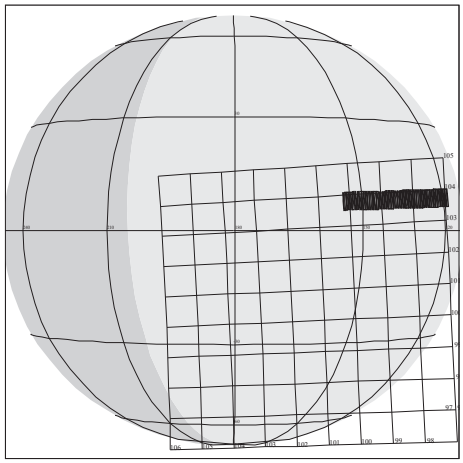
22JNJUPRTS02
99-223/19:19:28



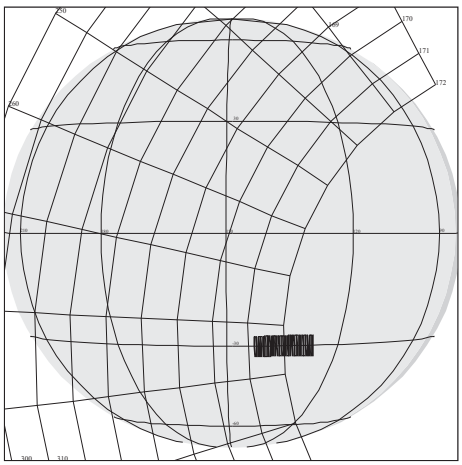
22JNHOTMAP01
99-224/00:52:07



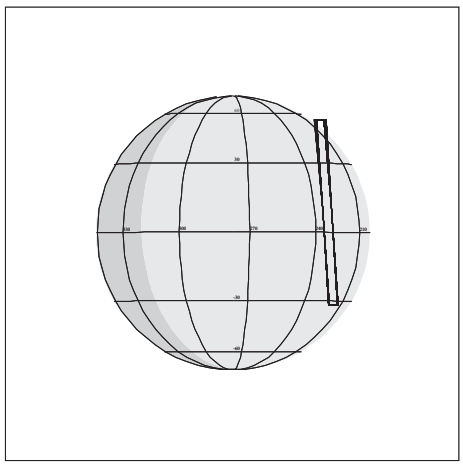
22JNHOTMAP02
99-224/04:57:49



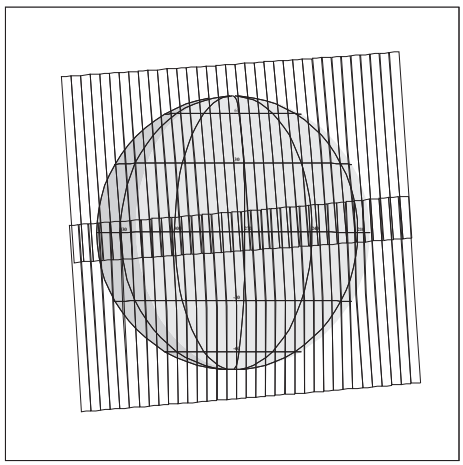
22JNHOTMAP03
99-224/06:41:58



22JNWHTOVL01
99-224/18:08:31

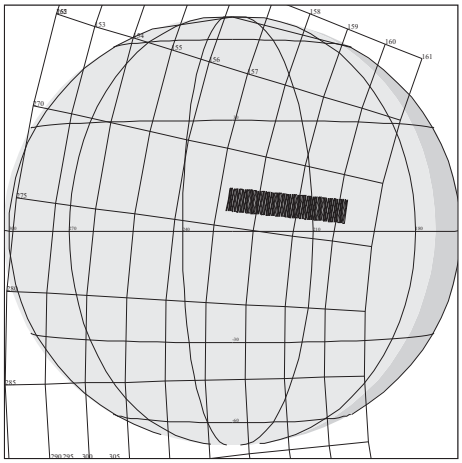


22ENBELUSL01
99-224/19:47:36

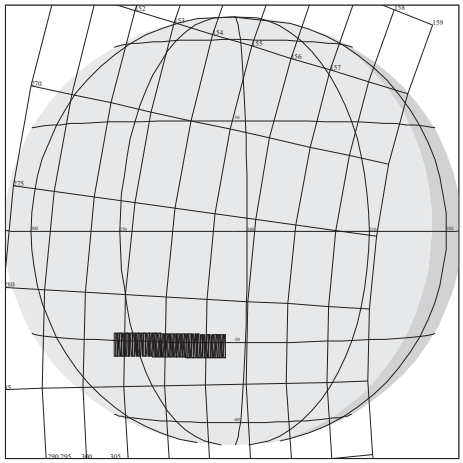


22ENGLOBAL01
99-224/20:04:47

C22 NIMS B



22JNWHTOVL02
99-224/20:40:11



22JNDKSPOT01
99-224/21:09:30

Chapter 3 - Orbit Geometries

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Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the C22 Orbit.

The figure on page 3 is a North Trajectory Pole View of the C22 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the C22 Orbit from +/- 5 days of Callisto closest approach.

The figure on page 5 is a North Trajectory Pole View of the C22 Orbit from +/- 2 days of Callisto closest approach.

The figure on page 6 is a North Trajectory Pole View of the C22 Orbit from +/- 1 day of Callisto closest approach.

The figure on page 7 is a North Trajectory Pole View of the C22 Orbit from +/- 6 hours of Callisto closest approach.

The figure on page 8 is a North Trajectory Pole View of the C22 Orbit from +/- 1 hour of Callisto closest approach.

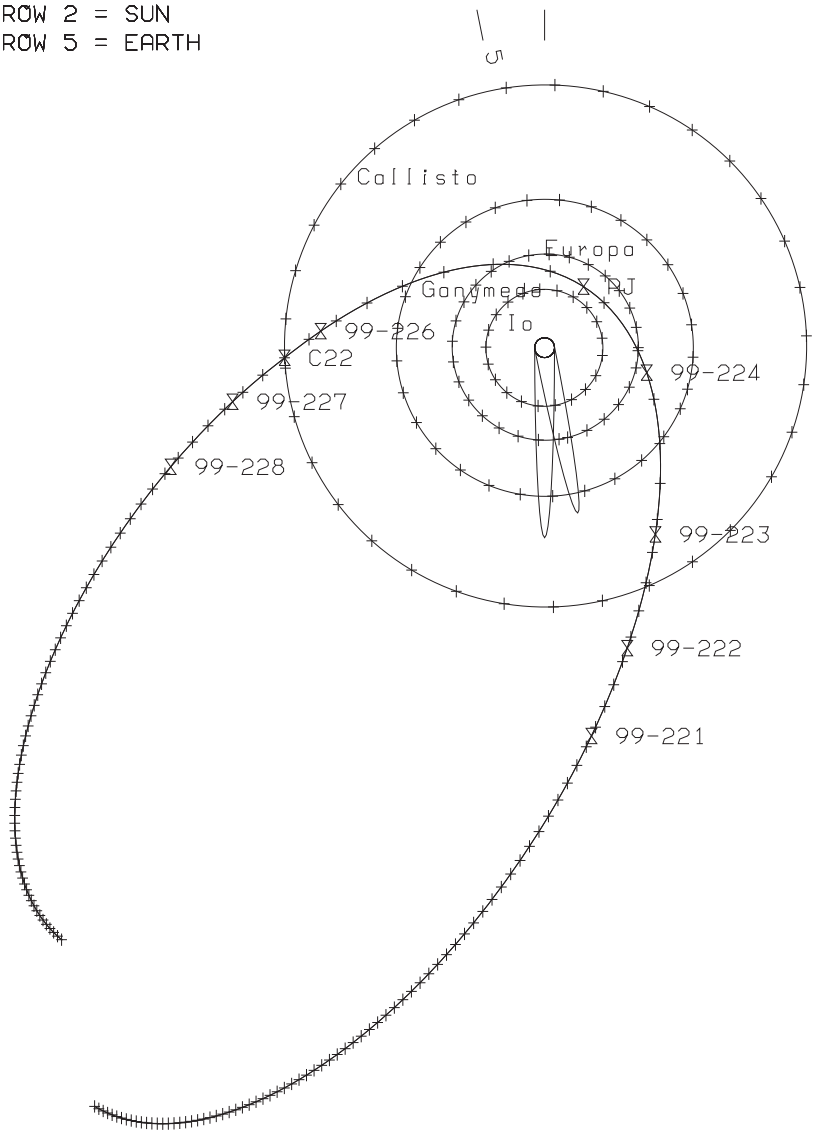
The figure on page 9 shows the spacecraft's groundtrack on Callisto at Callisto closest approach.

The figure on page 10 shows the spacecraft's groundtrack on Jupiter at Jupiter closest approach.

JUPITER 22: N. TRAJ. ~POLE VIEW (APO TO APO)

SUN FIXED ORIENTATION
ARROW 2 = SUN
ARROW 5 = EARTH

C22 C/A TIME (ET):
Aug 14 1999 08:39:35



TIME TICKS:
(RELATIVE TO PERIJOVE)

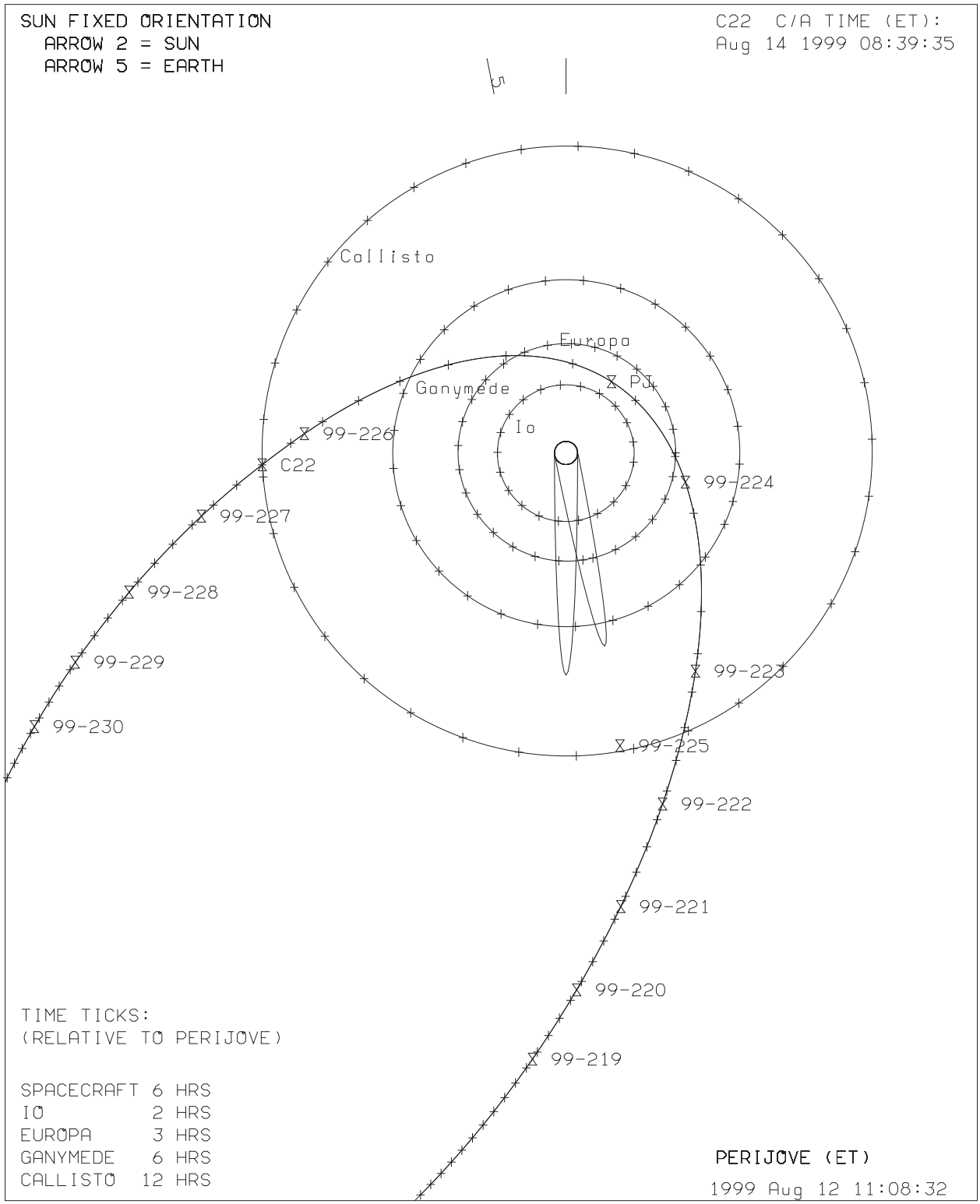
SPACECRAFT	6 HRS
IO	2 HRS
EUROPA	3 HRS
GANYMEDE	6 HRS
CALLISTO	12 HRS

PERIJOVE (ET)
1999 Aug 12 11:08:32

GEM-970401

NAV Apr 24, 1997

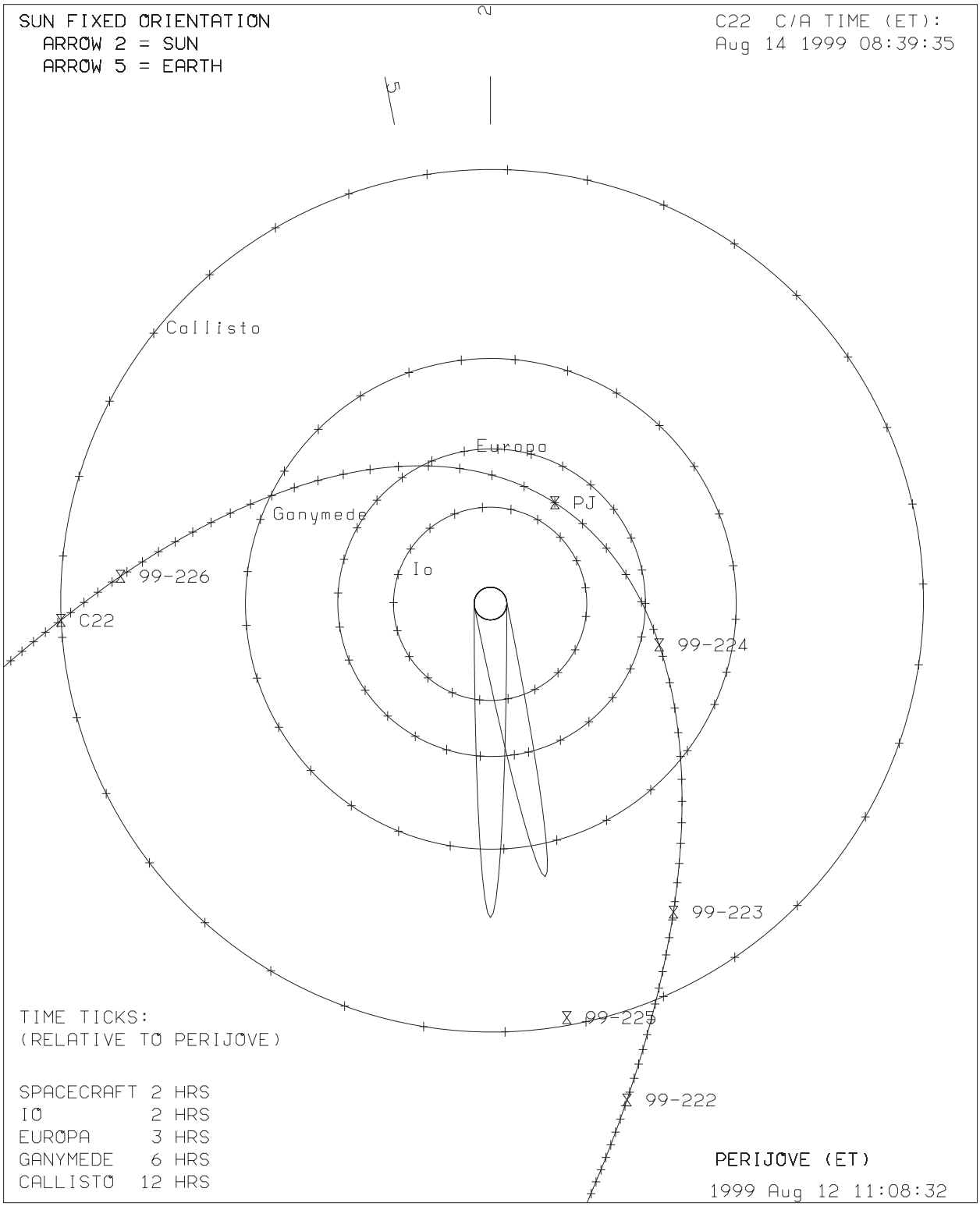
JUPITER 22: N. TRAJ. POLE VIEW (+/- 5 DAYS)



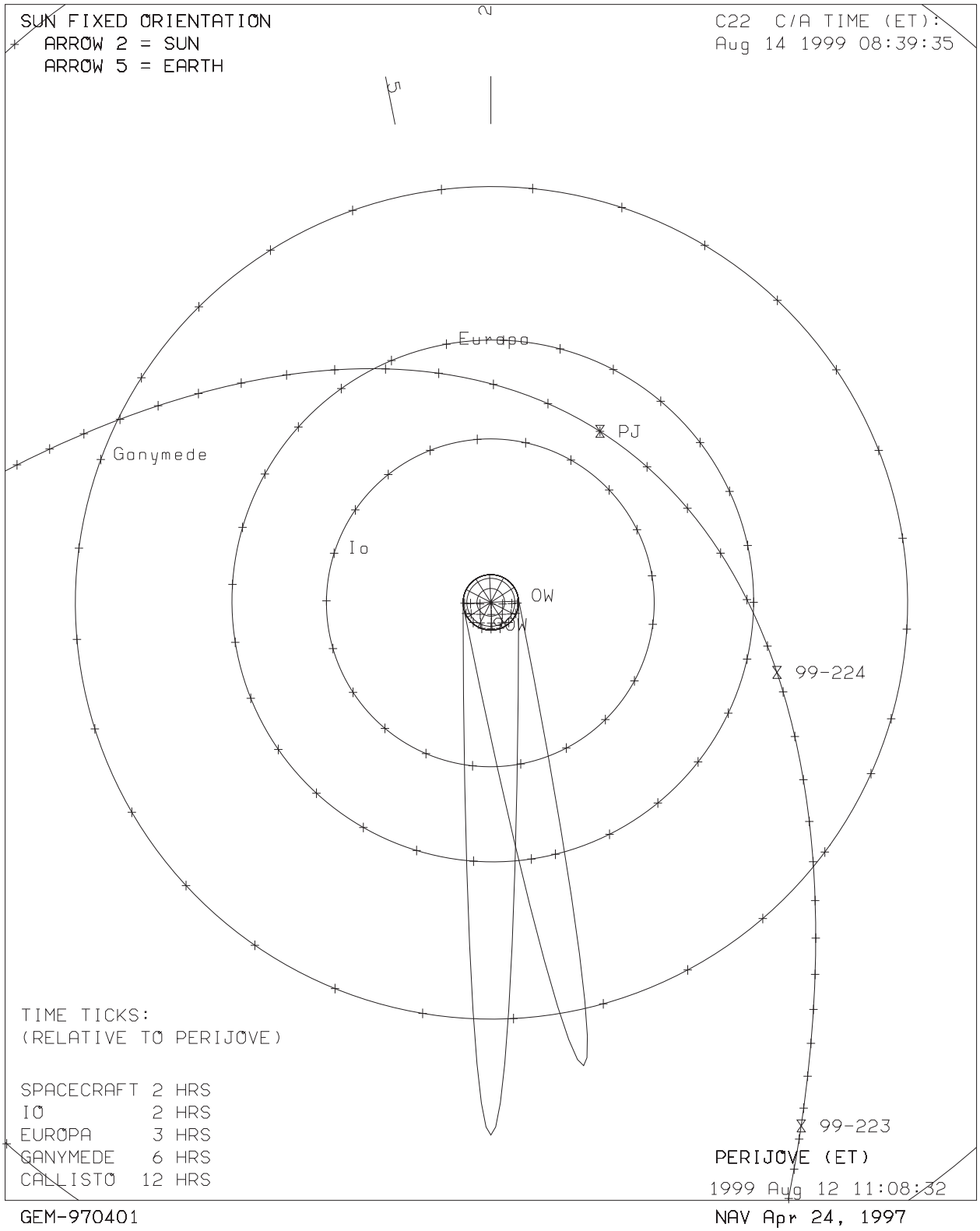
GEM-970401

NAV Apr 24, 1997

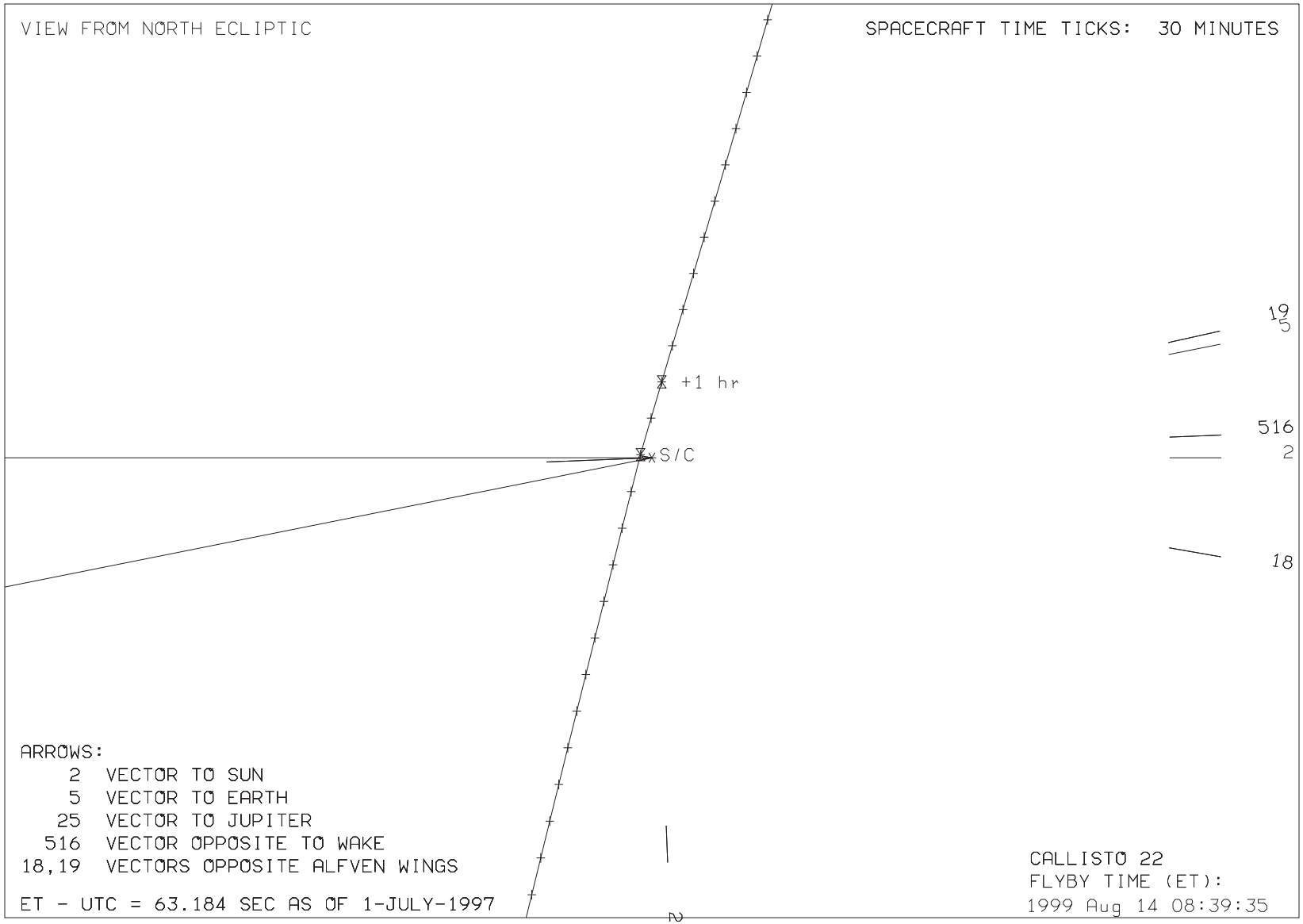
JUPITER 22: N. TRAJ. POLE VIEW (+/- 2 DAYS)



JUPITER 22: N. TRAJ. POLE VIEW (+/- 1 DAY)

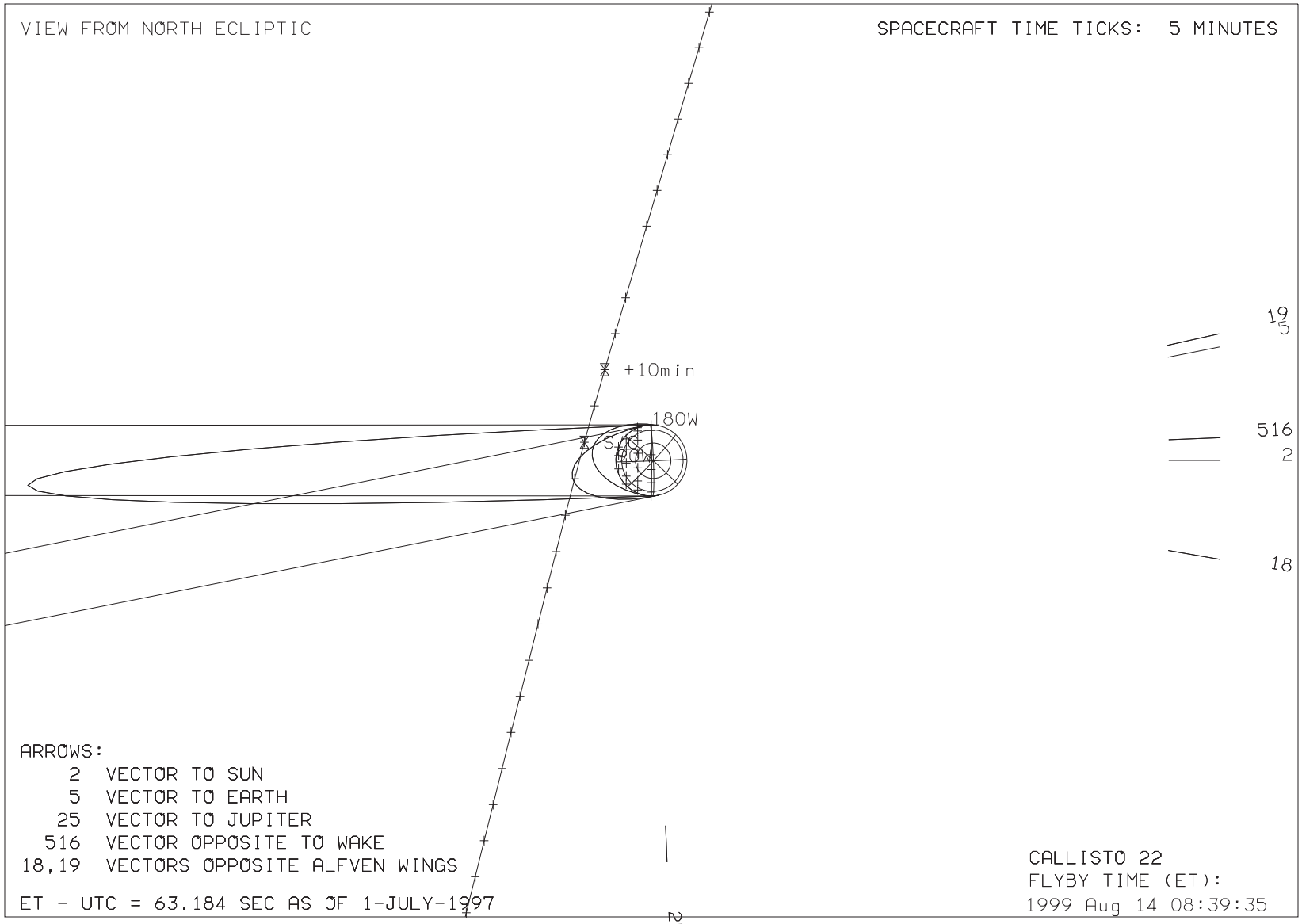


CALLISTO 22: S. TRAJ POLE VIEW (+/- 6 HRS)



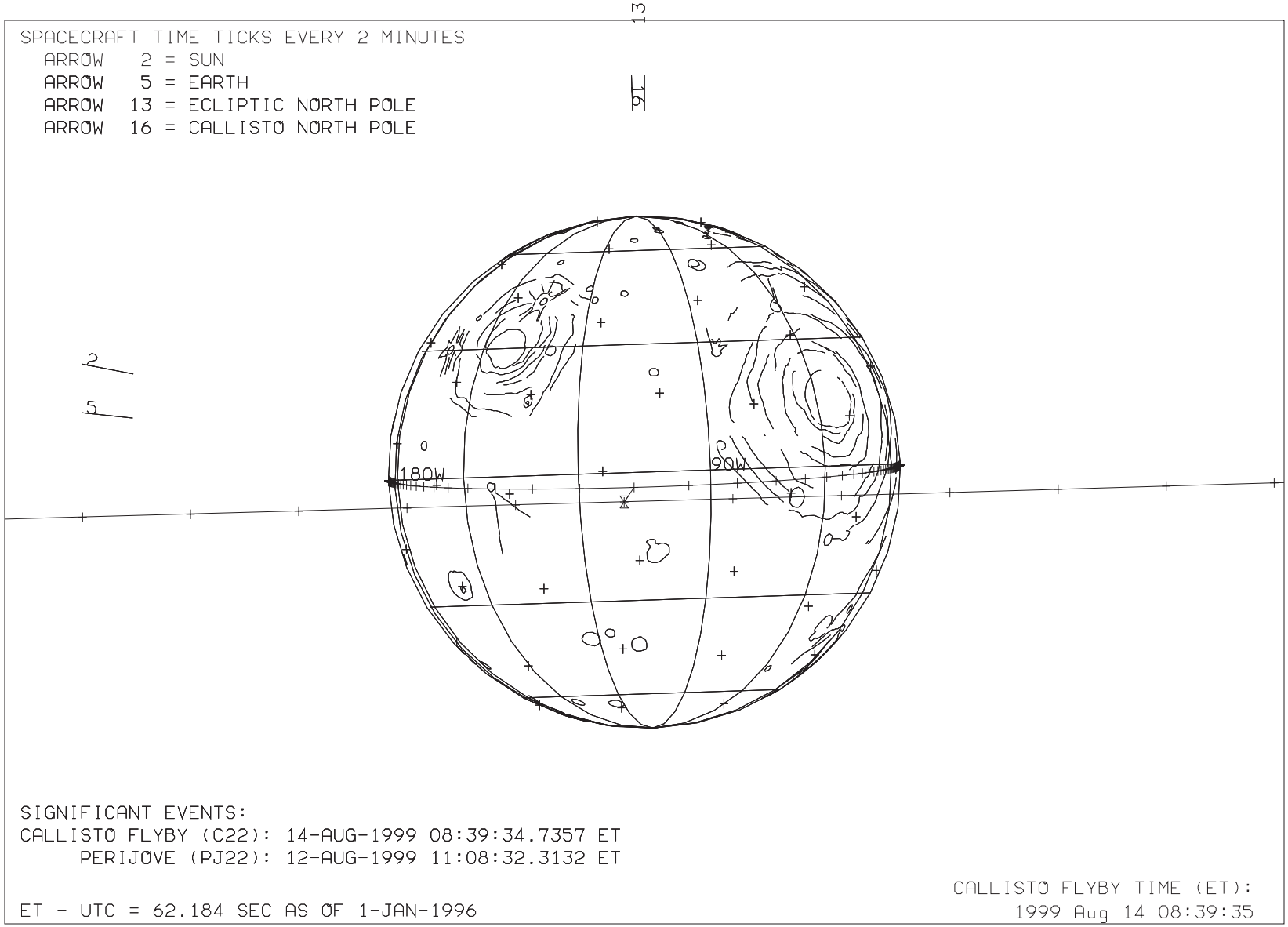
NAV 4/30/97

CALLISTO 22: S. TRAJ POLE VIEW (+/- 1 HR)



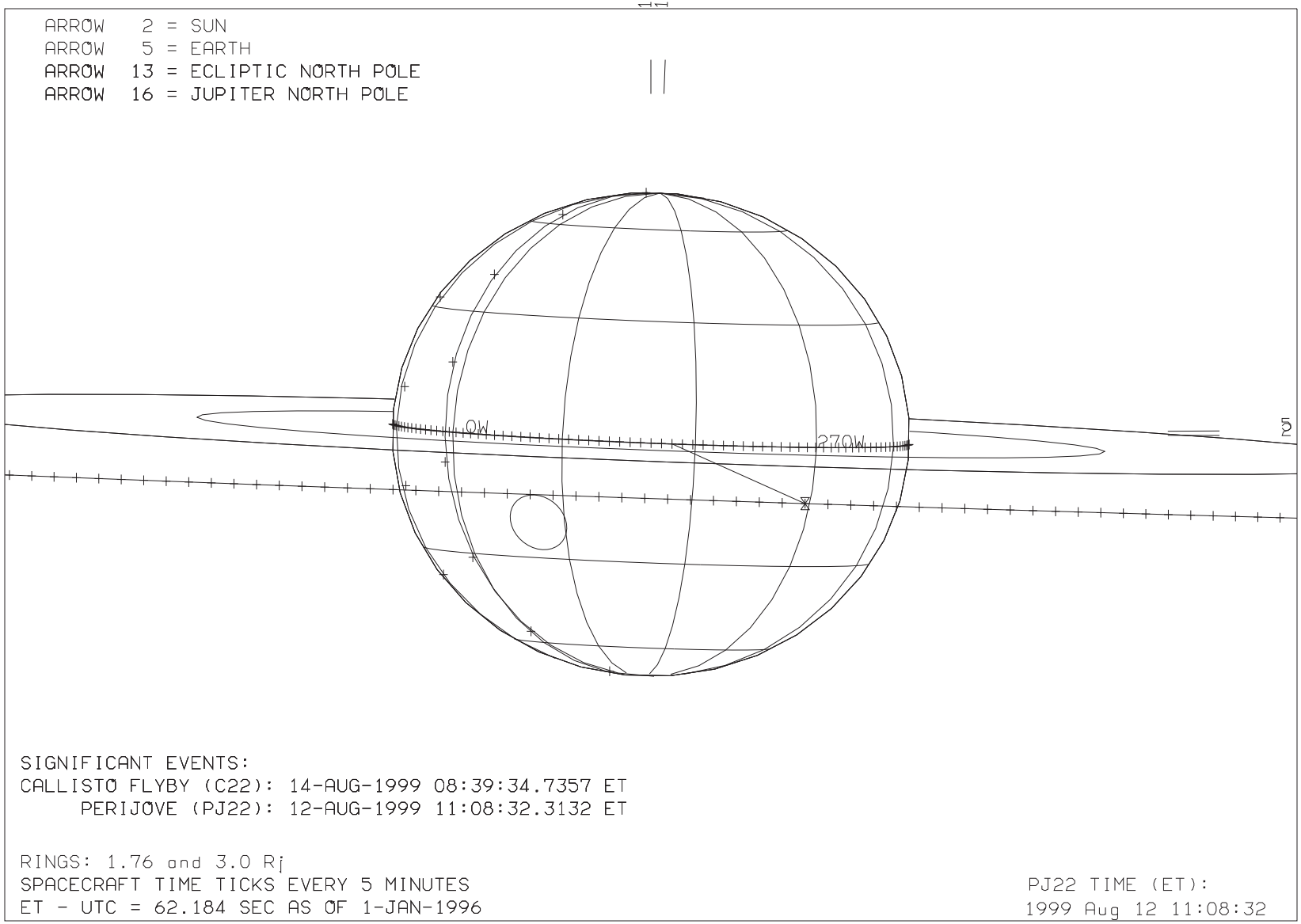
NAV 4/30/97

CALLISTO 22: GROUNDTRACK AT CLOSEST APPROACH



NAV Apr 6, 1997

JUPITER 22: GROUNDTRACK AT CLOSEST APPROACH



NAV Apr 6, 1997

Chapter 4 - NIMS Observation Summaries

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Introduction to Chapter 4

This chapter summarizes the NIMS C22 observations in terms of a comprehensive sequence summary, Individual Obstab Summaries and a NIMS Obstab (Observation Table).

The NIMS Sequence Summary is a time-ordered listing of all spacecraft activity pertinent to NIMS operations for the C22 Sequence. The information in this summary is derived from the C22 SEFs (Spacecraft Event File) and PBTs (Playback Tables) with inputs from the NIMS Science Coordinators regarding the start time and duration of the NIMS observations. There are twelve columns of information in this table:

1) Line - Line Count.
2) YR - Year.
3) DOY - Day of Year.
4) Time - SCET Time (UTC).
5) PSID - Parameter Set ID of the SEF line.
6) Command - Command name from the SEF.
7) Parameters - Parameters from the above Command Line.
8) Description - Description of the above Command for NIMS.
9) GCM - NIMS Gain, Chopper mode, Instrument Mode.
   Gain = 1,2,3 or 4.
   Chopper Mode = R (Reference) or 6 (63Hz).
   Instrement Mode = 0-15
10) GO - NIMS Grating Offset.
11) GS - NIMS Grating Start Position.
12) RIM,MF,I - SCLK of the Command Line (RIM:MF:RTI)

An additional line is inserted into this table at the start and stop times of each NIMS Observation (Oapel) to bracket the commands which affect each NIMS Observation. The NIMS Playback Select and DeSelect times are also inserted into this table to correlate the playback requests with the observations.

The Individual Obstab Summaries are expansions of the NIMS Obstab to one page per Obstab entry for ease in reading the NIMS Obstab.

The NIMS Obstab (Observation Table) is a time-ordered listing of the NIMS obsrvation parameters for use by downlink data processing of the NIMS C22 data. It is also derived from the C22 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

			Sequence:	C22AJD & DACs		Created: 7/27/99	Begin: 99-213/14:00:00 Finish: 99-226/22:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	99	223	13:59:59.800		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,121,617:09:0
2	**99**	**223**	**14:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**5,121,617:09:3**
3	**99**	**223**	**14:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**5,121,617:09:3**
4	**99**	**223**	**14:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,121,617:09:3**
5	**99**	**223**	**14:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**5,121,617:09:3**
6	**99**	**223**	**14:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,121,617:09:3**
7	**99**	**223**	**14:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,121,617:09:3**
8	**99**	**223**	**14:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,121,617:09:3**
9	**99**	**223**	**14:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,121,617:09:3**
10	**99**	**223**	**14:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,121,617:09:3**
11	99	223	14:00:59.800	20OA6A	6HICON			4O0	4	0	5,121,618:08:0
12	99	223	14:01:34.466	488AA6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	5,121,618:60:0
13	**99**	**223**	**14:01:53.800**	**432JA6B**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4O0**	**4**	**0**	**5,121,618:89:0**
14	99	223	14:01:54.466	432JA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	5,121,618:90:0
15	99	223	14:01:55.133	432JA6C	6RTSL1		R/T Select of DDS and	4O0	4	0	5,121,619:00:0
16	**99**	**223**	**14:01:55.133**	**432JA6D**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**4O0**	**4**	**0**	**5,121,619:00:0**
17	99	223	14:13:55.133	465KA6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4O0	4	0	5,121,630:79:0
18	99	223	14:13:55.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,121,630:79:0
19	99	223	14:14:01.800		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,121,630:89:0
20	99	223	14:14:03.200		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	4O0	4	0	5,121,631:00:1
21	99	223	14:14:03.200		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	5,121,631:00:1
22	**99**	**223**	**14:45:27.733**	**22NNJUPRTS01-**		**-----START------**		**4O0**	**4**	**0**	**: :**
23	**99**	**223**	**14:46:39.133**	**20DB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**260**	**4**	**0**	**5,121,663:22:0**
24	**99**	**223**	**14:46:40.466**	**20DB5B**	**37MRL**		**Memory Realocate (software operates from R**	**260**	**4**	**0**	**5,121,663:24:0**
25	**99**	**223**	**14:46:42.466**	**20DB6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**260**	**4**	**0**	**5,121,663:27:0**
26	**99**	**223**	**14:46:52.466**	**20DB6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**260**	**4**	**0**	**5,121,663:42:0**
27	**99**	**223**	**14:47:05.800**	**20DB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,121,663:62:0**
28	**99**	**223**	**14:47:09.133**	**20DB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,121,663:67:0**
29	**99**	**223**	**14:47:40.466**	**20DB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,121,664:23:0**
30	**99**	**223**	**14:48:29.733**	**22NNJUPRTS01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
31	**99**	**223**	**14:49:21.800**	**125DB4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**5,121,665:84:0**
32	99	223	14:49:21.800	125DB	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	5,121,665:84:0
33	99	223	14:49:25.800	165DB4A	**7SCAN**	**NORM,254.679998,**	**Check S/P Position**	4R0	4	0	5,121,665:90:0
34	**99**	**223**	**14:49:30.400**	**22JNJUPRTS01***		**-----START------**		**4R0**	**4**	**0**	**: :**
35	**99**	**223**	**14:50:22.466**	**125DB4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**5,121,666:84:0**
36	99	223	14:50:22.466	125DB11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	5,121,666:84:0
37	**99**	**223**	**14:51:23.133**	**127DB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,121,667:84:0**
38	99	223	14:51:23.133	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,121,667:84:0
39	**99**	**223**	**14:51:23.800**	**127DB4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,121,667:85:0**
40	99	223	14:51:31.800	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,121,668:06:0
41	**99**	**223**	**14:52:23.133**	**DAC**	**37ETB**	**10,CA,18,00,07,1**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,121,668:83:0**
42	**99**	**223**	**14:52:32.466**	**432DB6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**5,121,669:06:0**
43	99	223	14:53:19.800	117DB	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,121,669:77:0
44	**99**	**223**	**14:53:23.800**	**DAC**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**5,121,669:83:0**
45	99	223	14:53:29.133	117DB105A106A4A	**7STRP**	**-0.072527,0.0,0,**	**Slew =,0.06**	4R3	4	0	5,121,670:00:0
46	99	223	15:03:26.466	488AA6B	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	5,121,679:77:0
47	99	223	15:04:14.466	488AA6C	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	4R3	4	0	5,121,680:58:0
48	**99**	**223**	**15:12:44.466**	**432DX6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**5,121,689:04:0**
49	99	223	15:13:42.466	117DB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,121,690:00:0
50	**99**	**223**	**15:15:47.733**	**22JNJUPRTS01***		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
51	99	223	15:19:43.133		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *1125.66 +/-	4R3	4	0	5,121,695:86:0
52	99	223	15:19:43.133	465KA6B	6DMSC	RDY,1	DMS Control Tape stop	4R3	4	0	5,121,695:86:0
53	99	223	15:19:44.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1125.72 +/-	4R3	4	0	5,121,695:87:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	99	223	15:22:48.466	465KB6A	6DMSC	RDY,2	DMS Control Tape stop	4R3	4	0	5,121,699:00:0	
55	99	223	15:22:48.466		DMS:	: READY	RDY, TRACK *2, *REV, TIC 1125.72 +/-	4R3	4	0	5,121,699:00:0	
56	99	223	15:29:57.133	41SA99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	4R3	4	0	5,121,706:06:0	
57	**99**	**223**	**15:30:01.133**	**41SA3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**5,121,706:12:0**	
58	**99**	**223**	**15:30:11.133**	**41SA3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**5,121,706:27:0**	
59	**99**	**223**	**15:30:21.133**	**41SA3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**5,121,706:42:0**	
60	**99**	**223**	**15:30:31.133**	**41SA3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**5,121,706:57:0**	
61	99	223	15:31:04.466	488AA6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	5,121,707:16:0	
62	99	223	15:41:51.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1125.72 +/-	4R3	4	0	5,121,717:77:0	
63	99	223	15:41:51.800	175ZQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	5,121,717:77:0	
64	99	223	15:41:53.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1125.84 +/-	4R3	4	0	5,121,717:79:1	
65	99	223	15:41:58.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1127.08 +/-	4R3	4	0	5,121,717:87:0	
66	99	223	15:41:59.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1127.14 +/-	4R3	4	0	5,121,717:88:8	
67	99	223	15:42:00.466	175ZQ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	5,121,717:90:0	
68	99	223	15:42:01.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 1127.02 +/-	4R3	4	0	5,121,717:90:9	
69	99	223	15:42:01.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1127.02 +/-	4R3	4	0	5,121,717:90:9	
70	99	223	15:47:17.800	175ZQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,121,723:20:0	
71	99	223	15:47:17.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1052.78 +/-	4R3	4	0	5,121,723:20:0	
72	99	223	15:47:19.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1052.72 +/-	4R3	4	0	5,121,723:21:8	
73	99	223	15:50:10.466	41SB99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4R3	4	0	5,121,726:06:0	
74	**99**	**223**	**15:50:14.466**	**41SB3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**5,121,726:12:0**	
75	**99**	**223**	**15:50:24.466**	**41SB3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**5,121,726:27:0**	
76	**99**	**223**	**15:50:34.466**	**41SB3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**5,121,726:42:0**	
77	**99**	**223**	**15:50:44.466**	**41SB3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**5,121,726:57:0**	
78	99	223	16:15:23.133	192GA4A	**7CONE**	**9.0,0.0**	Check S/P Position	4R3	4	0	5,121,751:00:0	
79	99	223	16:22:27.800	176GA6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	5,121,758:00:0	
80	99	223	16:24:42.466	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	5,121,760:20:0	
81	99	223	16:24:44.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1052.72 +/-	4R3	4	0	5,121,760:23:0	
82	99	223	16:24:44.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	5,121,760:23:0	
83	99	223	16:24:45.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1052.84 +/-	4R3	4	0	5,121,760:25:1	
84	99	223	16:24:51.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1054.08 +/-	4R3	4	0	5,121,760:33:0	
85	99	223	16:24:52.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1054.14 +/-	4R3	4	0	5,121,760:34:8	
86	99	223	16:24:53.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1054.02 +/-	4R3	4	0	5,121,760:36:9	
87	99	223	16:24:54.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1053.85 +/-	4R3	4	0	5,121,760:38:0	
88	99	223	16:25:05.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,121,760:55:0	
89	99	223	16:25:05.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1051.19 +/-	4R3	4	0	5,121,760:55:0	
90	99	223	16:25:07.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1051.13 +/-	4R3	4	0	5,121,760:56:8	
91	99	223	16:27:31.133	192GA4B	**7CONE**	**9.0,90.0**	Check S/P Position	4R3	4	0	5,121,763:00:0	
92	99	223	17:59:29.066	176DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	5,121,853:87:0	
93	99	223	18:29:59.733	480SA6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	4R3	4	0	5,121,884:12:0	
94	99	223	18:36:39.733	480SA6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	4R3	4	0	5,121,890:66:0	
95	**99**	**223**	**19:16:26.400**	**22NNJUPRTS02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
96	**99**	**223**	**19:16:37.066**	**20DC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**5,121,930:22:0**	
97	**99**	**223**	**19:16:38.400**	**20DC5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**5,121,930:24:0**	
98	**99**	**223**	**19:16:40.400**	**20DC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**5,121,930:27:0**	
99	**99**	**223**	**19:16:50.400**	**20DC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**5,121,930:42:0**	
100	**99**	**223**	**19:17:03.733**	**20DC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,121,930:62:0**	
101	**99**	**223**	**19:17:07.066**	**20DC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,121,930:67:0**	
102	**99**	**223**	**19:17:38.400**	**20DC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,121,931:23:0**	
103	99	223	19:19:19.733	125DC	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,121,932:84:0	
104	**99**	**223**	**19:19:19.733**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,121,932:84:0**	
105	**99**	**223**	**19:19:28.400**	**22JNJUPRTS02***		**-----START------**		**2R0**	**4**	**0**	**: :**	
106	**99**	**223**	**19:19:28.400**	**22NNJUPRTS02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
107	**99**	**223**	**19:20:20.400**	**125DC4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**5,121,933:84:0**	
108	99	223	19:20:20.400	125DC11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	5,121,933:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	99	223	19:21:21.066	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,121,934:84:0
110	**99**	**223**	**19:21:21.066**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,121,934:84:0**
111	**99**	**223**	**19:21:21.733**	**127DC4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,121,934:85:0**
112	99	223	19:21:29.733	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,121,935:06:0
113	99	223	19:22:25.733	165DC4A	**7SCAN**	**NORM,261.238998,**	**Check S/P Position**	2R3	4	0	5,121,935:90:0
114	**99**	**223**	**19:25:32.400**	**432DC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**5,121,939:06:0**
115	99	223	19:26:19.733	117DC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,121,939:77:0
116	99	223	19:26:29.066	117DC105A106A4A	**7STRP**	**-0.022904,0.0,0,**	**Slew =,0.06**	2R3	4	0	5,121,940:00:0
117	99	223	19:32:53.066	117DC105A106A4B	**7STRP**	**0.028007,-0.0120**	**Slew =12.01**	2R3	4	0	5,121,946:30:0
118	99	223	19:33:01.066	117DC105A106A4C	**7STRP**	**-0.022904,0.0,0,**	**Slew =,0.06**	2R3	4	0	5,121,946:42:0
119	99	223	19:39:25.066	117DC105A106A4D	**7STRP**	**0.028007,-0.0120**	**Slew =12.01**	2R3	4	0	5,121,952:72:0
120	99	223	19:39:33.066	117DC105A106A4E	**7STRP**	**-0.022904,0.0,0,**	**Slew =,0.06**	2R3	4	0	5,121,952:84:0
121	**99**	**223**	**19:45:44.400**	**432DY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**5,121,959:04:0**
122	**99**	**223**	**19:45:45.733**	**22JNJUPRTS02***		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
123	99	223	19:45:57.066	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,121,959:23:0
124	99	223	19:48:43.066	165GB4A	7SCAN	NORM,269.507,-25	Check S/P Position	2R3	4	0	5,121,961:90:0
125	99	223	19:51:45.733	176GB6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	5,121,965:00:0
126	99	223	19:52:37.066	117GB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,121,965:77:0
127	99	223	19:52:46.400	117GB105A106A4A	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,966:00:0
128	99	223	19:54:19.066	117GB105A106A4B	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,967:48:0
129	99	223	19:54:30.400	117GB105A106A4C	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,967:65:0
130	99	223	19:56:03.066	117GB105A106A4D	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,969:22:0
131	99	223	19:56:14.400	117GB105A106A4E	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,969:39:0
132	99	223	19:57:47.066	117GB105A106A4F	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,970:87:0
133	99	223	19:57:58.400	117GB105A106A4G	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,971:13:0
134	99	223	19:59:31.066	117GB105A106A4H	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,972:61:0
135	99	223	19:59:42.400	117GB105A106A4I	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,972:78:0
136	99	223	20:01:15.066	117GB105A106A4J	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,974:35:0
137	99	223	20:01:26.400	117GB105A106A4K	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,974:52:0
138	99	223	20:02:59.066	117GB105A106A4L	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,976:09:0
139	99	223	20:03:10.400	117GB105A106A4M	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,976:26:0
140	99	223	20:04:43.066	117GB105A106A4N	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,977:74:0
141	99	223	20:04:54.400	117GB105A106A4O	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,978:00:0
142	99	223	20:05:39.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,121,978:68:0
143	99	223	20:05:39.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1051.13 +/-	2R3	4	0	5,121,978:68:0
144	99	223	20:05:41.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1051.25 +/-	2R3	4	0	5,121,978:70:1
145	99	223	20:05:46.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1052.49 +/-	2R3	4	0	5,121,978:78:0
146	99	223	20:05:47.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1052.55 +/-	2R3	4	0	5,121,978:79:8
147	99	223	20:05:49.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1052.43 +/-	2R3	4	0	5,121,978:81:9
148	99	223	20:06:07.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1048.03 +/-	2R3	4	0	5,121,979:19:0
149	99	223	20:06:27.066	117GB105A106A4P	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,979:48:0
150	99	223	20:06:30.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1042.72 +/-	2R3	4	0	5,121,979:53:0
151	99	223	20:06:30.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,121,979:53:0
152	99	223	20:06:31.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1042.66 +/-	2R3	4	0	5,121,979:54:8
153	99	223	20:06:38.400	117GB105A106A4Q	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,979:65:0
154	99	223	20:08:11.066	117GB105A106A4R	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,981:22:0
155	99	223	20:08:22.400	117GB105A106A4S	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,981:39:0
156	99	223	20:09:55.066	117GB105A106A4T	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,982:87:0
157	99	223	20:10:06.400	117GB105A106A4U	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,983:13:0
158	99	223	20:11:39.066	117GB105A106A4V	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,984:61:0
159	99	223	20:11:50.400	117GB105A106A4W	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,984:78:0
160	99	223	20:13:23.066	117GB105A106A4X	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,986:35:0
161	99	223	20:13:34.400	117GB105A106A4Y	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,986:52:0
162	99	223	20:15:07.066	117GB105A106A4Z	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,988:09:0
163	99	223	20:15:18.400	117GB105A106A4AA	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,988:26:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	99	223	20:16:51.066	117GB105A106A4AB	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,989:74:0	
165	99	223	20:17:02.400	117GB105A106A4AC	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,990:00:0	
166	99	223	20:18:35.066	117GB105A106A4AD	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,991:48:0	
167	99	223	20:18:46.400	117GB105A106A4AE	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,991:65:0	
168	99	223	20:20:03.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1042.66 +/-	2R3	4	0	5,121,992:90:0	
169	99	223	20:20:03.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,121,992:90:0	
170	99	223	20:20:05.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1042.78 +/-	2R3	4	0	5,121,993:01:1	
171	99	223	20:20:10.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1044.02 +/-	2R3	4	0	5,121,993:09:0	
172	99	223	20:20:11.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1044.08 +/-	2R3	4	0	5,121,993:10:8	
173	99	223	20:20:13.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1043.96 +/-	2R3	4	0	5,121,993:12:9	
174	99	223	20:20:19.066	117GB105A106A4AF	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,993:22:0	
175	99	223	20:20:30.400	117GB105A106A4AG	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,993:39:0	
176	99	223	20:20:31.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1039.57 +/-	2R3	4	0	5,121,993:41:0	
177	99	223	20:20:54.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1034.25 +/-	2R3	4	0	5,121,993:75:0	
178	99	223	20:20:54.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,121,993:75:0	
179	99	223	20:20:55.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1034.19 +/-	2R3	4	0	5,121,993:76:8	
180	99	223	20:22:03.066	117GB105A106A4AH	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,994:87:0	
181	99	223	20:22:14.400	117GB105A106A4AI	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,995:13:0	
182	99	223	20:23:47.066	117GB105A106A4AJ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,996:61:0	
183	99	223	20:23:58.400	117GB105A106A4AK	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,996:78:0	
184	99	223	20:25:31.066	117GB105A106A4AL	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,998:35:0	
185	99	223	20:25:42.400	117GB105A106A4AM	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,998:52:0	
186	99	223	20:27:15.066	117GB105A106A4AN	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,000:09:0	
187	99	223	20:27:26.400	117GB105A106A4AO	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,000:26:0	
188	99	223	20:28:59.066	117GB105A106A4AP	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,001:74:0	
189	99	223	20:29:10.400	117GB105A106A4AQ	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,002:00:0	
190	99	223	20:30:43.066	117GB105A106A4AR	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,003:48:0	
191	99	223	20:30:54.400	117GB105A106A4AS	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,003:65:0	
192	99	223	20:32:27.066	117GB105A106A4AT	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,005:22:0	
193	99	223	20:32:38.400	117GB105A106A4AU	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,005:39:0	
194	99	223	20:34:11.066	117GB105A106A4AV	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,006:87:0	
195	99	223	20:34:22.400	117GB105A106A4AW	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,007:13:0	
196	99	223	20:34:28.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1034.19 +/-	2R3	4	0	5,122,007:22:0	
197	99	223	20:34:28.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,007:22:0	
198	99	223	20:34:29.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1034.31 +/-	2R3	4	0	5,122,007:24:1	
199	99	223	20:34:35.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1035.55 +/-	2R3	4	0	5,122,007:32:0	
200	99	223	20:34:36.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1035.61 +/-	2R3	4	0	5,122,007:33:8	
201	99	223	20:34:37.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1035.49 +/-	2R3	4	0	5,122,007:35:9	
202	99	223	20:34:56.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1031.10 +/-	2R3	4	0	5,122,007:64:0	
203	99	223	20:35:19.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1025.78 +/-	2R3	4	0	5,122,008:07:0	
204	99	223	20:35:19.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,008:07:0	
205	99	223	20:35:20.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1025.72 +/-	2R3	4	0	5,122,008:08:8	
206	99	223	20:35:55.066	117GB105A106A4AX	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,008:61:0	
207	99	223	20:36:06.400	117GB105A106A4AY	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,008:78:0	
208	99	223	20:37:39.066	117GB105A106A4AZ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,010:35:0	
209	99	223	20:37:50.400	117GB105A106A4BA	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,010:52:0	
210	99	223	20:39:23.066	117GB105A106A4BB	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,012:09:0	
211	99	223	20:39:34.400	117GB105A106A4BC	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,012:26:0	
212	99	223	20:41:07.066	117GB105A106A4BD	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,013:74:0	
213	99	223	20:41:18.400	117GB105A106A4BE	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,014:00:0	
214	99	223	20:42:51.066	117GB105A106A4BF	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,015:48:0	
215	99	223	20:43:02.400	117GB105A106A4BG	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,015:65:0	
216	99	223	20:44:35.066	117GB105A106A4BH	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,017:22:0	
217	99	223	20:44:46.400	117GB105A106A4BI	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,017:39:0	
218	99	223	20:46:19.066	117GB105A106A4BJ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,018:87:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	99	223	20:46:30.400	117GB105A106A4BK	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,019:13:0	
220	99	223	20:48:03.066	117GB105A106A4BL	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,020:61:0	
221	99	223	20:48:14.400	117GB105A106A4BM	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,020:78:0	
222	99	223	20:48:53.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1025.72 +/-	2R3	4	0	5,122,021:45:0	
223	99	223	20:48:53.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,021:45:0	
224	99	223	20:48:54.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1025.84 +/-	2R3	4	0	5,122,021:47:1	
225	99	223	20:48:59.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1027.08 +/-	2R3	4	0	5,122,021:55:0	
226	99	223	20:49:00.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1027.14 +/-	2R3	4	0	5,122,021:56:8	
227	99	223	20:49:02.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1027.02 +/-	2R3	4	0	5,122,021:58:9	
228	99	223	20:49:21.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1022.63 +/-	2R3	4	0	5,122,021:87:0	
229	99	223	20:49:43.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1017.32 +/-	2R3	4	0	5,122,022:30:0	
230	99	223	20:49:43.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,022:30:0	
231	99	223	20:49:44.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1017.26 +/-	2R3	4	0	5,122,022:31:8	
232	99	223	20:49:47.066	117GB105A106A4BN	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,022:35:0	
233	99	223	20:49:58.400	117GB105A106A4BO	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,022:52:0	
234	99	223	20:51:31.066	117GB105A106A4BP	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,024:09:0	
235	99	223	20:51:42.400	117GB105A106A4BQ	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,024:26:0	
236	99	223	20:53:15.066	117GB105A106A4BR	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,025:74:0	
237	99	223	20:53:26.400	117GB105A106A4BS	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,026:00:0	
238	99	223	20:54:59.066	117GB105A106A4BT	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,027:48:0	
239	99	223	20:55:10.400	117GB105A106A4BU	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,027:65:0	
240	99	223	20:56:43.066	117GB105A106A4BV	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,029:22:0	
241	99	223	20:56:54.400	117GB105A106A4BW	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,029:39:0	
242	99	223	20:58:27.066	117GB105A106A4BX	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,030:87:0	
243	99	223	20:58:38.400	117GB105A106A4BY	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,031:13:0	
244	99	223	21:00:11.066	117GB105A106A4BZ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,032:61:0	
245	99	223	21:00:22.400	117GB105A106A4CA	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,032:78:0	
246	99	223	21:01:55.066	117GB105A106A4CB	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,034:35:0	
247	99	223	21:02:06.400	117GB105A106A4CC	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,034:52:0	
248	99	223	21:03:17.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1017.26 +/-	2R3	4	0	5,122,035:68:0	
249	99	223	21:03:17.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,035:68:0	
250	99	223	21:03:19.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1017.38 +/-	2R3	4	0	5,122,035:70:1	
251	99	223	21:03:24.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1018.61 +/-	2R3	4	0	5,122,035:78:0	
252	99	223	21:03:25.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1018.67 +/-	2R3	4	0	5,122,035:79:8	
253	99	223	21:03:27.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1018.55 +/-	2R3	4	0	5,122,035:81:9	
254	99	223	21:03:39.066	117GB105A106A4CD	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,036:09:0	
255	99	223	21:03:45.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1014.16 +/-	2R3	4	0	5,122,036:19:0	
256	99	223	21:03:50.400	117GB105A106A4CE	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,036:26:0	
257	99	223	21:04:08.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1008.85 +/-	2R3	4	0	5,122,036:53:0	
258	99	223	21:04:08.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,036:53:0	
259	99	223	21:04:09.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1008.79 +/-	2R3	4	0	5,122,036:54:8	
260	99	223	21:05:23.066	117GB105A106A4CF	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,037:74:0	
261	99	223	21:05:34.400	117GB105A106A4CG	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,038:00:0	
262	99	223	21:07:07.066	117GB105A106A4CH	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,039:48:0	
263	99	223	21:07:18.400	117GB105A106A4CI	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,039:65:0	
264	99	223	21:08:51.066	117GB105A106A4CJ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,041:22:0	
265	99	223	21:09:02.400	117GB105A106A4CK	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,041:39:0	
266	99	223	21:10:35.066	117GB105A106A4CL	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,042:87:0	
267	99	223	21:10:46.400	117GB105A106A4CM	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,043:13:0	
268	99	223	21:12:19.066	117GB105A106A4CN	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,044:61:0	
269	99	223	21:12:30.400	117GB105A106A4CO	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,044:78:0	
270	99	223	21:14:03.066	117GB105A106A4CP	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,046:35:0	
271	99	223	21:14:14.400	117GB105A106A4CQ	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,046:52:0	
272	99	223	21:15:47.066	117GB105A106A4CR	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,048:09:0	
273	99	223	21:15:58.400	117GB105A106A4CS	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,048:26:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	99	223	21:17:31.066	117GB105A106A4CT	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,049:74:0	
275	99	223	21:17:42.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1008.79 +/-	2R3	4	0	5,122,050:00:0	
276	99	223	21:17:42.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,050:00:0	
277	99	223	21:17:42.400	117GB105A106A4CU	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,050:00:0	
278	99	223	21:17:43.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1008.91 +/-	2R3	4	0	5,122,050:02:1	
279	99	223	21:17:49.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1010.14 +/-	2R3	4	0	5,122,050:10:0	
280	99	223	21:17:50.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1010.20 +/-	2R3	4	0	5,122,050:11:8	
281	99	223	21:17:51.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1010.08 +/-	2R3	4	0	5,122,050:13:9	
282	99	223	21:18:10.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1005.69 +/-	2R3	4	0	5,122,050:42:0	
283	99	223	21:18:33.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1000.38 +/-	2R3	4	0	5,122,050:76:0	
284	99	223	21:18:33.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,050:76:0	
285	99	223	21:18:34.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1000.32 +/-	2R3	4	0	5,122,050:77:8	
286	99	223	21:19:15.066	117GB105A106A4CV	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,051:48:0	
287	99	223	21:19:26.400	117GB105A106A4CW	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,051:65:0	
288	99	223	21:20:59.066	117GB105A106A4CX	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,053:22:0	
289	99	223	21:21:10.400	117GB105A106A4CY	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,053:39:0	
290	99	223	21:22:43.066	117GB105A106A4CZ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,054:87:0	
291	99	223	21:22:54.400	117GB105A106A4DA	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,055:13:0	
292	99	223	21:24:27.066	117GB105A106A4DB	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,056:61:0	
293	99	223	21:24:38.400	117GB105A106A4DC	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,056:78:0	
294	99	223	21:26:11.066	117GB105A106A4DD	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,058:35:0	
295	99	223	21:26:22.400	117GB105A106A4DE	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,058:52:0	
296	99	223	21:27:55.066	117GB105A106A4DF	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,060:09:0	
297	99	223	21:28:06.400	117GB105A106A4DG	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,060:26:0	
298	99	223	21:29:39.066	117GB105A106A4DH	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,061:74:0	
299	99	223	21:29:50.400	117GB105A106A4DI	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,062:00:0	
300	99	223	21:31:23.066	117GB105A106A4DJ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,063:48:0	
301	99	223	21:31:34.400	117GB105A106A4DK	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,063:65:0	
302	99	223	21:32:06.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1000.32 +/-	2R3	4	0	5,122,064:22:0	
303	99	223	21:32:06.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,064:22:0	
304	99	223	21:32:07.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1000.44 +/-	2R3	4	0	5,122,064:24:1	
305	99	223	21:32:13.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1001.67 +/-	2R3	4	0	5,122,064:32:0	
306	99	223	21:32:14.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1001.73 +/-	2R3	4	0	5,122,064:33:8	
307	99	223	21:32:15.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1001.61 +/-	2R3	4	0	5,122,064:35:9	
308	99	223	21:32:34.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 997.22 +/-	2R3	4	0	5,122,064:64:0	
309	99	223	21:32:57.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,065:07:0	
310	99	223	21:32:57.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 991.91 +/-	2R3	4	0	5,122,065:07:0	
311	99	223	21:32:58.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 991.85 +/-	2R3	4	0	5,122,065:08:8	
312	99	223	21:33:07.066	117GB105A106A4DL	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,065:22:0	
313	99	223	21:33:18.400	117GB105A106A4DM	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,065:39:0	
314	99	223	21:34:51.066	117GB105A106A4DN	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,066:87:0	
315	99	223	21:35:02.400	117GB105A106A4DO	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,067:13:0	
316	99	223	21:35:58.400	488AB6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,068:06:0	
317	99	223	21:36:35.066	117GB105A106A4DP	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,068:61:0	
318	99	223	21:36:46.400	117GB105A106A4DQ	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,068:78:0	
319	99	223	21:38:19.066	117GB105A106A4DR	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,070:35:0	
320	99	223	21:38:30.400	117GB105A106A4DS	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,070:52:0	
321	99	223	21:40:03.066	117GB105A106A4DT	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,072:09:0	
322	99	223	21:40:14.400	117GB105A106A4DU	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,072:26:0	
323	99	223	21:41:47.066	117GB105A106A4DV	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,073:74:0	
324	99	223	21:41:58.400	117GB105A106A4DW	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,074:00:0	
325	99	223	21:43:31.066	117GB105A106A4DX	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,075:48:0	
326	99	223	21:43:42.400	117GB105A106A4DY	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,075:65:0	
327	99	223	21:45:15.066	117GB105A106A4DZ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,077:22:0	
328	99	223	21:45:26.400	117GB105A106A4EA	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,077:39:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	99	223	21:46:31.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 991.85 +/-	2R3	4	0	5,122,078:45:0	
330	99	223	21:46:31.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,078:45:0	
331	99	223	21:46:32.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 991.97 +/-	2R3	4	0	5,122,078:47:1	
332	99	223	21:46:37.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 993.20 +/-	2R3	4	0	5,122,078:55:0	
333	99	223	21:46:38.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 993.26 +/-	2R3	4	0	5,122,078:56:8	
334	99	223	21:46:40.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 993.14 +/-	2R3	4	0	5,122,078:58:9	
335	99	223	21:46:59.066	117GB105A106A4EB	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,078:87:0	
336	99	223	21:46:59.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 988.75 +/-	2R3	4	0	5,122,078:87:0	
337	99	223	21:47:10.400	117GB105A106A4EC	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,079:13:0	
338	99	223	21:47:21.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 983.44 +/-	2R3	4	0	5,122,079:30:0	
339	99	223	21:47:21.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,079:30:0	
340	99	223	21:47:22.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 983.38 +/-	2R3	4	0	5,122,079:31:8	
341	99	223	21:48:43.066	117GB105A106A4ED	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,080:61:0	
342	99	223	21:48:54.400	117GB105A106A4EE	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,080:78:0	
343	99	223	21:50:27.066	117GB105A106A4EF	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,082:35:0	
344	99	223	21:50:38.400	117GB105A106A4EG	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,082:52:0	
345	99	223	21:52:11.066	117GB105A106A4EH	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,084:09:0	
346	99	223	21:52:22.400	117GB105A106A4EI	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,084:26:0	
347	99	223	21:53:55.066	117GB105A106A4EJ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,085:74:0	
348	99	223	21:54:06.400	117GB105A106A4EK	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,086:00:0	
349	99	223	21:55:39.066	117GB105A106A4EL	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,087:48:0	
350	99	223	21:55:50.400	117GB105A106A4EM	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,087:65:0	
351	99	223	21:57:23.066	117GB105A106A4EN	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,089:22:0	
352	99	223	21:57:34.400	117GB105A106A4EO	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,089:39:0	
353	99	223	21:59:07.066	117GB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,122,090:87:0	
354	99	223	21:59:39.733	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,122,091:45:0	
355	99	223	21:59:41.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 983.38 +/-	2R3	4	0	5,122,091:48:0	
356	99	223	21:59:41.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,091:48:0	
357	99	223	21:59:43.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 983.50 +/-	2R3	4	0	5,122,091:50:1	
358	99	223	21:59:48.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 984.74 +/-	2R3	4	0	5,122,091:58:0	
359	99	223	21:59:49.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 984.80 +/-	2R3	4	0	5,122,091:59:8	
360	99	223	21:59:51.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 984.68 +/-	2R3	4	0	5,122,091:61:9	
361	99	223	21:59:51.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 984.50 +/-	2R3	4	0	5,122,091:63:0	
362	99	223	22:00:12.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 979.66 +/-	2R3	4	0	5,122,092:03:0	
363	99	223	22:00:12.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,092:03:0	
364	99	223	22:00:13.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 979.60 +/-	2R3	4	0	5,122,092:04:8	
365	99	223	22:39:58.400	488AB6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	5,122,131:33:0	
366	99	223	22:40:36.400	165GC4A	7SCAN	NORM,275.556999,	Check S/P Position	2R3	4	0	5,122,131:90:0	
367	99	223	22:43:39.066	176GC6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	5,122,135:00:0	
368	99	223	22:44:30.400	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,122,135:77:0	
369	99	223	22:44:39.733	117GC105A106A4A	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,136:00:0	
370	99	223	22:45:59.733	117GC105A106A4B	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,137:29:0	
371	99	223	22:46:11.066	117GC105A106A4C	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,137:46:0	
372	99	223	22:47:31.066	117GC105A106A4D	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,138:75:0	
373	99	223	22:47:42.400	117GC105A106A4E	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,139:01:0	
374	99	223	22:49:02.400	117GC105A106A4F	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,140:30:0	
375	99	223	22:49:13.733	117GC105A106A4G	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,140:47:0	
376	99	223	22:50:33.733	117GC105A106A4H	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,141:76:0	
377	99	223	22:50:45.066	117GC105A106A4I	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,142:02:0	
378	99	223	22:52:05.066	117GC105A106A4J	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,143:31:0	
379	99	223	22:52:16.400	117GC105A106A4K	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,143:48:0	
380	99	223	22:53:36.400	117GC105A106A4L	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,144:77:0	
381	99	223	22:53:47.733	117GC105A106A4M	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,145:03:0	
382	99	223	22:55:07.733	117GC105A106A4N	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,146:32:0	
383	99	223	22:55:19.066	117GC105A106A4O	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,146:49:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	99	223	22:56:39.066	117GC105A106A4P	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,147	78:0
385	99	223	22:56:50.400	117GC105A106A4Q	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,148	04:0
386	99	223	22:57:33.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 979.60 +/-	2R3	4	0	5,122,148	68:0
387	99	223	22:57:33.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,148	68:0
388	99	223	22:57:34.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 979.72 +/-	2R3	4	0	5,122,148	70:1
389	99	223	22:57:39.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 980.95 +/-	2R3	4	0	5,122,148	78:0
390	99	223	22:57:40.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 981.01 +/-	2R3	4	0	5,122,148	79:8
391	99	223	22:57:42.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 980.89 +/-	2R3	4	0	5,122,148	81:9
392	99	223	22:58:01.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 976.50 +/-	2R3	4	0	5,122,149	19:0
393	99	223	22:58:10.400	117GC105A106A4R	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,149	33:0
394	99	223	22:58:21.733	117GC105A106A4S	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,149	50:0
395	99	223	22:58:23.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 971.19 +/-	2R3	4	0	5,122,149	53:0
396	99	223	22:58:23.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,149	53:0
397	99	223	22:58:24.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 971.13 +/-	2R3	4	0	5,122,149	54:8
398	99	223	22:59:41.733	117GC105A106A4T	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,150	79:0
399	99	223	22:59:53.066	117GC105A106A4U	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,151	05:0
400	99	223	22:59:59.733	481UA4A	7VECT		Inert vect update UTC	2R3	4	0	5,122,151	15:0
401	99	223	23:01:13.066	117GC105A106A4V	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,152	34:0
402	99	223	23:01:24.400	117GC105A106A4W	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,152	51:0
403	99	223	23:02:44.400	117GC105A106A4X	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,153	80:0
404	99	223	23:02:55.733	117GC105A106A4Y	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,154	06:0
405	99	223	23:04:15.733	117GC105A106A4Z	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,155	35:0
406	99	223	23:04:27.066	117GC105A106A4AA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,155	52:0
407	99	223	23:05:47.066	117GC105A106A4AB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,156	81:0
408	99	223	23:05:58.400	117GC105A106A4AC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,157	07:0
409	99	223	23:07:18.400	117GC105A106A4AD	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,158	36:0
410	99	223	23:07:29.733	117GC105A106A4AE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,158	53:0
411	99	223	23:08:49.733	117GC105A106A4AF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,159	82:0
412	99	223	23:09:01.066	117GC105A106A4AG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,160	08:0
413	99	223	23:10:21.066	117GC105A106A4AH	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,161	37:0
414	99	223	23:10:32.400	117GC105A106A4AI	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,161	54:0
415	99	223	23:11:52.400	117GC105A106A4AJ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,162	83:0
416	99	223	23:11:57.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 971.13 +/-	2R3	4	0	5,122,162	90:0
417	99	223	23:11:57.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,162	90:0
418	99	223	23:11:58.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 971.25 +/-	2R3	4	0	5,122,163	01:1
419	99	223	23:12:03.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 972.49 +/-	2R3	4	0	5,122,163	09:0
420	99	223	23:12:03.733	117GC105A106A4AK	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,163	09:0
421	99	223	23:12:04.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 972.55 +/-	2R3	4	0	5,122,163	10:8
422	99	223	23:12:06.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 972.43 +/-	2R3	4	0	5,122,163	12:9
423	99	223	23:12:25.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 968.03 +/-	2R3	4	0	5,122,163	41:0
424	99	223	23:12:47.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 962.72 +/-	2R3	4	0	5,122,163	75:0
425	99	223	23:12:47.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,163	75:0
426	99	223	23:12:48.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 962.66 +/-	2R3	4	0	5,122,163	76:8
427	99	223	23:13:23.733	117GC105A106A4AL	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,164	38:0
428	99	223	23:13:35.066	117GC105A106A4AM	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,164	55:0
429	99	223	23:14:55.066	117GC105A106A4AN	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,165	84:0
430	99	223	23:15:06.400	117GC105A106A4AO	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,166	10:0
431	99	223	23:16:26.400	117GC105A106A4AP	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,167	39:0
432	99	223	23:16:37.733	117GC105A106A4AQ	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,167	56:0
433	99	223	23:17:57.733	117GC105A106A4AR	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,168	85:0
434	99	223	23:18:09.066	117GC105A106A4AS	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,169	11:0
435	99	223	23:19:29.066	117GC105A106A4AT	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,170	40:0
436	99	223	23:19:40.400	117GC105A106A4AU	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,170	57:0
437	99	223	23:21:00.400	117GC105A106A4AV	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,171	86:0
438	99	223	23:21:11.733	117GC105A106A4AW	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,172	12:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	99	223	23:22:31.733	117GC105A106A4AX	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,173	41:0
440	99	223	23:22:43.066	117GC105A106A4AY	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,173	58:0
441	99	223	23:24:03.066	117GC105A106A4AZ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,174	87:0
442	99	223	23:24:14.400	117GC105A106A4BA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,175	13:0
443	99	223	23:25:34.400	117GC105A106A4BB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,176	42:0
444	99	223	23:25:45.733	117GC105A106A4BC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,176	59:0
445	99	223	23:26:21.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,177	22:0
446	99	223	23:26:21.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 962.66 +/-	2R3	4	0	5,122,177	22:0
447	99	223	23:26:23.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 962.78 +/-	2R3	4	0	5,122,177	24:1
448	99	223	23:26:28.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 964.02 +/-	2R3	4	0	5,122,177	32:0
449	99	223	23:26:29.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 964.08 +/-	2R3	4	0	5,122,177	33:8
450	99	223	23:26:31.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 963.96 +/-	2R3	4	0	5,122,177	35:9
451	99	223	23:26:49.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 959.57 +/-	2R3	4	0	5,122,177	64:0
452	99	223	23:26:54.400	488AB6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,177	71:0
453	99	223	23:27:05.733	117GC105A106A4BD	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,177	88:0
454	99	223	23:27:12.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 954.25 +/-	2R3	4	0	5,122,178	07:0
455	99	223	23:27:12.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,178	07:0
456	99	223	23:27:13.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 954.19 +/-	2R3	4	0	5,122,178	08:8
457	99	223	23:27:17.066	117GC105A106A4BE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,178	14:0
458	99	223	23:28:37.066	117GC105A106A4BF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,179	43:0
459	99	223	23:28:48.400	117GC105A106A4BG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,179	60:0
460	99	223	23:29:59.733	480SB6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	2R3	4	0	5,122,180	76:0
461	99	223	23:30:08.400	117GC105A106A4BH	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,180	89:0
462	99	223	23:30:19.733	117GC105A106A4BI	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,181	15:0
463	99	223	23:31:39.733	117GC105A106A4BJ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,182	44:0
464	99	223	23:31:51.066	117GC105A106A4BK	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,182	61:0
465	99	223	23:33:11.066	117GC105A106A4BL	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,183	90:0
466	99	223	23:33:22.400	117GC105A106A4BM	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,184	16:0
467	99	223	23:34:42.400	117GC105A106A4BN	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,185	45:0
468	99	223	23:34:53.733	117GC105A106A4BO	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,185	62:0
469	99	223	23:36:13.733	117GC105A106A4BP	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,187	00:0
470	99	223	23:36:25.066	117GC105A106A4BQ	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,187	17:0
471	99	223	23:36:39.733	480SB6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	2R3	4	0	5,122,187	39:0
472	99	223	23:37:45.066	117GC105A106A4BR	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,188	46:0
473	99	223	23:37:56.400	117GC105A106A4BS	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,188	63:0
474	99	223	23:39:16.400	117GC105A106A4BT	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,190	01:0
475	99	223	23:39:27.733	117GC105A106A4BU	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,190	18:0
476	99	223	23:40:46.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 954.19 +/-	2R3	4	0	5,122,191	45:0
477	99	223	23:40:46.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,191	45:0
478	99	223	23:40:47.733	117GC105A106A4BV	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,191	47:0
479	99	223	23:40:47.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 954.31 +/-	2R3	4	0	5,122,191	47:1
480	99	223	23:40:53.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 955.55 +/-	2R3	4	0	5,122,191	55:0
481	99	223	23:40:54.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 955.61 +/-	2R3	4	0	5,122,191	56:8
482	99	223	23:40:55.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 955.49 +/-	2R3	4	0	5,122,191	58:9
483	99	223	23:40:59.066	117GC105A106A4BW	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,191	64:0
484	99	223	23:41:14.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 951.10 +/-	2R3	4	0	5,122,191	87:0
485	99	223	23:41:37.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 945.78 +/-	2R3	4	0	5,122,192	30:0
486	99	223	23:41:37.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,192	30:0
487	99	223	23:41:38.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 945.72 +/-	2R3	4	0	5,122,192	31:8
488	99	223	23:42:19.066	117GC105A106A4BX	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,193	02:0
489	99	223	23:42:30.400	117GC105A106A4BY	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,193	19:0
490	99	223	23:43:50.400	117GC105A106A4BZ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,194	48:0
491	99	223	23:44:01.733	117GC105A106A4CA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,194	65:0
492	99	223	23:45:21.733	117GC105A106A4CB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,196	03:0
493	99	223	23:45:33.066	117GC105A106A4CC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,196	20:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	99	223	23:46:53.066	117GC105A106A4CD	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,197:49:0	
495	99	223	23:47:04.400	117GC105A106A4CE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,197:66:0	
496	99	223	23:48:24.400	117GC105A106A4CF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,199:04:0	
497	99	223	23:48:35.733	117GC105A106A4CG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,199:21:0	
498	99	223	23:49:55.733	117GC105A106A4CH	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,200:50:0	
499	99	223	23:50:07.066	117GC105A106A4CI	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,200:67:0	
500	99	223	23:51:27.066	117GC105A106A4CJ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,202:05:0	
501	99	223	23:51:38.400	117GC105A106A4CK	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,202:22:0	
502	99	223	23:52:58.400	117GC105A106A4CL	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,203:51:0	
503	99	223	23:53:09.733	117GC105A106A4CM	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,203:68:0	
504	99	223	23:54:29.733	117GC105A106A4CN	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,205:06:0	
505	99	223	23:54:41.066	117GC105A106A4CO	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,205:23:0	
506	99	223	23:55:11.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,205:68:0	
507	99	223	23:55:11.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 945.72 +/-	2R3	4	0	5,122,205:68:0	
508	99	223	23:55:12.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 945.84 +/-	2R3	4	0	5,122,205:70:1	
509	99	223	23:55:17.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 947.08 +/-	2R3	4	0	5,122,205:78:0	
510	99	223	23:55:18.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 947.14 +/-	2R3	4	0	5,122,205:79:8	
511	99	223	23:55:20.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 947.02 +/-	2R3	4	0	5,122,205:81:9	
512	99	223	23:55:39.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 942.63 +/-	2R3	4	0	5,122,206:19:0	
513	99	223	23:56:01.066	117GC105A106A4CP	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,206:52:0	
514	99	223	23:56:01.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 937.32 +/-	2R3	4	0	5,122,206:53:0	
515	99	223	23:56:01.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,206:53:0	
516	99	223	23:56:02.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 937.26 +/-	2R3	4	0	5,122,206:54:8	
517	99	223	23:56:12.400	117GC105A106A4CQ	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,206:69:0	
518	99	223	23:57:32.400	117GC105A106A4CR	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,208:07:0	
519	99	223	23:57:43.733	117GC105A106A4CS	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,208:24:0	
520	99	223	23:59:03.733	117GC105A106A4CT	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,209:53:0	
521	99	223	23:59:15.066	117GC105A106A4CU	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,209:70:0	
522	99	224	00:00:35.066	117GC105A106A4CV	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,211:08:0	
523	99	224	00:00:46.400	117GC105A106A4CW	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,211:25:0	
524	99	224	00:02:06.400	117GC105A106A4CX	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,212:54:0	
525	99	224	00:02:17.733	117GC105A106A4CY	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,212:71:0	
526	99	224	00:03:37.733	117GC105A106A4CZ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,214:09:0	
527	99	224	00:03:49.066	117GC105A106A4DA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,214:26:0	
528	99	224	00:05:09.066	117GC105A106A4DB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,215:55:0	
529	99	224	00:05:20.400	117GC105A106A4DC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,215:72:0	
530	99	224	00:06:40.400	117GC105A106A4DD	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,217:10:0	
531	99	224	00:06:51.733	117GC105A106A4DE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,217:27:0	
532	99	224	00:08:11.733	117GC105A106A4DF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,218:56:0	
533	99	224	00:08:23.066	117GC105A106A4DG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,218:73:0	
534	99	224	00:09:35.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,220:00:0	
535	99	224	00:09:35.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 937.26 +/-	2R3	4	0	5,122,220:00:0	
536	99	224	00:09:37.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 937.38 +/-	2R3	4	0	5,122,220:02:1	
537	99	224	00:09:42.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 938.61 +/-	2R3	4	0	5,122,220:10:0	
538	99	224	00:09:43.066	117GC105A106A4DH	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,220:11:0	
539	99	224	00:09:43.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 938.67 +/-	2R3	4	0	5,122,220:11:8	
540	99	224	00:09:45.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 938.55 +/-	2R3	4	0	5,122,220:13:9	
541	99	224	00:09:54.400	117GC105A106A4DI	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,220:28:0	
542	99	224	00:10:03.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 934.16 +/-	2R3	4	0	5,122,220:42:0	
543	99	224	00:10:26.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 928.85 +/-	2R3	4	0	5,122,220:76:0	
544	99	224	00:10:26.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,220:76:0	
545	99	224	00:10:27.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 928.79 +/-	2R3	4	0	5,122,220:77:8	
546	99	224	00:11:14.400	117GC105A106A4DJ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,221:57:0	
547	99	224	00:11:25.733	117GC105A106A4DK	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,221:74:0	
548	99	224	00:12:45.733	117GC105A106A4DL	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,223:12:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	99	224	00:12:57.066	117GC105A106A4DM	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,223:29:0	
550	99	224	00:14:17.066	117GC105A106A4DN	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,224:58:0	
551	99	224	00:14:28.400	117GC105A106A4DO	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,224:75:0	
552	99	224	00:15:48.400	117GC105A106A4DP	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,226:13:0	
553	99	224	00:15:59.733	117GC105A106A4DQ	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,226:30:0	
554	99	224	00:17:19.733	117GC105A106A4DR	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,227:59:0	
555	99	224	00:17:31.066	117GC105A106A4DS	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,227:76:0	
556	99	224	00:18:51.066	117GC105A106A4DT	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,229:14:0	
557	99	224	00:19:02.400	117GC105A106A4DU	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,229:31:0	
558	99	224	00:20:22.400	117GC105A106A4DV	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,230:60:0	
559	99	224	00:20:33.733	117GC105A106A4DW	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,230:77:0	
560	99	224	00:21:53.733	117GC105A106A4DX	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,232:15:0	
561	99	224	00:22:05.066	117GC105A106A4DY	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,232:32:0	
562	99	224	00:23:25.066	117GC105A106A4DZ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,233:61:0	
563	99	224	00:23:36.400	117GC105A106A4EA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,233:78:0	
564	99	224	00:23:59.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,234:22:0	
565	99	224	00:23:59.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 928.79 +/-	2R3	4	0	5,122,234:22:0	
566	99	224	00:24:01.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 928.91 +/-	2R3	4	0	5,122,234:24:1	
567	99	224	00:24:06.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 930.14 +/-	2R3	4	0	5,122,234:32:0	
568	99	224	00:24:07.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 930.20 +/-	2R3	4	0	5,122,234:33:8	
569	99	224	00:24:09.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 930.08 +/-	2R3	4	0	5,122,234:35:9	
570	99	224	00:24:27.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 925.69 +/-	2R3	4	0	5,122,234:64:0	
571	99	224	00:24:50.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 920.38 +/-	2R3	4	0	5,122,235:07:0	
572	99	224	00:24:50.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,235:07:0	
573	99	224	00:24:51.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 920.32 +/-	2R3	4	0	5,122,235:08:8	
574	99	224	00:24:56.400	117GC105A106A4EB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,235:16:0	
575	99	224	00:25:07.733	117GC105A106A4EC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,235:33:0	
576	99	224	00:26:27.733	117GC105A106A4ED	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,236:62:0	
577	99	224	00:26:39.066	117GC105A106A4EE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,236:79:0	
578	99	224	00:27:59.066	117GC105A106A4EF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,238:17:0	
579	99	224	00:28:10.400	117GC105A106A4EG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,238:34:0	
580	99	224	00:29:30.400	117GC105A106A4EH	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,239:63:0	
581	99	224	00:29:41.733	117GC105A106A4EI	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,239:80:0	
582	99	224	00:31:01.733	117GC105A106A4EJ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,241:18:0	
583	99	224	00:31:13.066	117GC105A106A4EK	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,241:35:0	
584	99	224	00:32:33.066	117GC105A106A4EL	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,242:64:0	
585	99	224	00:32:44.400	117GC105A106A4EM	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,242:81:0	
586	99	224	00:34:04.400	117GC105A106A4EN	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,244:19:0	
587	99	224	00:34:15.733	117GC105A106A4EO	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,244:36:0	
588	99	224	00:35:35.733	117GC105A106A4EP	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,245:65:0	
589	99	224	00:35:47.066	117GC105A106A4EQ	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,245:82:0	
590	99	224	00:37:07.066	117GC105A106A4ER	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,247:20:0	
591	99	224	00:37:18.400	117GC105A106A4ES	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,247:37:0	
592	99	224	00:38:24.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,248:45:0	
593	99	224	00:38:24.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 920.32 +/-	2R3	4	0	5,122,248:45:0	
594	99	224	00:38:25.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 920.44 +/-	2R3	4	0	5,122,248:47:1	
595	99	224	00:38:31.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 921.67 +/-	2R3	4	0	5,122,248:55:0	
596	99	224	00:38:32.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 921.73 +/-	2R3	4	0	5,122,248:56:8	
597	99	224	00:38:33.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 921.61 +/-	2R3	4	0	5,122,248:58:9	
598	99	224	00:38:38.400	117GC105A106A4ET	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,248:66:0	
599	99	224	00:38:49.733	117GC105A106A4EU	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,248:83:0	
600	99	224	00:38:52.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 917.22 +/-	2R3	4	0	5,122,248:87:0	
601	99	224	00:39:15.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,249:30:0	
602	99	224	00:39:15.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 911.91 +/-	2R3	4	0	5,122,249:30:0	
603	99	224	00:39:16.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 911.85 +/-	2R3	4	0	5,122,249:31:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	99	224	00:40:09.733	117GC105A106A4EV	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,250	21:0
605	99	224	00:40:21.066	117GC105A106A4EW	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,250	38:0
606	99	224	00:41:41.066	117GC105A106A4EX	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,251	67:0
607	99	224	00:41:52.400	117GC105A106A4EY	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,251	84:0
608	99	224	00:43:12.400	117GC105A106A4EZ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,253	22:0
609	99	224	00:43:23.733	117GC105A106A4FA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,253	39:0
610	99	224	00:44:43.733	117GC105A106A4FB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,254	68:0
611	99	224	00:44:55.066	117GC105A106A4FC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,254	85:0
612	99	224	00:46:15.066	117GC105A106A4FD	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,256	23:0
613	99	224	00:46:26.400	117GC105A106A4FE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,256	40:0
614	**99**	**224**	**00:47:04.400**	**22NNHOTMAP01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
615	99	224	00:47:46.400	117GC105A106A4FF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,257	69:0
616	99	224	00:47:57.733	117GC105A106A4FG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,257	86:0
617	**99**	**224**	**00:48:19.066**	**20DD5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,122,258**	**27:0**
618	**99**	**224**	**00:48:20.400**	**20DD5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,122,258**	**29:0**
619	**99**	**224**	**00:48:21.733**	**20DD6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,122,258**	**31:0**
620	**99**	**224**	**00:48:31.733**	**20DD6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,122,258**	**46:0**
621	**99**	**224**	**00:48:41.733**	**20DD5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,122,258**	**61:0**
622	**99**	**224**	**00:49:01.733**	**20DD5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,122,259**	**00:0**
623	**99**	**224**	**00:49:17.066**	**20DD4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,122,259**	**23:0**
624	99	224	00:49:17.733	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R0	4	0	5,122,259	24:0
625	**99**	**224**	**00:50:06.400**	**22NNHOTMAP01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
626	99	224	00:51:33.066	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R0	4	0	5,122,261	45:0
627	99	224	00:51:35.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 911.85 +/-	2R0	4	0	5,122,261	48:0
628	99	224	00:51:35.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	5,122,261	48:0
629	99	224	00:51:36.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 911.97 +/-	2R0	4	0	5,122,261	50:1
630	99	224	00:51:41.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 913.20 +/-	2R0	4	0	5,122,261	58:0
631	99	224	00:51:42.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 913.26 +/-	2R0	4	0	5,122,261	59:8
632	99	224	00:51:44.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 913.14 +/-	2R0	4	0	5,122,261	61:9
633	99	224	00:51:45.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 912.97 +/-	2R0	4	0	5,122,261	63:0
634	**99**	**224**	**00:51:59.066**	**125DD4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,122,261**	**84:0**
635	99	224	00:51:59.066	125DD	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,122,261	84:0
636	99	224	00:51:59.066	125DD11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	5,122,261	84:0
637	99	224	00:52:03.066	165DD4A	**7SCAN**	**NORM,282.264999,**	**Check S/P Position**	2R0	4	0	5,122,261	90:0
638	99	224	00:52:05.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	5,122,262	03:0
639	99	224	00:52:05.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 908.13 +/-	2R0	4	0	5,122,262	03:0
640	99	224	00:52:06.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 908.07 +/-	2R0	4	0	5,122,262	04:8
641	**99**	**224**	**00:52:07.733**	**22JNHOTMAP01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
642	99	224	00:54:00.400	127DD	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,122,263	84:0
643	**99**	**224**	**00:54:00.400**	**127DD4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,122,263**	**84:0**
644	**99**	**224**	**00:54:01.066**	**127DD4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,122,263**	**85:0**
645	99	224	00:54:09.066	127DD11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,122,264	06:0
646	99	224	00:55:57.066	117DD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,122,265	77:0
647	99	224	00:56:06.400	117DD105A106A4A	**7STRP**	**-0.017302,0.0,0,**	**Slew =,0.02**	2R3	4	0	5,122,266	00:0
648	99	224	01:10:38.400	117DD105A106A4B	**7STRP**	**0.038018,-0.006,**	**Slew =12.01**	2R3	4	0	5,122,280	34:0
649	99	224	01:10:51.733	117DD105A106A4C	**7STRP**	**-0.017302,0.0,0,**	**Slew =,0.02**	2R3	4	0	5,122,280	54:0
650	99	224	01:11:04.400	175DD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,280	73:0
651	99	224	01:11:04.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 908.07 +/-	2R3	4	0	5,122,280	73:0
652	99	224	01:11:05.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 908.19 +/-	2R3	4	0	5,122,280	75:1
653	99	224	01:11:11.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 909.42 +/-	2R3	4	0	5,122,280	83:0
654	99	224	01:11:12.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 909.48 +/-	2R3	4	0	5,122,280	84:8
655	99	224	01:11:13.066	175DD176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	5,122,280	86:0
656	99	224	01:11:13.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 909.36 +/-	2R3	4	0	5,122,280	86:9
657	99	224	01:11:13.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 909.36 +/-	2R3	4	0	5,122,280	86:9
658	**99**	**224**	**01:11:20.400**	**22JNHOTMAP01-**	**NIMPBK**	**301EG**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	**99**	**224**	**01:11:20.400**	**22JNHOTMAP01-**	**NIMPBK**	**301DD**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**	
660	**99**	**224**	**01:21:10.400**	**22JNHOTMAP01-**	**DESELC**	**300EG**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**	
661	**99**	**224**	**01:21:10.400**	**22JNHOTMAP01-**	**DESELC**	**300DD**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**	
662	99	224	01:21:23.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 766.38 +/-	2R3	4	0	5,122,291:01:0	
663	99	224	01:21:23.733	175DD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,291:01:0	
664	99	224	01:21:23.733	175DD6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,122,291:01:0	
665	99	224	01:21:24.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 766.32 +/-	2R3	4	0	5,122,291:02:8	
666	99	224	01:25:23.733	117DD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,122,294:88:0	
667	99	224	01:25:25.066	165GD4A	7SCAN	NORM,283.896999,	Check S/P Position	2R3	4	0	5,122,294:90:0	
668	**99**	**224**	**01:25:29.733**	**22JNHOTMAP01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
669	99	224	01:28:27.733	176GD6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	5,122,298:00:0	
670	99	224	01:29:19.066	117GD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,122,298:77:0	
671	99	224	01:29:28.400	117GD105A106A4A	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,299:00:0	
672	99	224	01:30:52.400	117GD105A106A4B	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,300:35:0	
673	99	224	01:31:03.733	117GD105A106A4C	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,300:52:0	
674	99	224	01:32:27.733	117GD105A106A4D	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,301:87:0	
675	99	224	01:32:39.066	117GD105A106A4E	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,302:13:0	
676	99	224	01:34:03.066	117GD105A106A4F	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,303:48:0	
677	99	224	01:34:14.400	117GD105A106A4G	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,303:65:0	
678	99	224	01:35:38.400	117GD105A106A4H	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,305:09:0	
679	99	224	01:35:49.733	117GD105A106A4I	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,305:26:0	
680	99	224	01:37:13.733	117GD105A106A4J	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,306:61:0	
681	99	224	01:37:25.066	117GD105A106A4K	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,306:78:0	
682	99	224	01:38:49.066	117GD105A106A4L	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,308:22:0	
683	99	224	01:39:00.400	117GD105A106A4M	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,308:39:0	
684	99	224	01:40:24.400	117GD105A106A4N	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,309:74:0	
685	99	224	01:40:35.733	117GD105A106A4O	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,310:00:0	
686	99	224	01:41:59.733	117GD105A106A4P	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,311:35:0	
687	99	224	01:42:11.066	117GD105A106A4Q	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,311:52:0	
688	99	224	01:42:21.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,311:68:0	
689	99	224	01:42:21.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 766.32 +/-	2R3	4	0	5,122,311:68:0	
690	99	224	01:42:23.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 766.44 +/-	2R3	4	0	5,122,311:70:1	
691	99	224	01:42:28.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 767.67 +/-	2R3	4	0	5,122,311:78:0	
692	99	224	01:42:29.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 767.73 +/-	2R3	4	0	5,122,311:79:8	
693	99	224	01:42:31.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 767.61 +/-	2R3	4	0	5,122,311:81:9	
694	99	224	01:42:49.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 763.22 +/-	2R3	4	0	5,122,312:19:0	
695	99	224	01:43:12.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 757.91 +/-	2R3	4	0	5,122,312:53:0	
696	99	224	01:43:12.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,312:53:0	
697	99	224	01:43:13.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 757.85 +/-	2R3	4	0	5,122,312:54:8	
698	99	224	01:43:35.066	117GD105A106A4R	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,312:87:0	
699	99	224	01:43:46.400	117GD105A106A4S	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,313:13:0	
700	99	224	01:45:10.400	117GD105A106A4T	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,314:48:0	
701	99	224	01:45:21.733	117GD105A106A4U	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,314:65:0	
702	99	224	01:46:45.733	117GD105A106A4V	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,316:09:0	
703	99	224	01:46:57.066	117GD105A106A4W	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,316:26:0	
704	99	224	01:48:21.066	117GD105A106A4X	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,317:61:0	
705	99	224	01:48:32.400	117GD105A106A4Y	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,317:78:0	
706	99	224	01:49:56.400	117GD105A106A4Z	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,319:22:0	
707	99	224	01:50:07.733	117GD105A106A4AA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,319:39:0	
708	99	224	01:51:31.733	117GD105A106A4AB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,320:74:0	
709	99	224	01:51:43.066	117GD105A106A4AC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,321:00:0	
710	99	224	01:53:07.066	117GD105A106A4AD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,322:35:0	
711	99	224	01:53:18.400	117GD105A106A4AE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,322:52:0	
712	99	224	01:54:42.400	117GD105A106A4AF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,323:87:0	
713	99	224	01:54:53.733	117GD105A106A4AG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,324:13:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	99	224	01:56:17.733	117GD105A106A4AH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,325:48:0	
715	99	224	01:56:29.066	117GD105A106A4AI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,325:65:0	
716	99	224	01:56:45.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 757.85 +/-	2R3	4	0	5,122,325:90:0	
717	99	224	01:56:45.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,325:90:0	
718	99	224	01:56:47.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 757.97 +/-	2R3	4	0	5,122,326:01:1	
719	99	224	01:56:52.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 759.20 +/-	2R3	4	0	5,122,326:09:0	
720	99	224	01:56:53.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 759.26 +/-	2R3	4	0	5,122,326:10:8	
721	99	224	01:56:55.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 759.14 +/-	2R3	4	0	5,122,326:12:9	
722	99	224	01:57:13.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 754.75 +/-	2R3	4	0	5,122,326:41:0	
723	99	224	01:57:36.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,326:75:0	
724	99	224	01:57:36.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 749.44 +/-	2R3	4	0	5,122,326:75:0	
725	99	224	01:57:37.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 749.38 +/-	2R3	4	0	5,122,326:76:8	
726	99	224	01:57:53.066	117GD105A106A4AJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,327:09:0	
727	99	224	01:58:04.400	117GD105A106A4AK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,327:26:0	
728	99	224	01:59:28.400	117GD105A106A4AL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,328:61:0	
729	99	224	01:59:39.733	117GD105A106A4AM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,328:78:0	
730	99	224	01:59:59.733	488AB6D	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,329:17:0	
731	99	224	02:01:03.733	117GD105A106A4AN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,330:22:0	
732	99	224	02:01:15.066	117GD105A106A4AO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,330:39:0	
733	99	224	02:02:39.066	117GD105A106A4AP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,331:74:0	
734	99	224	02:02:50.400	117GD105A106A4AQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,332:00:0	
735	99	224	02:04:14.400	117GD105A106A4AR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,333:35:0	
736	99	224	02:04:25.733	117GD105A106A4AS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,333:52:0	
737	99	224	02:05:49.733	117GD105A106A4AT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,334:87:0	
738	99	224	02:06:01.066	117GD105A106A4AU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,335:13:0	
739	99	224	02:07:25.066	117GD105A106A4AV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,336:48:0	
740	99	224	02:07:36.400	117GD105A106A4AW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,336:65:0	
741	99	224	02:09:00.400	117GD105A106A4AX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,338:09:0	
742	99	224	02:09:11.733	117GD105A106A4AY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,338:26:0	
743	99	224	02:10:35.733	117GD105A106A4AZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,339:61:0	
744	99	224	02:10:47.066	117GD105A106A4BA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,339:78:0	
745	99	224	02:11:10.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,340:22:0	
746	99	224	02:11:10.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 749.38 +/-	2R3	4	0	5,122,340:22:0	
747	99	224	02:11:11.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 749.50 +/-	2R3	4	0	5,122,340:24:1	
748	99	224	02:11:17.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 750.74 +/-	2R3	4	0	5,122,340:32:0	
749	99	224	02:11:18.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 750.80 +/-	2R3	4	0	5,122,340:33:8	
750	99	224	02:11:19.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 750.68 +/-	2R3	4	0	5,122,340:35:9	
751	99	224	02:11:38.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 746.28 +/-	2R3	4	0	5,122,340:64:0	
752	99	224	02:12:01.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,341:07:0	
753	99	224	02:12:01.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 740.97 +/-	2R3	4	0	5,122,341:07:0	
754	99	224	02:12:02.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 740.91 +/-	2R3	4	0	5,122,341:08:8	
755	99	224	02:12:11.066	117GD105A106A4BB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,341:22:0	
756	99	224	02:12:22.400	117GD105A106A4BC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,341:39:0	
757	99	224	02:13:46.400	117GD105A106A4BD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,342:74:0	
758	99	224	02:13:57.733	117GD105A106A4BE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,343:00:0	
759	99	224	02:15:21.733	117GD105A106A4BF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,344:35:0	
760	99	224	02:15:33.066	117GD105A106A4BG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,344:52:0	
761	99	224	02:16:57.066	117GD105A106A4BH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,345:87:0	
762	99	224	02:17:08.400	117GD105A106A4BI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,346:13:0	
763	99	224	02:18:32.400	117GD105A106A4BJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,347:48:0	
764	99	224	02:18:43.733	117GD105A106A4BK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,347:65:0	
765	99	224	02:20:07.733	117GD105A106A4BL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,349:09:0	
766	99	224	02:20:19.066	117GD105A106A4BM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,349:26:0	
767	99	224	02:21:43.066	117GD105A106A4BN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,350:61:0	
768	99	224	02:21:54.400	117GD105A106A4BO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,350:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	99	224	02:23:18.400	117GD105A106A4BP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,352:22:0	
770	99	224	02:23:29.733	117GD105A106A4BQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,352:39:0	
771	99	224	02:24:53.733	117GD105A106A4BR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,353:74:0	
772	99	224	02:25:05.066	117GD105A106A4BS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,354:00:0	
773	99	224	02:25:35.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,354:45:0	
774	99	224	02:25:35.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 740.91 +/-	2R3	4	0	5,122,354:45:0	
775	99	224	02:25:36.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 741.03 +/-	2R3	4	0	5,122,354:47:1	
776	99	224	02:25:41.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 742.27 +/-	2R3	4	0	5,122,354:55:0	
777	99	224	02:25:42.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 742.33 +/-	2R3	4	0	5,122,354:56:8	
778	99	224	02:25:44.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 742.21 +/-	2R3	4	0	5,122,354:58:9	
779	99	224	02:26:03.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 737.82 +/-	2R3	4	0	5,122,354:87:0	
780	99	224	02:26:25.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 732.50 +/-	2R3	4	0	5,122,355:30:0	
781	99	224	02:26:25.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,355:30:0	
782	99	224	02:26:26.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 732.44 +/-	2R3	4	0	5,122,355:31:8	
783	99	224	02:26:29.066	117GD105A106A4BT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,355:35:0	
784	99	224	02:26:40.400	117GD105A106A4BU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,355:52:0	
785	99	224	02:28:04.400	117GD105A106A4BV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,356:87:0	
786	99	224	02:28:15.733	117GD105A106A4BW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,357:13:0	
787	99	224	02:29:39.733	117GD105A106A4BX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,358:48:0	
788	99	224	02:29:51.066	117GD105A106A4BY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,358:65:0	
789	99	224	02:31:15.066	117GD105A106A4BZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,360:09:0	
790	99	224	02:31:26.400	117GD105A106A4CA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,360:26:0	
791	99	224	02:32:50.400	117GD105A106A4CB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,361:61:0	
792	99	224	02:33:01.733	117GD105A106A4CC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,361:78:0	
793	99	224	02:34:25.733	117GD105A106A4CD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,363:22:0	
794	99	224	02:34:37.066	117GD105A106A4CE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,363:39:0	
795	99	224	02:36:01.066	117GD105A106A4CF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,364:74:0	
796	99	224	02:36:12.400	117GD105A106A4CG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,365:00:0	
797	99	224	02:37:36.400	117GD105A106A4CH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,366:35:0	
798	99	224	02:37:47.733	117GD105A106A4CI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,366:52:0	
799	99	224	02:39:11.733	117GD105A106A4CJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,367:87:0	
800	99	224	02:39:23.066	117GD105A106A4CK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,368:13:0	
801	99	224	02:39:59.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,368:68:0	
802	99	224	02:39:59.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 732.44 +/-	2R3	4	0	5,122,368:68:0	
803	99	224	02:40:01.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 732.56 +/-	2R3	4	0	5,122,368:70:1	
804	99	224	02:40:06.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 733.80 +/-	2R3	4	0	5,122,368:78:0	
805	99	224	02:40:07.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 733.86 +/-	2R3	4	0	5,122,368:79:8	
806	99	224	02:40:09.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 733.74 +/-	2R3	4	0	5,122,368:81:9	
807	99	224	02:40:27.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 729.35 +/-	2R3	4	0	5,122,369:19:0	
808	99	224	02:40:47.066	117GD105A106A4CL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,369:48:0	
809	99	224	02:40:50.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 724.03 +/-	2R3	4	0	5,122,369:53:0	
810	99	224	02:40:50.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,369:53:0	
811	99	224	02:40:51.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 723.97 +/-	2R3	4	0	5,122,369:54:8	
812	99	224	02:40:58.400	117GD105A106A4CM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,369:65:0	
813	99	224	02:42:22.400	117GD105A106A4CN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,371:09:0	
814	99	224	02:42:33.733	117GD105A106A4CO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,371:26:0	
815	99	224	02:43:57.733	117GD105A106A4CP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,372:61:0	
816	99	224	02:44:09.066	117GD105A106A4CQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,372:78:0	
817	99	224	02:45:33.066	117GD105A106A4CR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,374:22:0	
818	99	224	02:45:44.400	117GD105A106A4CS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,374:39:0	
819	99	224	02:47:08.400	117GD105A106A4CT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,375:74:0	
820	99	224	02:47:19.733	117GD105A106A4CU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,376:00:0	
821	99	224	02:48:43.733	117GD105A106A4CV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,377:35:0	
822	99	224	02:48:55.066	117GD105A106A4CW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,377:52:0	
823	99	224	02:50:19.066	117GD105A106A4CX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,378:87:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	99	224	02:50:30.400	117GD105A106A4CY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,379:13:0	
825	99	224	02:51:54.400	117GD105A106A4CZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,380:48:0	
826	99	224	02:52:05.733	117GD105A106A4DA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,380:65:0	
827	99	224	02:53:29.733	117GD105A106A4DB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,382:09:0	
828	99	224	02:53:41.066	117GD105A106A4DC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,382:26:0	
829	99	224	02:54:24.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,383:00:0	
830	99	224	02:54:24.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 723.97 +/-	2R3	4	0	5,122,383:00:0	
831	99	224	02:54:25.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 724.09 +/-	2R3	4	0	5,122,383:02:1	
832	99	224	02:54:31.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 725.33 +/-	2R3	4	0	5,122,383:10:0	
833	99	224	02:54:32.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 725.39 +/-	2R3	4	0	5,122,383:11:8	
834	99	224	02:54:33.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 725.27 +/-	2R3	4	0	5,122,383:13:9	
835	99	224	02:54:52.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 720.88 +/-	2R3	4	0	5,122,383:42:0	
836	99	224	02:55:05.066	117GD105A106A4DD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,383:61:0	
837	99	224	02:55:15.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 715.57 +/-	2R3	4	0	5,122,383:76:0	
838	99	224	02:55:15.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,383:76:0	
839	99	224	02:55:16.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 715.51 +/-	2R3	4	0	5,122,383:77:8	
840	99	224	02:55:16.400	117GD105A106A4DE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,383:78:0	
841	99	224	02:56:40.400	117GD105A106A4DF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,385:22:0	
842	99	224	02:56:51.733	117GD105A106A4DG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,385:39:0	
843	99	224	02:58:15.733	117GD105A106A4DH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,386:74:0	
844	99	224	02:58:27.066	117GD105A106A4DI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,387:00:0	
845	99	224	02:59:51.066	117GD105A106A4DJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,388:35:0	
846	99	224	03:00:02.400	117GD105A106A4DK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,388:52:0	
847	99	224	03:01:26.400	117GD105A106A4DL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,389:87:0	
848	99	224	03:01:37.733	117GD105A106A4DM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,390:13:0	
849	99	224	03:03:01.733	117GD105A106A4DN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,391:48:0	
850	99	224	03:03:13.066	117GD105A106A4DO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,391:65:0	
851	99	224	03:04:37.066	117GD105A106A4DP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,393:09:0	
852	99	224	03:04:48.400	117GD105A106A4DQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,393:26:0	
853	99	224	03:06:12.400	117GD105A106A4DR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,394:61:0	
854	99	224	03:06:23.733	117GD105A106A4DS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,394:78:0	
855	99	224	03:07:47.733	117GD105A106A4DT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,396:22:0	
856	99	224	03:07:59.066	117GD105A106A4DU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,396:39:0	
857	99	224	03:08:48.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,397:22:0	
858	99	224	03:08:48.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 715.51 +/-	2R3	4	0	5,122,397:22:0	
859	99	224	03:08:49.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 715.63 +/-	2R3	4	0	5,122,397:24:1	
860	99	224	03:08:55.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 716.86 +/-	2R3	4	0	5,122,397:32:0	
861	99	224	03:08:56.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 716.92 +/-	2R3	4	0	5,122,397:33:8	
862	99	224	03:08:57.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 716.80 +/-	2R3	4	0	5,122,397:35:9	
863	99	224	03:09:16.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 712.41 +/-	2R3	4	0	5,122,397:64:0	
864	99	224	03:09:23.066	117GD105A106A4DV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,397:74:0	
865	99	224	03:09:34.400	117GD105A106A4DW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,398:00:0	
866	99	224	03:09:39.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 707.10 +/-	2R3	4	0	5,122,398:07:0	
867	99	224	03:09:39.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,398:07:0	
868	99	224	03:09:40.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 707.04 +/-	2R3	4	0	5,122,398:08:8	
869	99	224	03:10:58.400	117GD105A106A4DX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,399:35:0	
870	99	224	03:11:09.733	117GD105A106A4DY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,399:52:0	
871	99	224	03:12:33.733	117GD105A106A4DZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,400:87:0	
872	99	224	03:12:45.066	117GD105A106A4EA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,401:13:0	
873	99	224	03:14:09.066	117GD105A106A4EB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,402:48:0	
874	99	224	03:14:20.400	117GD105A106A4EC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,402:65:0	
875	99	224	03:15:44.400	117GD105A106A4ED	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,404:09:0	
876	99	224	03:15:55.733	117GD105A106A4EE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,404:26:0	
877	99	224	03:17:19.733	117GD105A106A4EF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,405:61:0	
878	99	224	03:17:31.066	117GD105A106A4EG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,405:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	99	224	03:18:55.066	117GD105A106A4EH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,407	22:0
880	99	224	03:19:06.400	117GD105A106A4EI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,407	39:0
881	99	224	03:20:30.400	117GD105A106A4EJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,408	74:0
882	99	224	03:20:41.733	117GD105A106A4EK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,409	00:0
883	99	224	03:22:05.733	117GD105A106A4EL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,410	35:0
884	99	224	03:22:17.066	117GD105A106A4EM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,410	52:0
885	99	224	03:23:13.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,411	45:0
886	99	224	03:23:13.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 707.04 +/-	2R3	4	0	5,122,411	45:0
887	99	224	03:23:14.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 707.16 +/-	2R3	4	0	5,122,411	47:1
888	99	224	03:23:19.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 708.39 +/-	2R3	4	0	5,122,411	55:0
889	99	224	03:23:20.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 708.45 +/-	2R3	4	0	5,122,411	56:8
890	99	224	03:23:22.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 708.33 +/-	2R3	4	0	5,122,411	58:9
891	99	224	03:23:41.066	117GD105A106A4EN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,411	87:0
892	99	224	03:23:41.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 703.94 +/-	2R3	4	0	5,122,411	87:0
893	99	224	03:23:52.400	117GD105A106A4EO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,412	13:0
894	99	224	03:24:03.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,412	30:0
895	99	224	03:24:03.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 698.63 +/-	2R3	4	0	5,122,412	30:0
896	99	224	03:24:04.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 698.57 +/-	2R3	4	0	5,122,412	31:8
897	99	224	03:25:16.400	117GD105A106A4EP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,413	48:0
898	99	224	03:25:27.733	117GD105A106A4EQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,413	65:0
899	99	224	03:26:51.733	117GD105A106A4ER	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,415	09:0
900	99	224	03:27:03.066	117GD105A106A4ES	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,415	26:0
901	99	224	03:28:27.066	117GD105A106A4ET	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,416	61:0
902	99	224	03:28:38.400	117GD105A106A4EU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,416	78:0
903	99	224	03:30:02.400	117GD105A106A4EV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,418	22:0
904	99	224	03:30:13.733	117GD105A106A4EW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,418	39:0
905	99	224	03:31:37.733	117GD105A106A4EX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,419	74:0
906	99	224	03:31:49.066	117GD105A106A4EY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,420	00:0
907	99	224	03:33:13.066	117GD105A106A4EZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,421	35:0
908	99	224	03:33:24.400	117GD105A106A4FA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,421	52:0
909	99	224	03:34:13.066	432OC431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,422	34:0
910	99	224	03:34:13.733	432OC6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,422	35:0
911	99	224	03:34:48.400	117GD105A106A4FB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,422	87:0
912	99	224	03:34:59.733	117GD105A106A4FC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,423	13:0
913	99	224	03:36:23.733	117GD105A106A4FD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,424	48:0
914	99	224	03:36:35.066	117GD105A106A4FE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,424	65:0
915	99	224	03:37:37.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,425	68:0
916	99	224	03:37:37.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 698.57 +/-	2R3	4	0	5,122,425	68:0
917	99	224	03:37:39.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 698.69 +/-	2R3	4	0	5,122,425	70:1
918	99	224	03:37:44.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 699.92 +/-	2R3	4	0	5,122,425	78:0
919	99	224	03:37:45.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 699.98 +/-	2R3	4	0	5,122,425	79:8
920	99	224	03:37:47.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 699.86 +/-	2R3	4	0	5,122,425	81:9
921	99	224	03:37:59.066	117GD105A106A4FF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,426	09:0
922	99	224	03:38:05.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 695.47 +/-	2R3	4	0	5,122,426	19:0
923	99	224	03:38:10.400	117GD105A106A4FG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,426	26:0
924	99	224	03:38:28.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 690.16 +/-	2R3	4	0	5,122,426	53:0
925	99	224	03:38:28.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,426	53:0
926	99	224	03:38:29.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 690.10 +/-	2R3	4	0	5,122,426	54:8
927	99	224	03:39:34.400	117GD105A106A4FH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,427	61:0
928	99	224	03:39:45.733	117GD105A106A4FI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,427	78:0
929	99	224	03:41:09.733	117GD105A106A4FJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,429	22:0
930	99	224	03:41:21.066	117GD105A106A4FK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,429	39:0
931	99	224	03:42:45.066	117GD105A106A4FL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,430	74:0
932	99	224	03:42:56.400	117GD105A106A4FM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,431	00:0
933	99	224	03:44:20.400	117GD105A106A4FN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,432	35:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	99	224	03:44:31.733	117GD105A106A4FO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,432	52:0
935	99	224	03:45:55.733	117GD105A106A4FP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,433	87:0
936	99	224	03:46:07.066	117GD105A106A4FQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,434	13:0
937	99	224	03:46:13.066	432OE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,434	22:0
938	99	224	03:46:13.733	432OE6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,434	23:0
939	99	224	03:47:31.066	117GD105A106A4FR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,435	48:0
940	99	224	03:47:42.400	117GD105A106A4FS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,435	65:0
941	99	224	03:49:06.400	117GD105A106A4FT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,437	09:0
942	99	224	03:49:17.733	117GD105A106A4FU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,437	26:0
943	99	224	03:50:41.733	117GD105A106A4FV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,438	61:0
944	99	224	03:50:53.066	117GD105A106A4FW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,438	78:0
945	99	224	03:52:02.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,440	00:0
946	99	224	03:52:02.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 690.10 +/-	2R3	4	0	5,122,440	00:0
947	99	224	03:52:03.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 690.22 +/-	2R3	4	0	5,122,440	02:1
948	99	224	03:52:09.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 691.45 +/-	2R3	4	0	5,122,440	10:0
949	99	224	03:52:10.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 691.51 +/-	2R3	4	0	5,122,440	11:8
950	99	224	03:52:11.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 691.39 +/-	2R3	4	0	5,122,440	13:9
951	99	224	03:52:17.066	117GD105A106A4FX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,440	22:0
952	99	224	03:52:28.400	117GD105A106A4FY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,440	39:0
953	99	224	03:52:30.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 687.00 +/-	2R3	4	0	5,122,440	42:0
954	99	224	03:52:53.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 681.69 +/-	2R3	4	0	5,122,440	76:0
955	99	224	03:52:53.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,440	76:0
956	99	224	03:52:54.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 681.63 +/-	2R3	4	0	5,122,440	77:8
957	99	224	03:53:52.400	117GD105A106A4FZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,441	74:0
958	99	224	03:54:03.733	117GD105A106A4GA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,442	00:0
959	99	224	03:55:27.733	117GD105A106A4GB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,443	35:0
960	99	224	03:55:39.066	117GD105A106A4GC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,443	52:0
961	99	224	03:57:03.066	117GD105A106A4GD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,444	87:0
962	99	224	03:57:14.400	117GD105A106A4GE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,445	13:0
963	99	224	03:58:38.400	117GD105A106A4GF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,446	48:0
964	99	224	03:58:49.733	117GD105A106A4GG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,446	65:0
965	99	224	04:00:13.733	117GD105A106A4GH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,448	09:0
966	99	224	04:00:25.066	117GD105A106A4GI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,448	26:0
967	99	224	04:01:49.066	117GD105A106A4GJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,449	61:0
968	99	224	04:02:00.400	117GD105A106A4GK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,449	78:0
969	99	224	04:03:24.400	117GD105A106A4GL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,451	22:0
970	99	224	04:03:35.733	117GD105A106A4GM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,451	39:0
971	99	224	04:04:59.733	117GD105A106A4GN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,452	74:0
972	99	224	04:05:11.066	117GD105A106A4GO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,453	00:0
973	99	224	04:06:27.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,454	23:0
974	99	224	04:06:27.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 681.63 +/-	2R3	4	0	5,122,454	23:0
975	99	224	04:06:28.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 681.75 +/-	2R3	4	0	5,122,454	25:1
976	99	224	04:06:33.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 682.99 +/-	2R3	4	0	5,122,454	33:0
977	99	224	04:06:34.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 683.05 +/-	2R3	4	0	5,122,454	34:8
978	99	224	04:06:35.066	117GD105A106A4GP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,454	35:0
979	99	224	04:06:36.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 682.93 +/-	2R3	4	0	5,122,454	36:9
980	99	224	04:06:46.400	117GD105A106A4GQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,454	52:0
981	99	224	04:06:55.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 678.53 +/-	2R3	4	0	5,122,454	65:0
982	99	224	04:07:17.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,455	08:0
983	99	224	04:07:17.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 673.22 +/-	2R3	4	0	5,122,455	08:0
984	99	224	04:07:18.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 673.16 +/-	2R3	4	0	5,122,455	09:8
985	99	224	04:08:10.400	117GD105A106A4GR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,455	87:0
986	99	224	04:08:21.733	117GD105A106A4GS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,456	13:0
987	99	224	04:09:45.733	117GD105A106A4GT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,457	48:0
988	99	224	04:09:57.066	117GD105A106A4GU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,457	65:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	99	224	04:10:13.066	432OG431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,457:89:0	
990	99	224	04:10:13.733	432OG6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,457:90:0	
991	99	224	04:11:21.066	117GD105A106A4GV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,459:09:0	
992	99	224	04:11:32.400	117GD105A106A4GW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,459:26:0	
993	99	224	04:12:56.400	117GD105A106A4GX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,460:61:0	
994	99	224	04:13:07.733	117GD105A106A4GY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,460:78:0	
995	99	224	04:14:31.733	117GD105A106A4GZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,462:22:0	
996	99	224	04:14:43.066	117GD105A106A4HA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,462:39:0	
997	99	224	04:16:07.066	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,122,463:74:0	
998	99	224	04:16:48.400	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,122,464:45:0	
999	99	224	04:16:50.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,464:48:0	
1000	99	224	04:16:50.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 673.16 +/-	2R3	4	0	5,122,464:48:0	
1001	99	224	04:16:51.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 673.28 +/-	2R3	4	0	5,122,464:50:1	
1002	99	224	04:16:57.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 674.52 +/-	2R3	4	0	5,122,464:58:0	
1003	99	224	04:16:58.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 674.58 +/-	2R3	4	0	5,122,464:59:8	
1004	99	224	04:16:59.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 674.46 +/-	2R3	4	0	5,122,464:61:9	
1005	99	224	04:17:00.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 674.28 +/-	2R3	4	0	5,122,464:63:0	
1006	99	224	04:17:18.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,464:90:0	
1007	99	224	04:17:18.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 670.07 +/-	2R3	4	0	5,122,464:90:0	
1008	99	224	04:17:19.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 670.01 +/-	2R3	4	0	5,122,465:00:8	
1009	99	224	04:22:13.066	432OI431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,469:77:0	
1010	99	224	04:22:13.733	432OI6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,469:78:0	
1011	**99**	**224**	**04:34:34.466**	**22NNHRSPEC01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1012	**99**	**224**	**04:36:18.400**	**20DA5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,122,483:71:0**	
1013	**99**	**224**	**04:36:23.733**	**20DA5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,122,483:79:0**	
1014	**99**	**224**	**04:36:28.400**	**20DA6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,122,483:86:0**	
1015	**99**	**224**	**04:36:35.733**	**20DA6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,122,484:06:0**	
1016	**99**	**224**	**04:36:45.733**	**20DA5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,122,484:21:0**	
1017	**99**	**224**	**04:36:55.733**	**20DA5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,122,484:36:0**	
1018	**99**	**224**	**04:37:25.066**	**20DA4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,122,484:80:0**	
1019	**99**	**224**	**04:37:36.466**	**22NNHRSPEC01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1020	**99**	**224**	**04:37:36.466**	**22INHRSPEC01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1021	99	224	04:38:28.400	125DA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,122,485:84:0	
1022	**99**	**224**	**04:38:28.400**	**125DA4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**5,122,485:84:0**	
1023	**99**	**224**	**04:39:29.066**	**125DA4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**5,122,486:84:0**	
1024	99	224	04:39:29.066	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	5,122,486:84:0	
1025	99	224	04:39:33.066	165DA4A	**7SCAN**	**NORM,271.511997,**	**Check S/P Position**	4R0	4	0	5,122,486:90:0	
1026	**99**	**224**	**04:41:30.400**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,122,488:84:0**	
1027	99	224	04:41:30.400	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,122,488:84:0	
1028	**99**	**224**	**04:41:31.066**	**127DA4B**	**37ETB**	**07,C7,03,A1,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,122,488:85:0**	
1029	99	224	04:41:39.066	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,122,489:06:0	
1030	99	224	04:43:24.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 670.01 +/-	4R3	4	0	5,122,490:73:0	
1031	99	224	04:43:24.400	175DA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	5,122,490:73:0	
1032	99	224	04:43:25.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 670.13 +/-	4R3	4	0	5,122,490:75:1	
1033	99	224	04:43:27.066	117DA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,122,490:77:0	
1034	99	224	04:43:31.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 671.36 +/-	4R3	4	0	5,122,490:83:0	
1035	99	224	04:43:32.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 671.42 +/-	4R3	4	0	5,122,490:84:8	
1036	99	224	04:43:33.066	175DA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	5,122,490:86:0	
1037	99	224	04:43:33.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 671.30 +/-	4R3	4	0	5,122,490:86:9	
1038	99	224	04:43:33.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 671.30 +/-	4R3	4	0	5,122,490:86:9	
1039	99	224	04:43:35.066	165DA4B	7VECT		Inert vect update UTC	4R3	4	0	5,122,490:89:0	
1040	**99**	**224**	**04:43:36.400**	**22INHRSPEC01-**	**NIMPBK**	**301DA**	**IO MONITORING**	**4R3**	**4**	**0**	**: :**	
1041	99	224	04:43:36.400	117DA105A106A4A	**7STRP**	**-0.0053,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	5,122,491:00:0	
1042	99	224	04:46:13.066	432OK431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,493:53:0	
1043	99	224	04:46:13.733	432OK6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,493:54:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1044	99	224	04:46:35.066	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,122,493:86:0
1045	**99**	**224**	**04:46:38.400**	**22INHRSPEC01-**	**DESELC**	**300DA**	**IO MONITORING**	**4R3**	**4**	**0**	**: :**
1046	**99**	**224**	**04:48:35.066**	**DAC**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**5,122,495:83:0**
1047	**99**	**224**	**04:48:38.400**	**22INHRSPEC01-**	**NIMPBK**	**301DZ**	**IO MONITORING**	**4R3**	**4**	**0**	**: :**
1048	**99**	**224**	**04:49:33.733**	**22INHRSPEC01-**	**DESELC**	**300DZ**	**IO MONITORING**	**4R3**	**4**	**0**	**: :**
1049	99	224	04:49:43.733	175DA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,122,497:05:0
1050	99	224	04:49:43.733	175DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	5,122,497:05:0
1051	99	224	04:49:43.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 584.57 +/-	4R3	4	0	5,122,497:05:0
1052	**99**	**224**	**04:49:44.466**	**22INHRSPEC01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
1053	99	224	04:49:44.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 584.51 +/-	4R3	4	0	5,122,497:06:8
1054	**99**	**224**	**04:54:47.733**	**22NNHOTMAP02-**		**-----START------**		**4R3**	**4**	**0**	**: :**
1055	**99**	**224**	**04:56:02.400**	**20DE5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**5,122,503:27:0**
1056	**99**	**224**	**04:56:03.733**	**20DE5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**5,122,503:29:0**
1057	**99**	**224**	**04:56:05.066**	**20DE6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**5,122,503:31:0**
1058	**99**	**224**	**04:56:15.066**	**20DE6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**5,122,503:46:0**
1059	**99**	**224**	**04:56:25.066**	**20DE5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,122,503:61:0**
1060	**99**	**224**	**04:56:45.066**	**20DE5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,122,504:00:0**
1061	**99**	**224**	**04:57:00.400**	**20DE4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,122,504:23:0**
1062	99	224	04:57:45.066	165DE4A	**7SCAN**	**NORM,308.716999,**	**Check S/P Position**	2R0	4	0	5,122,504:90:0
1063	**99**	**224**	**04:57:49.733**	**22NNHOTMAP02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
1064	**99**	**224**	**04:57:49.733**	**22JNHOTMAP02-**		**-----START------**		**2R0**	**4**	**0**	**: :**
1065	99	224	04:58:13.066	432OM431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R0	4	0	5,122,505:41:0
1066	99	224	04:58:13.733	432OM6A	6RTSL1		R/T Select of DDS and	2R0	4	0	5,122,505:42:0
1067	99	224	04:59:42.400	125DE	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,122,506:84:0
1068	**99**	**224**	**04:59:42.400**	**125DE4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**5,122,506:84:0**
1069	99	224	04:59:42.400	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	5,122,506:84:0
1070	99	224	05:00:43.066	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	5,122,507:84:0
1071	**99**	**224**	**05:00:43.066**	**127DE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,122,507:84:0**
1072	**99**	**224**	**05:00:43.733**	**127DE4B**	**37ETB**	**0A,CA,16,05,FF,1**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,122,507:85:0**
1073	99	224	05:00:51.733	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,122,508:06:0
1074	99	224	05:01:39.066	117DE	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,122,508:77:0
1075	99	224	05:01:47.066	165DE4B	7VECT		Inert vect update UTC	4R3	4	0	5,122,508:89:0
1076	99	224	05:01:48.400	117DE105A106A4A	**7STRP**	**-0.025405,0.0,0,**	**Slew =,0.03**	4R3	4	0	5,122,509:00:0
1077	99	224	05:15:57.733	117DE105A106A4B	**7STRP**	**0.046032,-0.006,**	**Slew =12.01**	4R3	4	0	5,122,523:00:0
1078	99	224	05:16:11.066	117DE105A106A4C	**7STRP**	**-0.025405,0.0,0,**	**Slew =,0.03**	4R3	4	0	5,122,523:20:0
1079	99	224	05:16:46.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 584.51 +/-	4R3	4	0	5,122,523:73:0
1080	99	224	05:16:46.400	175DE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	5,122,523:73:0
1081	99	224	05:16:47.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 584.63 +/-	4R3	4	0	5,122,523:75:1
1082	99	224	05:16:53.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 585.86 +/-	4R3	4	0	5,122,523:83:0
1083	99	224	05:16:54.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 585.92 +/-	4R3	4	0	5,122,523:84:8
1084	99	224	05:16:55.066	175DE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	5,122,523:86:0
1085	99	224	05:16:55.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 585.80 +/-	4R3	4	0	5,122,523:86:9
1086	99	224	05:16:55.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 585.80 +/-	4R3	4	0	5,122,523:86:9
1087	**99**	**224**	**05:17:02.400**	**22JNHOTMAP02-**	**NIMPBK**	**301DQ**	**JUPITER HOT MAP OBS**	**4R3**	**4**	**0**	**: :**
1088	**99**	**224**	**05:17:02.400**	**22JNHOTMAP02-**	**NIMPBK**	**301DE**	**JUPITER HOT MAP OBS**	**4R3**	**4**	**0**	**: :**
1089	99	224	05:22:13.066	432OO431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,529:17:0
1090	99	224	05:22:13.733	432OO6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,529:18:0
1091	**99**	**224**	**05:26:52.400**	**22JNHOTMAP02-**	**DESELC**	**300DE**	**JUPITER HOT MAP OBS**	**4R3**	**4**	**0**	**: :**
1092	**99**	**224**	**05:26:52.400**	**22JNHOTMAP02-**	**DESELC**	**300DQ**	**JUPITER HOT MAP OBS**	**4R3**	**4**	**0**	**: :**
1093	99	224	05:27:15.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 440.47 +/-	4R3	4	0	5,122,534:16:0
1094	99	224	05:27:15.733	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,122,534:16:0
1095	99	224	05:27:15.733	175DE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	5,122,534:16:0
1096	99	224	05:27:16.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 440.41 +/-	4R3	4	0	5,122,534:17:8
1097	99	224	05:30:20.400	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,122,537:20:0
1098	**99**	**224**	**05:31:11.733**	**22JNHOTMAP02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1099	99	224	05:33:59.733	480SC6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	4R3	4	0	5,122,540:76:0
1100	99	224	05:34:13.066	432OQ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,541:05:0
1101	99	224	05:34:13.733	432OQ6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,541:06:0
1102	99	224	05:40:39.733	480SC6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	4R3	4	0	5,122,547:39:0
1103	99	224	05:58:13.066	432OS431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,564:72:0
1104	99	224	05:58:13.733	432OS6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,564:73:0
1105	99	224	06:05:50.400	488AC6A	6TMSED	NORM,FL4	Sci, Eng, and D/L Chan	4R3	4	0	5,122,572:30:0
1106	99	224	06:10:13.066	432OU431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,576:60:0
1107	99	224	06:10:13.733	432OU6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,576:61:0
1108	99	224	06:34:13.066	432OW431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,600:36:0
1109	99	224	06:34:13.733	432OW6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,600:37:0
1110	**99**	**224**	**06:38:56.400**	**22NNHOTMAP03-**		**-----START------**		**4R3**	**4**	**0**	**: :**
1111	**99**	**224**	**06:40:11.066**	**20DG5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**5,122,606:27:0**
1112	**99**	**224**	**06:40:12.400**	**20DG5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**5,122,606:29:0**
1113	**99**	**224**	**06:40:13.733**	**20DG6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**5,122,606:31:0**
1114	**99**	**224**	**06:40:23.733**	**20DG6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**5,122,606:46:0**
1115	**99**	**224**	**06:40:33.733**	**20DG5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,122,606:61:0**
1116	**99**	**224**	**06:40:53.733**	**20DG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,122,607:00:0**
1117	**99**	**224**	**06:41:09.066**	**20DG4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,122,607:23:0**
1118	99	224	06:41:53.733	165DG4A	**7SCAN**	**NORM,315.598,-16**	**Check S/P Position**	2R0	4	0	5,122,607:90:0
1119	**99**	**224**	**06:41:58.400**	**22JNHOTMAP03-**		**-----START------**		**2R0**	**4**	**0**	**: :**
1120	**99**	**224**	**06:41:58.400**	**22NNHOTMAP03-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
1121	**99**	**224**	**06:44:51.733**	**125DG4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,122,610:84:0**
1122	99	224	06:44:51.733	125DG11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	5,122,610:84:0
1123	99	224	06:44:51.733	125DG	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,122,610:84:0
1124	99	224	06:45:45.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 440.41 +/-	2R0	4	0	5,122,611:73:0
1125	99	224	06:45:45.066	175DG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	5,122,611:73:0
1126	99	224	06:45:46.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 440.53 +/-	2R0	4	0	5,122,611:75:1
1127	99	224	06:45:47.733	117DG	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	5,122,611:77:0
1128	99	224	06:45:51.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 441.77 +/-	2R0	4	0	5,122,611:83:0
1129	99	224	06:45:52.400	127DG	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,122,611:84:0
1130	**99**	**224**	**06:45:52.400**	**127DG4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,122,611:84:0**
1131	99	224	06:45:52.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 441.83 +/-	2R3	4	0	5,122,611:84:8
1132	**99**	**224**	**06:45:53.066**	**127DG4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,122,611:85:0**
1133	99	224	06:45:53.733	175DG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	5,122,611:86:0
1134	99	224	06:45:54.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 441.71 +/-	2R3	4	0	5,122,611:86:9
1135	99	224	06:45:54.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 441.71 +/-	2R3	4	0	5,122,611:86:9
1136	99	224	06:45:55.733	165DG4B	7VECT		Inert vect update UTC	2R3	4	0	5,122,611:89:0
1137	99	224	06:45:57.066	117DG105A106A4A	**7STRP**	**-0.036216,0.0,0,**	**Slew =,0.03**	2R3	4	0	5,122,612:00:0
1138	**99**	**224**	**06:46:01.066**	**22JNHOTMAP03-**	**NIMPBK**	**301DG**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**
1139	99	224	06:46:01.066	127DG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,122,612:06:0
1140	99	224	06:46:13.066	432OY431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,612:24:0
1141	99	224	06:46:13.733	432OY6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,612:25:0
1142	**99**	**224**	**06:55:51.066**	**22JNHOTMAP03-**	**DESELC**	**300DG**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**
1143	99	224	06:55:54.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 301.07 +/-	2R3	4	0	5,122,621:77:0
1144	99	224	06:55:54.400	175DG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,122,621:77:0
1145	99	224	06:55:54.400	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,621:77:0
1146	99	224	06:55:55.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 301.01 +/-	2R3	4	0	5,122,621:78:8
1147	99	224	07:06:07.066	117DG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,122,631:86:0
1148	**99**	**224**	**07:06:14.400**	**22JNHOTMAP03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1149	99	224	07:10:13.066	432PA431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,636:00:0
1150	99	224	07:10:13.733	432PA6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,636:01:0
1151	99	224	07:22:13.066	432PC431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,647:79:0
1152	99	224	07:22:13.733	432PC6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,647:80:0
1153	99	224	07:32:14.400	488AC6B	6TMSED	FILL,FL4	Sci, Eng, and D/L Chan	2R3	4	0	5,122,657:71:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	99	224	07:33:18.400	488AC6C	6TMSED	FILL,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,658:76:0	
1155	99	224	07:46:13.066	432PE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,671:55:0	
1156	99	224	07:46:13.733	432PE6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,671:56:0	
1157	99	224	07:46:30.400	465KC6A	6DTRN	CMD,6DTRN,465KC6	DMS TRACK TURNAROUND	2R3	4	0	5,122,671:81:0	
1158	99	224	07:46:30.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 301.01 +/-	2R3	4	0	5,122,671:81:0	
1159	99	224	07:46:30.400		DMS:	: *DMS-TURN	P7, TRACK 2, REV, TIC 301.01 +/-	2R3	4	0	5,122,671:81:0	
1160	99	224	07:46:31.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 301.13 +/-	2R3	4	0	5,122,671:83:1	
1161	99	224	07:46:37.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 302.36 +/-	2R3	4	0	5,122,672:00:0	
1162	99	224	07:46:38.266		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC * 302.42 +/-	2R3	4	0	5,122,672:01:8	
1163	99	224	07:46:39.666		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC * 302.30 +/-	2R3	4	0	5,122,672:03:9	
1164	99	224	07:53:56.666		DMS:	: *REVERSE	P7, TRACK 2, REV, TIC * 199.87 +/-	2R3	4	0	5,122,679:22:4	
1165	99	224	07:53:57.866		DMS:	: *RUNUP	P7, TRACK 3, FWD, TIC 199.81 +/-	2R3	4	0	5,122,679:24:2	
1166	99	224	07:53:57.866		DMS:	: *TURNARND	P7, TRACK *3, *FWD, TIC * 199.81 +/-	2R3	4	0	5,122,679:24:2	
1167	99	224	07:53:59.266		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC * 199.93 +/-	2R3	4	0	5,122,679:26:3	
1168	99	224	07:54:11.266		DMS:	: *AUTOSTOP	P7, TRACK 3, FWD, TIC * 202.06 +/-	2R3	4	0	5,122,679:44:3	
1169	99	224	07:54:12.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 202.12 +/-	2R3	4	0	5,122,679:46:1	
1170	99	224	07:58:13.066	432PG431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,683:43:0	
1171	99	224	07:58:13.733	432PG6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,683:44:0	
1172	99	224	08:01:48.400	488AC6D	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,687:02:0	
1173	99	224	08:08:43.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 202.12 +/-	2R3	4	0	5,122,693:79:0	
1174	99	224	08:08:43.733	465KD6A	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	2R3	4	0	5,122,693:79:0	
1175	99	224	08:08:50.400		DMS:	: *RUNUP	P7, TRACK *3, FWD, TIC 202.12 +/-	2R3	4	0	5,122,693:89:0	
1176	99	224	08:08:51.800		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC 202.24 +/-	2R3	4	0	5,122,694:00:1	
1177	99	224	08:08:51.800		DMS:	: *P_SLEW	P7, TRACK 3, FWD, TIC * 202.24 +/-	2R3	4	0	5,122,694:00:1	
1178	99	224	08:09:52.400		DMS:	**: *RUNDOWN**	P7, TRACK 3, FWD, TIC * 216.45 +/-	2R3	4	0	5,122,695:00:0	
1179	99	224	08:09:52.400	465KD6B	6DMSC	RDY,3	DMS Control Tape stop	2R3	4	0	5,122,695:00:0	
1180	99	224	08:09:53.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 216.51 +/-	2R3	4	0	5,122,695:01:8	
1181	99	224	08:16:46.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 216.51 +/-	2R3	4	0	5,122,701:75:0	
1182	99	224	08:16:46.400	175MA422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	5,122,701:75:0	
1183	99	224	08:16:53.066		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 216.51 +/-	2R3	4	0	5,122,701:85:0	
1184	99	224	08:16:54.400	175MA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	5,122,701:87:0	
1185	99	224	08:16:54.400	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	2R3	4	0	5,122,701:87:0	
1186	99	224	08:16:54.466		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 216.63 +/-	2R3	4	0	5,122,701:87:1	
1187	99	224	08:16:54.466		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 216.63 +/-	2R3	4	0	5,122,701:87:1	
1188	99	224	08:16:57.066	431OA6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	5,122,702:00:0	
1189	99	224	08:17:01.066	488AC6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,702:06:0	
1190	99	224	13:00:59.733	20TO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R3	4	0	5,122,982:84:0	
1191	99	224	13:01:49.733	20TO4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,122,983:68:0	
1192	99	224	13:01:55.733	20TO4E	7STAR	1,1610,278.815,3	Star catalog update	2R3	4	0	5,122,983:77:0	
1193	99	224	13:01:57.733	20TO4F	7STAR	2,9000,2.664,14.	Star catalog update	2R3	4	0	5,122,983:80:0	
1194	99	224	13:01:59.733	20TO4G	7STAR	3,1610,278.815,3	Star catalog update	2R3	4	0	5,122,983:83:0	
1195	99	224	13:02:01.733	20TO4H	7STAR	4,9000,2.664,14.	Star catalog update	2R3	4	0	5,122,983:86:0	
1196	99	224	13:02:03.733	20TO4I	7STAR	5,1610,278.815,3	Star catalog update	2R3	4	0	5,122,983:89:0	
1197	99	224	13:02:05.733	20TO4J	7STAR	6,9000,2.664,14.	Star catalog update	2R3	4	0	5,122,984:01:0	
1198	99	224	13:40:14.400	488AD6A	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	2R3	4	0	5,123,021:67:0	
1199	99	224	13:44:59.733	480SD6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	2R3	4	0	5,123,026:40:0	
1200	99	224	13:46:19.733	480SD6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	2R3	4	0	5,123,027:69:0	
1201	99	224	13:57:18.400	488AD6B	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,038:56:0	
1202	99	224	13:59:47.066	488AD6C	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,041:06:0	
1203	99	224	14:00:45.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5052.08 +/-	2R3	4	0	5,123,042:03:0	
1204	99	224	14:00:45.733	432PH431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,042:03:0	
1205	99	224	14:00:45.733	175MA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,042:03:0	
1206	99	224	14:00:46.400	432PH6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,042:04:0	
1207	99	224	14:00:46.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5052.14 +/-	2R3	4	0	5,123,042:04:8	
1208	99	224	14:00:49.733	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	5,123,042:09:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	99	224	14:01:13.066	432PJ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,042:44:0	
1210	99	224	14:01:13.733	432PJ6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,042:45:0	
1211	99	224	14:01:38.400	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	5,123,042:82:0	
1212	99	224	14:01:39.066	282NB432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,042:83:0	
1213	99	224	14:13:13.066	432PL431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,054:32:0	
1214	99	224	14:13:13.733	432PL6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,054:33:0	
1215	99	224	14:37:13.066	432PN431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,078:08:0	
1216	99	224	14:37:13.733	432PN6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,078:09:0	
1217	99	224	14:49:13.066	432PP431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,089:87:0	
1218	99	224	14:49:13.733	432PP6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,089:88:0	
1219	99	224	14:57:39.733	488AD6D	6TMSED	FILL,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,098:28:0	
1220	99	224	15:13:13.066	432PR431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,113:63:0	
1221	99	224	15:13:13.733	432PR6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,113:64:0	
1222	99	224	15:18:22.400	488AD6E	6TMSED	FILL,FL6	Sci, Eng, and D/L Chan	2R3	4	0	5,123,118:72:0	
1223	99	224	15:24:45.066	488AE6A	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	2R3	4	0	5,123,125:09:0	
1224	99	224	15:25:13.066	432PT431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,125:51:0	
1225	99	224	15:25:13.733	432PT6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,125:52:0	
1226	99	224	15:49:13.066	432PV431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,149:27:0	
1227	99	224	15:49:13.733	432PV6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,149:28:0	
1228	99	224	16:01:13.066	432PX431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,161:15:0	
1229	99	224	16:01:13.733	432PX6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,161:16:0	
1230	99	224	16:25:13.066	432PZ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,184:82:0	
1231	99	224	16:25:13.733	432PZ6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,184:83:0	
1232	99	224	16:37:13.066	432NI431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,196:70:0	
1233	99	224	16:37:13.733	432NI6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,196:71:0	
1234	99	224	17:01:13.066	432NK431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,220:46:0	
1235	99	224	17:01:13.733	432NK6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,220:47:0	
1236	99	224	17:09:47.733	165IB4A	7SCAN	NORM,7.825,4.518	Check S/P Position	2R3	4	0	5,123,228:90:0	
1237	99	224	17:13:13.066	432NM431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,232:34:0	
1238	99	224	17:13:13.733	432NM6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,232:35:0	
1239	99	224	17:13:39.733	175IA422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,123,232:74:0	
1240	99	224	17:13:39.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5052.14 +/-	2R3	4	0	5,123,232:74:0	
1241	99	224	17:13:46.400		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 5052.14 +/-	2R3	4	0	5,123,232:84:0	
1242	99	224	17:13:49.733	165IB4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,232:89:0	
1243	99	224	17:13:51.066	175IA176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,123,233:00:0	
1244	99	224	17:13:51.666		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *5118.14 +/-	2R3	4	0	5,123,233:00:9	
1245	99	224	17:13:51.666		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5118.14 +/-	2R3	4	0	5,123,233:00:9	
1246	99	224	17:13:53.733	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,233:04:0	
1247	99	224	17:13:53.733		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5169.00 +/-	2R3	4	0	5,123,233:04:0	
1248	99	224	17:13:56.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5180.50 +/-	2R3	4	0	5,123,233:08:1	
1249	99	224	17:15:41.066	175IB422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,123,234:74:0	
1250	99	224	17:15:41.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5180.50 +/-	2R3	4	0	5,123,234:74:0	
1251	99	224	17:15:47.733		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 5180.50 +/-	2R3	4	0	5,123,234:84:0	
1252	99	224	17:15:52.400	175IB176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,123,235:00:0	
1253	99	224	17:15:53.000		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *5246.50 +/-	2R3	4	0	5,123,235:00:9	
1254	99	224	17:15:53.000		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5246.50 +/-	2R3	4	0	5,123,235:00:9	
1255	99	224	17:15:55.066		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5297.36 +/-	2R3	4	0	5,123,235:04:0	
1256	99	224	17:15:55.066	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,235:04:0	
1257	99	224	17:15:57.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5308.86 +/-	2R3	4	0	5,123,235:08:1	
1258	99	224	17:18:53.733	165IA4A	7SCAN	NORM,41.832,17.7	Check S/P Position	2R3	4	0	5,123,237:90:0	
1259	99	224	17:22:47.066	175IC422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,123,241:76:0	
1260	99	224	17:22:47.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5308.86 +/-	2R3	4	0	5,123,241:76:0	
1261	99	224	17:22:53.733		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 5308.86 +/-	2R3	4	0	5,123,241:86:0	
1262	99	224	17:22:58.400	175IC176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,123,242:02:0	
1263	99	224	17:22:59.000		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5374.86 +/- 1	2R3	4	0	5,123,242:02:9	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	99	224	17:22:59.000		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *5374.86 +/-	2R3	4	0	5,123,242:02:9	
1265	99	224	17:23:02.400	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,242:08:0	
1266	99	224	17:23:02.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5458.53 +/- 1	2R3	4	0	5,123,242:08:0	
1267	99	224	17:23:05.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5470.03 +/- 1	2R3	4	0	5,123,242:12:1	
1268	99	224	17:37:13.066	432NO431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,256:10:0	
1269	99	224	17:37:13.733	432NO6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,256:11:0	
1270	99	224	17:49:13.066	432NQ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,267:89:0	
1271	99	224	17:49:13.733	432NQ6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,267:90:0	
1272	99	224	17:49:59.733	480SE6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	2R3	4	0	5,123,268:68:0	
1273	99	224	17:56:39.733	480SE6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	2R3	4	0	5,123,275:31:0	
1274	**99**	**224**	**18:05:29.066**	**22NNWHTOVL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1275	99	224	18:06:25.066	165DJ4A	**7SCAN**	**NORM,39.764,14.0**	**Check S/P Position**	2R3	4	0	5,123,284:90:0	
1276	**99**	**224**	**18:06:36.400**	**20DJ5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,123,285:16:0**	
1277	**99**	**224**	**18:06:39.733**	**20DJ5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,123,285:21:0**	
1278	**99**	**224**	**18:06:49.733**	**20DJ6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,123,285:36:0**	
1279	**99**	**224**	**18:06:59.733**	**20DJ6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,123,285:51:0**	
1280	**99**	**224**	**18:07:09.733**	**20DJ5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,123,285:66:0**	
1281	**99**	**224**	**18:07:13.066**	**20DJ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,123,285:71:0**	
1282	**99**	**224**	**18:07:19.066**	**20DJ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,123,285:80:0**	
1283	**99**	**224**	**18:08:22.400**	**125DJ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,123,286:84:0**	
1284	99	224	18:08:22.400	125DJ	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,123,286:84:0	
1285	**99**	**224**	**18:08:31.066**	**22NNWHTOVL01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1286	**99**	**224**	**18:08:31.066**	**22JNWHTOVL01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1287	**99**	**224**	**18:09:23.066**	**125DJ4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**5,123,287:84:0**	
1288	99	224	18:09:23.066	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	5,123,287:84:0	
1289	99	224	18:10:17.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5470.03 +/- 1	2R0	4	0	5,123,288:74:0	
1290	99	224	18:10:17.066	175DJ422A6A	6DMSC	R7,3	DMS Control	2R0	4	0	5,123,288:74:0	
1291	99	224	18:10:19.066	117DJ	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	5,123,288:77:0	
1292	**99**	**224**	**18:10:23.733**	**127DJ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,123,288:84:0**	
1293	99	224	18:10:23.733	127DJ	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	5,123,288:84:0	
1294	99	224	18:10:23.733		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5470.03 +/- 1	2R3	4	0	5,123,288:84:0	
1295	**99**	**224**	**18:10:24.400**	**127DJ4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,123,288:85:0**	
1296	99	224	18:10:25.066	175DJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	5,123,288:86:0	
1297	99	224	18:10:25.133		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5470.15 +/- 1	2R3	4	0	5,123,288:86:1	
1298	99	224	18:10:25.133		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5470.15 +/- 1	2R3	4	0	5,123,288:86:1	
1299	99	224	18:10:27.066	165DJ4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,288:89:0	
1300	99	224	18:10:28.400	117DJ105A106A4A	**7STRP**	**0.018002,0.0,0,0**	**Slew =,0.03**	2R3	4	0	5,123,289:00:0	
1301	99	224	18:10:32.400	127DJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,123,289:06:0	
1302	**99**	**224**	**18:10:32.400**	**22JNWHTOVL01-**	**NIMPBK**	**301DJ**	**JUPITER WHITE OVAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1303	99	224	18:13:14.400	432NS431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,291:67:0	
1304	99	224	18:13:15.066	432NS6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,291:68:0	
1305	**99**	**224**	**18:20:22.400**	**22JNWHTOVL01-**	**DESELC**	**300DJ**	**JUPITER WHITE OVAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1306	99	224	18:20:25.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5610.92 +/- 1	2R3	4	0	5,123,298:77:0	
1307	99	224	18:20:25.733	175DJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,298:77:0	
1308	99	224	18:20:25.733	175DJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,123,298:77:0	
1309	99	224	18:20:26.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5610.98 +/- 1	2R3	4	0	5,123,298:78:8	
1310	99	224	18:20:31.733	117DJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,123,298:86:0	
1311	**99**	**224**	**18:20:39.066**	**22JNWHTOVL01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1312	99	224	19:09:06.400	165IE4A	7SCAN	NORM,35.706,15.8	Check S/P Position	2R3	4	0	5,123,346:90:0	
1313	99	224	19:12:59.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5610.98 +/- 1	2R3	4	0	5,123,350:76:0	
1314	99	224	19:12:59.733	175ID422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,123,350:76:0	
1315	99	224	19:13:06.400		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 5610.98 +/- 1	2R3	4	0	5,123,350:86:0	
1316	99	224	19:13:11.066	175ID176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,123,351:02:0	
1317	99	224	19:13:11.666		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *5676.98 +/- 1	2R3	4	0	5,123,351:02:9	
1318	99	224	19:13:11.666		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5676.98 +/- 1	2R3	4	0	5,123,351:02:9	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	99	224	19:13:15.066		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5760.65 +/- 1	2R3	4	0	5,123,351:08:0	
1320	99	224	19:13:15.066	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,351:08:0	
1321	99	224	19:13:17.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5772.15 +/- 1	2R3	4	0	5,123,351:12:1	
1322	99	224	19:25:17.066	165IF4A	7SCAN	NORM,23.101,11.4	Check S/P Position	2R3	4	0	5,123,362:90:0	
1323	99	224	19:29:10.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5772.15 +/- 1	2R3	4	0	5,123,366:76:0	
1324	99	224	19:29:10.400	175IE422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,123,366:76:0	
1325	99	224	19:29:17.066		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 5772.15 +/- 1	2R3	4	0	5,123,366:86:0	
1326	99	224	19:29:21.733	175IE176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,123,367:02:0	
1327	99	224	19:29:22.333		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *5838.15 +/- 1	2R3	4	0	5,123,367:02:9	
1328	99	224	19:29:22.333		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5838.15 +/- 2	2R3	4	0	5,123,367:02:9	
1329	99	224	19:29:25.733	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,367:08:0	
1330	99	224	19:29:25.733		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5921.82 +/- 2	2R3	4	0	5,123,367:08:0	
1331	99	224	19:29:28.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5933.32 +/- 2	2R3	4	0	5,123,367:12:1	
1332	99	224	19:30:33.066	465KE6A	6DTRN	CMD,6DTRN,465KE6	DMS TRACK TURNAROUND	2R3	4	0	5,123,368:18:0	
1333	99	224	19:30:33.066		DMS:	: *DMS-TURN	P7, TRACK 3, FWD, TIC 5933.32 +/- 2	2R3	4	0	5,123,368:18:0	
1334	99	224	19:30:33.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5933.32 +/- 2	2R3	4	0	5,123,368:18:0	
1335	99	224	19:30:39.733		DMS:	: *RUNUP	P7, TRACK *3, FWD, TIC 5933.32 +/- 2	2R3	4	0	5,123,368:28:0	
1336	99	224	19:30:41.133		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC *5933.44 +/- 2	2R3	4	0	5,123,368:30:1	
1337	99	224	19:37:22.933		DMS:	: *REVERSE	P7, TRACK 3, FWD, TIC *6027.63 +/- 2	2R3	4	0	5,123,374:86:8	
1338	99	224	19:37:24.133		DMS:	: *TURNARND	P7, TRACK *4, *REV, TIC *6027.69 +/- 2	2R3	4	0	5,123,374:88:6	
1339	99	224	19:37:24.133		DMS:	: *RUNUP	P7, TRACK 4, REV, TIC 6027.69 +/- 2	2R3	4	0	5,123,374:88:6	
1340	99	224	19:37:25.533		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC *6027.57 +/-	2R3	4	0	5,123,374:90:7	
1341	99	224	19:37:37.533		DMS:	: *AUTOSTOP	P7, TRACK 4, REV, TIC *6025.44 +/-	2R3	4	0	5,123,375:17:7	
1342	99	224	19:37:38.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *6025.38 +/-	2R3	4	0	5,123,375:19:5	
1343	**99**	**224**	**19:40:31.733**	**22NNBELUSL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1344	**99**	**224**	**19:41:43.066**	**20DH5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,123,379:22:0**	
1345	**99**	**224**	**19:41:44.400**	**20DH5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,123,379:24:0**	
1346	**99**	**224**	**19:41:46.400**	**20DH6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,123,379:27:0**	
1347	99	224	19:41:53.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 6025.38 +/-	2R3	4	0	5,123,379:38:0	
1348	99	224	19:41:53.733	465KF6A	6DMSC	P7,4	DMS Control Tape P/B 7.68kbps	2R3	4	0	5,123,379:38:0	
1349	99	224	19:41:55.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6025.50 +/-	2R3	4	0	5,123,379:40:1	
1350	**99**	**224**	**19:41:56.400**	**20DH6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,123,379:42:0**	
1351	99	224	19:42:00.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6026.73 +/-	2R3	4	0	5,123,379:48:0	
1352	99	224	19:42:01.600		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC *6026.79 +/-	2R3	4	0	5,123,379:49:8	
1353	99	224	19:42:03.000		DMS:	: *P_SLEW	P7, TRACK 4, REV, TIC *6026.67 +/-	2R3	4	0	5,123,379:51:9	
1354	99	224	19:42:03.000		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC 6026.67 +/-	2R3	4	0	5,123,379:51:9	
1355	**99**	**224**	**19:42:09.733**	**20DH5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,123,379:62:0**	
1356	**99**	**224**	**19:42:13.066**	**20DH5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,123,379:67:0**	
1357	**99**	**224**	**19:42:44.400**	**20DH4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,123,380:23:0**	
1358	99	224	19:43:12.400	465KF6B	6DMSC	RDY,4	DMS Control Tape stop	2R0	4	0	5,123,380:65:0	
1359	99	224	19:43:12.400		DMS:	**: *RUNDOWN**	P7, TRACK 4, REV, TIC *6010.41 +/-	2R0	4	0	5,123,380:65:0	
1360	99	224	19:43:13.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *6010.35 +/-	2R0	4	0	5,123,380:66:8	
1361	**99**	**224**	**19:43:33.733**	**22NNBELUSL01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1362	99	224	19:44:18.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 6010.35 +/-	2R0	4	0	5,123,381:73:0	
1363	99	224	19:44:18.400	175NA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R0	4	0	5,123,381:73:0	
1364	99	224	19:44:19.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6010.47 +/-	2R0	4	0	5,123,381:75:1	
1365	99	224	19:44:25.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6011.70 +/-	2R0	4	0	5,123,381:83:0	
1366	**99**	**224**	**19:44:25.733**	**125DH4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R0**	**4**	**0**	**5,123,381:84:0**	
1367	99	224	19:44:25.733	125DH	NIMSINIT	GS	##### GROUP START INIT	3R0	4	0	5,123,381:84:0	
1368	99	224	19:44:26.266		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *6011.76 +/-	3R0	4	0	5,123,381:84:8	
1369	99	224	19:44:29.733	175NA176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	3R0	4	0	5,123,381:90:0	
1370	99	224	19:44:30.266		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *6005.46 +/-	3R0	4	0	5,123,381:90:8	
1371	99	224	19:44:30.266		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 6005.46 +/-	3R0	4	0	5,123,381:90:8	
1372	99	224	19:45:26.400	125DH11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	5,123,382:84:0	
1373	**99**	**224**	**19:45:26.400**	**125DH4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**3R0**	**4**	**0**	**5,123,382:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1374	**99**	**224**	**19:47:27.733**	**127DH4A**	**37IOP**	**4,0**	**Long Spectrometer, Grating Start Position**	**3R4**	**4**	**0**	**5,123,384:84:0**
1375	99	224	19:47:27.733	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	3R4	4	0	5,123,384:84:0
1376	**99**	**224**	**19:47:28.400**	**127DH4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R4**	**4**	**0**	**5,123,384:85:0**
1377	99	224	19:47:31.733	165DH4A	**7SCAN**	**NORM,335.764,-9.**	**Check S/P Position**	3R4	4	0	5,123,384:90:0
1378	99	224	19:47:36.400	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R4	4	0	5,123,385:06:0
1379	**99**	**224**	**19:47:36.400**	**22ENBELUSL01-**		**-----START------**		**3R4**	**4**	**0**	**: :**
1380	99	224	19:49:17.733	175NA422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R4	4	0	5,123,386:67:0
1381	99	224	19:49:17.733		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4994.84 +/-	3R4	4	0	5,123,386:67:0
1382	99	224	19:49:18.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4993.84 +/-	3R4	4	0	5,123,386:68:8
1383	99	224	19:51:20.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4993.84 +/-	3R4	4	0	5,123,388:69:0
1384	99	224	19:51:20.400	175DH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R4	4	0	5,123,388:69:0
1385	99	224	19:51:21.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4993.96 +/-	3R4	4	0	5,123,388:71:1
1386	99	224	19:51:27.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4995.19 +/-	3R4	4	0	5,123,388:79:0
1387	99	224	19:51:28.266		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *4995.25 +/-	3R4	4	0	5,123,388:80:8
1388	99	224	19:51:31.733	175DH176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R4	4	0	5,123,388:86:0
1389	99	224	19:51:32.266		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *4993.75 +/-	3R4	4	0	5,123,388:86:8
1390	99	224	19:51:32.266		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 4993.75 +/-	3R4	4	0	5,123,388:86:8
1391	99	224	19:51:33.733	165DH4B	7VECT		Inert vect update UTC	3R4	4	0	5,123,388:89:0
1392	99	224	20:01:35.066		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *4463.95 +/-	3R4	4	0	5,123,398:81:0
1393	99	224	20:01:35.066	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R4	4	0	5,123,398:81:0
1394	99	224	20:01:36.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4463.65 +/-	3R4	4	0	5,123,398:82:8
1395	99	224	20:01:41.066	165DI4A	**7SCAN**	**NORM,339.254997,**	**Check S/P Position**	3R4	4	0	5,123,398:90:0
1396	**99**	**224**	**20:01:45.732**	**22NNGLOBAL01-**		**-----START------**		**3R4**	**4**	**0**	**: :**
1397	**99**	**224**	**20:01:45.732**	**22ENBELUSL01-**		**-----STOP-------**		**3R4**	**4**	**0**	**: :**
1398	**99**	**224**	**20:02:53.066**	**20DI5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R4**	**4**	**0**	**5,123,400:16:0**
1399	**99**	**224**	**20:02:56.400**	**20DI5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R4**	**4**	**0**	**5,123,400:21:0**
1400	**99**	**224**	**20:03:06.400**	**20DI6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R4**	**4**	**0**	**5,123,400:36:0**
1401	**99**	**224**	**20:03:16.400**	**20DI6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R4**	**4**	**0**	**5,123,400:51:0**
1402	**99**	**224**	**20:03:26.400**	**20DI5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,123,400:66:0**
1403	**99**	**224**	**20:03:29.733**	**20DI5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,123,400:71:0**
1404	**99**	**224**	**20:03:35.733**	**20DI4A**	**37IST**	**1,2,0,OFF,0,1,2**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**3R0**	**4**	**0**	**5,123,400:80:0**
1405	**99**	**224**	**20:04:47.732**	**22NNGLOBAL01-**		**-----STOP-------**		**3R0**	**4**	**0**	**: :**
1406	**99**	**224**	**20:04:47.732**	**22ENGLOBAL01***		**-----START------**		**3R0**	**4**	**0**	**: :**
1407	99	224	20:05:32.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4463.65 +/-	3R0	4	0	5,123,402:73:0
1408	99	224	20:05:32.400	175DI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R0	4	0	5,123,402:73:0
1409	99	224	20:05:33.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4463.77 +/-	3R0	4	0	5,123,402:75:1
1410	99	224	20:05:35.066	117DI	**CSMOS**	GS	***** GROUP START CSMOS	3R0	4	0	5,123,402:77:0
1411	99	224	20:05:39.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4465.00 +/-	3R0	4	0	5,123,402:83:0
1412	99	224	20:05:39.733	127DI	NIMSTAB	GS	%%%%% GROUP START TAB	3R0	4	0	5,123,402:84:0
1413	**99**	**224**	**20:05:39.733**	**127DI4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**5,123,402:84:0**
1414	99	224	20:05:40.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4465.06 +/-	3R3	4	0	5,123,402:84:8
1415	**99**	**224**	**20:05:40.400**	**127DI4B**	**37ETB**	**07,C7,02,3C,00,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**5,123,402:85:0**
1416	99	224	20:05:41.066	175DI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	5,123,402:86:0
1417	99	224	20:05:41.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4464.94 +/-	3R3	4	0	5,123,402:86:9
1418	99	224	20:05:41.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4464.94 +/-	3R3	4	0	5,123,402:86:9
1419	99	224	20:05:43.066	165DI4B	7VECT		Inert vect update UTC	3R3	4	0	5,123,402:89:0
1420	99	224	20:05:44.400	117DI105A106A4A	**7STRP**	**-0.017802,0.0,0,**	**Slew =,0.03**	3R3	4	0	5,123,403:00:0
1421	99	224	20:05:48.400	127DI11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	5,123,403:06:0
1422	**99**	**224**	**20:11:43.733**	**125EX4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**5,123,408:84:0**
1423	99	224	20:11:43.733	125EX11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	5,123,408:84:0
1424	99	224	20:11:43.733	125EX	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	5,123,408:84:0
1425	99	224	20:15:42.400	117DI105A106A4B	**7STRP**	**0.017802,-0.008,**	**Slew =12.01**	2R3	4	0	5,123,412:78:0
1426	99	224	20:15:46.400	125EY	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	5,123,412:84:0
1427	99	224	20:15:46.400	125EY11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	5,123,412:84:0
1428	**99**	**224**	**20:15:46.400**	**125EY4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**5,123,412:84:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	99	224	20:15:55.733	117DI105A106A4C	**7STRP**	**-0.017802,0.0,0,**	**Slew =,0.03**	3R3	4	0	5,123,413:07:0	
1430	**99**	**224**	**20:21:50.400**	**125EZ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**5,123,418:84:0**	
1431	99	224	20:21:50.400	125EZ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	5,123,418:84:0	
1432	99	224	20:21:50.400	125EZ11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	5,123,418:84:0	
1433	99	224	20:25:53.066	125FI	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	5,123,422:84:0	
1434	99	224	20:25:53.066	127FI	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	5,123,422:84:0	
1435	99	224	20:25:53.066	125FI11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	5,123,422:84:0	
1436	**99**	**224**	**20:25:53.066**	**125FI4A**	**37IST**	**0,2,1,OFF,1,1,1**	**OPCALGain State 4**	**4R3**	**4**	**0**	**5,123,422:84:0**	
1437	**99**	**224**	**20:25:53.733**	**127FI4A**	**37ETB**	**07,C7,31,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,123,422:85:0**	
1438	99	224	20:25:53.733	117DI11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,123,422:85:0	
1439	**99**	**224**	**20:26:01.732**	**22ENGLOBAL01***		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1440	99	224	20:26:01.733	127FI11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,123,423:06:0	
1441	99	224	20:27:59.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4151.49 +/-	4R3	4	0	5,123,425:00:0	
1442	99	224	20:27:59.066	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,123,425:00:0	
1443	99	224	20:27:59.066	175DI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	5,123,425:00:0	
1444	99	224	20:28:00.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4151.43 +/-	4R3	4	0	5,123,425:01:8	
1445	**99**	**224**	**20:36:08.399**	**22NNWHTOVL02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1446	**99**	**224**	**20:37:15.733**	**20DK5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**5,123,434:16:0**	
1447	**99**	**224**	**20:37:19.066**	**20DK5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**5,123,434:21:0**	
1448	**99**	**224**	**20:37:29.066**	**20DK6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**5,123,434:36:0**	
1449	**99**	**224**	**20:37:39.066**	**20DK6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**5,123,434:51:0**	
1450	**99**	**224**	**20:37:49.066**	**20DK5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,123,434:66:0**	
1451	**99**	**224**	**20:37:52.400**	**20DK5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,123,434:71:0**	
1452	**99**	**224**	**20:37:58.400**	**20DK4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,123,434:80:0**	
1453	**99**	**224**	**20:39:10.399**	**22NNWHTOVL02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1454	99	224	20:40:06.400	165DK4A	**7SCAN**	**NORM,52.285,21.7**	**Check S/P Position**	2R0	4	0	5,123,436:90:0	
1455	**99**	**224**	**20:40:11.066**	**22JNWHTOVL02-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1456	99	224	20:41:03.066	125DK	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,123,437:84:0	
1457	**99**	**224**	**20:41:03.066**	**125DK4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,123,437:84:0**	
1458	99	224	20:42:03.733	125DK11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	5,123,438:84:0	
1459	**99**	**224**	**20:42:03.733**	**125DK4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**5,123,438:84:0**	
1460	99	224	20:43:57.733	175DK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	5,123,440:73:0	
1461	99	224	20:43:57.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4151.43 +/-	2R0	4	0	5,123,440:73:0	
1462	99	224	20:43:59.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4151.55 +/-	2R0	4	0	5,123,440:75:1	
1463	99	224	20:44:00.400	117DK	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	5,123,440:77:0	
1464	99	224	20:44:04.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4152.78 +/-	2R0	4	0	5,123,440:83:0	
1465	**99**	**224**	**20:44:05.066**	**127DK4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,123,440:84:0**	
1466	99	224	20:44:05.066	127DK	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	5,123,440:84:0	
1467	99	224	20:44:05.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4152.84 +/-	2R3	4	0	5,123,440:84:8	
1468	**99**	**224**	**20:44:05.733**	**127DK4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,123,440:85:0**	
1469	99	224	20:44:06.400	175DK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	5,123,440:86:0	
1470	99	224	20:44:07.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4152.72 +/-	2R3	4	0	5,123,440:86:9	
1471	99	224	20:44:07.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4152.72 +/-	2R3	4	0	5,123,440:86:9	
1472	**99**	**224**	**20:44:07.733**	**22JNWHTOVL02-**	**NIMPBK**	**301DK**	**JUPITER WHITE OVAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1473	99	224	20:44:08.400	165DK4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,440:89:0	
1474	99	224	20:44:09.733	117DK105A106A4A	**7STRP**	**0.032511,0.0,0,0**	**Slew =,0.03**	2R3	4	0	5,123,441:00:0	
1475	99	224	20:44:13.733	127DK11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,123,441:06:0	
1476	**99**	**224**	**20:54:20.399**	**22JNWHTOVL02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1477	**99**	**224**	**20:59:27.066**	**22JNWHTOVL02-**	**DESELC**	**300DK**	**JUPITER WHITE OVAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1478	99	224	21:01:17.066	175DK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,123,457:85:0	
1479	99	224	21:01:17.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3911.30 +/-	2R3	4	0	5,123,457:85:0	
1480	99	224	21:01:17.066	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,457:85:0	
1481	99	224	21:01:18.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3911.24 +/-	2R3	4	0	5,123,457:86:8	
1482	99	224	21:02:18.400	117DK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,123,458:86:0	
1483	**99**	**224**	**21:06:28.399**	**22NNDKSPOT01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	99	224	21:07:24.400	165DL4A	**7SCAN**	**NORM,58.182,19.3**	**Check S/P Position**	2R3	4	0	5,123,463:90:0	
1485	**99**	**224**	**21:07:35.733**	**20DL5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,123,464:16:0**	
1486	**99**	**224**	**21:07:39.066**	**20DL5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,123,464:21:0**	
1487	**99**	**224**	**21:07:49.066**	**20DL6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,123,464:36:0**	
1488	**99**	**224**	**21:07:59.066**	**20DL6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,123,464:51:0**	
1489	**99**	**224**	**21:08:09.066**	**20DL5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,123,464:66:0**	
1490	**99**	**224**	**21:08:12.400**	**20DL5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,123,464:71:0**	
1491	**99**	**224**	**21:08:18.400**	**20DL4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,123,464:80:0**	
1492	**99**	**224**	**21:09:30.399**	**22JNDKSPOT01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1493	**99**	**224**	**21:09:30.399**	**22NNDKSPOT01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1494	**99**	**224**	**21:10:22.400**	**127DL4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,123,466:84:0**	
1495	99	224	21:10:22.400	127DL	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	5,123,466:84:0	
1496	**99**	**224**	**21:10:23.066**	**127DL4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,123,466:85:0**	
1497	99	224	21:10:31.066	127DL11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,123,467:06:0	
1498	99	224	21:11:15.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3911.24 +/-	2R3	4	0	5,123,467:73:0	
1499	99	224	21:11:15.733	175DL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,123,467:73:0	
1500	99	224	21:11:17.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3911.36 +/-	2R3	4	0	5,123,467:75:1	
1501	99	224	21:11:18.400	117DL	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,123,467:77:0	
1502	99	224	21:11:22.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3912.59 +/-	2R3	4	0	5,123,467:83:0	
1503	99	224	21:11:23.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3912.65 +/-	2R3	4	0	5,123,467:84:8	
1504	99	224	21:11:24.400	175DL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	5,123,467:86:0	
1505	99	224	21:11:25.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3912.53 +/-	2R3	4	0	5,123,467:86:9	
1506	99	224	21:11:25.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3912.53 +/-	2R3	4	0	5,123,467:86:9	
1507	99	224	21:11:26.400	165DL4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,467:89:0	
1508	99	224	21:11:27.733	117DL105A106A4A	**7STRP**	**0.03081,0.0,0,0,**	**Slew =,0.03**	2R3	4	0	5,123,468:00:0	
1509	99	224	21:12:23.733	125DL	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	5,123,468:84:0	
1510	99	224	21:12:23.733	125DL11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	5,123,468:84:0	
1511	**99**	**224**	**21:12:23.733**	**125DL4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**5,123,468:84:0**	
1512	99	224	21:14:38.400	488AE6B	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,471:13:0	
1513	**99**	**224**	**21:17:30.400**	**22JNDKSPOT01-**	**NIMPBK**	**301DL**	**JUPITER DARK SPOT OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1514	**99**	**224**	**21:21:38.399**	**22JNDKSPOT01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1515	99	224	21:28:35.733	117DL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,123,484:86:0	
1516	**99**	**224**	**21:28:39.066**	**22JNDKSPOT01-**	**DESELC**	**300DL**	**JUPITER DARK SPOT OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1517	99	224	21:29:55.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3652.36 +/-	2R3	4	0	5,123,486:23:0	
1518	99	224	21:29:55.066	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,486:23:0	
1519	99	224	21:29:55.066	175DL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,123,486:23:0	
1520	99	224	21:29:56.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3652.30 +/-	2R3	4	0	5,123,486:24:8	
1521	99	224	22:05:02.400	165IG4A	7SCAN	NORM,39.713,17.3	Check S/P Position	2R3	4	0	5,123,520:90:0	
1522	99	224	22:08:54.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3652.30 +/-	2R3	4	0	5,123,524:74:0	
1523	99	224	22:08:54.400	175IF422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,123,524:74:0	
1524	99	224	22:08:55.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3652.42 +/-	2R3	4	0	5,123,524:76:1	
1525	99	224	22:09:01.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3653.66 +/-	2R3	4	0	5,123,524:84:0	
1526	99	224	22:09:02.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *3653.72 +/-	2R3	4	0	5,123,524:85:8	
1527	99	224	22:09:07.066	175IF176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,123,525:02:0	
1528	99	224	22:09:07.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 3587.72 +/-	2R3	4	0	5,123,525:02:7	
1529	99	224	22:09:07.533		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *3587.72 +/-	2R3	4	0	5,123,525:02:7	
1530	99	224	22:09:11.066		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *3500.76 +/-	2R3	4	0	5,123,525:08:0	
1531	99	224	22:09:11.066	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,525:08:0	
1532	99	224	22:09:13.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3489.26 +/-	2R3	4	0	5,123,525:12:1	
1533	99	224	22:29:18.400	488AF6A	6TMSED	NORM,FL4	Sci, Eng, and D/L Chan	2R3	4	0	5,123,544:90:0	
1534	99	224	23:44:59.733	480SF6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	2R3	4	0	5,123,619:77:0	
1535	99	224	23:51:39.733	480SF6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	2R3	4	0	5,123,626:40:0	
1536	99	224	23:59:49.066	488AF6B	6TMSED	FILL,FL4	Sci, Eng, and D/L Chan	2R3	4	0	5,123,634:46:0	
1537	99	225	00:04:21.066	165CA4A	7SCAN	NORM,50.964,20.7	Check S/P Position	2R3	4	0	5,123,638:90:0	
1538	99	225	00:07:22.400	165CA4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,641:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	99	225	00:33:28.400	488AF6C	6TMSED	NORM,FL4	Sci, Eng, and D/L Chan	2R3	4	0	5,123,667:72:0	
1540	99	225	00:43:42.400	488AF6D	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,677:83:0	
1541	99	225	00:57:56.400	165CB4A	7SCAN	NORM,55.668,21.8	Check S/P Position	2R3	4	0	5,123,691:90:0	
1542	99	225	00:58:56.400	165CB4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,692:89:0	
1543	99	225	00:59:59.733	488AF6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,694:02:0	
1544	99	225	01:30:09.733	165CB4C	7VECT		Inert vect update UTC	2R3	4	0	5,123,723:78:0	
1545	99	225	02:01:38.333	165IH4A	7SCAN	NORM,61.325,22.8	Check S/P Position	2R3	4	0	5,123,754:90:0	
1546	99	225	02:02:28.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3489.26 +/-	2R3	4	0	5,123,755:74:0	
1547	99	225	02:02:28.333	175IG422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,123,755:74:0	
1548	99	225	02:02:29.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3489.38 +/-	2R3	4	0	5,123,755:76:1	
1549	99	225	02:02:35.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3490.62 +/-	2R3	4	0	5,123,755:84:0	
1550	99	225	02:02:36.200		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *3490.68 +/-	2R3	4	0	5,123,755:85:8	
1551	99	225	02:02:41.000	165CM4A	7SCAN	NORM,61.376,22.9	Check S/P Position	2R3	4	0	5,123,756:02:0	
1552	99	225	02:02:41.000	175IG176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,123,756:02:0	
1553	99	225	02:02:41.466		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *3424.68 +/-	2R3	4	0	5,123,756:02:7	
1554	99	225	02:02:41.466		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 3424.68 +/- 1	2R3	4	0	5,123,756:02:7	
1555	99	225	02:02:45.000		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *3337.72 +/- 1	2R3	4	0	5,123,756:08:0	
1556	99	225	02:02:45.000	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,756:08:0	
1557	99	225	02:02:47.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3326.22 +/- 1	2R3	4	0	5,123,756:12:1	
1558	99	225	02:03:39.000	165CM4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,756:89:0	
1559	99	225	02:08:51.666	20MC6A	6CKSUM	MAG,4040,46F0		2R3	4	0	5,123,762:12:0	
1560	99	225	03:12:24.333	165CM4C	7VECT		Inert vect update UTC	2R3	4	0	5,123,824:89:0	
1561	99	225	05:02:37.666	165II4A	7SCAN	NORM,76.513,24.8	Check S/P Position	2R3	4	0	5,123,933:90:0	
1562	99	225	05:06:35.000	118II	**SMOS**	GS		2R3	4	0	5,123,937:82:0	
1563	99	225	05:06:39.666	165II4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,937:89:0	
1564	99	225	05:06:45.000	118II110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2R3	4	0	5,123,938:06:0	
1565	99	225	05:07:03.000	175IH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,123,938:33:0	
1566	99	225	05:07:03.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3326.22 +/- 1	2R3	4	0	5,123,938:33:0	
1567	99	225	05:07:04.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3326.34 +/- 1	2R3	4	0	5,123,938:35:1	
1568	99	225	05:07:09.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3327.58 +/- 1	2R3	4	0	5,123,938:43:0	
1569	99	225	05:07:10.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3327.64 +/- 1	2R3	4	0	5,123,938:44:8	
1570	99	225	05:07:14.333	175IH176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,123,938:50:0	
1571	99	225	05:07:14.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3321.34 +/- 1	2R3	4	0	5,123,938:50:8	
1572	99	225	05:07:14.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3321.34 +/- 1	2R3	4	0	5,123,938:50:8	
1573	99	225	05:07:15.666	118II11A	**SMOS**	GE		2R3	4	0	5,123,938:52:0	
1574	99	225	05:07:41.666	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,939:00:0	
1575	99	225	05:07:41.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *3227.12 +/- 1	2R3	4	0	5,123,939:00:0	
1576	99	225	05:07:42.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3226.12 +/- 1	2R3	4	0	5,123,939:01:8	
1577	99	225	05:15:00.333	488AG6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,946:21:0	
1578	99	225	07:15:00.333	20TS4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R3	4	0	5,124,064:83:0	
1579	99	225	07:15:50.333	20TS4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,124,065:67:0	
1580	99	225	07:15:58.333	20TS4F	7STAR	1,1610,278.815,3	Star catalog update	2R3	4	0	5,124,065:79:0	
1581	99	225	07:16:00.333	20TS4G	7STAR	2,375,305.427,-5	Star catalog update	2R3	4	0	5,124,065:82:0	
1582	99	225	07:16:02.333	20TS4H	7STAR	3,317,120.456,-3	Star catalog update	2R3	4	0	5,124,065:85:0	
1583	99	225	07:16:04.333	20TS4I	7STAR	4,0,0.0,0.0	Star catalog update	2R3	4	0	5,124,065:88:0	
1584	99	225	07:16:06.333	20TS4J	7STAR	5,0,0.0,0.0	Star catalog update	2R3	4	0	5,124,066:00:0	
1585	99	225	07:16:08.333	20TS4K	7STAR	6,0,0.0,0.0	Star catalog update	2R3	4	0	5,124,066:03:0	
1586	99	225	07:47:26.333	165IJ4A	7SCAN	NORM,90.841999,2	Check S/P Position	2R3	4	0	5,124,096:90:0	
1587	99	225	07:51:19.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3226.12 +/- 1	2R3	4	0	5,124,100:75:0	
1588	99	225	07:51:19.000	175II422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,100:75:0	
1589	99	225	07:51:20.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3226.24 +/- 1	2R3	4	0	5,124,100:77:1	
1590	99	225	07:51:21.666	118IJ	**SMOS**	GS		2R3	4	0	5,124,100:79:0	
1591	99	225	07:51:25.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3227.47 +/- 1	2R3	4	0	5,124,100:85:0	
1592	99	225	07:51:26.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3227.53 +/- 1	2R3	4	0	5,124,100:86:8	
1593	99	225	07:51:30.333	175II176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,101:01:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	99	225	07:51:30.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3221.23 +/- 1	2R3	4	0	5,124,101	01:8
1595	99	225	07:51:30.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3221.23 +/- 1	2R3	4	0	5,124,101	01:8
1596	99	225	07:51:31.666	118IJ110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,101	03:0
1597	99	225	07:51:47.000	118IJ110A111A4B	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,101	26:0
1598	99	225	07:52:02.333	118IJ110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,101	49:0
1599	99	225	07:52:17.666	118IJ110A111A4D	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,101	72:0
1600	99	225	07:52:33.000	118IJ110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,102	04:0
1601	99	225	07:52:48.333	118IJ110A111A4F	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,102	27:0
1602	99	225	07:53:03.666	118IJ110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,102	50:0
1603	99	225	07:53:19.000	118IJ11A	**SMOS**	GE		2R3	4	0	5,124,102	73:0
1604	99	225	07:53:30.333	165IK4A	7SCAN	NORM,89.801999,2	Check S/P Position	2R3	4	0	5,124,102	90:0
1605	99	225	07:53:31.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2798.89 +/- 1	2R3	4	0	5,124,103	00:0
1606	99	225	07:53:31.000	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,103	00:0
1607	99	225	07:53:32.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2797.89 +/- 1	2R3	4	0	5,124,103	01:8
1608	99	225	07:55:21.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2797.89 +/- 1	2R3	4	0	5,124,104	75:0
1609	99	225	07:55:21.666	175IJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,104	75:0
1610	99	225	07:55:23.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2798.01 +/- 1	2R3	4	0	5,124,104	77:1
1611	99	225	07:55:24.333	118IK	**SMOS**	GS		2R3	4	0	5,124,104	79:0
1612	99	225	07:55:28.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2799.24 +/- 1	2R3	4	0	5,124,104	85:0
1613	99	225	07:55:29.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2799.30 +/- 1	2R3	4	0	5,124,104	86:8
1614	99	225	07:55:33.000	175IJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,105	01:0
1615	99	225	07:55:33.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2793.00 +/- 1	2R3	4	0	5,124,105	01:8
1616	99	225	07:55:33.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2793.00 +/- 1	2R3	4	0	5,124,105	01:8
1617	99	225	07:55:34.333	118IK110A111A4A	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,105	03:0
1618	99	225	07:55:49.666	118IK110A111A4B	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,105	26:0
1619	99	225	07:56:05.000	118IK110A111A4C	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,105	49:0
1620	99	225	07:56:20.333	118IK110A111A4D	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,105	72:0
1621	99	225	07:56:35.666	118IK110A111A4E	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,106	04:0
1622	99	225	07:56:51.000	118IK110A111A4F	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,106	27:0
1623	99	225	07:57:06.333	118IK110A111A4G	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,106	50:0
1624	99	225	07:57:21.666	118IK11A	**SMOS**	GE		2R3	4	0	5,124,106	73:0
1625	99	225	07:57:33.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2370.66 +/- 1	2R3	4	0	5,124,107	00:0
1626	99	225	07:57:33.666	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,107	00:0
1627	99	225	07:57:34.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2369.66 +/- 1	2R3	4	0	5,124,107	01:8
1628	99	225	08:02:36.333	165IL4A	7SCAN	NORM,89.216,23.3	Check S/P Position	2R3	4	0	5,124,111	90:0
1629	99	225	08:04:27.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2369.66 +/- 1	2R3	4	0	5,124,113	75:0
1630	99	225	08:04:27.666	175IK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,113	75:0
1631	99	225	08:04:29.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2369.78 +/- 1	2R3	4	0	5,124,113	77:1
1632	99	225	08:04:30.333	118IL	**SMOS**	GS		2R3	4	0	5,124,113	79:0
1633	99	225	08:04:34.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2371.02 +/- 1	2R3	4	0	5,124,113	85:0
1634	99	225	08:04:35.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2371.08 +/- 1	2R3	4	0	5,124,113	86:8
1635	99	225	08:04:39.000	175IK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,114	01:0
1636	99	225	08:04:39.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2364.78 +/- 1	2R3	4	0	5,124,114	01:8
1637	99	225	08:04:39.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2364.78 +/- 1	2R3	4	0	5,124,114	01:8
1638	99	225	08:04:40.333	118IL110A111A4A	7STRP	0.007,-0.00025,4	Slew =,3.51	2R3	4	0	5,124,114	03:0
1639	99	225	08:04:55.666	118IL110A111A4B	7STRP	-0.007,0.00025,0	Slew =,3.51	2R3	4	0	5,124,114	26:0
1640	99	225	08:05:11.000	118IL110A111A4C	7STRP	0.007,-0.00025,4	Slew =,3.51	2R3	4	0	5,124,114	49:0
1641	99	225	08:05:26.333	118IL110A111A4D	7STRP	-0.007,0.00025,0	Slew =,3.51	2R3	4	0	5,124,114	72:0
1642	99	225	08:05:41.666	118IL110A111A4E	7STRP	0.007,-0.00025,4	Slew =,3.51	2R3	4	0	5,124,115	04:0
1643	99	225	08:05:57.000	118IL110A111A4F	7STRP	-0.007,0.00025,0	Slew =,3.51	2R3	4	0	5,124,115	27:0
1644	99	225	08:06:12.333	118IL110A111A4G	7STRP	0.007,-0.00025,4	Slew =,3.51	2R3	4	0	5,124,115	50:0
1645	99	225	08:06:27.666	118IL11A	**SMOS**	GE		2R3	4	0	5,124,115	73:0
1646	99	225	08:06:39.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1942.43 +/- 1	2R3	4	0	5,124,116	00:0
1647	99	225	08:06:39.666	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,116	00:0
1648	99	225	08:06:40.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1941.43 +/- 1	2R3	4	0	5,124,116	01:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	99	225	08:14:44.333	165IM4A	7SCAN	NORM,91.709,25.9	Check S/P Position	2R3	4	0	5,124,123	90:0
1650	99	225	08:16:35.666	175IL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,125	75:0
1651	99	225	08:16:35.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1941.43 +/- 1	2R3	4	0	5,124,125	75:0
1652	99	225	08:16:37.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1941.55 +/- 1	2R3	4	0	5,124,125	77:1
1653	99	225	08:16:38.333	118IM	**SMOS**	GS		2R3	4	0	5,124,125	79:0
1654	99	225	08:16:42.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1942.79 +/- 1	2R3	4	0	5,124,125	85:0
1655	99	225	08:16:43.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1942.85 +/- 1	2R3	4	0	5,124,125	86:8
1656	99	225	08:16:47.000	175IL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,126	01:0
1657	99	225	08:16:47.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1936.55 +/- 1	2R3	4	0	5,124,126	01:8
1658	99	225	08:16:47.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1936.55 +/- 1	2R3	4	0	5,124,126	01:8
1659	99	225	08:16:48.333	118IM110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,126	03:0
1660	99	225	08:17:03.666	118IM110A111A4B	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,126	26:0
1661	99	225	08:17:19.000	118IM110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,126	49:0
1662	99	225	08:17:34.333	118IM110A111A4D	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,126	72:0
1663	99	225	08:17:49.666	118IM110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,127	04:0
1664	99	225	08:18:05.000	118IM110A111A4F	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,127	27:0
1665	99	225	08:18:20.333	118IM110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,127	50:0
1666	99	225	08:18:35.666	118IM11A	**SMOS**	GE		2R3	4	0	5,124,127	73:0
1667	99	225	08:18:47.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1514.20 +/- 1	2R3	4	0	5,124,128	00:0
1668	99	225	08:18:47.666	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,128	00:0
1669	99	225	08:18:48.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1513.20 +/- 1	2R3	4	0	5,124,128	01:8
1670	99	225	08:23:50.333	165IN4A	7SCAN	NORM,90.863999,2	Check S/P Position	2R3	4	0	5,124,132	90:0
1671	99	225	08:25:41.666	175IM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,134	75:0
1672	99	225	08:25:41.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1513.20 +/- 1	2R3	4	0	5,124,134	75:0
1673	99	225	08:25:43.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1513.32 +/- 1	2R3	4	0	5,124,134	77:1
1674	99	225	08:25:44.333	118IN	**SMOS**	GS		2R3	4	0	5,124,134	79:0
1675	99	225	08:25:48.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1514.56 +/- 1	2R3	4	0	5,124,134	85:0
1676	99	225	08:25:49.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1514.62 +/- 1	2R3	4	0	5,124,134	86:8
1677	99	225	08:25:53.000	175IM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,135	01:0
1678	99	225	08:25:53.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1508.32 +/- 1	2R3	4	0	5,124,135	01:8
1679	99	225	08:25:53.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1508.32 +/- 1	2R3	4	0	5,124,135	01:8
1680	99	225	08:25:54.333	118IN110A111A4A	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,135	03:0
1681	99	225	08:26:09.666	118IN110A111A4B	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,135	26:0
1682	99	225	08:26:25.000	118IN110A111A4C	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,135	49:0
1683	99	225	08:26:40.333	118IN110A111A4D	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,135	72:0
1684	99	225	08:26:55.666	118IN110A111A4E	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,136	04:0
1685	99	225	08:27:11.000	118IN110A111A4F	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,136	27:0
1686	99	225	08:27:26.333	118IN110A111A4G	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,136	50:0
1687	99	225	08:27:41.666	118IN11A	**SMOS**	GE		2R3	4	0	5,124,136	73:0
1688	99	225	08:27:53.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1085.97 +/- 1	2R3	4	0	5,124,137	00:0
1689	99	225	08:27:53.666	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,137	00:0
1690	99	225	08:27:54.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1084.97 +/- 1	2R3	4	0	5,124,137	01:8
1691	99	225	08:35:10.333	488AG6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	5,124,144	18:0
1692	99	225	08:40:01.000	165IO4A	7SCAN	NORM,92.551999,2	Check S/P Position	2R3	4	0	5,124,148	90:0
1693	99	225	08:41:52.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1084.97 +/- 1	2R3	4	0	5,124,150	75:0
1694	99	225	08:41:52.333	175IN422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,150	75:0
1695	99	225	08:41:53.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1085.09 +/- 1	2R3	4	0	5,124,150	77:1
1696	99	225	08:41:55.000	118IO	**SMOS**	GS		2R3	4	0	5,124,150	79:0
1697	99	225	08:41:59.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1086.33 +/- 1	2R3	4	0	5,124,150	85:0
1698	99	225	08:42:00.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1086.39 +/- 1	2R3	4	0	5,124,150	86:8
1699	99	225	08:42:03.666	175IN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,151	01:0
1700	99	225	08:42:04.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1080.09 +/- 1	2R3	4	0	5,124,151	01:8
1701	99	225	08:42:04.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1080.09 +/- 1	2R3	4	0	5,124,151	01:8
1702	99	225	08:42:05.000	118IO110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,151	03:0
1703	99	225	08:42:20.333	118IO110A111A4B	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,151	26:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	99	225	08:42:35.666	118IO110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,151:49:0	
1705	99	225	08:42:51.000	118IO110A111A4D	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,151:72:0	
1706	99	225	08:43:06.333	118IO110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,152:04:0	
1707	99	225	08:43:21.666	118IO110A111A4F	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,152:27:0	
1708	99	225	08:43:37.000	118IO110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,152:50:0	
1709	99	225	08:43:52.333	118IO11A	**SMOS**	GE		2R3	4	0	5,124,152:73:0	
1710	99	225	08:44:04.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 657.74 +/- 1	2R3	4	0	5,124,153:00:0	
1711	99	225	08:44:04.333	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,153:00:0	
1712	99	225	08:44:05.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 656.74 +/- 1	2R3	4	0	5,124,153:01:8	
1713	99	225	08:54:10.333	165IP4A	7SCAN	NORM,90.309999,2	Check S/P Position	2R3	4	0	5,124,162:90:0	
1714	99	225	08:56:01.666	175IO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,164:75:0	
1715	99	225	08:56:01.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 656.74 +/- 1	2R3	4	0	5,124,164:75:0	
1716	99	225	08:56:03.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 656.86 +/- 1	2R3	4	0	5,124,164:77:1	
1717	99	225	08:56:04.333	118IP	**SMOS**	GS		2R3	4	0	5,124,164:79:0	
1718	99	225	08:56:08.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 658.10 +/- 1	2R3	4	0	5,124,164:85:0	
1719	99	225	08:56:09.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 658.16 +/- 1	2R3	4	0	5,124,164:86:8	
1720	99	225	08:56:13.000	175IO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,165:01:0	
1721	99	225	08:56:13.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 651.86 +/- 1	2R3	4	0	5,124,165:01:8	
1722	99	225	08:56:13.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC * 651.86 +/- 1	2R3	4	0	5,124,165:01:8	
1723	99	225	08:56:14.333	118IP110A111A4A	7STRP	0.0069,-0.00065,	Slew =,3.51	2R3	4	0	5,124,165:03:0	
1724	99	225	08:56:29.666	118IP110A111A4B	7STRP	-0.007,0.00065,0	Slew =,3.51	2R3	4	0	5,124,165:26:0	
1725	99	225	08:56:45.000	118IP110A111A4C	7STRP	0.0069,-0.00065,	Slew =,3.51	2R3	4	0	5,124,165:49:0	
1726	99	225	08:57:00.333	118IP110A111A4D	7STRP	-0.007,0.00065,0	Slew =,3.51	2R3	4	0	5,124,165:72:0	
1727	99	225	08:57:15.666	118IP110A111A4E	7STRP	0.0069,-0.00065,	Slew =,3.51	2R3	4	0	5,124,166:04:0	
1728	99	225	08:57:31.000	118IP110A111A4F	7STRP	-0.007,0.00065,0	Slew =,3.51	2R3	4	0	5,124,166:27:0	
1729	99	225	08:57:46.333	118IP110A111A4G	7STRP	0.0069,-0.00065,	Slew =,3.51	2R3	4	0	5,124,166:50:0	
1730	99	225	08:58:01.666	118IP11A	**SMOS**	GE		2R3	4	0	5,124,166:73:0	
1731	99	225	08:58:13.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 229.51 +/- 1	2R3	4	0	5,124,167:00:0	
1732	99	225	08:58:13.666	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,167:00:0	
1733	99	225	08:58:14.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 228.51 +/- 1	2R3	4	0	5,124,167:01:8	
1734	99	225	08:59:27.666	465KG6A	6DTRN	CMD,6DTRN,465KG6	DMS TRACK TURNAROUND	2R3	4	0	5,124,168:20:0	
1735	99	225	08:59:27.666		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 228.51 +/- 1	2R3	4	0	5,124,168:20:0	
1736	99	225	08:59:27.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 228.51 +/- 1	2R3	4	0	5,124,168:20:0	
1737	99	225	08:59:29.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 228.63 +/- 1	2R3	4	0	5,124,168:22:1	
1738	99	225	08:59:34.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 229.87 +/- 1	2R3	4	0	5,124,168:30:0	
1739	99	225	08:59:35.533		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 229.93 +/- 1	2R3	4	0	5,124,168:31:8	
1740	99	225	08:59:36.933		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 229.81 +/- 1	2R3	4	0	5,124,168:33:9	
1741	99	225	09:01:44.600		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 1	2R3	4	0	5,124,170:43:4	
1742	99	225	09:01:45.800		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 1	2R3	4	0	5,124,170:45:2	
1743	99	225	09:01:45.800		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 1	2R3	4	0	5,124,170:45:2	
1744	99	225	09:01:47.200		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2R3	4	0	5,124,170:47:3	
1745	99	225	09:01:59.200		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2R3	4	0	5,124,170:65:3	
1746	99	225	09:02:00.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2R3	4	0	5,124,170:67:1	
1747	99	225	09:05:10.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2R3	4	0	5,124,173:79:0	
1748	99	225	09:05:10.333	465KH6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	2R3	4	0	5,124,173:79:0	
1749	99	225	09:05:17.000		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	2R3	4	0	5,124,173:89:0	
1750	99	225	09:05:17.666	165IQ4A	7SCAN	NORM,93.370999,2	Check S/P Position	2R3	4	0	5,124,173:90:0	
1751	99	225	09:05:18.400		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	2R3	4	0	5,124,174:00:1	
1752	99	225	09:05:18.400		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	2R3	4	0	5,124,174:00:1	
1753	99	225	09:06:19.000	465KH6B	6DMSC	RDY,1	DMS Control Tape stop	2R3	4	0	5,124,175:00:0	
1754	99	225	09:06:19.000		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC * 216.45 +/-	2R3	4	0	5,124,175:00:0	
1755	99	225	09:06:20.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 216.51 +/-	2R3	4	0	5,124,175:01:8	
1756	99	225	09:07:10.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 216.51 +/-	2R3	4	0	5,124,175:77:0	
1757	99	225	09:07:10.333	175IP422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,175:77:0	
1758	99	225	09:07:11.666	118IQ	**SMOS**	GS		2R3	4	0	5,124,175:79:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	99	225	09:07:17.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 216.51 +/-	2R3	4	0	5,124,175	87:0
1760	99	225	09:07:20.333	175IP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,176	01:0
1761	99	225	09:07:21.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 222.81 +/-	2R3	4	0	5,124,176	02:0
1762	99	225	09:07:21.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 222.81 +/-	2R3	4	0	5,124,176	02:0
1763	99	225	09:07:21.666	118IQ110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,176	03:0
1764	99	225	09:07:37.000	118IQ110A111A4B	7STRP	-0.00705,0.0005,	Slew =,3.51	2R3	4	0	5,124,176	26:0
1765	99	225	09:07:52.333	118IQ110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,176	49:0
1766	99	225	09:08:07.666	118IQ110A111A4D	7STRP	-0.00705,0.0005,	Slew =,3.51	2R3	4	0	5,124,176	72:0
1767	99	225	09:08:23.000	118IQ110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,177	04:0
1768	99	225	09:08:38.333	118IQ110A111A4F	7STRP	-0.00705,0.0005,	Slew =,3.51	2R3	4	0	5,124,177	27:0
1769	99	225	09:08:53.666	118IQ110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,177	50:0
1770	99	225	09:09:09.000	118IQ11A	**SMOS**	GE		2R3	4	0	5,124,177	73:0
1771	99	225	09:09:20.333	165IR4A	7SCAN	NORM,90.414,25.9	Check S/P Position	2R3	4	0	5,124,177	90:0
1772	99	225	09:09:21.000	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,178	00:0
1773	99	225	09:09:21.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 644.68 +/-	2R3	4	0	5,124,178	00:0
1774	99	225	09:09:22.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 645.68 +/-	2R3	4	0	5,124,178	01:8
1775	99	225	09:11:13.000	175IQ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,179	77:0
1776	99	225	09:11:13.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 645.68 +/-	2R3	4	0	5,124,179	77:0
1777	99	225	09:11:14.333	118IR	**SMOS**	GS		2R3	4	0	5,124,179	79:0
1778	99	225	09:11:19.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 645.68 +/-	2R3	4	0	5,124,179	87:0
1779	99	225	09:11:23.000	175IQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,180	01:0
1780	99	225	09:11:23.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 651.98 +/-	2R3	4	0	5,124,180	02:0
1781	99	225	09:11:23.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 651.98 +/-	2R3	4	0	5,124,180	02:0
1782	99	225	09:11:24.333	118IR110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,180	03:0
1783	99	225	09:11:39.666	118IR110A111A4B	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,180	26:0
1784	99	225	09:11:55.000	118IR110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,180	49:0
1785	99	225	09:12:10.333	118IR110A111A4D	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,180	72:0
1786	99	225	09:12:25.666	118IR110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,181	04:0
1787	99	225	09:12:41.000	118IR110A111A4F	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,181	27:0
1788	99	225	09:12:56.333	118IR110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,181	50:0
1789	99	225	09:13:11.666	118IR11A	**SMOS**	GE		2R3	4	0	5,124,181	73:0
1790	99	225	09:13:23.000	165IS4A	7SCAN	NORM,91.113,28.2	Check S/P Position	2R3	4	0	5,124,181	90:0
1791	99	225	09:13:23.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1073.86 +/-	2R3	4	0	5,124,182	00:0
1792	99	225	09:13:23.666	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,182	00:0
1793	99	225	09:13:24.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1074.86 +/-	2R3	4	0	5,124,182	01:8
1794	99	225	09:15:15.666	175IR422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,183	77:0
1795	99	225	09:15:15.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1074.86 +/-	2R3	4	0	5,124,183	77:0
1796	99	225	09:15:17.000	118IS	**SMOS**	GS		2R3	4	0	5,124,183	79:0
1797	99	225	09:15:22.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1074.86 +/-	2R3	4	0	5,124,183	87:0
1798	99	225	09:15:25.666	175IR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,184	01:0
1799	99	225	09:15:26.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1081.16 +/-	2R3	4	0	5,124,184	02:0
1800	99	225	09:15:26.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1081.16 +/-	2R3	4	0	5,124,184	02:0
1801	99	225	09:15:27.000	118IS110A111A4A	7STRP	0.007,-0.0007,46	Slew =,3.51	2R3	4	0	5,124,184	03:0
1802	99	225	09:15:42.333	118IS110A111A4B	7STRP	-0.0071,0.0007,0	Slew =,3.51	2R3	4	0	5,124,184	26:0
1803	99	225	09:15:57.666	118IS110A111A4C	7STRP	0.007,-0.0007,46	Slew =,3.51	2R3	4	0	5,124,184	49:0
1804	99	225	09:16:13.000	118IS110A111A4D	7STRP	-0.0071,0.0007,0	Slew =,3.51	2R3	4	0	5,124,184	72:0
1805	99	225	09:16:28.333	118IS110A111A4E	7STRP	0.007,-0.0007,46	Slew =,3.51	2R3	4	0	5,124,185	04:0
1806	99	225	09:16:43.666	118IS110A111A4F	7STRP	-0.0071,0.0007,0	Slew =,3.51	2R3	4	0	5,124,185	27:0
1807	99	225	09:16:59.000	118IS110A111A4G	7STRP	0.007,-0.0007,46	Slew =,3.51	2R3	4	0	5,124,185	50:0
1808	99	225	09:17:14.333	118IS11A	**SMOS**	GE		2R3	4	0	5,124,185	73:0
1809	99	225	09:17:25.666	165IT4A	7SCAN	NORM,91.540999,2	Check S/P Position	2R3	4	0	5,124,185	90:0
1810	99	225	09:17:26.333	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,186	00:0
1811	99	225	09:17:26.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1503.03 +/-	2R3	4	0	5,124,186	00:0
1812	99	225	09:17:27.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1504.03 +/-	2R3	4	0	5,124,186	01:8
1813	99	225	09:19:18.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1504.03 +/-	2R3	4	0	5,124,187	77:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1814	99	225	09:19:18.333	175IS422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,187:77:0	
1815	99	225	09:19:19.666	118IT	**SMOS**	GS		2R3	4	0	5,124,187:79:0	
1816	99	225	09:19:25.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1504.03 +/-	2R3	4	0	5,124,187:87:0	
1817	99	225	09:19:28.333	175IS176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,188:01:0	
1818	99	225	09:19:29.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1510.33 +/-	2R3	4	0	5,124,188:02:0	
1819	99	225	09:19:29.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1510.33 +/-	2R3	4	0	5,124,188:02:0	
1820	99	225	09:19:29.666	118IT110A111A4A	7STRP	0.007,-0.00068,4	Slew =,3.51	2R3	4	0	5,124,188:03:0	
1821	99	225	09:20:00.333	118IT110A111A4B	7STRP	-0.014001,0.0014	Slew =,3.51	2R3	4	0	5,124,188:49:0	
1822	99	225	09:20:15.666	118IT110A111A4C	7STRP	0.007,-0.00068,4	Slew =,3.51	2R3	4	0	5,124,188:72:0	
1823	99	225	09:20:46.333	118IT110A111A4D	7STRP	-0.014001,0.0014	Slew =,3.51	2R3	4	0	5,124,189:27:0	
1824	99	225	09:21:01.666	118IT110A111A4E	7STRP	0.007,-0.00068,4	Slew =,3.51	2R3	4	0	5,124,189:50:0	
1825	99	225	09:21:32.333	118IT110A111A4F	7STRP	-0.014001,0.0014	Slew =,3.51	2R3	4	0	5,124,190:05:0	
1826	99	225	09:21:47.666	118IT110A111A4G	7STRP	0.007,-0.00068,4	Slew =,3.51	2R3	4	0	5,124,190:28:0	
1827	99	225	09:22:18.333	118IT11A	**SMOS**	GE		2R3	4	0	5,124,190:74:0	
1828	99	225	09:22:29.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2145.49 +/-	2R3	4	0	5,124,191:00:0	
1829	99	225	09:22:29.666	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,191:00:0	
1830	99	225	09:22:30.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2146.49 +/-	2R3	4	0	5,124,191:01:8	
1831	99	225	09:26:31.666	165IU4A	7SCAN	NORM,91.346,27.9	Check S/P Position	2R3	4	0	5,124,194:90:0	
1832	99	225	09:28:24.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2146.49 +/-	2R3	4	0	5,124,196:77:0	
1833	99	225	09:28:24.333	175IT422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,196:77:0	
1834	99	225	09:28:25.666	118IU	**SMOS**	GS		2R3	4	0	5,124,196:79:0	
1835	99	225	09:28:31.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2146.49 +/-	2R3	4	0	5,124,196:87:0	
1836	99	225	09:28:34.333	175IT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,197:01:0	
1837	99	225	09:28:35.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2152.79 +/-	2R3	4	0	5,124,197:02:0	
1838	99	225	09:28:35.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2152.79 +/-	2R3	4	0	5,124,197:02:0	
1839	99	225	09:28:35.666	118IU110A111A4A	7STRP	0.007,-0.00065,4	Slew =,3.51	2R3	4	0	5,124,197:03:0	
1840	99	225	09:28:51.000	118IU110A111A4B	7STRP	-0.0071,0.00065,	Slew =,3.51	2R3	4	0	5,124,197:26:0	
1841	99	225	09:29:06.333	118IU110A111A4C	7STRP	0.007,-0.00065,4	Slew =,3.51	2R3	4	0	5,124,197:49:0	
1842	99	225	09:29:21.666	118IU110A111A4D	7STRP	-0.0071,0.00065,	Slew =,3.51	2R3	4	0	5,124,197:72:0	
1843	99	225	09:29:37.000	118IU110A111A4E	7STRP	0.007,-0.00065,4	Slew =,3.51	2R3	4	0	5,124,198:04:0	
1844	99	225	09:29:52.333	118IU110A111A4F	7STRP	-0.0071,0.00065,	Slew =,3.51	2R3	4	0	5,124,198:27:0	
1845	99	225	09:30:07.666	118IU110A111A4G	7STRP	0.007,-0.00065,4	Slew =,3.51	2R3	4	0	5,124,198:50:0	
1846	99	225	09:30:23.000	118IU11A	**SMOS**	GE		2R3	4	0	5,124,198:73:0	
1847	99	225	09:30:34.333	165IV4A	7SCAN	NORM,91.299,25.9	Check S/P Position	2R3	4	0	5,124,198:90:0	
1848	99	225	09:30:35.000	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,199:00:0	
1849	99	225	09:30:35.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2574.66 +/-	2R3	4	0	5,124,199:00:0	
1850	99	225	09:30:36.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2575.66 +/-	2R3	4	0	5,124,199:01:8	
1851	99	225	09:32:27.000	175IU422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,200:77:0	
1852	99	225	09:32:27.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2575.66 +/-	2R3	4	0	5,124,200:77:0	
1853	99	225	09:32:28.333	118IV	**SMOS**	GS		2R3	4	0	5,124,200:79:0	
1854	99	225	09:32:33.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2575.66 +/-	2R3	4	0	5,124,200:87:0	
1855	99	225	09:32:37.000	175IU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,201:01:0	
1856	99	225	09:32:37.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2581.96 +/-	2R3	4	0	5,124,201:02:0	
1857	99	225	09:32:37.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2581.96 +/-	2R3	4	0	5,124,201:02:0	
1858	99	225	09:32:38.333	118IV110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,201:03:0	
1859	99	225	09:32:53.666	118IV110A111A4B	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,201:26:0	
1860	99	225	09:33:09.000	118IV110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,201:49:0	
1861	99	225	09:33:24.333	118IV110A111A4D	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,201:72:0	
1862	99	225	09:33:39.666	118IV110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,202:04:0	
1863	99	225	09:33:55.000	118IV110A111A4F	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,202:27:0	
1864	99	225	09:34:10.333	118IV110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,202:50:0	
1865	99	225	09:34:25.666	118IV11A	**SMOS**	GE		2R3	4	0	5,124,202:73:0	
1866	99	225	09:34:37.000	165IW4A	7SCAN	NORM,95.455,25.0	Check S/P Position	2R3	4	0	5,124,202:90:0	
1867	99	225	09:34:37.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3003.84 +/-	2R3	4	0	5,124,203:00:0	
1868	99	225	09:34:37.666	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,203:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	99	225	09:34:38.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3004.84 +/-	2R3	4	0	5,124,203:01:8	
1870	99	225	09:36:33.000	118IW	**SMOS**	GS		2R3	4	0	5,124,204:82:0	
1871	99	225	09:36:43.000	118IW110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2R3	4	0	5,124,205:06:0	
1872	99	225	09:37:02.333	175IV422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,205:35:0	
1873	99	225	09:37:02.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3004.84 +/-	2R3	4	0	5,124,205:35:0	
1874	99	225	09:37:09.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3004.84 +/-	2R3	4	0	5,124,205:45:0	
1875	99	225	09:37:12.333	175IV176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,124,205:50:0	
1876	99	225	09:37:13.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3011.14 +/-	2R3	4	0	5,124,205:51:0	
1877	99	225	09:37:13.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3011.14 +/-	2R3	4	0	5,124,205:51:0	
1878	99	225	09:37:13.666	118IW11A	**SMOS**	GE		2R3	4	0	5,124,205:52:0	
1879	99	225	09:37:39.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3104.89 +/-	2R3	4	0	5,124,206:00:0	
1880	99	225	09:37:39.666	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,206:00:0	
1881	99	225	09:37:40.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3105.89 +/-	2R3	4	0	5,124,206:01:8	
1882	99	225	09:39:09.666	165IX4A	7SCAN	NORM,89.238,23.4	Check S/P Position	2R3	4	0	5,124,207:44:0	
1883	99	225	09:41:10.333	165IX4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,209:43:0	
1884	99	225	09:41:18.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3105.89 +/-	2R3	4	0	5,124,209:55:0	
1885	99	225	09:41:18.333	175IW422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,209:55:0	
1886	99	225	09:41:25.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3105.89 +/-	2R3	4	0	5,124,209:65:0	
1887	99	225	09:41:28.333	175IW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,209:70:0	
1888	99	225	09:41:29.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3112.19 +/-	2R3	4	0	5,124,209:71:0	
1889	99	225	09:41:29.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3112.19 +/-	2R3	4	0	5,124,209:71:0	
1890	99	225	09:41:42.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3159.06 +/-	2R3	4	0	5,124,210:00:0	
1891	99	225	09:41:42.333	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,210:00:0	
1892	99	225	09:41:43.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3160.06 +/-	2R3	4	0	5,124,210:01:8	
1893	99	225	09:41:46.333	118IX	**SMOS**	GS		2R3	4	0	5,124,210:06:0	
1894	99	225	09:41:59.666	118IX110A111A4A	7STRP	0.007,-0.00055,1	Slew =,3.51	2R3	4	0	5,124,210:26:0	
1895	99	225	09:42:33.666	175IX422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,210:77:0	
1896	99	225	09:42:33.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3160.06 +/-	2R3	4	0	5,124,210:77:0	
1897	99	225	09:42:40.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3160.06 +/-	2R3	4	0	5,124,210:87:0	
1898	99	225	09:42:43.666	175IX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,211:01:0	
1899	99	225	09:42:44.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3166.36 +/-	2R3	4	0	5,124,211:02:0	
1900	99	225	09:42:44.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3166.36 +/-	2R3	4	0	5,124,211:02:0	
1901	99	225	09:42:58.333	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,211:23:0	
1902	99	225	09:42:58.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3215.58 +/-	2R3	4	0	5,124,211:23:0	
1903	99	225	09:42:59.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3216.58 +/-	2R3	4	0	5,124,211:24:8	
1904	99	225	09:43:00.333	118IX11A	**SMOS**	GE		2R3	4	0	5,124,211:26:0	
1905	99	225	09:54:06.333	488AG6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R3	4	0	5,124,222:24:0	
1906	99	225	09:57:52.333	165IY4A	7SCAN	NORM,92.103999,2	Check S/P Position	2R3	4	0	5,124,225:90:0	
1907	99	225	09:59:45.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3216.58 +/-	2R3	4	0	5,124,227:77:0	
1908	99	225	09:59:45.000	175IY422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,227:77:0	
1909	99	225	09:59:46.333	118IY	**SMOS**	GS		2R3	4	0	5,124,227:79:0	
1910	99	225	09:59:51.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3216.58 +/-	2R3	4	0	5,124,227:87:0	
1911	99	225	09:59:55.000	175IY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,228:01:0	
1912	99	225	09:59:55.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3222.88 +/-	2R3	4	0	5,124,228:02:0	
1913	99	225	09:59:55.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3222.88 +/-	2R3	4	0	5,124,228:02:0	
1914	99	225	09:59:56.333	118IY110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,228:03:0	
1915	99	225	10:00:11.666	118IY110A111A4B	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,228:26:0	
1916	99	225	10:00:27.000	118IY110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,228:49:0	
1917	99	225	10:00:42.333	118IY110A111A4D	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,228:72:0	
1918	99	225	10:00:57.666	118IY110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,229:04:0	
1919	99	225	10:01:13.000	118IY110A111A4F	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,229:27:0	
1920	99	225	10:01:28.333	118IY110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,229:50:0	
1921	99	225	10:01:43.666	118IY11A	**SMOS**	GE		2R3	4	0	5,124,229:73:0	
1922	99	225	10:01:55.666	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,230:00:0	
1923	99	225	10:01:55.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3644.76 +/-	2R3	4	0	5,124,230:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1924	99	225	10:01:56.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3645.76 +/-	2R3	4	0	5,124,230	01:8
1925	99	225	10:03:56.333	165IZ4A	7SCAN	NORM,90.785,27.8	Check S/P Position	2R3	4	0	5,124,231	90:0
1926	99	225	10:05:57.000	165IZ4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,233	89:0
1927	99	225	10:06:35.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3645.76 +/-	2R3	4	0	5,124,234	55:0
1928	99	225	10:06:35.000	175IZ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,234	55:0
1929	99	225	10:06:41.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3645.76 +/-	2R3	4	0	5,124,234	65:0
1930	99	225	10:06:45.000	175IZ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,234	70:0
1931	99	225	10:06:45.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3652.06 +/-	2R3	4	0	5,124,234	71:0
1932	99	225	10:06:45.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3652.06 +/-	2R3	4	0	5,124,234	71:0
1933	99	225	10:06:51.000	118IZ	**SMOS**	GS		2R3	4	0	5,124,234	79:0
1934	99	225	10:06:59.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3698.93 +/-	2R3	4	0	5,124,235	00:0
1935	99	225	10:06:59.000	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,235	00:0
1936	99	225	10:07:00.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3699.93 +/-	2R3	4	0	5,124,235	01:8
1937	99	225	10:07:01.000	118IZ110A111A4A	7STRP	0.007,-0.00039,2	Slew =,3.51	2R3	4	0	5,124,235	03:0
1938	99	225	10:07:50.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3699.93 +/-	2R3	4	0	5,124,235	77:0
1939	99	225	10:07:50.333	175JA422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,235	77:0
1940	99	225	10:07:57.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3699.93 +/-	2R3	4	0	5,124,235	87:0
1941	99	225	10:08:00.333	175JA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,236	01:0
1942	99	225	10:08:01.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3706.23 +/-	2R3	4	0	5,124,236	02:0
1943	99	225	10:08:01.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3706.23 +/-	2R3	4	0	5,124,236	02:0
1944	99	225	10:08:15.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3755.45 +/-	2R3	4	0	5,124,236	23:0
1945	99	225	10:08:15.000	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,236	23:0
1946	99	225	10:08:16.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3756.45 +/-	2R3	4	0	5,124,236	24:8
1947	99	225	10:08:17.000	118IZ110A111A4B	7STRP	-0.007,0.00039,0	Slew =,3.51	2R3	4	0	5,124,236	26:0
1948	99	225	10:09:06.333	175JB422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,237	09:0
1949	99	225	10:09:06.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3756.45 +/-	2R3	4	0	5,124,237	09:0
1950	99	225	10:09:13.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3756.45 +/-	2R3	4	0	5,124,237	19:0
1951	99	225	10:09:16.333	175JB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,237	24:0
1952	99	225	10:09:17.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3762.75 +/-	2R3	4	0	5,124,237	25:0
1953	99	225	10:09:17.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3762.75 +/-	2R3	4	0	5,124,237	25:0
1954	99	225	10:09:31.000	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,237	46:0
1955	99	225	10:09:31.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3811.97 +/-	2R3	4	0	5,124,237	46:0
1956	99	225	10:09:32.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3812.97 +/-	2R3	4	0	5,124,237	47:8
1957	99	225	10:09:33.000	118IZ110A111A4C	7STRP	0.007,-0.00039,2	Slew =,3.51	2R3	4	0	5,124,237	49:0
1958	99	225	10:10:22.333	175JC422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,238	32:0
1959	99	225	10:10:22.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3812.97 +/-	2R3	4	0	5,124,238	32:0
1960	99	225	10:10:29.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3812.97 +/-	2R3	4	0	5,124,238	42:0
1961	99	225	10:10:32.333	175JC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,238	47:0
1962	99	225	10:10:33.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3819.27 +/- 1	2R3	4	0	5,124,238	48:0
1963	99	225	10:10:33.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3819.27 +/-	2R3	4	0	5,124,238	48:0
1964	99	225	10:10:47.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3868.49 +/- 1	2R3	4	0	5,124,238	69:0
1965	99	225	10:10:47.000	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,238	69:0
1966	99	225	10:10:48.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3869.49 +/- 1	2R3	4	0	5,124,238	70:8
1967	99	225	10:10:49.000	118IZ110A111A4D	7STRP	-0.007,0.00039,0	Slew =,3.51	2R3	4	0	5,124,238	72:0
1968	99	225	10:11:38.333	175JD422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,239	55:0
1969	99	225	10:11:38.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3869.49 +/- 1	2R3	4	0	5,124,239	55:0
1970	99	225	10:11:45.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3869.49 +/- 1	2R3	4	0	5,124,239	65:0
1971	99	225	10:11:48.333	175JD176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,239	70:0
1972	99	225	10:11:49.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3875.79 +/- 1	2R3	4	0	5,124,239	71:0
1973	99	225	10:11:49.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3875.79 +/- 1	2R3	4	0	5,124,239	71:0
1974	99	225	10:12:02.333	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,240	00:0
1975	99	225	10:12:02.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3922.66 +/- 1	2R3	4	0	5,124,240	00:0
1976	99	225	10:12:03.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3923.66 +/- 1	2R3	4	0	5,124,240	01:8
1977	99	225	10:12:05.000	118IZ110A111A4E	7STRP	0.007,-0.00039,2	Slew =,3.51	2R3	4	0	5,124,240	04:0
1978	99	225	10:12:53.666	175JE422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,240	77:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1979	99	225	10:12:53.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3923.66 +/- 1	2R3	4	0	5,124,240	77:0
1980	99	225	10:13:00.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3923.66 +/- 1	2R3	4	0	5,124,240	87:0
1981	99	225	10:13:03.666	175JE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,241	01:0
1982	99	225	10:13:04.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3929.96 +/- 1	2R3	4	0	5,124,241	02:0
1983	99	225	10:13:04.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3929.96 +/- 1	2R3	4	0	5,124,241	02:0
1984	99	225	10:13:18.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3979.18 +/- 1	2R3	4	0	5,124,241	23:0
1985	99	225	10:13:18.333	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,241	23:0
1986	99	225	10:13:19.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3980.18 +/- 1	2R3	4	0	5,124,241	24:8
1987	99	225	10:13:21.000	118IZ11A	**SMOS**	GE		2R3	4	0	5,124,241	27:0
1988	99	225	10:19:36.333	165JA4A	7SCAN	NORM,90.125,25.9	Check S/P Position	2R3	4	0	5,124,247	44:0
1989	99	225	10:21:37.000	165JA4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,249	43:0
1990	99	225	10:21:45.000	175JF422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,249	55:0
1991	99	225	10:21:45.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3980.18 +/- 1	2R3	4	0	5,124,249	55:0
1992	99	225	10:21:51.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3980.18 +/- 1	2R3	4	0	5,124,249	65:0
1993	99	225	10:21:55.000	175JF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,249	70:0
1994	99	225	10:21:55.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3986.48 +/- 1	2R3	4	0	5,124,249	71:0
1995	99	225	10:21:55.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3986.48 +/- 1	2R3	4	0	5,124,249	71:0
1996	99	225	10:22:09.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4033.36 +/- 1	2R3	4	0	5,124,250	00:0
1997	99	225	10:22:09.000	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,250	00:0
1998	99	225	10:22:10.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4034.36 +/- 1	2R3	4	0	5,124,250	01:8
1999	99	225	10:22:13.000	118JA	**SMOS**	GS		2R3	4	0	5,124,250	06:0
2000	99	225	10:22:26.333	118JA110A111A4A	7STRP	0.007,-0.00045,1	Slew =,3.51	2R3	4	0	5,124,250	26:0
2001	99	225	10:23:00.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4034.36 +/- 1	2R3	4	0	5,124,250	77:0
2002	99	225	10:23:00.333	175JG422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,250	77:0
2003	99	225	10:23:07.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4034.36 +/- 1	2R3	4	0	5,124,250	87:0
2004	99	225	10:23:10.333	175JG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,251	01:0
2005	99	225	10:23:11.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4040.66 +/- 1	2R3	4	0	5,124,251	02:0
2006	99	225	10:23:11.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4040.66 +/- 1	2R3	4	0	5,124,251	02:0
2007	99	225	10:23:25.000	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,251	23:0
2008	99	225	10:23:25.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4089.87 +/- 1	2R3	4	0	5,124,251	23:0
2009	99	225	10:23:26.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4090.87 +/- 1	2R3	4	0	5,124,251	24:8
2010	99	225	10:23:27.000	118JA11A	**SMOS**	GE		2R3	4	0	5,124,251	26:0
2011	99	225	10:24:09.666	165JB4A	7SCAN	NORM,92.907,25.8	Check S/P Position	2R3	4	0	5,124,251	90:0
2012	99	225	10:25:01.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4090.87 +/- 1	2R3	4	0	5,124,252	77:0
2013	99	225	10:25:01.666	175JH422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,252	77:0
2014	99	225	10:25:03.000	118JB	**SMOS**	GS		2R3	4	0	5,124,252	79:0
2015	99	225	10:25:08.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4090.87 +/- 1	2R3	4	0	5,124,252	87:0
2016	99	225	10:25:11.666	175JH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,253	01:0
2017	99	225	10:25:12.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4097.17 +/- 1	2R3	4	0	5,124,253	02:0
2018	99	225	10:25:12.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4097.17 +/- 1	2R3	4	0	5,124,253	02:0
2019	99	225	10:25:13.000	118JB110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,253	03:0
2020	99	225	10:25:28.333	118JB110A111A4B	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,253	26:0
2021	99	225	10:25:43.666	118JB110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,253	49:0
2022	99	225	10:25:59.000	118JB110A111A4D	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,253	72:0
2023	99	225	10:26:14.333	118JB110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,254	04:0
2024	99	225	10:26:29.666	118JB110A111A4F	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,254	27:0
2025	99	225	10:26:45.000	118JB110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,254	50:0
2026	99	225	10:27:00.333	118JB11A	**SMOS**	GE		2R3	4	0	5,124,254	73:0
2027	99	225	10:27:12.333	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,255	00:0
2028	99	225	10:27:12.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4519.05 +/- 1	2R3	4	0	5,124,255	00:0
2029	99	225	10:27:13.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4520.05 +/- 1	2R3	4	0	5,124,255	01:8
2030	99	225	10:31:14.333	165JC4A	7SCAN	NORM,91.566999,2	Check S/P Position	2R3	4	0	5,124,258	90:0
2031	99	225	10:33:15.000	165JC4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,260	89:0
2032	99	225	10:33:53.000	175JI422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,261	55:0
2033	99	225	10:33:53.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4520.05 +/- 1	2R3	4	0	5,124,261	55:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2034	99	225	10:33:59.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4520.05 +/- 1	2R3	4	0	5,124,261:65:0	
2035	99	225	10:34:03.000	175JI176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,261:70:0	
2036	99	225	10:34:03.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4526.35 +/- 1	2R3	4	0	5,124,261:71:0	
2037	99	225	10:34:03.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4526.35 +/- 1	2R3	4	0	5,124,261:71:0	
2038	99	225	10:34:09.000	118JC	**SMOS**	GS		2R3	4	0	5,124,261:79:0	
2039	99	225	10:34:17.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4573.22 +/- 1	2R3	4	0	5,124,262:00:0	
2040	99	225	10:34:17.000	175JI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,262:00:0	
2041	99	225	10:34:18.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4574.22 +/- 1	2R3	4	0	5,124,262:01:8	
2042	99	225	10:34:19.000	118JC110A111A4A	7STRP	0.007,-0.00035,2	Slew =,3.51	2R3	4	0	5,124,262:03:0	
2043	99	225	10:35:08.333	175JJ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,262:77:0	
2044	99	225	10:35:08.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4574.22 +/- 1	2R3	4	0	5,124,262:77:0	
2045	99	225	10:35:15.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4574.22 +/- 1	2R3	4	0	5,124,262:87:0	
2046	99	225	10:35:18.333	175JJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,263:01:0	
2047	99	225	10:35:19.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4580.52 +/- 1	2R3	4	0	5,124,263:02:0	
2048	99	225	10:35:19.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4580.52 +/- 1	2R3	4	0	5,124,263:02:0	
2049	99	225	10:35:33.000	175JJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,263:23:0	
2050	99	225	10:35:33.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4629.74 +/- 1	2R3	4	0	5,124,263:23:0	
2051	99	225	10:35:34.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4630.74 +/- 1	2R3	4	0	5,124,263:24:8	
2052	99	225	10:35:35.000	118JC110A111A4B	7STRP	-0.007,0.00035,0	Slew =,3.51	2R3	4	0	5,124,263:26:0	
2053	99	225	10:36:24.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4630.74 +/- 1	2R3	4	0	5,124,264:09:0	
2054	99	225	10:36:24.333	175JK422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,264:09:0	
2055	99	225	10:36:31.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4630.74 +/- 1	2R3	4	0	5,124,264:19:0	
2056	99	225	10:36:34.333	175JK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,264:24:0	
2057	99	225	10:36:35.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4637.04 +/- 1	2R3	4	0	5,124,264:25:0	
2058	99	225	10:36:35.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4637.04 +/- 1	2R3	4	0	5,124,264:25:0	
2059	99	225	10:36:49.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4686.26 +/- 1	2R3	4	0	5,124,264:46:0	
2060	99	225	10:36:49.000	175JK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,264:46:0	
2061	99	225	10:36:50.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4687.26 +/- 1	2R3	4	0	5,124,264:47:8	
2062	99	225	10:36:51.000	118JC110A111A4C	7STRP	0.007,-0.00035,2	Slew =,3.51	2R3	4	0	5,124,264:49:0	
2063	99	225	10:37:40.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4687.26 +/- 1	2R3	4	0	5,124,265:32:0	
2064	99	225	10:37:40.333	175JL422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,265:32:0	
2065	99	225	10:37:47.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4687.26 +/- 1	2R3	4	0	5,124,265:42:0	
2066	99	225	10:37:50.333	175JL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,265:47:0	
2067	99	225	10:37:51.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4693.56 +/- 1	2R3	4	0	5,124,265:48:0	
2068	99	225	10:37:51.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4693.56 +/- 1	2R3	4	0	5,124,265:48:0	
2069	99	225	10:38:05.000	175JL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,265:69:0	
2070	99	225	10:38:05.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4742.78 +/- 1	2R3	4	0	5,124,265:69:0	
2071	99	225	10:38:06.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4743.78 +/- 1	2R3	4	0	5,124,265:70:8	
2072	99	225	10:38:07.000	118JC110A111A4D	7STRP	-0.007,0.00035,0	Slew =,3.51	2R3	4	0	5,124,265:72:0	
2073	99	225	10:38:56.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4743.78 +/- 1	2R3	4	0	5,124,266:55:0	
2074	99	225	10:38:56.333	175JM422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,266:55:0	
2075	99	225	10:39:03.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4743.78 +/- 1	2R3	4	0	5,124,266:65:0	
2076	99	225	10:39:06.333	175JM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,266:70:0	
2077	99	225	10:39:07.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4750.08 +/- 1	2R3	4	0	5,124,266:71:0	
2078	99	225	10:39:07.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4750.08 +/- 1	2R3	4	0	5,124,266:71:0	
2079	99	225	10:39:20.333	175JM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,267:00:0	
2080	99	225	10:39:20.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4796.96 +/- 1	2R3	4	0	5,124,267:00:0	
2081	99	225	10:39:21.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4797.96 +/- 1	2R3	4	0	5,124,267:01:8	
2082	99	225	10:39:23.000	118JC110A111A4E	7STRP	0.007,-0.00035,2	Slew =,3.51	2R3	4	0	5,124,267:04:0	
2083	99	225	10:40:11.666	175JN422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,267:77:0	
2084	99	225	10:40:11.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4797.96 +/- 1	2R3	4	0	5,124,267:77:0	
2085	99	225	10:40:18.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4797.96 +/- 1	2R3	4	0	5,124,267:87:0	
2086	99	225	10:40:21.666	175JN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,268:01:0	
2087	99	225	10:40:22.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4804.26 +/- 1	2R3	4	0	5,124,268:02:0	
2088	99	225	10:40:22.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4804.26 +/- 1	2R3	4	0	5,124,268:02:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2089	99	225	10:40:36.333	175JN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,268	23:0
2090	99	225	10:40:36.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4853.47 +/- 1	2R3	4	0	5,124,268	23:0
2091	99	225	10:40:37.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4854.47 +/- 1	2R3	4	0	5,124,268	24:8
2092	99	225	10:40:39.000	118JC11A	**SMOS**	GE		2R3	4	0	5,124,268	27:0
2093	99	225	10:41:51.000	165JD4A	7SCAN	NORM,92.075,28.0	Check S/P Position	2R3	4	0	5,124,269	44:0
2094	99	225	10:42:51.000	165JD4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,270	43:0
2095	99	225	10:42:59.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4854.47 +/- 1	2R3	4	0	5,124,270	55:0
2096	99	225	10:42:59.000	175JO422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,270	55:0
2097	99	225	10:43:05.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4854.47 +/- 1	2R3	4	0	5,124,270	65:0
2098	99	225	10:43:09.000	175JO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,270	70:0
2099	99	225	10:43:09.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4860.77 +/- 1	2R3	4	0	5,124,270	71:0
2100	99	225	10:43:09.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4860.77 +/- 1	2R3	4	0	5,124,270	71:0
2101	99	225	10:43:23.000	175JO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,271	00:0
2102	99	225	10:43:23.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4907.65 +/- 1	2R3	4	0	5,124,271	00:0
2103	99	225	10:43:24.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4908.65 +/- 1	2R3	4	0	5,124,271	01:8
2104	99	225	10:43:27.000	118JD	**SMOS**	GS		2R3	4	0	5,124,271	06:0
2105	99	225	10:43:40.333	118JD110A111A4A	7STRP	0.007,-0.00032,1	Slew =,3.51	2R3	4	0	5,124,271	26:0
2106	99	225	10:44:14.333	175JP422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,271	77:0
2107	99	225	10:44:14.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4908.65 +/- 1	2R3	4	0	5,124,271	77:0
2108	99	225	10:44:21.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4908.65 +/- 1	2R3	4	0	5,124,271	87:0
2109	99	225	10:44:24.333	175JP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,272	01:0
2110	99	225	10:44:25.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4914.95 +/- 1	2R3	4	0	5,124,272	02:0
2111	99	225	10:44:25.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4914.95 +/- 1	2R3	4	0	5,124,272	02:0
2112	99	225	10:44:39.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4964.17 +/- 1	2R3	4	0	5,124,272	23:0
2113	99	225	10:44:39.000	175JP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,272	23:0
2114	99	225	10:44:40.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4965.17 +/- 1	2R3	4	0	5,124,272	24:8
2115	99	225	10:44:41.000	118JD11A	**SMOS**	GE		2R3	4	0	5,124,272	26:0
2116	99	225	10:45:53.666	165JE4A	7SCAN	NORM,90.936,25.9	Check S/P Position	2R3	4	0	5,124,273	44:0
2117	99	225	10:46:53.666	165JE4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,274	43:0
2118	99	225	10:47:01.666	175JQ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,274	55:0
2119	99	225	10:47:01.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4965.17 +/- 1	2R3	4	0	5,124,274	55:0
2120	99	225	10:47:08.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4965.17 +/- 1	2R3	4	0	5,124,274	65:0
2121	99	225	10:47:11.666	175JQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,274	70:0
2122	99	225	10:47:12.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4971.47 +/- 1	2R3	4	0	5,124,274	71:0
2123	99	225	10:47:12.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4971.47 +/- 1	2R3	4	0	5,124,274	71:0
2124	99	225	10:47:25.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5018.34 +/- 1	2R3	4	0	5,124,275	00:0
2125	99	225	10:47:25.666	175JQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,275	00:0
2126	99	225	10:47:26.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5019.34 +/- 2	2R3	4	0	5,124,275	01:8
2127	99	225	10:47:29.666	118JE	**SMOS**	GS		2R3	4	0	5,124,275	06:0
2128	99	225	10:47:43.000	118JE110A111A4A	7STRP	0.007,-0.00042,1	Slew =,3.51	2R3	4	0	5,124,275	26:0
2129	99	225	10:48:17.000	175JR422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,275	77:0
2130	99	225	10:48:17.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5019.34 +/- 2	2R3	4	0	5,124,275	77:0
2131	99	225	10:48:23.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5019.34 +/- 2	2R3	4	0	5,124,275	87:0
2132	99	225	10:48:27.000	175JR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,276	01:0
2133	99	225	10:48:27.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5025.64 +/- 2	2R3	4	0	5,124,276	02:0
2134	99	225	10:48:27.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5025.64 +/- 2	2R3	4	0	5,124,276	02:0
2135	99	225	10:48:41.666	175JR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,276	23:0
2136	99	225	10:48:41.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5074.86 +/- 2	2R3	4	0	5,124,276	23:0
2137	99	225	10:48:42.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5075.86 +/- 2	2R3	4	0	5,124,276	24:8
2138	99	225	10:48:43.666	118JE11A	**SMOS**	GE		2R3	4	0	5,124,276	26:0
2139	99	225	10:49:56.333	165JF4A	7SCAN	NORM,92.091,27.6	Check S/P Position	2R3	4	0	5,124,277	44:0
2140	99	225	10:50:56.333	165JF4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,278	43:0
2141	99	225	10:51:04.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5075.86 +/- 2	2R3	4	0	5,124,278	55:0
2142	99	225	10:51:04.333	175JS422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,278	55:0
2143	99	225	10:51:11.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5075.86 +/- 2	2R3	4	0	5,124,278	65:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2144	99	225	10:51:14.333	175JS176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,278	70:0
2145	99	225	10:51:15.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5082.16 +/- 2	2R3	4	0	5,124,278	71:0
2146	99	225	10:51:15.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5082.16 +/- 2	2R3	4	0	5,124,278	71:0
2147	99	225	10:51:28.333	175JS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,279	00:0
2148	99	225	10:51:28.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5129.04 +/- 2	2R3	4	0	5,124,279	00:0
2149	99	225	10:51:29.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5130.04 +/- 2	2R3	4	0	5,124,279	01:8
2150	99	225	10:51:32.333	118JF	**SMOS**	GS		2R3	4	0	5,124,279	06:0
2151	99	225	10:51:45.666	118JF110A111A4A	7STRP	0.007,-0.00033,1	Slew =,3.51	2R3	4	0	5,124,279	26:0
2152	99	225	10:52:19.666	175JT422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,279	77:0
2153	99	225	10:52:19.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5130.04 +/- 2	2R3	4	0	5,124,279	77:0
2154	99	225	10:52:26.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5130.04 +/- 2	2R3	4	0	5,124,279	87:0
2155	99	225	10:52:29.666	175JT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,280	01:0
2156	99	225	10:52:30.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5136.34 +/- 2	2R3	4	0	5,124,280	02:0
2157	99	225	10:52:30.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5136.34 +/- 2	2R3	4	0	5,124,280	02:0
2158	99	225	10:52:44.333	175JT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,280	23:0
2159	99	225	10:52:44.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5185.56 +/- 2	2R3	4	0	5,124,280	23:0
2160	99	225	10:52:45.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5186.56 +/- 2	2R3	4	0	5,124,280	24:8
2161	99	225	10:53:35.666	175JU422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,281	09:0
2162	99	225	10:53:35.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5186.56 +/- 2	2R3	4	0	5,124,281	09:0
2163	99	225	10:53:42.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5186.56 +/- 2	2R3	4	0	5,124,281	19:0
2164	99	225	10:53:45.666	175JU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,281	24:0
2165	99	225	10:53:46.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5192.86 +/- 2	2R3	4	0	5,124,281	25:0
2166	99	225	10:53:46.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5192.86 +/- 2	2R3	4	0	5,124,281	25:0
2167	99	225	10:53:47.000	118JF11A	**SMOS**	GE		2R3	4	0	5,124,281	26:0
2168	99	225	10:53:55.666	488AG6D	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	2R3	4	0	5,124,281	39:0
2169	99	225	10:54:00.333	175JU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,281	46:0
2170	99	225	10:54:00.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5242.07 +/- 2	2R3	4	0	5,124,281	46:0
2171	99	225	10:54:01.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5243.07 +/- 2	2R3	4	0	5,124,281	47:8
2172	99	225	11:10:09.666	165JG4A	7SCAN	NORM,91.726,25.9	Check S/P Position	2R3	4	0	5,124,297	44:0
2173	99	225	11:12:10.333	165JG4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,299	43:0
2174	99	225	11:12:18.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5243.07 +/- 2	2R3	4	0	5,124,299	55:0
2175	99	225	11:12:18.333	175JV422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,299	55:0
2176	99	225	11:12:25.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5243.07 +/- 2	2R3	4	0	5,124,299	65:0
2177	99	225	11:12:28.333	175JV176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,299	70:0
2178	99	225	11:12:29.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5249.37 +/- 2	2R3	4	0	5,124,299	71:0
2179	99	225	11:12:29.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5249.37 +/- 2	2R3	4	0	5,124,299	71:0
2180	99	225	11:12:42.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5296.25 +/- 2	2R3	4	0	5,124,300	00:0
2181	99	225	11:12:42.333	175JV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,300	00:0
2182	99	225	11:12:43.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5297.25 +/- 2	2R3	4	0	5,124,300	01:8
2183	99	225	11:12:46.333	118JG	**SMOS**	GS		2R3	4	0	5,124,300	06:0
2184	99	225	11:12:59.666	118JG110A111A4A	7STRP	0.007,-0.0004,18	Slew =,3.51	2R3	4	0	5,124,300	26:0
2185	99	225	11:13:33.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5297.25 +/- 2	2R3	4	0	5,124,300	77:0
2186	99	225	11:13:33.666	175JW422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,300	77:0
2187	99	225	11:13:40.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5297.25 +/- 2	2R3	4	0	5,124,300	87:0
2188	99	225	11:13:43.666	175JW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,301	01:0
2189	99	225	11:13:44.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5303.55 +/- 2	2R3	4	0	5,124,301	02:0
2190	99	225	11:13:44.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5303.55 +/- 2	2R3	4	0	5,124,301	02:0
2191	99	225	11:13:58.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5352.77 +/- 2	2R3	4	0	5,124,301	23:0
2192	99	225	11:13:58.333	175JW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,301	23:0
2193	99	225	11:13:59.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5353.77 +/- 2	2R3	4	0	5,124,301	24:8
2194	99	225	11:14:00.333	118JG11A	**SMOS**	GE		2R3	4	0	5,124,301	26:0
2195	99	225	11:14:43.000	165AA4A	7SCAN	NORM,95.455999,2	Check S/P Position	2R3	4	0	5,124,301	90:0
2196	99	225	11:17:49.666	480MB6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	2R3	4	0	5,124,305	06:0
2197	99	225	11:17:49.666	480MB6	6MROH	12	read from LLM1A12,2282,0,A2	2R3	4	0	5,124,305	06:0
2198	99	225	11:20:45.000	488AH6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R3	4	0	5,124,307	87:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2199	99	225	11:35:26.333	165JH4A	7SCAN	NORM,92.497,25.8	Check S/P Position	2R3	4	0	5,124,322	44:0
2200	99	225	11:37:27.000	165JH4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,324	43:0
2201	99	225	11:37:35.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5353.77 +/- 2	2R3	4	0	5,124,324	55:0
2202	99	225	11:37:35.000	175JX422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,324	55:0
2203	99	225	11:37:41.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5353.77 +/- 2	2R3	4	0	5,124,324	65:0
2204	99	225	11:37:45.000	175JX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,324	70:0
2205	99	225	11:37:45.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5360.07 +/- 2	2R3	4	0	5,124,324	71:0
2206	99	225	11:37:45.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5360.07 +/- 2	2R3	4	0	5,124,324	71:0
2207	99	225	11:37:59.000	175JX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,325	00:0
2208	99	225	11:37:59.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5406.94 +/- 2	2R3	4	0	5,124,325	00:0
2209	99	225	11:38:00.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5407.94 +/- 2	2R3	4	0	5,124,325	01:8
2210	99	225	11:38:03.000	118JH	**SMOS**	GS		2R3	4	0	5,124,325	06:0
2211	99	225	11:38:16.333	118JH110A111A4A	7STRP	0.007,-0.0004,18	Slew =,3.51	2R3	4	0	5,124,325	26:0
2212	99	225	11:38:50.333	175JY422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,325	77:0
2213	99	225	11:38:50.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5407.94 +/- 2	2R3	4	0	5,124,325	77:0
2214	99	225	11:38:57.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5407.94 +/- 2	2R3	4	0	5,124,325	87:0
2215	99	225	11:39:00.333	175JY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,326	01:0
2216	99	225	11:39:01.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5414.24 +/- 2	2R3	4	0	5,124,326	02:0
2217	99	225	11:39:01.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5414.24 +/- 2	2R3	4	0	5,124,326	02:0
2218	99	225	11:39:15.000	175JY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,326	23:0
2219	99	225	11:39:15.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5463.46 +/- 2	2R3	4	0	5,124,326	23:0
2220	99	225	11:39:16.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5464.46 +/- 2	2R3	4	0	5,124,326	24:8
2221	99	225	11:39:17.000	118JH11A	**SMOS**	GE		2R3	4	0	5,124,326	26:0
2222	99	225	12:11:20.333	165JI4A	7SCAN	NORM,104.750999,	Check S/P Position	2R3	4	0	5,124,357	90:0
2223	99	225	12:15:17.666	118JI	**SMOS**	GS		2R3	4	0	5,124,361	82:0
2224	99	225	12:15:22.333	165JI4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,361	89:0
2225	99	225	12:15:27.666	118JI110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2R3	4	0	5,124,362	06:0
2226	99	225	12:15:47.000	175JZ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,362	35:0
2227	99	225	12:15:47.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5464.46 +/- 2	2R3	4	0	5,124,362	35:0
2228	99	225	12:15:53.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5464.46 +/- 2	2R3	4	0	5,124,362	45:0
2229	99	225	12:15:57.000	175JZ176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,124,362	50:0
2230	99	225	12:15:57.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5470.76 +/- 2	2R3	4	0	5,124,362	51:0
2231	99	225	12:15:57.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5470.76 +/- 2	2R3	4	0	5,124,362	51:0
2232	99	225	12:15:58.333	118JI11A	**SMOS**	GE		2R3	4	0	5,124,362	52:0
2233	99	225	12:16:24.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5564.51 +/- 2	2R3	4	0	5,124,363	00:0
2234	99	225	12:16:24.333	175JZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,363	00:0
2235	99	225	12:16:25.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5565.51 +/- 2	2R3	4	0	5,124,363	01:8
2236	99	225	12:28:40.333	165KA4A	7SCAN	NORM,56.51,16.32	Check S/P Position	2R3	4	0	5,124,375	12:0
2237	99	225	12:32:35.666	118KA	**SMOS**	GS		2R3	4	0	5,124,379	01:0
2238	99	225	12:32:45.666	118KA110A111A4A	7STRP	-0.001,0.0,26,0,	Slew =,3.51	2R3	4	0	5,124,379	16:0
2239	99	225	12:33:28.333	175KA422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,379	80:0
2240	99	225	12:33:28.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5565.51 +/- 2	2R3	4	0	5,124,379	80:0
2241	99	225	12:33:35.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5565.51 +/- 2	2R3	4	0	5,124,379	90:0
2242	99	225	12:33:37.666	118KA11A	**SMOS**	GE		2R3	4	0	5,124,380	03:0
2243	99	225	12:33:38.333	175KA176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,124,380	04:0
2244	99	225	12:33:39.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5571.81 +/- 2	2R3	4	0	5,124,380	05:0
2245	99	225	12:33:39.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5571.81 +/- 2	2R3	4	0	5,124,380	05:0
2246	99	225	12:33:51.666	175KA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,380	24:0
2247	99	225	12:33:51.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5616.34 +/- 2	2R3	4	0	5,124,380	24:0
2248	99	225	12:33:52.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5617.34 +/- 2	2R3	4	0	5,124,380	25:8
2249	99	225	12:34:14.333	165KC4A	7SCAN	NORM,56.51,16.32	Check S/P Position	2R3	4	0	5,124,380	58:0
2250	99	225	12:34:37.000	118KC	**SMOS**	GS		2R3	4	0	5,124,381	01:0
2251	99	225	12:34:47.000	118KC110A111A4A	7STRP	-0.001,0.0,26,0,	Slew =,3.51	2R3	4	0	5,124,381	16:0
2252	99	225	12:35:29.666	175KB422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,381	80:0
2253	99	225	12:35:29.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5617.34 +/- 2	2R3	4	0	5,124,381	80:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2254	99	225	12:35:36.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5617.34 +/- 2	2R3	4	0	5,124,381:90:0
2255	99	225	12:35:39.000	118KC11A	**SMOS**	GE		2R3	4	0	5,124,382:03:0
2256	99	225	12:35:39.666	175KB176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,124,382:04:0
2257	99	225	12:35:40.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5623.64 +/- 2	2R3	4	0	5,124,382:05:0
2258	99	225	12:35:40.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5623.64 +/- 2	2R3	4	0	5,124,382:05:0
2259	99	225	12:35:53.000	175KB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,382:24:0
2260	99	225	12:35:53.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5668.17 +/- 2	2R3	4	0	5,124,382:24:0
2261	99	225	12:35:54.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5669.17 +/- 2	2R3	4	0	5,124,382:25:8
2262	99	225	12:45:43.000	165AK4A	7SCAN	NORM,97.95,25.05	Check S/P Position	2R3	4	0	5,124,391:90:0
2263	99	225	13:26:09.666	165AL4A	7SCAN	NORM,98.992999,2	Check S/P Position	2R3	4	0	5,124,431:90:0
2264	99	225	13:40:14.333	488AH6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	5,124,445:83:0
2265	99	225	14:07:37.000	165JJ4A	7SCAN	NORM,110.634999,	Check S/P Position	2R3	4	0	5,124,472:90:0
2266	99	225	14:11:34.333	118JJ	**SMOS**	GS		2R3	4	0	5,124,476:82:0
2267	99	225	14:11:39.000	165JJ4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,476:89:0
2268	99	225	14:11:44.333	118JJ110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2R3	4	0	5,124,477:06:0
2269	99	225	14:12:03.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5669.17 +/- 2	2R3	4	0	5,124,477:35:0
2270	99	225	14:12:03.666	175KC422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,477:35:0
2271	99	225	14:12:10.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5669.17 +/- 2	2R3	4	0	5,124,477:45:0
2272	99	225	14:12:13.666	175KC176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,124,477:50:0
2273	99	225	14:12:14.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5675.47 +/- 2	2R3	4	0	5,124,477:51:0
2274	99	225	14:12:14.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5675.47 +/- 2	2R3	4	0	5,124,477:51:0
2275	99	225	14:12:15.000	118JJ11A	**SMOS**	GE		2R3	4	0	5,124,477:52:0
2276	99	225	14:12:41.000	175KC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,478:00:0
2277	99	225	14:12:41.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5769.22 +/- 2	2R3	4	0	5,124,478:00:0
2278	99	225	14:12:42.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5770.22 +/- 2	2R3	4	0	5,124,478:01:8
2279	99	225	14:15:42.333	165AM4A	7SCAN	NORM,100.219999,	Check S/P Position	2R3	4	0	5,124,480:90:0
2280	99	225	14:27:10.333	488AH6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R3	4	0	5,124,492:30:0
2281	**99**	**225**	**14:56:13.733**	**22NNRELOAD01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2282	**99**	**225**	**14:59:22.333**	**20FN5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,124,524:16:0**
2283	**99**	**225**	**14:59:25.666**	**20FN5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,124,524:21:0**
2284	**99**	**225**	**14:59:35.666**	**20FN6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,124,524:36:0**
2285	**99**	**225**	**14:59:45.666**	**20FN6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,124,524:51:0**
2286	**99**	**225**	**14:59:55.666**	**20FN5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,124,524:66:0**
2287	**99**	**225**	**14:59:59.000**	**20FN5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,124,524:71:0**
2288	**99**	**225**	**15:00:05.000**	**20FN4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,124,524:80:0**
2289	**99**	**225**	**15:00:16.400**	**22NNRELOAD01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
2290	99	225	15:01:12.333	165AN4A	7SCAN	NORM,101.301999,	Check S/P Position	2R0	4	0	5,124,525:90:0
2291	**99**	**225**	**15:05:19.733**	**22NNCHOPOF01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
2292	99	225	15:07:12.333	127FN	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,124,531:84:0
2293	**99**	**225**	**15:07:12.333**	**127FN4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**2R0**	**4**	**0**	**5,124,531:84:0**
2294	**99**	**225**	**15:07:13.000**	**127FN4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**2R0**	**4**	**0**	**5,124,531:85:0**
2295	99	225	15:07:21.000	127FN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R0	4	0	5,124,532:06:0
2296	**99**	**225**	**15:10:14.333**	**125FN4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**5,124,534:84:0**
2297	99	225	15:10:14.333	125FN	NIMSINIT	GS	##### GROUP START INIT	260	4	0	5,124,534:84:0
2298	**99**	**225**	**15:11:15.000**	**125FN4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O0**	**4**	**0**	**5,124,535:84:0**
2299	**99**	**225**	**15:12:15.666**	**125FN4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2O0**	**4**	**0**	**5,124,536:84:0**
2300	99	225	15:12:15.666	125FN11A	NIMSINIT	GE	##### GROUP END INIT	2O0	4	0	5,124,536:84:0
2301	**99**	**225**	**15:15:26.400**	**22NNCHOPOF01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
2302	99	225	15:47:43.000	165JK4A	7SCAN	NORM,115.028999,	Check S/P Position	2O0	4	0	5,124,571:90:0
2303	99	225	15:51:40.333	118JK	**SMOS**	GS		2O0	4	0	5,124,575:82:0
2304	99	225	15:51:45.000	165JK4B	7VECT		Inert vect update UTC	2O0	4	0	5,124,575:89:0
2305	99	225	15:51:50.333	118JK110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2O0	4	0	5,124,576:06:0
2306	99	225	15:52:09.666	175KD422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	5,124,576:35:0
2307	99	225	15:52:09.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5770.22 +/- 2	2O0	4	0	5,124,576:35:0
2308	99	225	15:52:16.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5770.22 +/- 2	2O0	4	0	5,124,576:45:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2309	99	225	15:52:19.666	175KD176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	5,124,576	50:0
2310	99	225	15:52:20.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5776.52 +/- 2	2O0	4	0	5,124,576	51:0
2311	99	225	15:52:20.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5776.52 +/- 2	2O0	4	0	5,124,576	51:0
2312	99	225	15:52:21.000	118JK11A	**SMOS**	GE		2O0	4	0	5,124,576	52:0
2313	99	225	15:52:47.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5870.27 +/- 2	2O0	4	0	5,124,577	00:0
2314	99	225	15:52:47.000	175KD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,577	00:0
2315	99	225	15:52:48.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5871.27 +/- 2	2O0	4	0	5,124,577	01:8
2316	99	225	15:52:49.666	165AO4A	7SCAN	NORM,102.476999,	Check S/P Position	2O0	4	0	5,124,577	04:0
2317	99	225	16:54:27.000	165AP4A	7SCAN	NORM,103.818999,	Check S/P Position	2O0	4	0	5,124,637	90:0
2318	99	225	17:21:45.000	165JL4A	7SCAN	NORM,118.551,22.	Check S/P Position	2O0	4	0	5,124,664	90:0
2319	99	225	17:25:42.333	118JL	**SMOS**	GS		2O0	4	0	5,124,668	82:0
2320	99	225	17:25:47.000	165JL4B	7VECT		Inert vect update UTC	2O0	4	0	5,124,668	89:0
2321	99	225	17:25:52.333	118JL110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2O0	4	0	5,124,669	06:0
2322	99	225	17:26:11.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5871.27 +/- 2	2O0	4	0	5,124,669	35:0
2323	99	225	17:26:11.666	175KE422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	5,124,669	35:0
2324	99	225	17:26:18.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5871.27 +/- 2	2O0	4	0	5,124,669	45:0
2325	99	225	17:26:21.666	175KE176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	5,124,669	50:0
2326	99	225	17:26:22.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5877.57 +/- 2	2O0	4	0	5,124,669	51:0
2327	99	225	17:26:22.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5877.57 +/- 2	2O0	4	0	5,124,669	51:0
2328	99	225	17:26:23.000	118JL11A	**SMOS**	GE		2O0	4	0	5,124,669	52:0
2329	99	225	17:26:49.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5971.32 +/- 2	2O0	4	0	5,124,670	00:0
2330	99	225	17:26:49.000	175KE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,670	00:0
2331	99	225	17:26:50.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5972.32 +/- 2	2O0	4	0	5,124,670	01:8
2332	99	225	17:27:49.666		DMS:	: READY	RDY, TRACK *2, *REV, TIC 5972.32 +/- 2	2O0	4	0	5,124,671	00:0
2333	99	225	17:27:49.666	465KI6A	6DMSC	RDY,2	DMS Control Tape stop	2O0	4	0	5,124,671	00:0
2334	99	225	17:29:50.333	165JM4A	7SCAN	NORM,105.250999,	Check S/P Position	2O0	4	0	5,124,672	90:0
2335	99	225	17:31:41.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5972.32 +/- 2	2O0	4	0	5,124,674	75:0
2336	99	225	17:31:41.666	175KF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,674	75:0
2337	99	225	17:31:43.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5972.44 +/- 2	2O0	4	0	5,124,674	77:1
2338	99	225	17:31:44.333	118JM	**SMOS**	GS		2O0	4	0	5,124,674	79:0
2339	99	225	17:31:48.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5973.68 +/- 2	2O0	4	0	5,124,674	85:0
2340	99	225	17:31:49.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5973.74 +/- 2	2O0	4	0	5,124,674	86:8
2341	99	225	17:31:53.000	175KF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,675	01:0
2342	99	225	17:31:53.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5967.44 +/- 2	2O0	4	0	5,124,675	01:8
2343	99	225	17:31:53.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5967.44 +/- 3	2O0	4	0	5,124,675	01:8
2344	99	225	17:31:54.333	118JM110A111A4A	7STRP	0.007,-0.00012,4	Slew =,3.51	2O0	4	0	5,124,675	03:0
2345	99	225	17:32:09.666	118JM110A111A4B	7STRP	-0.007,0.00012,0	Slew =,3.51	2O0	4	0	5,124,675	26:0
2346	99	225	17:32:25.000	118JM110A111A4C	7STRP	0.007,-0.00012,4	Slew =,3.51	2O0	4	0	5,124,675	49:0
2347	99	225	17:32:40.333	118JM110A111A4D	7STRP	-0.007,0.00012,0	Slew =,3.51	2O0	4	0	5,124,675	72:0
2348	99	225	17:32:55.666	118JM110A111A4E	7STRP	0.007,-0.00012,4	Slew =,3.51	2O0	4	0	5,124,676	04:0
2349	99	225	17:33:11.000	118JM110A111A4F	7STRP	-0.007,0.00012,0	Slew =,3.51	2O0	4	0	5,124,676	27:0
2350	99	225	17:33:26.333	118JM110A111A4G	7STRP	0.007,-0.00012,4	Slew =,3.51	2O0	4	0	5,124,676	50:0
2351	99	225	17:33:41.666	118JM11A	**SMOS**	GE		2O0	4	0	5,124,676	73:0
2352	99	225	17:33:53.666	175KF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,677	00:0
2353	99	225	17:33:53.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5545.09 +/- 3	2O0	4	0	5,124,677	00:0
2354	99	225	17:33:54.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5544.09 +/- 3	2O0	4	0	5,124,677	01:8
2355	99	225	17:36:55.000	165AQ4A	7SCAN	NORM,104.704,24.	Check S/P Position	2O0	4	0	5,124,679	90:0
2356	99	225	18:22:25.000	165JN4A	7SCAN	NORM,105.025,22.	Check S/P Position	2O0	4	0	5,124,724	90:0
2357	99	225	18:24:16.333	175KG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,726	75:0
2358	99	225	18:24:16.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5544.09 +/- 3	2O0	4	0	5,124,726	75:0
2359	99	225	18:24:17.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5544.21 +/- 3	2O0	4	0	5,124,726	77:1
2360	99	225	18:24:19.000	118JN	**SMOS**	GS		2O0	4	0	5,124,726	79:0
2361	99	225	18:24:23.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5545.45 +/- 3	2O0	4	0	5,124,726	85:0
2362	99	225	18:24:24.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5545.51 +/- 3	2O0	4	0	5,124,726	86:8
2363	99	225	18:24:27.666	175KG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,727	01:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2364	99	225	18:24:28.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5539.21 +/- 3	2O0	4	0	5,124,727:01:8	
2365	99	225	18:24:28.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5539.21 +/- 3	2O0	4	0	5,124,727:01:8	
2366	99	225	18:24:29.000	118JN110A111A4A	7STRP	0.007,-0.00029,4	Slew =,3.51	2O0	4	0	5,124,727:03:0	
2367	99	225	18:24:44.333	118JN110A111A4B	7STRP	-0.0069,0.00029,	Slew =,3.51	2O0	4	0	5,124,727:26:0	
2368	99	225	18:24:59.666	118JN110A111A4C	7STRP	0.007,-0.00029,4	Slew =,3.51	2O0	4	0	5,124,727:49:0	
2369	99	225	18:25:15.000	118JN110A111A4D	7STRP	-0.0069,0.00029,	Slew =,3.51	2O0	4	0	5,124,727:72:0	
2370	99	225	18:25:30.333	118JN110A111A4E	7STRP	0.007,-0.00029,4	Slew =,3.51	2O0	4	0	5,124,728:04:0	
2371	99	225	18:25:45.666	118JN110A111A4F	7STRP	-0.0069,0.00029,	Slew =,3.51	2O0	4	0	5,124,728:27:0	
2372	99	225	18:26:01.000	118JN110A111A4G	7STRP	0.007,-0.00029,4	Slew =,3.51	2O0	4	0	5,124,728:50:0	
2373	99	225	18:26:16.333	118JN11A	**SMOS**	GE		2O0	4	0	5,124,728:73:0	
2374	99	225	18:26:27.666	165KE4A	7SCAN	NORM,56.599,16.3	Check S/P Position	2O0	4	0	5,124,728:90:0	
2375	99	225	18:26:28.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5116.87 +/- 3	2O0	4	0	5,124,729:00:0	
2376	99	225	18:26:28.333	175KG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,729:00:0	
2377	99	225	18:26:29.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5115.87 +/- 3	2O0	4	0	5,124,729:01:8	
2378	99	225	18:30:35.000	118KE	**SMOS**	GS		2O0	4	0	5,124,733:06:0	
2379	99	225	18:30:59.666	118KE110A111A4A	7STRP	-0.003,0.0,92,0,	Slew =,3.51	2O0	4	0	5,124,733:43:0	
2380	99	225	18:31:53.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5115.87 +/- 3	2O0	4	0	5,124,734:33:0	
2381	99	225	18:31:53.666	175KH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,734:33:0	
2382	99	225	18:31:55.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5115.99 +/- 3	2O0	4	0	5,124,734:35:1	
2383	99	225	18:32:00.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5117.22 +/- 3	2O0	4	0	5,124,734:43:0	
2384	99	225	18:32:01.000	118KE11A	**SMOS**	GE		2O0	4	0	5,124,734:44:0	
2385	99	225	18:32:01.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5117.28 +/- 3	2O0	4	0	5,124,734:44:8	
2386	99	225	18:32:05.000	175KH176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	5,124,734:50:0	
2387	99	225	18:32:05.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5110.98 +/- 3	2O0	4	0	5,124,734:50:8	
2388	99	225	18:32:05.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5110.98 +/- 3	2O0	4	0	5,124,734:50:8	
2389	99	225	18:32:19.666	175KH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,734:72:0	
2390	99	225	18:32:19.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5061.29 +/- 3	2O0	4	0	5,124,734:72:0	
2391	99	225	18:32:20.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5060.29 +/- 3	2O0	4	0	5,124,734:73:8	
2392	99	225	18:33:12.333	165KG4A	7SCAN	NORM,56.689,16.3	Check S/P Position	2O0	4	0	5,124,735:60:0	
2393	99	225	18:33:37.000	118KG	**SMOS**	GS		2O0	4	0	5,124,736:06:0	
2394	99	225	18:34:31.000	118KG110A111A4A	7STRP	-0.003,-0.00005,	Slew =,3.51	2O0	4	0	5,124,736:87:0	
2395	99	225	18:35:29.666	175KI422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,737:84:0	
2396	99	225	18:35:29.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5060.29 +/- 3	2O0	4	0	5,124,737:84:0	
2397	99	225	18:35:31.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5060.41 +/- 3	2O0	4	0	5,124,737:86:1	
2398	99	225	18:35:31.666	118KG11A	**SMOS**	GE		2O0	4	0	5,124,737:87:0	
2399	99	225	18:35:36.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5061.65 +/- 3	2O0	4	0	5,124,738:03:0	
2400	99	225	18:35:37.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5061.71 +/- 3	2O0	4	0	5,124,738:04:8	
2401	99	225	18:35:41.000	175KI176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,738:10:0	
2402	99	225	18:35:41.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5055.41 +/- 3	2O0	4	0	5,124,738:10:8	
2403	99	225	18:35:41.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5055.41 +/- 3	2O0	4	0	5,124,738:10:8	
2404	99	225	18:35:54.333	175KI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,738:30:0	
2405	99	225	18:35:54.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5010.41 +/- 3	2O0	4	0	5,124,738:30:0	
2406	99	225	18:35:55.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5009.41 +/- 3	2O0	4	0	5,124,738:31:8	
2407	99	225	18:36:14.333	165KH4A	7SCAN	NORM,56.689,16.3	Check S/P Position	2O0	4	0	5,124,738:60:0	
2408	99	225	18:36:39.000	118KH	**SMOS**	GS		2O0	4	0	5,124,739:06:0	
2409	99	225	18:37:33.000	118KH110A111A4A	7STRP	-0.003,-0.00005,	Slew =,3.51	2O0	4	0	5,124,739:87:0	
2410	99	225	18:38:31.666	175KJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,740:84:0	
2411	99	225	18:38:31.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5009.41 +/- 3	2O0	4	0	5,124,740:84:0	
2412	99	225	18:38:33.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5009.53 +/- 3	2O0	4	0	5,124,740:86:1	
2413	99	225	18:38:33.666	118KH11A	**SMOS**	GE		2O0	4	0	5,124,740:87:0	
2414	99	225	18:38:38.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5010.76 +/- 3	2O0	4	0	5,124,741:03:0	
2415	99	225	18:38:39.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5010.82 +/- 3	2O0	4	0	5,124,741:04:8	
2416	99	225	18:38:43.000	175KJ176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,741:10:0	
2417	99	225	18:38:43.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5004.52 +/- 3	2O0	4	0	5,124,741:10:8	
2418	99	225	18:38:43.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5004.52 +/- 3	2O0	4	0	5,124,741:10:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2419	99	225	18:38:56.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4959.52 +/- 3	2O0	4	0	5,124,741:30:0	
2420	99	225	18:38:56.333	175KJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,741:30:0	
2421	99	225	18:38:57.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4958.52 +/- 3	2O0	4	0	5,124,741:31:8	
2422	99	225	18:42:37.666	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	5,124,744:89:0	
2423	99	225	18:44:39.666	165JO4A	7SCAN	NORM,106.011999,	Check S/P Position	2O0	4	0	5,124,746:90:0	
2424	99	225	18:46:31.000	175KK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,748:75:0	
2425	99	225	18:46:31.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4958.52 +/- 3	2O0	4	0	5,124,748:75:0	
2426	99	225	18:46:32.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4958.64 +/- 3	2O0	4	0	5,124,748:77:1	
2427	99	225	18:46:33.666	118JO	**SMOS**	GS		2O0	4	0	5,124,748:79:0	
2428	99	225	18:46:37.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4959.88 +/- 3	2O0	4	0	5,124,748:85:0	
2429	99	225	18:46:38.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *4959.94 +/- 3	2O0	4	0	5,124,748:86:8	
2430	99	225	18:46:42.333	175KK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,749:01:0	
2431	99	225	18:46:42.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 4953.64 +/- 3	2O0	4	0	5,124,749:01:8	
2432	99	225	18:46:42.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4953.64 +/- 3	2O0	4	0	5,124,749:01:8	
2433	99	225	18:46:43.666	118JO110A111A4A	7STRP	0.007,-0.00057,4	Slew =,3.51	2O0	4	0	5,124,749:03:0	
2434	99	225	18:46:45.666	20ZM6A	6EUVON			2O0	4	0	5,124,749:06:0	
2435	99	225	18:46:59.000	118JO110A111A4B	7STRP	-0.007,0.00057,0	Slew =,3.51	2O0	4	0	5,124,749:26:0	
2436	99	225	18:47:14.333	118JO110A111A4C	7STRP	0.007,-0.00057,4	Slew =,3.51	2O0	4	0	5,124,749:49:0	
2437	99	225	18:47:29.666	118JO110A111A4D	7STRP	-0.007,0.00057,0	Slew =,3.51	2O0	4	0	5,124,749:72:0	
2438	99	225	18:47:42.333	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	5,124,750:00:0	
2439	99	225	18:47:45.000	118JO110A111A4E	7STRP	0.007,-0.00057,4	Slew =,3.51	2O0	4	0	5,124,750:04:0	
2440	99	225	18:48:00.333	118JO110A111A4F	7STRP	-0.007,0.00057,0	Slew =,3.51	2O0	4	0	5,124,750:27:0	
2441	99	225	18:48:15.666	118JO110A111A4G	7STRP	0.007,-0.00057,4	Slew =,3.51	2O0	4	0	5,124,750:50:0	
2442	99	225	18:48:31.000	118JO11A	**SMOS**	GE		2O0	4	0	5,124,750:73:0	
2443	99	225	18:48:43.000	175KK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,751:00:0	
2444	99	225	18:48:43.000		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4531.29 +/- 3	2O0	4	0	5,124,751:00:0	
2445	99	225	18:48:44.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4530.29 +/- 3	2O0	4	0	5,124,751:01:8	
2446	99	225	18:51:44.333	165JP4A	7SCAN	NORM,121.323999,	Check S/P Position	2O0	4	0	5,124,753:90:0	
2447	99	225	18:55:41.666	118JP	**SMOS**	GS		2O0	4	0	5,124,757:82:0	
2448	99	225	18:55:46.333	165JP4B	7VECT		Inert vect update UTC	2O0	4	0	5,124,757:89:0	
2449	99	225	18:55:51.666	118JP110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2O0	4	0	5,124,758:06:0	
2450	99	225	18:56:09.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4530.29 +/- 3	2O0	4	0	5,124,758:33:0	
2451	99	225	18:56:09.666	175KL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,758:33:0	
2452	99	225	18:56:11.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4530.41 +/- 3	2O0	4	0	5,124,758:35:1	
2453	99	225	18:56:16.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4531.65 +/- 3	2O0	4	0	5,124,758:43:0	
2454	99	225	18:56:17.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *4531.71 +/- 3	2O0	4	0	5,124,758:44:8	
2455	99	225	18:56:21.000	175KL176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	5,124,758:50:0	
2456	99	225	18:56:21.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 4525.41 +/- 3	2O0	4	0	5,124,758:50:8	
2457	99	225	18:56:21.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4525.41 +/- 3	2O0	4	0	5,124,758:50:8	
2458	99	225	18:56:22.333	118JP11A	**SMOS**	GE		2O0	4	0	5,124,758:52:0	
2459	99	225	18:56:48.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4431.19 +/- 3	2O0	4	0	5,124,759:00:0	
2460	99	225	18:56:48.333	175KL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,759:00:0	
2461	99	225	18:56:49.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4430.19 +/- 3	2O0	4	0	5,124,759:01:8	
2462	99	225	19:07:55.000	165JQ4A	7SCAN	NORM,106.026999,	Check S/P Position	2O0	4	0	5,124,769:90:0	
2463	99	225	19:09:46.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4430.19 +/- 3	2O0	4	0	5,124,771:75:0	
2464	99	225	19:09:46.333	175KM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,771:75:0	
2465	99	225	19:09:47.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4430.31 +/- 3	2O0	4	0	5,124,771:77:1	
2466	99	225	19:09:49.000	118JQ	**SMOS**	GS		2O0	4	0	5,124,771:79:0	
2467	99	225	19:09:53.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4431.54 +/- 3	2O0	4	0	5,124,771:85:0	
2468	99	225	19:09:54.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *4431.60 +/- 3	2O0	4	0	5,124,771:86:8	
2469	99	225	19:09:57.666	175KM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,772:01:0	
2470	99	225	19:09:58.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4425.30 +/- 3	2O0	4	0	5,124,772:01:8	
2471	99	225	19:09:58.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 4425.30 +/- 3	2O0	4	0	5,124,772:01:8	
2472	99	225	19:09:59.000	118JQ110A111A4A	7STRP	0.007,-0.00043,4	Slew =,3.51	2O0	4	0	5,124,772:03:0	
2473	99	225	19:10:14.333	118JQ110A111A4B	7STRP	-0.0069,0.00043,	Slew =,3.51	2O0	4	0	5,124,772:26:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2474	99	225	19:10:29.666	118JQ110A111A4C	7STRP	0.007,-0.00043,4	Slew =,3.51	2O0	4	0	5,124,772	49:0
2475	99	225	19:10:45.000	118JQ110A111A4D	7STRP	-0.0069,0.00043,	Slew =,3.51	2O0	4	0	5,124,772	72:0
2476	99	225	19:11:00.333	118JQ110A111A4E	7STRP	0.007,-0.00043,4	Slew =,3.51	2O0	4	0	5,124,773	04:0
2477	99	225	19:11:15.666	118JQ110A111A4F	7STRP	-0.0069,0.00043,	Slew =,3.51	2O0	4	0	5,124,773	27:0
2478	99	225	19:11:31.000	118JQ110A111A4G	7STRP	0.007,-0.00043,4	Slew =,3.51	2O0	4	0	5,124,773	50:0
2479	99	225	19:11:46.333	118JQ11A	**SMOS**	GE		2O0	4	0	5,124,773	73:0
2480	99	225	19:11:57.666	165JR4A	7SCAN	NORM,106.426,26.	Check S/P Position	2O0	4	0	5,124,773	90:0
2481	99	225	19:11:58.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4002.96 +/- 3	2O0	4	0	5,124,774	00:0
2482	99	225	19:11:58.333	175KM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,774	00:0
2483	99	225	19:11:59.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4001.96 +/- 3	2O0	4	0	5,124,774	01:8
2484	99	225	19:13:03.000	118JR	**SMOS**	GS		2O0	4	0	5,124,775	06:0
2485	99	225	19:13:19.000	175KN422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,775	30:0
2486	99	225	19:13:19.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4001.96 +/- 3	2O0	4	0	5,124,775	30:0
2487	99	225	19:13:20.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4002.08 +/- 3	2O0	4	0	5,124,775	32:1
2488	99	225	19:13:25.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4003.31 +/- 3	2O0	4	0	5,124,775	40:0
2489	99	225	19:13:26.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *4003.37 +/- 3	2O0	4	0	5,124,775	41:8
2490	99	225	19:13:30.333	175KN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,775	47:0
2491	99	225	19:13:30.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *3997.07 +/- 3	2O0	4	0	5,124,775	47:8
2492	99	225	19:13:30.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 3997.07 +/- 3	2O0	4	0	5,124,775	47:8
2493	99	225	19:13:31.666	118JR110A111A4A	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,775	49:0
2494	99	225	19:13:47.000	118JR110A111A4B	7STRP	-0.007,0.00058,0	Slew =,3.51	2O0	4	0	5,124,775	72:0
2495	99	225	19:14:02.333	118JR110A111A4C	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,776	04:0
2496	99	225	19:14:17.666	118JR110A111A4D	7STRP	-0.007,0.00058,0	Slew =,3.51	2O0	4	0	5,124,776	27:0
2497	99	225	19:14:33.000	118JR110A111A4E	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,776	50:0
2498	99	225	19:14:48.333	118JR110A111A4F	7STRP	-0.007,0.00058,0	Slew =,3.51	2O0	4	0	5,124,776	73:0
2499	99	225	19:15:03.666	118JR110A111A4G	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,777	05:0
2500	99	225	19:15:19.000	118JR11A	**SMOS**	GE		2O0	4	0	5,124,777	28:0
2501	99	225	19:15:31.000	175KN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,777	46:0
2502	99	225	19:15:31.000		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *3574.73 +/- 3	2O0	4	0	5,124,777	46:0
2503	99	225	19:15:32.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3573.73 +/- 3	2O0	4	0	5,124,777	47:8
2504	99	225	19:16:00.333	165JS4A	7SCAN	NORM,106.848,26.	Check S/P Position	2O0	4	0	5,124,777	90:0
2505	99	225	19:16:51.000	175KO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,778	75:0
2506	99	225	19:16:51.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3573.73 +/- 3	2O0	4	0	5,124,778	75:0
2507	99	225	19:16:52.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3573.85 +/- 3	2O0	4	0	5,124,778	77:1
2508	99	225	19:16:53.666	118JS	**SMOS**	GS		2O0	4	0	5,124,778	79:0
2509	99	225	19:16:57.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3575.08 +/- 3	2O0	4	0	5,124,778	85:0
2510	99	225	19:16:58.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *3575.14 +/- 3	2O0	4	0	5,124,778	86:8
2511	99	225	19:17:02.333	175KO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,779	01:0
2512	99	225	19:17:02.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 3568.84 +/- 3	2O0	4	0	5,124,779	01:8
2513	99	225	19:17:02.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *3568.84 +/- 3	2O0	4	0	5,124,779	01:8
2514	99	225	19:17:03.666	118JS110A111A4A	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,779	03:0
2515	99	225	19:17:34.333	118JS110A111A4B	7STRP	-0.014001,0.0011	Slew =,3.51	2O0	4	0	5,124,779	49:0
2516	99	225	19:17:49.666	118JS110A111A4C	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,779	72:0
2517	99	225	19:18:20.333	118JS110A111A4D	7STRP	-0.014001,0.0011	Slew =,3.51	2O0	4	0	5,124,780	27:0
2518	99	225	19:18:35.666	118JS110A111A4E	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,780	50:0
2519	99	225	19:19:06.333	118JS110A111A4F	7STRP	-0.014001,0.0011	Slew =,3.51	2O0	4	0	5,124,781	05:0
2520	99	225	19:19:21.666	118JS110A111A4G	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,781	28:0
2521	99	225	19:19:52.333	118JS11A	**SMOS**	GE		2O0	4	0	5,124,781	74:0
2522	99	225	19:20:03.000	165JT4A	7SCAN	NORM,106.594,26.	Check S/P Position	2O0	4	0	5,124,781	90:0
2523	99	225	19:20:03.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2933.22 +/- 3	2O0	4	0	5,124,782	00:0
2524	99	225	19:20:03.666	175KO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,782	00:0
2525	99	225	19:20:04.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2932.22 +/- 3	2O0	4	0	5,124,782	01:8
2526	99	225	19:21:54.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2932.22 +/- 3	2O0	4	0	5,124,783	75:0
2527	99	225	19:21:54.333	175KP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,783	75:0
2528	99	225	19:21:55.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2932.34 +/- 3	2O0	4	0	5,124,783	77:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2529	99	225	19:21:57.000	118JT	**SMOS**	GS		2O0	4	0	5,124,783:79:0	
2530	99	225	19:22:01.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2933.57 +/- 3	2O0	4	0	5,124,783:85:0	
2531	99	225	19:22:02.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *2933.63 +/- 3	2O0	4	0	5,124,783:86:8	
2532	99	225	19:22:05.666	175KP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,784:01:0	
2533	99	225	19:22:06.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 2927.33 +/- 3	2O0	4	0	5,124,784:01:8	
2534	99	225	19:22:06.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2927.33 +/- 3	2O0	4	0	5,124,784:01:8	
2535	99	225	19:22:07.000	118JT110A111A4A	7STRP	0.007,-0.00055,4	Slew =,3.51	2O0	4	0	5,124,784:03:0	
2536	99	225	19:22:22.333	118JT110A111A4B	7STRP	-0.007,0.00055,0	Slew =,3.51	2O0	4	0	5,124,784:26:0	
2537	99	225	19:22:37.666	118JT110A111A4C	7STRP	0.007,-0.00055,4	Slew =,3.51	2O0	4	0	5,124,784:49:0	
2538	99	225	19:22:53.000	118JT110A111A4D	7STRP	-0.007,0.00055,0	Slew =,3.51	2O0	4	0	5,124,784:72:0	
2539	99	225	19:23:08.333	118JT110A111A4E	7STRP	0.007,-0.00055,4	Slew =,3.51	2O0	4	0	5,124,785:04:0	
2540	99	225	19:23:23.666	118JT110A111A4F	7STRP	-0.007,0.00055,0	Slew =,3.51	2O0	4	0	5,124,785:27:0	
2541	99	225	19:23:39.000	118JT110A111A4G	7STRP	0.007,-0.00055,4	Slew =,3.51	2O0	4	0	5,124,785:50:0	
2542	99	225	19:23:54.333	118JT11A	**SMOS**	GE		2O0	4	0	5,124,785:73:0	
2543	99	225	19:24:06.333	175KP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,786:00:0	
2544	99	225	19:24:06.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2504.99 +/- 3	2O0	4	0	5,124,786:00:0	
2545	99	225	19:24:07.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2503.99 +/- 3	2O0	4	0	5,124,786:01:8	
2546	99	225	19:38:15.000	165JU4A	7SCAN	NORM,106.445,24.	Check S/P Position	2O0	4	0	5,124,799:90:0	
2547	99	225	19:40:06.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2503.99 +/- 3	2O0	4	0	5,124,801:75:0	
2548	99	225	19:40:06.333	175KQ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,801:75:0	
2549	99	225	19:40:07.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2504.11 +/- 3	2O0	4	0	5,124,801:77:1	
2550	99	225	19:40:09.000	118JU	**SMOS**	GS		2O0	4	0	5,124,801:79:0	
2551	99	225	19:40:13.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2505.34 +/- 3	2O0	4	0	5,124,801:85:0	
2552	99	225	19:40:14.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *2505.40 +/- 3	2O0	4	0	5,124,801:86:8	
2553	99	225	19:40:17.666	175KQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,802:01:0	
2554	99	225	19:40:18.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2499.10 +/- 3	2O0	4	0	5,124,802:01:8	
2555	99	225	19:40:18.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 2499.10 +/- 3	2O0	4	0	5,124,802:01:8	
2556	99	225	19:40:19.000	118JU110A111A4A	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,802:03:0	
2557	99	225	19:40:34.333	118JU110A111A4B	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,802:26:0	
2558	99	225	19:40:49.666	118JU110A111A4C	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,802:49:0	
2559	99	225	19:41:05.000	118JU110A111A4D	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,802:72:0	
2560	99	225	19:41:20.333	118JU110A111A4E	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,803:04:0	
2561	99	225	19:41:35.666	118JU110A111A4F	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,803:27:0	
2562	99	225	19:41:51.000	118JU110A111A4G	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,803:50:0	
2563	99	225	19:42:06.333	118JU11A	**SMOS**	GE		2O0	4	0	5,124,803:73:0	
2564	99	225	19:42:17.666	165JV4A	7SCAN	NORM,107.181,24.	Check S/P Position	2O0	4	0	5,124,803:90:0	
2565	99	225	19:42:18.333	175KQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,804:00:0	
2566	99	225	19:42:18.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2076.76 +/- 3	2O0	4	0	5,124,804:00:0	
2567	99	225	19:42:19.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2075.76 +/- 3	2O0	4	0	5,124,804:01:8	
2568	99	225	19:44:09.000	175KR422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,805:75:0	
2569	99	225	19:44:09.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2075.76 +/- 3	2O0	4	0	5,124,805:75:0	
2570	99	225	19:44:10.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2075.88 +/- 3	2O0	4	0	5,124,805:77:1	
2571	99	225	19:44:11.666	118JV	**SMOS**	GS		2O0	4	0	5,124,805:79:0	
2572	99	225	19:44:15.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2077.11 +/- 3	2O0	4	0	5,124,805:85:0	
2573	99	225	19:44:16.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *2077.17 +/- 3	2O0	4	0	5,124,805:86:8	
2574	99	225	19:44:20.333	175KR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,806:01:0	
2575	99	225	19:44:20.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 2070.87 +/- 3	2O0	4	0	5,124,806:01:8	
2576	99	225	19:44:20.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2070.87 +/- 3	2O0	4	0	5,124,806:01:8	
2577	99	225	19:44:21.666	118JV110A111A4A	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,806:03:0	
2578	99	225	19:44:37.000	118JV110A111A4B	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,806:26:0	
2579	99	225	19:44:52.333	118JV110A111A4C	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,806:49:0	
2580	99	225	19:45:07.666	118JV110A111A4D	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,806:72:0	
2581	99	225	19:45:23.000	118JV110A111A4E	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,807:04:0	
2582	99	225	19:45:38.333	118JV110A111A4F	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,807:27:0	
2583	99	225	19:45:53.666	118JV110A111A4G	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,807:50:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2584	99	225	19:46:09.000	118JV11A	**SMOS**	GE		2O0	4	0	5,124,807:73:0	
2585	99	225	19:46:20.333	165JW4A	7SCAN	NORM,107.860999,	Check S/P Position	2O0	4	0	5,124,807:90:0	
2586	99	225	19:46:21.000		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *1648.53 +/- 3	2O0	4	0	5,124,808:00:0	
2587	99	225	19:46:21.000	175KR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,808:00:0	
2588	99	225	19:46:22.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1647.53 +/- 3	2O0	4	0	5,124,808:01:8	
2589	99	225	19:48:11.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1647.53 +/- 3	2O0	4	0	5,124,809:75:0	
2590	99	225	19:48:11.666	175KS422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,809:75:0	
2591	99	225	19:48:13.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1647.65 +/- 3	2O0	4	0	5,124,809:77:1	
2592	99	225	19:48:14.333	118JW	**SMOS**	GS		2O0	4	0	5,124,809:79:0	
2593	99	225	19:48:18.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1648.88 +/- 3	2O0	4	0	5,124,809:85:0	
2594	99	225	19:48:19.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *1648.94 +/- 3	2O0	4	0	5,124,809:86:8	
2595	99	225	19:48:23.000	175KS176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,810:01:0	
2596	99	225	19:48:23.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *1642.64 +/- 3	2O0	4	0	5,124,810:01:8	
2597	99	225	19:48:23.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 1642.64 +/- 3	2O0	4	0	5,124,810:01:8	
2598	99	225	19:48:24.333	118JW110A111A4A	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,810:03:0	
2599	99	225	19:48:39.666	118JW110A111A4B	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,810:26:0	
2600	99	225	19:48:55.000	118JW110A111A4C	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,810:49:0	
2601	99	225	19:49:10.333	118JW110A111A4D	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,810:72:0	
2602	99	225	19:49:25.666	118JW110A111A4E	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,811:04:0	
2603	99	225	19:49:41.000	118JW110A111A4F	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,811:27:0	
2604	99	225	19:49:56.333	118JW110A111A4G	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,811:50:0	
2605	99	225	19:50:11.666	118JW11A	**SMOS**	GE		2O0	4	0	5,124,811:73:0	
2606	99	225	19:50:23.666	175KS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,812:00:0	
2607	99	225	19:50:23.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *1220.30 +/- 3	2O0	4	0	5,124,812:00:0	
2608	99	225	19:50:24.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1219.30 +/- 4	2O0	4	0	5,124,812:01:8	
2609	99	225	19:52:24.333	165BA4A	7SCAN	NORM,125.566999,	Check S/P Position	2O0	4	0	5,124,813:90:0	
2610	99	225	20:14:04.333	20VL4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,124,835:38:0	
2611	99	225	20:14:54.333	20VL4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,124,836:22:0	
2612	99	225	20:16:41.000	176WA6A	6TMREC	IPB	INITIATE PLAYBACK (PB CONTROL) Record Mod	2O0	4	0	5,124,838:00:0	
2613	99	225	20:45:00.333	488AI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,124,866:01:0	
2614	99	225	21:59:26.333	488AI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,124,939:57:0	
2615	99	225	22:25:02.333	488AI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,124,964:86:0	
2616	99	225	23:17:40.333	176CM6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,125,017:00:0	
2617	99	225	23:20:41.666	165AI4A	7SCAN	NORM,109.771,21.	Check S/P Position	2O0	4	0	5,125,019:90:0	
2618	99	225	23:24:43.666	165AI4B	7VECT		Inert vect update UTC	2O0	4	0	5,125,023:89:0	
2619	99	225	23:25:53.666	20SJ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,125,025:12:0	
2620	99	225	23:26:43.666	20SJ4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,125,025:87:0	
2621	99	225	23:27:47.000	176CN6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,125,027:00:0	
2622	99	225	23:37:34.333	488AI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,036:62:0	
2623	99	225	23:52:29.666	488AI6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,051:40:0	
2624	99	226	00:21:35.666	488AJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,080:20:0	
2625	99	226	00:50:41.666	176CA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,125,109:00:0	
2626	99	226	00:55:44.333	165BB4A	7SCAN	NORM,125.566999,	Check S/P Position	2O0	4	0	5,125,113:90:0	
2627	99	226	00:58:55.000	20SC4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,125,117:12:0	
2628	99	226	00:59:45.000	20SC4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,125,117:87:0	
2629	99	226	01:00:48.333	176CB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,125,119:00:0	
2630	99	226	06:05:50.333	488AJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,125,420:62:0	
2631	99	226	06:37:50.333	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,452:30:0	
2632	99	226	07:28:29.000	488AK6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,502:38:0	
2633	99	226	07:30:09.000	488AK6C	6TMSED	FILL,DL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,504:06:0	
2634	99	226	08:00:00.333	481UB4A	7VECT	BB2	Inert vect update UTC	2O0	4	0	5,125,533:54:0	
2635	99	226	09:13:34.333	488AK6D	6TMSED	FILL,DL6	Sci, Eng, and D/L Chan	2O0	4	0	5,125,606:32:0	
2636	99	226	09:31:28.933	488AK6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,125,624:06:0	
2637	99	226	09:34:11.600	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,125,626:68:0	
2638	99	226	10:32:03.600	432JB6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	2O0	4	0	5,125,683:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2639	99	226	11:08:27.600	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	5,125,719:89:0	
2640	99	226	11:11:37.600	20YC6A	6HICON			2O0	4	0	5,125,723:10:0	
2641	99	226	11:12:31.600	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	5,125,724:00:0	
2642	99	226	13:28:00.933	176CC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,125,858:00:0	
2643	99	226	13:32:02.933	165CF4A	7SCAN	NORM,87.360999,2	Check S/P Position	2O0	4	0	5,125,861:90:0	
2644	99	226	13:35:04.266	165CF4B	7VECT		Inert vect update UTC	2O0	4	0	5,125,864:89:0	
2645	99	226	13:35:58.266	488AL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,125,865:79:0	
2646	99	226	13:36:14.266	20SD4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,125,866:12:0	
2647	99	226	13:37:04.266	20SD4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,125,866:87:0	
2648	99	226	13:38:07.600	176CD6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,125,868:00:0	
2649	99	226	14:07:58.266	488AL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,897:47:0	
2650	99	226	14:25:38.933	176CE6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,125,915:00:0	
2651	99	226	14:31:42.266	165CG4A	7SCAN	NORM,88.903999,2	Check S/P Position	2O0	4	0	5,125,920:90:0	
2652	99	226	14:32:42.266	165CG4B	7VECT		Inert vect update UTC	2O0	4	0	5,125,921:89:0	
2653	99	226	14:32:51.600	20SE4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,125,922:12:0	
2654	99	226	14:33:41.600	20SE4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,125,922:87:0	
2655	99	226	14:35:45.600	176CF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,125,925:00:0	
2656	99	226	14:42:25.600	488AL6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,931:54:0	
2657	99	226	14:58:00.266	176CG6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,125,947:00:0	
2658	99	226	15:04:03.600	165CH4A	7SCAN	NORM,89.582,25.2	Check S/P Position	2O0	4	0	5,125,952:90:0	
2659	99	226	15:05:03.600	165CH4B	7VECT		Inert vect update UTC	2O0	4	0	5,125,953:89:0	
2660	99	226	15:06:13.600	20SF4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,125,955:12:0	
2661	99	226	15:07:03.600	20SF4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,125,955:87:0	
2662	99	226	15:08:06.933	176CH6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,125,957:00:0	
2663	99	226	15:16:31.600	488AL6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,965:29:0	
2664	99	226	16:01:42.266	176CI6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,126,010:00:0	
2665	99	226	16:07:45.600	165CI4A	7SCAN	NORM,90.896,25.2	Check S/P Position	2O0	4	0	5,126,015:90:0	
2666	99	226	16:08:45.600	165CI4B	7VECT		Inert vect update UTC	2O0	4	0	5,126,016:89:0	
2667	99	226	16:09:55.600	20SG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,126,018:12:0	
2668	99	226	16:10:45.600	20SG4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,126,018:87:0	
2669	99	226	16:11:48.933	176CJ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,126,020:00:0	
2670	99	226	16:43:09.600	176CK6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,126,051:00:0	
2671	99	226	16:49:12.933	165CJ4A	7SCAN	NORM,92.052999,2	Check S/P Position	2O0	4	0	5,126,056:90:0	
2672	99	226	16:50:12.933	165CJ4B	7VECT		Inert vect update UTC	2O0	4	0	5,126,057:89:0	
2673	99	226	16:51:22.933	20SH4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,126,059:12:0	
2674	99	226	16:52:12.933	20SH4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,126,059:87:0	
2675	99	226	16:53:16.266	176CL6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,126,061:00:0	
2676	99	226	17:57:58.933	176SD6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,126,125:00:0	
2677	99	226	18:00:06.266	20KA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,126,127:09:0	
2678	99	226	18:07:04.266	20SI4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,126,133:90:0	
2679	99	226	18:07:54.266	20SI4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,126,134:74:0	
2680	99	226	18:10:06.933	176SC6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,126,137:00:0	
2681	99	226	20:30:00.266	41AB99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	2O0	4	0	5,126,275:32:0	
2682	**99**	**226**	**20:31:54.266**	**41AB3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**5,126,277:21:0**	
2683	**99**	**226**	**20:32:04.266**	**41AB3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**5,126,277:36:0**	
2684	**99**	**226**	**20:32:14.266**	**41AB3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**5,126,277:51:0**	
2685	**99**	**226**	**20:32:24.266**	**41AB3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**5,126,277:66:0**	
2686	99	226	21:47:30.266	176SA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,126,352:00:0	
2687	**99**	**226**	**22:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2688	**99**	**226**	**22:00:00.000**	**20A3FF**	**40T2**	**Final Condition**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2689	**99**	**226**	**22:00:00.000**	**20A3FE**	**40T1P**	**Final Condition**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2690	**99**	**226**	**22:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2691	**99**	**226**	**22:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2692	**99**	**226**	**22:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2693	**99**	**226**	**22:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2694	**99**	**226**	**22:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2695	**99**	**226**	**22:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2696	99	226	22:00:00.266		DMS:	: READY	RDY, TRACK 2, REV, TIC 1219.30 +/- 4	2O0	4	0	5,126,364:33:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	99	223	15:22:48.466	465KB6A	6DMSC	RDY,2	DMS Control Tape stop	4R3	4	0	5,121,699:00:0	
55	99	223	15:22:48.466		DMS:	: READY	RDY, TRACK *2, *REV, TIC 1125.72 +/-	4R3	4	0	5,121,699:00:0	
56	99	223	15:29:57.133	41SA99A	**POWER**	PWR MODE change	Change to Calib/Decon Mode	4R3	4	0	5,121,706:06:0	
57	**99**	**223**	**15:30:01.133**	**41SA3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**5,121,706:12:0**	
58	**99**	**223**	**15:30:11.133**	**41SA3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**5,121,706:27:0**	
59	**99**	**223**	**15:30:21.133**	**41SA3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**5,121,706:42:0**	
60	**99**	**223**	**15:30:31.133**	**41SA3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**5,121,706:57:0**	
61	99	223	15:31:04.466	488AA6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	5,121,707:16:0	
62	99	223	15:41:51.800	175ZQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	5,121,717:77:0	
63	99	223	15:41:51.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1125.72 +/-	4R3	4	0	5,121,717:77:0	
64	99	223	15:41:53.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1125.84 +/-	4R3	4	0	5,121,717:79:1	
65	99	223	15:41:58.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1127.08 +/-	4R3	4	0	5,121,717:87:0	
66	99	223	15:41:59.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1127.14 +/-	4R3	4	0	5,121,717:88:8	
67	99	223	15:42:00.466	175ZQ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	5,121,717:90:0	
68	99	223	15:42:01.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 1127.02 +/-	4R3	4	0	5,121,717:90:9	
69	99	223	15:42:01.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1127.02 +/-	4R3	4	0	5,121,717:90:9	
70	99	223	15:47:17.800	175ZQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,121,723:20:0	
71	99	223	15:47:17.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1052.78 +/-	4R3	4	0	5,121,723:20:0	
72	99	223	15:47:19.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1052.72 +/-	4R3	4	0	5,121,723:21:8	
73	99	223	15:50:10.466	41SB99A	**POWER**	PWR MODE change	Change to Data Taking Mode	4R3	4	0	5,121,726:06:0	
74	**99**	**223**	**15:50:14.466**	**41SB3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**5,121,726:12:0**	
75	**99**	**223**	**15:50:24.466**	**41SB3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4R3**	**4**	**0**	**5,121,726:27:0**	
76	**99**	**223**	**15:50:34.466**	**41SB3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**5,121,726:42:0**	
77	**99**	**223**	**15:50:44.466**	**41SB3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4R3**	**4**	**0**	**5,121,726:57:0**	
78	99	223	16:15:23.133	192GA4A	**7CONE**	**9.0,0.0**	Check S/P Position	4R3	4	0	5,121,751:00:0	
79	99	223	16:22:27.800	176GA6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	5,121,758:00:0	
80	99	223	16:24:42.466	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	5,121,760:20:0	
81	99	223	16:24:44.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1052.72 +/-	4R3	4	0	5,121,760:23:0	
82	99	223	16:24:44.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	5,121,760:23:0	
83	99	223	16:24:45.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1052.84 +/-	4R3	4	0	5,121,760:25:1	
84	99	223	16:24:51.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1054.08 +/-	4R3	4	0	5,121,760:33:0	
85	99	223	16:24:52.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1054.14 +/-	4R3	4	0	5,121,760:34:8	
86	99	223	16:24:53.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1054.02 +/-	4R3	4	0	5,121,760:36:9	
87	99	223	16:24:54.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1053.85 +/-	4R3	4	0	5,121,760:38:0	
88	99	223	16:25:05.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,121,760:55:0	
89	99	223	16:25:05.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1051.19 +/-	4R3	4	0	5,121,760:55:0	
90	99	223	16:25:07.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1051.13 +/-	4R3	4	0	5,121,760:56:8	
91	99	223	16:27:31.133	192GA4B	**7CONE**	**9.0,90.0**	Check S/P Position	4R3	4	0	5,121,763:00:0	
92	**99**	**223**	**17:57:34.466**	**22NNHRSPEC01-**		**-----START------**		**4R3**	**4**	**0**	: :	
93	99	223	17:59:29.066	176DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	5,121,853:87:0	
94	**99**	**223**	**18:00:36.466**	**22NNHRSPEC01-**		**-----STOP-------**		**4R3**	**4**	**0**	: :	
95	**99**	**223**	**18:02:37.800**	**22INHRSPEC01-**		**-----START------**		**4R3**	**4**	**0**	: :	
96	**99**	**223**	**18:09:42.466**	**22INHRSPEC01-**		**-----STOP-------**		**4R3**	**4**	**0**	: :	
97	99	223	18:29:59.733	480SA6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	4R3	4	0	5,121,884:12:0	
98	99	223	18:36:39.733	480SA6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	4R3	4	0	5,121,890:66:0	
99	**99**	**223**	**19:16:26.400**	**22NNJUPRTS02-**		**-----START------**		**4R3**	**4**	**0**	: :	
100	**99**	**223**	**19:16:37.066**	**20DC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**5,121,930:22:0**	
101	**99**	**223**	**19:16:38.400**	**20DC5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**5,121,930:24:0**	
102	**99**	**223**	**19:16:40.400**	**20DC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**5,121,930:27:0**	
103	**99**	**223**	**19:16:50.400**	**20DC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**5,121,930:42:0**	
104	**99**	**223**	**19:17:03.733**	**20DC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,121,930:62:0**	
105	**99**	**223**	**19:17:07.066**	**20DC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,121,930:67:0**	
106	**99**	**223**	**19:17:38.400**	**20DC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,121,931:23:0**	
107	**99**	**223**	**19:19:19.733**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,121,932:84:0**	
108	99	223	19:19:19.733	125DC	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,121,932:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	**99**	**223**	**19:19:28.400**	**22JNJUPRTS02***		**-----START------**		**2R0**	**4**	**0**	**: :**	
110	**99**	**223**	**19:19:28.400**	**22NNJUPRTS02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
111	99	223	19:20:20.400	125DC11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	5,121,933:84:0	
112	**99**	**223**	**19:20:20.400**	**125DC4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**5,121,933:84:0**	
113	99	223	19:21:21.066	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,121,934:84:0	
114	**99**	**223**	**19:21:21.066**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,121,934:84:0**	
115	**99**	**223**	**19:21:21.733**	**127DC4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,121,934:85:0**	
116	99	223	19:21:29.733	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,121,935:06:0	
117	99	223	19:22:25.733	165DC4A	**7SCAN**	**NORM,261.238998,**	**Check S/P Position**	2R3	4	0	5,121,935:90:0	
118	**99**	**223**	**19:25:32.400**	**432DC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**5,121,939:06:0**	
119	99	223	19:26:19.733	117DC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,121,939:77:0	
120	99	223	19:26:29.066	117DC105A106A4A	**7STRP**	**-0.022904,0.0,0,**	**Slew =,0.06**	2R3	4	0	5,121,940:00:0	
121	99	223	19:32:53.066	117DC105A106A4B	**7STRP**	**0.028007,-0.0120**	**Slew =12.01**	2R3	4	0	5,121,946:30:0	
122	99	223	19:33:01.066	117DC105A106A4C	**7STRP**	**-0.022904,0.0,0,**	**Slew =,0.06**	2R3	4	0	5,121,946:42:0	
123	99	223	19:39:25.066	117DC105A106A4D	**7STRP**	**0.028007,-0.0120**	**Slew =12.01**	2R3	4	0	5,121,952:72:0	
124	99	223	19:39:33.066	117DC105A106A4E	**7STRP**	**-0.022904,0.0,0,**	**Slew =,0.06**	2R3	4	0	5,121,952:84:0	
125	**99**	**223**	**19:45:44.400**	**432DY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**5,121,959:04:0**	
126	**99**	**223**	**19:45:45.733**	**22JNJUPRTS02***		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
127	99	223	19:45:57.066	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,121,959:23:0	
128	99	223	19:48:43.066	165GB4A	7SCAN	NORM,269.507,-25	Check S/P Position	2R3	4	0	5,121,961:90:0	
129	99	223	19:51:45.733	176GB6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	5,121,965:00:0	
130	99	223	19:52:37.066	117GB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,121,965:77:0	
131	99	223	19:52:46.400	117GB105A106A4A	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,966:00:0	
132	99	223	19:54:19.066	117GB105A106A4B	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,967:48:0	
133	99	223	19:54:30.400	117GB105A106A4C	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,967:65:0	
134	99	223	19:56:03.066	117GB105A106A4D	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,969:22:0	
135	99	223	19:56:14.400	117GB105A106A4E	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,969:39:0	
136	99	223	19:57:47.066	117GB105A106A4F	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,970:87:0	
137	99	223	19:57:58.400	117GB105A106A4G	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,971:13:0	
138	99	223	19:59:31.066	117GB105A106A4H	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,972:61:0	
139	99	223	19:59:42.400	117GB105A106A4I	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,972:78:0	
140	99	223	20:01:15.066	117GB105A106A4J	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,974:35:0	
141	99	223	20:01:26.400	117GB105A106A4K	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,974:52:0	
142	99	223	20:02:59.066	117GB105A106A4L	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,976:09:0	
143	99	223	20:03:10.400	117GB105A106A4M	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,976:26:0	
144	99	223	20:04:43.066	117GB105A106A4N	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,977:74:0	
145	99	223	20:04:54.400	117GB105A106A4O	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,978:00:0	
146	99	223	20:05:39.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1051.13 +/-	2R3	4	0	5,121,978:68:0	
147	99	223	20:05:39.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,121,978:68:0	
148	99	223	20:05:41.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1051.25 +/-	2R3	4	0	5,121,978:70:1	
149	99	223	20:05:46.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1052.49 +/-	2R3	4	0	5,121,978:78:0	
150	99	223	20:05:47.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1052.55 +/-	2R3	4	0	5,121,978:79:8	
151	99	223	20:05:49.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1052.43 +/-	2R3	4	0	5,121,978:81:9	
152	99	223	20:06:07.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1048.03 +/-	2R3	4	0	5,121,979:19:0	
153	99	223	20:06:27.066	117GB105A106A4P	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,979:48:0	
154	99	223	20:06:30.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1042.72 +/-	2R3	4	0	5,121,979:53:0	
155	99	223	20:06:30.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,121,979:53:0	
156	99	223	20:06:31.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1042.66 +/-	2R3	4	0	5,121,979:54:8	
157	99	223	20:06:38.400	117GB105A106A4Q	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,979:65:0	
158	99	223	20:08:11.066	117GB105A106A4R	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,981:22:0	
159	99	223	20:08:22.400	117GB105A106A4S	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,981:39:0	
160	99	223	20:09:55.066	117GB105A106A4T	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,982:87:0	
161	99	223	20:10:06.400	117GB105A106A4U	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,983:13:0	
162	99	223	20:11:39.066	117GB105A106A4V	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,984:61:0	
163	99	223	20:11:50.400	117GB105A106A4W	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,984:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	99	223	20:13:23.066	117GB105A106A4X	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,986	35:0
165	99	223	20:13:34.400	117GB105A106A4Y	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,986	52:0
166	99	223	20:15:07.066	117GB105A106A4Z	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,988	09:0
167	99	223	20:15:18.400	117GB105A106A4AA	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,988	26:0
168	99	223	20:16:51.066	117GB105A106A4AB	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,989	74:0
169	99	223	20:17:02.400	117GB105A106A4AC	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,990	00:0
170	99	223	20:18:35.066	117GB105A106A4AD	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,991	48:0
171	99	223	20:18:46.400	117GB105A106A4AE	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,991	65:0
172	99	223	20:20:03.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1042.66 +/-	2R3	4	0	5,121,992	90:0
173	99	223	20:20:03.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,121,992	90:0
174	99	223	20:20:05.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1042.78 +/-	2R3	4	0	5,121,993	01:1
175	99	223	20:20:10.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1044.02 +/-	2R3	4	0	5,121,993	09:0
176	99	223	20:20:11.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1044.08 +/-	2R3	4	0	5,121,993	10:8
177	99	223	20:20:13.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1043.96 +/-	2R3	4	0	5,121,993	12:9
178	99	223	20:20:19.066	117GB105A106A4AF	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,993	22:0
179	99	223	20:20:30.400	117GB105A106A4AG	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,993	39:0
180	99	223	20:20:31.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1039.57 +/-	2R3	4	0	5,121,993	41:0
181	99	223	20:20:54.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,121,993	75:0
182	99	223	20:20:54.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1034.25 +/-	2R3	4	0	5,121,993	75:0
183	99	223	20:20:55.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1034.19 +/-	2R3	4	0	5,121,993	76:8
184	99	223	20:22:03.066	117GB105A106A4AH	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,994	87:0
185	99	223	20:22:14.400	117GB105A106A4AI	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,995	13:0
186	99	223	20:23:47.066	117GB105A106A4AJ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,996	61:0
187	99	223	20:23:58.400	117GB105A106A4AK	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,996	78:0
188	99	223	20:25:31.066	117GB105A106A4AL	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,121,998	35:0
189	99	223	20:25:42.400	117GB105A106A4AM	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,121,998	52:0
190	99	223	20:27:15.066	117GB105A106A4AN	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,000	09:0
191	99	223	20:27:26.400	117GB105A106A4AO	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,000	26:0
192	99	223	20:28:59.066	117GB105A106A4AP	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,001	74:0
193	99	223	20:29:10.400	117GB105A106A4AQ	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,002	00:0
194	99	223	20:30:43.066	117GB105A106A4AR	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,003	48:0
195	99	223	20:30:54.400	117GB105A106A4AS	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,003	65:0
196	99	223	20:32:27.066	117GB105A106A4AT	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,005	22:0
197	99	223	20:32:38.400	117GB105A106A4AU	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,005	39:0
198	99	223	20:34:11.066	117GB105A106A4AV	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,006	87:0
199	99	223	20:34:22.400	117GB105A106A4AW	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,007	13:0
200	99	223	20:34:28.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1034.19 +/-	2R3	4	0	5,122,007	22:0
201	99	223	20:34:28.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,007	22:0
202	99	223	20:34:29.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1034.31 +/-	2R3	4	0	5,122,007	24:1
203	99	223	20:34:35.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1035.55 +/-	2R3	4	0	5,122,007	32:0
204	99	223	20:34:36.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1035.61 +/-	2R3	4	0	5,122,007	33:8
205	99	223	20:34:37.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1035.49 +/-	2R3	4	0	5,122,007	35:9
206	99	223	20:34:56.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1031.10 +/-	2R3	4	0	5,122,007	64:0
207	99	223	20:35:19.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1025.78 +/-	2R3	4	0	5,122,008	07:0
208	99	223	20:35:19.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,008	07:0
209	99	223	20:35:20.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1025.72 +/-	2R3	4	0	5,122,008	08:8
210	99	223	20:35:55.066	117GB105A106A4AX	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,008	61:0
211	99	223	20:36:06.400	117GB105A106A4AY	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,008	78:0
212	99	223	20:37:39.066	117GB105A106A4AZ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,010	35:0
213	99	223	20:37:50.400	117GB105A106A4BA	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,010	52:0
214	99	223	20:39:23.066	117GB105A106A4BB	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,012	09:0
215	99	223	20:39:34.400	117GB105A106A4BC	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,012	26:0
216	99	223	20:41:07.066	117GB105A106A4BD	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,013	74:0
217	99	223	20:41:18.400	117GB105A106A4BE	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,014	00:0
218	99	223	20:42:51.066	117GB105A106A4BF	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,015	48:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	99	223	20:43:02.400	117GB105A106A4BG	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,015:65:0	
220	99	223	20:44:35.066	117GB105A106A4BH	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,017:22:0	
221	99	223	20:44:46.400	117GB105A106A4BI	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,017:39:0	
222	99	223	20:46:19.066	117GB105A106A4BJ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,018:87:0	
223	99	223	20:46:30.400	117GB105A106A4BK	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,019:13:0	
224	99	223	20:48:03.066	117GB105A106A4BL	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,020:61:0	
225	99	223	20:48:14.400	117GB105A106A4BM	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,020:78:0	
226	99	223	20:48:53.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1025.72 +/-	2R3	4	0	5,122,021:45:0	
227	99	223	20:48:53.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,021:45:0	
228	99	223	20:48:54.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1025.84 +/-	2R3	4	0	5,122,021:47:1	
229	99	223	20:48:59.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1027.08 +/-	2R3	4	0	5,122,021:55:0	
230	99	223	20:49:00.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1027.14 +/-	2R3	4	0	5,122,021:56:8	
231	99	223	20:49:02.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1027.02 +/-	2R3	4	0	5,122,021:58:9	
232	99	223	20:49:21.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1022.63 +/-	2R3	4	0	5,122,021:87:0	
233	99	223	20:49:43.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1017.32 +/-	2R3	4	0	5,122,022:30:0	
234	99	223	20:49:43.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,022:30:0	
235	99	223	20:49:44.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1017.26 +/-	2R3	4	0	5,122,022:31:8	
236	99	223	20:49:47.066	117GB105A106A4BN	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,022:35:0	
237	99	223	20:49:58.400	117GB105A106A4BO	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,022:52:0	
238	99	223	20:51:31.066	117GB105A106A4BP	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,024:09:0	
239	99	223	20:51:42.400	117GB105A106A4BQ	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,024:26:0	
240	99	223	20:53:15.066	117GB105A106A4BR	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,025:74:0	
241	99	223	20:53:26.400	117GB105A106A4BS	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,026:00:0	
242	99	223	20:54:59.066	117GB105A106A4BT	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,027:48:0	
243	99	223	20:55:10.400	117GB105A106A4BU	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,027:65:0	
244	99	223	20:56:43.066	117GB105A106A4BV	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,029:22:0	
245	99	223	20:56:54.400	117GB105A106A4BW	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,029:39:0	
246	99	223	20:58:27.066	117GB105A106A4BX	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,030:87:0	
247	99	223	20:58:38.400	117GB105A106A4BY	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,031:13:0	
248	99	223	21:00:11.066	117GB105A106A4BZ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,032:61:0	
249	99	223	21:00:22.400	117GB105A106A4CA	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,032:78:0	
250	99	223	21:01:55.066	117GB105A106A4CB	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,034:35:0	
251	99	223	21:02:06.400	117GB105A106A4CC	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,034:52:0	
252	99	223	21:03:17.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,035:68:0	
253	99	223	21:03:17.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1017.26 +/-	2R3	4	0	5,122,035:68:0	
254	99	223	21:03:19.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1017.38 +/-	2R3	4	0	5,122,035:70:1	
255	99	223	21:03:24.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1018.61 +/-	2R3	4	0	5,122,035:78:0	
256	99	223	21:03:25.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1018.67 +/-	2R3	4	0	5,122,035:79:8	
257	99	223	21:03:27.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1018.55 +/-	2R3	4	0	5,122,035:81:9	
258	99	223	21:03:39.066	117GB105A106A4CD	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,036:09:0	
259	99	223	21:03:45.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1014.16 +/-	2R3	4	0	5,122,036:19:0	
260	99	223	21:03:50.400	117GB105A106A4CE	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,036:26:0	
261	99	223	21:04:08.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1008.85 +/-	2R3	4	0	5,122,036:53:0	
262	99	223	21:04:08.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,036:53:0	
263	99	223	21:04:09.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1008.79 +/-	2R3	4	0	5,122,036:54:8	
264	99	223	21:05:23.066	117GB105A106A4CF	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,037:74:0	
265	99	223	21:05:34.400	117GB105A106A4CG	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,038:00:0	
266	99	223	21:07:07.066	117GB105A106A4CH	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,039:48:0	
267	99	223	21:07:18.400	117GB105A106A4CI	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,039:65:0	
268	99	223	21:08:51.066	117GB105A106A4CJ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,041:22:0	
269	99	223	21:09:02.400	117GB105A106A4CK	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,041:39:0	
270	99	223	21:10:35.066	117GB105A106A4CL	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,042:87:0	
271	99	223	21:10:46.400	117GB105A106A4CM	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,043:13:0	
272	99	223	21:12:19.066	117GB105A106A4CN	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,044:61:0	
273	99	223	21:12:30.400	117GB105A106A4CO	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,044:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	99	223	21:14:03.066	117GB105A106A4CP	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,046	35:0
275	99	223	21:14:14.400	117GB105A106A4CQ	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,046	52:0
276	99	223	21:15:47.066	117GB105A106A4CR	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,048	09:0
277	99	223	21:15:58.400	117GB105A106A4CS	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,048	26:0
278	99	223	21:17:31.066	117GB105A106A4CT	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,049	74:0
279	99	223	21:17:42.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1008.79 +/-	2R3	4	0	5,122,050	00:0
280	99	223	21:17:42.400	117GB105A106A4CU	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,050	00:0
281	99	223	21:17:42.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,050	00:0
282	99	223	21:17:43.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1008.91 +/-	2R3	4	0	5,122,050	02:1
283	99	223	21:17:49.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1010.14 +/-	2R3	4	0	5,122,050	10:0
284	99	223	21:17:50.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1010.20 +/-	2R3	4	0	5,122,050	11:8
285	99	223	21:17:51.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1010.08 +/-	2R3	4	0	5,122,050	13:9
286	99	223	21:18:10.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1005.69 +/-	2R3	4	0	5,122,050	42:0
287	99	223	21:18:33.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,050	76:0
288	99	223	21:18:33.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1000.38 +/-	2R3	4	0	5,122,050	76:0
289	99	223	21:18:34.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1000.32 +/-	2R3	4	0	5,122,050	77:8
290	99	223	21:19:15.066	117GB105A106A4CV	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,051	48:0
291	99	223	21:19:26.400	117GB105A106A4CW	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,051	65:0
292	99	223	21:20:59.066	117GB105A106A4CX	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,053	22:0
293	99	223	21:21:10.400	117GB105A106A4CY	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,053	39:0
294	99	223	21:22:43.066	117GB105A106A4CZ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,054	87:0
295	99	223	21:22:54.400	117GB105A106A4DA	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,055	13:0
296	99	223	21:24:27.066	117GB105A106A4DB	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,056	61:0
297	99	223	21:24:38.400	117GB105A106A4DC	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,056	78:0
298	99	223	21:26:11.066	117GB105A106A4DD	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,058	35:0
299	99	223	21:26:22.400	117GB105A106A4DE	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,058	52:0
300	99	223	21:27:55.066	117GB105A106A4DF	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,060	09:0
301	99	223	21:28:06.400	117GB105A106A4DG	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,060	26:0
302	99	223	21:29:39.066	117GB105A106A4DH	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,061	74:0
303	99	223	21:29:50.400	117GB105A106A4DI	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,062	00:0
304	99	223	21:31:23.066	117GB105A106A4DJ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,063	48:0
305	99	223	21:31:34.400	117GB105A106A4DK	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,063	65:0
306	99	223	21:32:06.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,064	22:0
307	99	223	21:32:06.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1000.32 +/-	2R3	4	0	5,122,064	22:0
308	99	223	21:32:07.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1000.44 +/-	2R3	4	0	5,122,064	24:1
309	99	223	21:32:13.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1001.67 +/-	2R3	4	0	5,122,064	32:0
310	99	223	21:32:14.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1001.73 +/-	2R3	4	0	5,122,064	33:8
311	99	223	21:32:15.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1001.61 +/-	2R3	4	0	5,122,064	35:9
312	99	223	21:32:34.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 997.22 +/-	2R3	4	0	5,122,064	64:0
313	99	223	21:32:57.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 991.91 +/-	2R3	4	0	5,122,065	07:0
314	99	223	21:32:57.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,065	07:0
315	99	223	21:32:58.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 991.85 +/-	2R3	4	0	5,122,065	08:8
316	99	223	21:33:07.066	117GB105A106A4DL	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,065	22:0
317	99	223	21:33:18.400	117GB105A106A4DM	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,065	39:0
318	99	223	21:34:51.066	117GB105A106A4DN	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,066	87:0
319	99	223	21:35:02.400	117GB105A106A4DO	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,067	13:0
320	99	223	21:35:58.400	488AB6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,068	06:0
321	99	223	21:36:35.066	117GB105A106A4DP	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,068	61:0
322	99	223	21:36:46.400	117GB105A106A4DQ	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,068	78:0
323	99	223	21:38:19.066	117GB105A106A4DR	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,070	35:0
324	99	223	21:38:30.400	117GB105A106A4DS	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,070	52:0
325	99	223	21:40:03.066	117GB105A106A4DT	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,072	09:0
326	99	223	21:40:14.400	117GB105A106A4DU	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,072	26:0
327	99	223	21:41:47.066	117GB105A106A4DV	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,073	74:0
328	99	223	21:41:58.400	117GB105A106A4DW	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,074	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	99	223	21:43:31.066	117GB105A106A4DX	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,075	48:0
330	99	223	21:43:42.400	117GB105A106A4DY	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,075	65:0
331	99	223	21:45:15.066	117GB105A106A4DZ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,077	22:0
332	99	223	21:45:26.400	117GB105A106A4EA	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,077	39:0
333	99	223	21:46:31.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 991.85 +/-	2R3	4	0	5,122,078	45:0
334	99	223	21:46:31.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,078	45:0
335	99	223	21:46:32.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 991.97 +/-	2R3	4	0	5,122,078	47:1
336	99	223	21:46:37.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 993.20 +/-	2R3	4	0	5,122,078	55:0
337	99	223	21:46:38.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 993.26 +/-	2R3	4	0	5,122,078	56:8
338	99	223	21:46:40.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 993.14 +/-	2R3	4	0	5,122,078	58:9
339	99	223	21:46:59.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 988.75 +/-	2R3	4	0	5,122,078	87:0
340	99	223	21:46:59.066	117GB105A106A4EB	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,078	87:0
341	99	223	21:47:10.400	117GB105A106A4EC	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,079	13:0
342	99	223	21:47:21.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 983.44 +/-	2R3	4	0	5,122,079	30:0
343	99	223	21:47:21.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,079	30:0
344	99	223	21:47:22.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 983.38 +/-	2R3	4	0	5,122,079	31:8
345	99	223	21:48:43.066	117GB105A106A4ED	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,080	61:0
346	99	223	21:48:54.400	117GB105A106A4EE	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,080	78:0
347	99	223	21:50:27.066	117GB105A106A4EF	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,082	35:0
348	99	223	21:50:38.400	117GB105A106A4EG	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,082	52:0
349	99	223	21:52:11.066	117GB105A106A4EH	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,084	09:0
350	99	223	21:52:22.400	117GB105A106A4EI	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,084	26:0
351	99	223	21:53:55.066	117GB105A106A4EJ	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,085	74:0
352	99	223	21:54:06.400	117GB105A106A4EK	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,086	00:0
353	99	223	21:55:39.066	117GB105A106A4EL	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,087	48:0
354	99	223	21:55:50.400	117GB105A106A4EM	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,087	65:0
355	99	223	21:57:23.066	117GB105A106A4EN	7STRP	0.0014,0.029072,	Slew =12.01	2R3	4	0	5,122,089	22:0
356	99	223	21:57:34.400	117GB105A106A4EO	7STRP	0.0,-0.029012,0,	Slew =,0.39	2R3	4	0	5,122,089	39:0
357	99	223	21:59:07.066	117GB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,122,090	87:0
358	99	223	21:59:39.733	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,122,091	45:0
359	99	223	21:59:41.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,091	48:0
360	99	223	21:59:41.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 983.38 +/-	2R3	4	0	5,122,091	48:0
361	99	223	21:59:43.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 983.50 +/-	2R3	4	0	5,122,091	50:1
362	99	223	21:59:48.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 984.74 +/-	2R3	4	0	5,122,091	58:0
363	99	223	21:59:49.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 984.80 +/-	2R3	4	0	5,122,091	59:8
364	99	223	21:59:51.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 984.68 +/-	2R3	4	0	5,122,091	61:9
365	99	223	21:59:51.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 984.50 +/-	2R3	4	0	5,122,091	63:0
366	99	223	22:00:12.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 979.66 +/-	2R3	4	0	5,122,092	03:0
367	99	223	22:00:12.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,092	03:0
368	99	223	22:00:13.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 979.60 +/-	2R3	4	0	5,122,092	04:8
369	99	223	22:39:58.400	488AB6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	5,122,131	33:0
370	99	223	22:40:36.400	165GC4A	7SCAN	NORM,275.556999,	Check S/P Position	2R3	4	0	5,122,131	90:0
371	99	223	22:43:39.066	176GC6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	5,122,135	00:0
372	99	223	22:44:30.400	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,122,135	77:0
373	99	223	22:44:39.733	117GC105A106A4A	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,136	00:0
374	99	223	22:45:59.733	117GC105A106A4B	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,137	29:0
375	99	223	22:46:11.066	117GC105A106A4C	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,137	46:0
376	99	223	22:47:31.066	117GC105A106A4D	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,138	75:0
377	99	223	22:47:42.400	117GC105A106A4E	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,139	01:0
378	99	223	22:49:02.400	117GC105A106A4F	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,140	30:0
379	99	223	22:49:13.733	117GC105A106A4G	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,140	47:0
380	99	223	22:50:33.733	117GC105A106A4H	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,141	76:0
381	99	223	22:50:45.066	117GC105A106A4I	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,142	02:0
382	99	223	22:52:05.066	117GC105A106A4J	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,143	31:0
383	99	223	22:52:16.400	117GC105A106A4K	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,143	48:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	99	223	22:53:36.400	117GC105A106A4L	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,144	77:0
385	99	223	22:53:47.733	117GC105A106A4M	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,145	03:0
386	99	223	22:55:07.733	117GC105A106A4N	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,146	32:0
387	99	223	22:55:19.066	117GC105A106A4O	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,146	49:0
388	99	223	22:56:39.066	117GC105A106A4P	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,147	78:0
389	99	223	22:56:50.400	117GC105A106A4Q	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,148	04:0
390	99	223	22:57:33.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,148	68:0
391	99	223	22:57:33.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 979.60 +/-	2R3	4	0	5,122,148	68:0
392	99	223	22:57:34.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 979.72 +/-	2R3	4	0	5,122,148	70:1
393	99	223	22:57:39.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 980.95 +/-	2R3	4	0	5,122,148	78:0
394	99	223	22:57:40.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 981.01 +/-	2R3	4	0	5,122,148	79:8
395	99	223	22:57:42.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 980.89 +/-	2R3	4	0	5,122,148	81:9
396	99	223	22:58:01.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 976.50 +/-	2R3	4	0	5,122,149	19:0
397	99	223	22:58:10.400	117GC105A106A4R	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,149	33:0
398	99	223	22:58:21.733	117GC105A106A4S	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,149	50:0
399	99	223	22:58:23.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 971.19 +/-	2R3	4	0	5,122,149	53:0
400	99	223	22:58:23.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,149	53:0
401	99	223	22:58:24.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 971.13 +/-	2R3	4	0	5,122,149	54:8
402	99	223	22:59:41.733	117GC105A106A4T	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,150	79:0
403	99	223	22:59:53.066	117GC105A106A4U	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,151	05:0
404	99	223	22:59:59.733	481UA4A	7VECT		Inert vect update UTC	2R3	4	0	5,122,151	15:0
405	99	223	23:01:13.066	117GC105A106A4V	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,152	34:0
406	99	223	23:01:24.400	117GC105A106A4W	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,152	51:0
407	99	223	23:02:44.400	117GC105A106A4X	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,153	80:0
408	99	223	23:02:55.733	117GC105A106A4Y	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,154	06:0
409	99	223	23:04:15.733	117GC105A106A4Z	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,155	35:0
410	99	223	23:04:27.066	117GC105A106A4AA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,155	52:0
411	99	223	23:05:47.066	117GC105A106A4AB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,156	81:0
412	99	223	23:05:58.400	117GC105A106A4AC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,157	07:0
413	99	223	23:07:18.400	117GC105A106A4AD	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,158	36:0
414	99	223	23:07:29.733	117GC105A106A4AE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,158	53:0
415	99	223	23:08:49.733	117GC105A106A4AF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,159	82:0
416	99	223	23:09:01.066	117GC105A106A4AG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,160	08:0
417	99	223	23:10:21.066	117GC105A106A4AH	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,161	37:0
418	99	223	23:10:32.400	117GC105A106A4AI	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,161	54:0
419	99	223	23:11:52.400	117GC105A106A4AJ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,162	83:0
420	99	223	23:11:57.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 971.13 +/-	2R3	4	0	5,122,162	90:0
421	99	223	23:11:57.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,162	90:0
422	99	223	23:11:58.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 971.25 +/-	2R3	4	0	5,122,163	01:1
423	99	223	23:12:03.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 972.49 +/-	2R3	4	0	5,122,163	09:0
424	99	223	23:12:03.733	117GC105A106A4AK	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,163	09:0
425	99	223	23:12:04.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 972.55 +/-	2R3	4	0	5,122,163	10:8
426	99	223	23:12:06.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 972.43 +/-	2R3	4	0	5,122,163	12:9
427	99	223	23:12:25.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 968.03 +/-	2R3	4	0	5,122,163	41:0
428	99	223	23:12:47.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 962.72 +/-	2R3	4	0	5,122,163	75:0
429	99	223	23:12:47.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,163	75:0
430	99	223	23:12:48.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 962.66 +/-	2R3	4	0	5,122,163	76:8
431	99	223	23:13:23.733	117GC105A106A4AL	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,164	38:0
432	99	223	23:13:35.066	117GC105A106A4AM	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,164	55:0
433	99	223	23:14:55.066	117GC105A106A4AN	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,165	84:0
434	99	223	23:15:06.400	117GC105A106A4AO	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,166	10:0
435	99	223	23:16:26.400	117GC105A106A4AP	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,167	39:0
436	99	223	23:16:37.733	117GC105A106A4AQ	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,167	56:0
437	99	223	23:17:57.733	117GC105A106A4AR	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,168	85:0
438	99	223	23:18:09.066	117GC105A106A4AS	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,169	11:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	99	223	23:19:29.066	117GC105A106A4AT	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,170	40:0
440	99	223	23:19:40.400	117GC105A106A4AU	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,170	57:0
441	99	223	23:21:00.400	117GC105A106A4AV	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,171	86:0
442	99	223	23:21:11.733	117GC105A106A4AW	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,172	12:0
443	99	223	23:22:31.733	117GC105A106A4AX	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,173	41:0
444	99	223	23:22:43.066	117GC105A106A4AY	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,173	58:0
445	99	223	23:24:03.066	117GC105A106A4AZ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,174	87:0
446	99	223	23:24:14.400	117GC105A106A4BA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,175	13:0
447	99	223	23:25:34.400	117GC105A106A4BB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,176	42:0
448	99	223	23:25:45.733	117GC105A106A4BC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,176	59:0
449	99	223	23:26:21.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,177	22:0
450	99	223	23:26:21.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 962.66 +/-	2R3	4	0	5,122,177	22:0
451	99	223	23:26:23.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 962.78 +/-	2R3	4	0	5,122,177	24:1
452	99	223	23:26:28.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 964.02 +/-	2R3	4	0	5,122,177	32:0
453	99	223	23:26:29.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 964.08 +/-	2R3	4	0	5,122,177	33:8
454	99	223	23:26:31.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 963.96 +/-	2R3	4	0	5,122,177	35:9
455	99	223	23:26:49.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 959.57 +/-	2R3	4	0	5,122,177	64:0
456	99	223	23:26:54.400	488AB6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,177	71:0
457	99	223	23:27:05.733	117GC105A106A4BD	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,177	88:0
458	99	223	23:27:12.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,178	07:0
459	99	223	23:27:12.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 954.25 +/-	2R3	4	0	5,122,178	07:0
460	99	223	23:27:13.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 954.19 +/-	2R3	4	0	5,122,178	08:8
461	99	223	23:27:17.066	117GC105A106A4BE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,178	14:0
462	99	223	23:28:37.066	117GC105A106A4BF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,179	43:0
463	99	223	23:28:48.400	117GC105A106A4BG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,179	60:0
464	99	223	23:29:59.733	480SB6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	2R3	4	0	5,122,180	76:0
465	99	223	23:30:08.400	117GC105A106A4BH	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,180	89:0
466	99	223	23:30:19.733	117GC105A106A4BI	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,181	15:0
467	99	223	23:31:39.733	117GC105A106A4BJ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,182	44:0
468	99	223	23:31:51.066	117GC105A106A4BK	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,182	61:0
469	99	223	23:33:11.066	117GC105A106A4BL	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,183	90:0
470	99	223	23:33:22.400	117GC105A106A4BM	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,184	16:0
471	99	223	23:34:42.400	117GC105A106A4BN	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,185	45:0
472	99	223	23:34:53.733	117GC105A106A4BO	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,185	62:0
473	99	223	23:36:13.733	117GC105A106A4BP	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,187	00:0
474	99	223	23:36:25.066	117GC105A106A4BQ	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,187	17:0
475	99	223	23:36:39.733	480SB6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	2R3	4	0	5,122,187	39:0
476	99	223	23:37:45.066	117GC105A106A4BR	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,188	46:0
477	99	223	23:37:56.400	117GC105A106A4BS	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,188	63:0
478	99	223	23:39:16.400	117GC105A106A4BT	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,190	01:0
479	99	223	23:39:27.733	117GC105A106A4BU	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,190	18:0
480	99	223	23:40:46.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,191	45:0
481	99	223	23:40:46.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 954.19 +/-	2R3	4	0	5,122,191	45:0
482	99	223	23:40:47.733	117GC105A106A4BV	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,191	47:0
483	99	223	23:40:47.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 954.31 +/-	2R3	4	0	5,122,191	47:1
484	99	223	23:40:53.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 955.55 +/-	2R3	4	0	5,122,191	55:0
485	99	223	23:40:54.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 955.61 +/-	2R3	4	0	5,122,191	56:8
486	99	223	23:40:55.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 955.49 +/-	2R3	4	0	5,122,191	58:9
487	99	223	23:40:59.066	117GC105A106A4BW	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,191	64:0
488	99	223	23:41:14.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 951.10 +/-	2R3	4	0	5,122,191	87:0
489	99	223	23:41:37.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 945.78 +/-	2R3	4	0	5,122,192	30:0
490	99	223	23:41:37.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,192	30:0
491	99	223	23:41:38.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 945.72 +/-	2R3	4	0	5,122,192	31:8
492	99	223	23:42:19.066	117GC105A106A4BX	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,193	02:0
493	99	223	23:42:30.400	117GC105A106A4BY	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,193	19:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	99	223	23:43:50.400	117GC105A106A4BZ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,194:48:0	
495	99	223	23:44:01.733	117GC105A106A4CA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,194:65:0	
496	99	223	23:45:21.733	117GC105A106A4CB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,196:03:0	
497	99	223	23:45:33.066	117GC105A106A4CC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,196:20:0	
498	99	223	23:46:53.066	117GC105A106A4CD	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,197:49:0	
499	99	223	23:47:04.400	117GC105A106A4CE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,197:66:0	
500	99	223	23:48:24.400	117GC105A106A4CF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,199:04:0	
501	99	223	23:48:35.733	117GC105A106A4CG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,199:21:0	
502	99	223	23:49:55.733	117GC105A106A4CH	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,200:50:0	
503	99	223	23:50:07.066	117GC105A106A4CI	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,200:67:0	
504	99	223	23:51:27.066	117GC105A106A4CJ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,202:05:0	
505	99	223	23:51:38.400	117GC105A106A4CK	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,202:22:0	
506	99	223	23:52:58.400	117GC105A106A4CL	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,203:51:0	
507	99	223	23:53:09.733	117GC105A106A4CM	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,203:68:0	
508	99	223	23:54:29.733	117GC105A106A4CN	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,205:06:0	
509	99	223	23:54:41.066	117GC105A106A4CO	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,205:23:0	
510	99	223	23:55:11.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,205:68:0	
511	99	223	23:55:11.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 945.72 +/-	2R3	4	0	5,122,205:68:0	
512	99	223	23:55:12.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 945.84 +/-	2R3	4	0	5,122,205:70:1	
513	99	223	23:55:17.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 947.08 +/-	2R3	4	0	5,122,205:78:0	
514	99	223	23:55:18.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 947.14 +/-	2R3	4	0	5,122,205:79:8	
515	99	223	23:55:20.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 947.02 +/-	2R3	4	0	5,122,205:81:9	
516	99	223	23:55:39.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 942.63 +/-	2R3	4	0	5,122,206:19:0	
517	99	223	23:56:01.066	117GC105A106A4CP	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,206:52:0	
518	99	223	23:56:01.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 937.32 +/-	2R3	4	0	5,122,206:53:0	
519	99	223	23:56:01.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,206:53:0	
520	99	223	23:56:02.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 937.26 +/-	2R3	4	0	5,122,206:54:8	
521	99	223	23:56:12.400	117GC105A106A4CQ	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,206:69:0	
522	99	223	23:57:32.400	117GC105A106A4CR	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,208:07:0	
523	99	223	23:57:43.733	117GC105A106A4CS	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,208:24:0	
524	99	223	23:59:03.733	117GC105A106A4CT	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,209:53:0	
525	99	223	23:59:15.066	117GC105A106A4CU	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,209:70:0	
526	99	224	00:00:35.066	117GC105A106A4CV	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,211:08:0	
527	99	224	00:00:46.400	117GC105A106A4CW	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,211:25:0	
528	99	224	00:02:06.400	117GC105A106A4CX	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,212:54:0	
529	99	224	00:02:17.733	117GC105A106A4CY	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,212:71:0	
530	99	224	00:03:37.733	117GC105A106A4CZ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,214:09:0	
531	99	224	00:03:49.066	117GC105A106A4DA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,214:26:0	
532	99	224	00:05:09.066	117GC105A106A4DB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,215:55:0	
533	99	224	00:05:20.400	117GC105A106A4DC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,215:72:0	
534	99	224	00:06:40.400	117GC105A106A4DD	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,217:10:0	
535	99	224	00:06:51.733	117GC105A106A4DE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,217:27:0	
536	99	224	00:08:11.733	117GC105A106A4DF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,218:56:0	
537	99	224	00:08:23.066	117GC105A106A4DG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,218:73:0	
538	99	224	00:09:35.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,220:00:0	
539	99	224	00:09:35.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 937.26 +/-	2R3	4	0	5,122,220:00:0	
540	99	224	00:09:37.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 937.38 +/-	2R3	4	0	5,122,220:02:1	
541	99	224	00:09:42.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 938.61 +/-	2R3	4	0	5,122,220:10:0	
542	99	224	00:09:43.066	117GC105A106A4DH	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,220:11:0	
543	99	224	00:09:43.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 938.67 +/-	2R3	4	0	5,122,220:11:8	
544	99	224	00:09:45.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 938.55 +/-	2R3	4	0	5,122,220:13:9	
545	99	224	00:09:54.400	117GC105A106A4DI	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,220:28:0	
546	99	224	00:10:03.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 934.16 +/-	2R3	4	0	5,122,220:42:0	
547	99	224	00:10:26.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 928.85 +/-	2R3	4	0	5,122,220:76:0	
548	99	224	00:10:26.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,220:76:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	99	224	00:10:27.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 928.79 +/-	2R3	4	0	5,122,220	77:8
550	99	224	00:11:14.400	117GC105A106A4DJ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,221	57:0
551	99	224	00:11:25.733	117GC105A106A4DK	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,221	74:0
552	99	224	00:12:45.733	117GC105A106A4DL	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,223	12:0
553	99	224	00:12:57.066	117GC105A106A4DM	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,223	29:0
554	99	224	00:14:17.066	117GC105A106A4DN	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,224	58:0
555	99	224	00:14:28.400	117GC105A106A4DO	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,224	75:0
556	99	224	00:15:48.400	117GC105A106A4DP	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,226	13:0
557	99	224	00:15:59.733	117GC105A106A4DQ	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,226	30:0
558	99	224	00:17:19.733	117GC105A106A4DR	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,227	59:0
559	99	224	00:17:31.066	117GC105A106A4DS	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,227	76:0
560	99	224	00:18:51.066	117GC105A106A4DT	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,229	14:0
561	99	224	00:19:02.400	117GC105A106A4DU	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,229	31:0
562	99	224	00:20:22.400	117GC105A106A4DV	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,230	60:0
563	99	224	00:20:33.733	117GC105A106A4DW	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,230	77:0
564	99	224	00:21:53.733	117GC105A106A4DX	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,232	15:0
565	99	224	00:22:05.066	117GC105A106A4DY	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,232	32:0
566	99	224	00:23:25.066	117GC105A106A4DZ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,233	61:0
567	99	224	00:23:36.400	117GC105A106A4EA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,233	78:0
568	99	224	00:23:59.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,234	22:0
569	99	224	00:23:59.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 928.79 +/-	2R3	4	0	5,122,234	22:0
570	99	224	00:24:01.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 928.91 +/-	2R3	4	0	5,122,234	24:1
571	99	224	00:24:06.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 930.14 +/-	2R3	4	0	5,122,234	32:0
572	99	224	00:24:07.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 930.20 +/-	2R3	4	0	5,122,234	33:8
573	99	224	00:24:09.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 930.08 +/-	2R3	4	0	5,122,234	35:9
574	99	224	00:24:27.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 925.69 +/-	2R3	4	0	5,122,234	64:0
575	99	224	00:24:50.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 920.38 +/-	2R3	4	0	5,122,235	07:0
576	99	224	00:24:50.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,235	07:0
577	99	224	00:24:51.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 920.32 +/-	2R3	4	0	5,122,235	08:8
578	99	224	00:24:56.400	117GC105A106A4EB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,235	16:0
579	99	224	00:25:07.733	117GC105A106A4EC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,235	33:0
580	99	224	00:26:27.733	117GC105A106A4ED	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,236	62:0
581	99	224	00:26:39.066	117GC105A106A4EE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,236	79:0
582	99	224	00:27:59.066	117GC105A106A4EF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,238	17:0
583	99	224	00:28:10.400	117GC105A106A4EG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,238	34:0
584	99	224	00:29:30.400	117GC105A106A4EH	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,239	63:0
585	99	224	00:29:41.733	117GC105A106A4EI	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,239	80:0
586	99	224	00:31:01.733	117GC105A106A4EJ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,241	18:0
587	99	224	00:31:13.066	117GC105A106A4EK	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,241	35:0
588	99	224	00:32:33.066	117GC105A106A4EL	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,242	64:0
589	99	224	00:32:44.400	117GC105A106A4EM	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,242	81:0
590	99	224	00:34:04.400	117GC105A106A4EN	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,244	19:0
591	99	224	00:34:15.733	117GC105A106A4EO	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,244	36:0
592	99	224	00:35:35.733	117GC105A106A4EP	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,245	65:0
593	99	224	00:35:47.066	117GC105A106A4EQ	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,245	82:0
594	99	224	00:37:07.066	117GC105A106A4ER	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,247	20:0
595	99	224	00:37:18.400	117GC105A106A4ES	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,247	37:0
596	99	224	00:38:24.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,248	45:0
597	99	224	00:38:24.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 920.32 +/-	2R3	4	0	5,122,248	45:0
598	99	224	00:38:25.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 920.44 +/-	2R3	4	0	5,122,248	47:1
599	99	224	00:38:31.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 921.67 +/-	2R3	4	0	5,122,248	55:0
600	99	224	00:38:32.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 921.73 +/-	2R3	4	0	5,122,248	56:8
601	99	224	00:38:33.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 921.61 +/-	2R3	4	0	5,122,248	58:9
602	99	224	00:38:38.400	117GC105A106A4ET	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,248	66:0
603	99	224	00:38:49.733	117GC105A106A4EU	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,248	83:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
604	99	224	00:38:52.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 917.22 +/-	2R3	4	0	5,122,248:87:0
605	99	224	00:39:15.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,249:30:0
606	99	224	00:39:15.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 911.91 +/-	2R3	4	0	5,122,249:30:0
607	99	224	00:39:16.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 911.85 +/-	2R3	4	0	5,122,249:31:8
608	99	224	00:40:09.733	117GC105A106A4EV	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,250:21:0
609	99	224	00:40:21.066	117GC105A106A4EW	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,250:38:0
610	99	224	00:41:41.066	117GC105A106A4EX	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,251:67:0
611	99	224	00:41:52.400	117GC105A106A4EY	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,251:84:0
612	99	224	00:43:12.400	117GC105A106A4EZ	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,253:22:0
613	99	224	00:43:23.733	117GC105A106A4FA	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,253:39:0
614	99	224	00:44:43.733	117GC105A106A4FB	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,254:68:0
615	99	224	00:44:55.066	117GC105A106A4FC	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,254:85:0
616	99	224	00:46:15.066	117GC105A106A4FD	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,256:23:0
617	99	224	00:46:26.400	117GC105A106A4FE	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,256:40:0
618	**99**	**224**	**00:47:04.400**	**22NNHOTMAP01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
619	99	224	00:47:46.400	117GC105A106A4FF	7STRP	0.0015,0.025127,	Slew =12.01	2R3	4	0	5,122,257:69:0
620	99	224	00:47:57.733	117GC105A106A4FG	7STRP	0.0,-0.025007,0,	Slew =,0.37	2R3	4	0	5,122,257:86:0
621	**99**	**224**	**00:48:19.066**	**20DD5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,122,258:27:0**
622	**99**	**224**	**00:48:20.400**	**20DD5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,122,258:29:0**
623	**99**	**224**	**00:48:21.733**	**20DD6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,122,258:31:0**
624	**99**	**224**	**00:48:31.733**	**20DD6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,122,258:46:0**
625	**99**	**224**	**00:48:41.733**	**20DD5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,122,258:61:0**
626	**99**	**224**	**00:49:01.733**	**20DD5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,122,259:00:0**
627	**99**	**224**	**00:49:17.066**	**20DD4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,122,259:23:0**
628	99	224	00:49:17.733	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R0	4	0	5,122,259:24:0
629	**99**	**224**	**00:50:06.400**	**22NNHOTMAP01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
630	99	224	00:51:33.066	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R0	4	0	5,122,261:45:0
631	99	224	00:51:35.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 911.85 +/-	2R0	4	0	5,122,261:48:0
632	99	224	00:51:35.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	5,122,261:48:0
633	99	224	00:51:36.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 911.97 +/-	2R0	4	0	5,122,261:50:1
634	99	224	00:51:41.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 913.20 +/-	2R0	4	0	5,122,261:58:0
635	99	224	00:51:42.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 913.26 +/-	2R0	4	0	5,122,261:59:8
636	99	224	00:51:44.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 913.14 +/-	2R0	4	0	5,122,261:61:9
637	99	224	00:51:45.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 912.97 +/-	2R0	4	0	5,122,261:63:0
638	**99**	**224**	**00:51:59.066**	**125DD4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,122,261:84:0**
639	99	224	00:51:59.066	125DD	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,122,261:84:0
640	99	224	00:51:59.066	125DD11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	5,122,261:84:0
641	99	224	00:52:03.066	165DD4A	7SCAN	NORM,282.264999,	Check S/P Position	2R0	4	0	5,122,261:90:0
642	99	224	00:52:05.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	5,122,262:03:0
643	99	224	00:52:05.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 908.13 +/-	2R0	4	0	5,122,262:03:0
644	99	224	00:52:06.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 908.07 +/-	2R0	4	0	5,122,262:04:8
645	**99**	**224**	**00:52:07.733**	**22JNHOTMAP01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
646	99	224	00:54:00.400	127DD	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,122,263:84:0
647	**99**	**224**	**00:54:00.400**	**127DD4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,122,263:84:0**
648	**99**	**224**	**00:54:01.066**	**127DD4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,122,263:85:0**
649	99	224	00:54:09.066	127DD11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,122,264:06:0
650	99	224	00:55:57.066	117DD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,122,265:77:0
651	99	224	00:56:06.400	117DD105A106A4A	**7STRP**	**-0.017302,0.0,0,**	**Slew =,0.02**	2R3	4	0	5,122,266:00:0
652	99	224	01:10:38.400	117DD105A106A4B	**7STRP**	**0.038018,-0.006,**	**Slew =12.01**	2R3	4	0	5,122,280:34:0
653	99	224	01:10:51.733	117DD105A106A4C	**7STRP**	**-0.017302,0.0,0,**	**Slew =,0.02**	2R3	4	0	5,122,280:54:0
654	99	224	01:11:04.400	175DD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,280:73:0
655	99	224	01:11:04.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 908.07 +/-	2R3	4	0	5,122,280:73:0
656	99	224	01:11:05.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 908.19 +/-	2R3	4	0	5,122,280:75:1
657	99	224	01:11:11.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 909.42 +/-	2R3	4	0	5,122,280:83:0
658	99	224	01:11:12.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 909.48 +/-	2R3	4	0	5,122,280:84:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	99	224	01:11:13.066	175DD176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	5,122,280:86:0	
660	99	224	01:11:13.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 909.36 +/-	2R3	4	0	5,122,280:86:9	
661	99	224	01:11:13.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 909.36 +/-	2R3	4	0	5,122,280:86:9	
662	**99**	**224**	**01:11:20.400**	**22JNHOTMAP01-**	**NIMPBK**	**301EG**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**	
663	**99**	**224**	**01:11:20.400**	**22JNHOTMAP01-**	**NIMPBK**	**301DD**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**	
664	**99**	**224**	**01:21:10.400**	**22JNHOTMAP01-**	**DESELC**	**300EG**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**	
665	**99**	**224**	**01:21:10.400**	**22JNHOTMAP01-**	**DESELC**	**300DD**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**	
666	99	224	01:21:23.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 766.38 +/-	2R3	4	0	5,122,291:01:0	
667	99	224	01:21:23.733	175DD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,291:01:0	
668	99	224	01:21:23.733	175DD6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,122,291:01:0	
669	99	224	01:21:24.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 766.32 +/-	2R3	4	0	5,122,291:02:8	
670	99	224	01:25:23.733	117DD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,122,294:88:0	
671	99	224	01:25:25.066	165GD4A	7SCAN	NORM,283.896999,	Check S/P Position	2R3	4	0	5,122,294:90:0	
672	**99**	**224**	**01:25:29.733**	**22JNHOTMAP01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
673	99	224	01:28:27.733	176GD6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	5,122,298:00:0	
674	99	224	01:29:19.066	117GD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,122,298:77:0	
675	99	224	01:29:28.400	117GD105A106A4A	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,299:00:0	
676	99	224	01:30:52.400	117GD105A106A4B	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,300:35:0	
677	99	224	01:31:03.733	117GD105A106A4C	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,300:52:0	
678	99	224	01:32:27.733	117GD105A106A4D	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,301:87:0	
679	99	224	01:32:39.066	117GD105A106A4E	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,302:13:0	
680	99	224	01:34:03.066	117GD105A106A4F	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,303:48:0	
681	99	224	01:34:14.400	117GD105A106A4G	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,303:65:0	
682	99	224	01:35:38.400	117GD105A106A4H	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,305:09:0	
683	99	224	01:35:49.733	117GD105A106A4I	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,305:26:0	
684	99	224	01:37:13.733	117GD105A106A4J	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,306:61:0	
685	99	224	01:37:25.066	117GD105A106A4K	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,306:78:0	
686	99	224	01:38:49.066	117GD105A106A4L	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,308:22:0	
687	99	224	01:39:00.400	117GD105A106A4M	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,308:39:0	
688	99	224	01:40:24.400	117GD105A106A4N	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,309:74:0	
689	99	224	01:40:35.733	117GD105A106A4O	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,310:00:0	
690	99	224	01:41:59.733	117GD105A106A4P	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,311:35:0	
691	99	224	01:42:11.066	117GD105A106A4Q	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,311:52:0	
692	99	224	01:42:21.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,311:68:0	
693	99	224	01:42:21.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 766.32 +/-	2R3	4	0	5,122,311:68:0	
694	99	224	01:42:23.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 766.44 +/-	2R3	4	0	5,122,311:70:1	
695	99	224	01:42:28.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 767.67 +/-	2R3	4	0	5,122,311:78:0	
696	99	224	01:42:29.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 767.73 +/-	2R3	4	0	5,122,311:79:8	
697	99	224	01:42:31.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 767.61 +/-	2R3	4	0	5,122,311:81:9	
698	99	224	01:42:49.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 763.22 +/-	2R3	4	0	5,122,312:19:0	
699	99	224	01:43:12.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 757.91 +/-	2R3	4	0	5,122,312:53:0	
700	99	224	01:43:12.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,312:53:0	
701	99	224	01:43:13.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 757.85 +/-	2R3	4	0	5,122,312:54:8	
702	99	224	01:43:35.066	117GD105A106A4R	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,312:87:0	
703	99	224	01:43:46.400	117GD105A106A4S	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,313:13:0	
704	99	224	01:45:10.400	117GD105A106A4T	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,314:48:0	
705	99	224	01:45:21.733	117GD105A106A4U	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,314:65:0	
706	99	224	01:46:45.733	117GD105A106A4V	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,316:09:0	
707	99	224	01:46:57.066	117GD105A106A4W	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,316:26:0	
708	99	224	01:48:21.066	117GD105A106A4X	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,317:61:0	
709	99	224	01:48:32.400	117GD105A106A4Y	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,317:78:0	
710	99	224	01:49:56.400	117GD105A106A4Z	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,319:22:0	
711	99	224	01:50:07.733	117GD105A106A4AA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,319:39:0	
712	99	224	01:51:31.733	117GD105A106A4AB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,320:74:0	
713	99	224	01:51:43.066	117GD105A106A4AC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,321:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	99	224	01:53:07.066	117GD105A106A4AD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,322:35:0	
715	99	224	01:53:18.400	117GD105A106A4AE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,322:52:0	
716	99	224	01:54:42.400	117GD105A106A4AF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,323:87:0	
717	99	224	01:54:53.733	117GD105A106A4AG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,324:13:0	
718	99	224	01:56:17.733	117GD105A106A4AH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,325:48:0	
719	99	224	01:56:29.066	117GD105A106A4AI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,325:65:0	
720	99	224	01:56:45.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 757.85 +/-	2R3	4	0	5,122,325:90:0	
721	99	224	01:56:45.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,325:90:0	
722	99	224	01:56:47.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 757.97 +/-	2R3	4	0	5,122,326:01:1	
723	99	224	01:56:52.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 759.20 +/-	2R3	4	0	5,122,326:09:0	
724	99	224	01:56:53.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 759.26 +/-	2R3	4	0	5,122,326:10:8	
725	99	224	01:56:55.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 759.14 +/-	2R3	4	0	5,122,326:12:9	
726	99	224	01:57:13.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 754.75 +/-	2R3	4	0	5,122,326:41:0	
727	99	224	01:57:36.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,326:75:0	
728	99	224	01:57:36.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 749.44 +/-	2R3	4	0	5,122,326:75:0	
729	99	224	01:57:37.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 749.38 +/-	2R3	4	0	5,122,326:76:8	
730	99	224	01:57:53.066	117GD105A106A4AJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,327:09:0	
731	99	224	01:58:04.400	117GD105A106A4AK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,327:26:0	
732	99	224	01:59:28.400	117GD105A106A4AL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,328:61:0	
733	99	224	01:59:39.733	117GD105A106A4AM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,328:78:0	
734	99	224	01:59:59.733	488AB6D	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,329:17:0	
735	99	224	02:01:03.733	117GD105A106A4AN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,330:22:0	
736	99	224	02:01:15.066	117GD105A106A4AO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,330:39:0	
737	99	224	02:02:39.066	117GD105A106A4AP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,331:74:0	
738	99	224	02:02:50.400	117GD105A106A4AQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,332:00:0	
739	99	224	02:04:14.400	117GD105A106A4AR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,333:35:0	
740	99	224	02:04:25.733	117GD105A106A4AS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,333:52:0	
741	99	224	02:05:49.733	117GD105A106A4AT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,334:87:0	
742	99	224	02:06:01.066	117GD105A106A4AU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,335:13:0	
743	99	224	02:07:25.066	117GD105A106A4AV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,336:48:0	
744	99	224	02:07:36.400	117GD105A106A4AW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,336:65:0	
745	99	224	02:09:00.400	117GD105A106A4AX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,338:09:0	
746	99	224	02:09:11.733	117GD105A106A4AY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,338:26:0	
747	99	224	02:10:35.733	117GD105A106A4AZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,339:61:0	
748	99	224	02:10:47.066	117GD105A106A4BA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,339:78:0	
749	99	224	02:11:10.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,340:22:0	
750	99	224	02:11:10.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 749.38 +/-	2R3	4	0	5,122,340:22:0	
751	99	224	02:11:11.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 749.50 +/-	2R3	4	0	5,122,340:24:1	
752	99	224	02:11:17.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 750.74 +/-	2R3	4	0	5,122,340:32:0	
753	99	224	02:11:18.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 750.80 +/-	2R3	4	0	5,122,340:33:8	
754	99	224	02:11:19.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 750.68 +/-	2R3	4	0	5,122,340:35:9	
755	99	224	02:11:38.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 746.28 +/-	2R3	4	0	5,122,340:64:0	
756	99	224	02:12:01.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 740.97 +/-	2R3	4	0	5,122,341:07:0	
757	99	224	02:12:01.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,341:07:0	
758	99	224	02:12:02.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 740.91 +/-	2R3	4	0	5,122,341:08:8	
759	99	224	02:12:11.066	117GD105A106A4BB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,341:22:0	
760	99	224	02:12:22.400	117GD105A106A4BC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,341:39:0	
761	99	224	02:13:46.400	117GD105A106A4BD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,342:74:0	
762	99	224	02:13:57.733	117GD105A106A4BE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,343:00:0	
763	99	224	02:15:21.733	117GD105A106A4BF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,344:35:0	
764	99	224	02:15:33.066	117GD105A106A4BG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,344:52:0	
765	99	224	02:16:57.066	117GD105A106A4BH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,345:87:0	
766	99	224	02:17:08.400	117GD105A106A4BI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,346:13:0	
767	99	224	02:18:32.400	117GD105A106A4BJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,347:48:0	
768	99	224	02:18:43.733	117GD105A106A4BK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,347:65:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	99	224	02:20:07.733	117GD105A106A4BL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,349:09:0	
770	99	224	02:20:19.066	117GD105A106A4BM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,349:26:0	
771	99	224	02:21:43.066	117GD105A106A4BN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,350:61:0	
772	99	224	02:21:54.400	117GD105A106A4BO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,350:78:0	
773	99	224	02:23:18.400	117GD105A106A4BP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,352:22:0	
774	99	224	02:23:29.733	117GD105A106A4BQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,352:39:0	
775	99	224	02:24:53.733	117GD105A106A4BR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,353:74:0	
776	99	224	02:25:05.066	117GD105A106A4BS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,354:00:0	
777	99	224	02:25:35.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 740.91 +/-	2R3	4	0	5,122,354:45:0	
778	99	224	02:25:35.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,354:45:0	
779	99	224	02:25:36.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 741.03 +/-	2R3	4	0	5,122,354:47:1	
780	99	224	02:25:41.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 742.27 +/-	2R3	4	0	5,122,354:55:0	
781	99	224	02:25:42.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 742.33 +/-	2R3	4	0	5,122,354:56:8	
782	99	224	02:25:44.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 742.21 +/-	2R3	4	0	5,122,354:58:9	
783	99	224	02:26:03.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 737.82 +/-	2R3	4	0	5,122,354:87:0	
784	99	224	02:26:25.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,355:30:0	
785	99	224	02:26:25.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 732.50 +/-	2R3	4	0	5,122,355:30:0	
786	99	224	02:26:26.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 732.44 +/-	2R3	4	0	5,122,355:31:8	
787	99	224	02:26:29.066	117GD105A106A4BT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,355:35:0	
788	99	224	02:26:40.400	117GD105A106A4BU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,355:52:0	
789	99	224	02:28:04.400	117GD105A106A4BV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,356:87:0	
790	99	224	02:28:15.733	117GD105A106A4BW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,357:13:0	
791	99	224	02:29:39.733	117GD105A106A4BX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,358:48:0	
792	99	224	02:29:51.066	117GD105A106A4BY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,358:65:0	
793	99	224	02:31:15.066	117GD105A106A4BZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,360:09:0	
794	99	224	02:31:26.400	117GD105A106A4CA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,360:26:0	
795	99	224	02:32:50.400	117GD105A106A4CB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,361:61:0	
796	99	224	02:33:01.733	117GD105A106A4CC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,361:78:0	
797	99	224	02:34:25.733	117GD105A106A4CD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,363:22:0	
798	99	224	02:34:37.066	117GD105A106A4CE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,363:39:0	
799	99	224	02:36:01.066	117GD105A106A4CF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,364:74:0	
800	99	224	02:36:12.400	117GD105A106A4CG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,365:00:0	
801	99	224	02:37:36.400	117GD105A106A4CH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,366:35:0	
802	99	224	02:37:47.733	117GD105A106A4CI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,366:52:0	
803	99	224	02:39:11.733	117GD105A106A4CJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,367:87:0	
804	99	224	02:39:23.066	117GD105A106A4CK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,368:13:0	
805	99	224	02:39:59.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 732.44 +/-	2R3	4	0	5,122,368:68:0	
806	99	224	02:39:59.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,368:68:0	
807	99	224	02:40:01.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 732.56 +/-	2R3	4	0	5,122,368:70:1	
808	99	224	02:40:06.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 733.80 +/-	2R3	4	0	5,122,368:78:0	
809	99	224	02:40:07.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 733.86 +/-	2R3	4	0	5,122,368:79:8	
810	99	224	02:40:09.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 733.74 +/-	2R3	4	0	5,122,368:81:9	
811	99	224	02:40:27.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 729.35 +/-	2R3	4	0	5,122,369:19:0	
812	99	224	02:40:47.066	117GD105A106A4CL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,369:48:0	
813	99	224	02:40:50.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 724.03 +/-	2R3	4	0	5,122,369:53:0	
814	99	224	02:40:50.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,369:53:0	
815	99	224	02:40:51.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 723.97 +/-	2R3	4	0	5,122,369:54:8	
816	99	224	02:40:58.400	117GD105A106A4CM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,369:65:0	
817	99	224	02:42:22.400	117GD105A106A4CN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,371:09:0	
818	99	224	02:42:33.733	117GD105A106A4CO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,371:26:0	
819	99	224	02:43:57.733	117GD105A106A4CP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,372:61:0	
820	99	224	02:44:09.066	117GD105A106A4CQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,372:78:0	
821	99	224	02:45:33.066	117GD105A106A4CR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,374:22:0	
822	99	224	02:45:44.400	117GD105A106A4CS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,374:39:0	
823	99	224	02:47:08.400	117GD105A106A4CT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,375:74:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	99	224	02:47:19.733	117GD105A106A4CU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,376:00:0	
825	99	224	02:48:43.733	117GD105A106A4CV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,377:35:0	
826	99	224	02:48:55.066	117GD105A106A4CW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,377:52:0	
827	99	224	02:50:19.066	117GD105A106A4CX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,378:87:0	
828	99	224	02:50:30.400	117GD105A106A4CY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,379:13:0	
829	99	224	02:51:54.400	117GD105A106A4CZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,380:48:0	
830	99	224	02:52:05.733	117GD105A106A4DA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,380:65:0	
831	99	224	02:53:29.733	117GD105A106A4DB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,382:09:0	
832	99	224	02:53:41.066	117GD105A106A4DC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,382:26:0	
833	99	224	02:54:24.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,383:00:0	
834	99	224	02:54:24.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 723.97 +/-	2R3	4	0	5,122,383:00:0	
835	99	224	02:54:25.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 724.09 +/-	2R3	4	0	5,122,383:02:1	
836	99	224	02:54:31.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 725.33 +/-	2R3	4	0	5,122,383:10:0	
837	99	224	02:54:32.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 725.39 +/-	2R3	4	0	5,122,383:11:8	
838	99	224	02:54:33.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 725.27 +/-	2R3	4	0	5,122,383:13:9	
839	99	224	02:54:52.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 720.88 +/-	2R3	4	0	5,122,383:42:0	
840	99	224	02:55:05.066	117GD105A106A4DD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,383:61:0	
841	99	224	02:55:15.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 715.57 +/-	2R3	4	0	5,122,383:76:0	
842	99	224	02:55:15.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,383:76:0	
843	99	224	02:55:16.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 715.51 +/-	2R3	4	0	5,122,383:77:8	
844	99	224	02:55:16.400	117GD105A106A4DE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,383:78:0	
845	99	224	02:56:40.400	117GD105A106A4DF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,385:22:0	
846	99	224	02:56:51.733	117GD105A106A4DG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,385:39:0	
847	99	224	02:58:15.733	117GD105A106A4DH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,386:74:0	
848	99	224	02:58:27.066	117GD105A106A4DI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,387:00:0	
849	99	224	02:59:51.066	117GD105A106A4DJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,388:35:0	
850	99	224	03:00:02.400	117GD105A106A4DK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,388:52:0	
851	99	224	03:01:26.400	117GD105A106A4DL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,389:87:0	
852	99	224	03:01:37.733	117GD105A106A4DM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,390:13:0	
853	99	224	03:03:01.733	117GD105A106A4DN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,391:48:0	
854	99	224	03:03:13.066	117GD105A106A4DO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,391:65:0	
855	99	224	03:04:37.066	117GD105A106A4DP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,393:09:0	
856	99	224	03:04:48.400	117GD105A106A4DQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,393:26:0	
857	99	224	03:06:12.400	117GD105A106A4DR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,394:61:0	
858	99	224	03:06:23.733	117GD105A106A4DS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,394:78:0	
859	99	224	03:07:47.733	117GD105A106A4DT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,396:22:0	
860	99	224	03:07:59.066	117GD105A106A4DU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,396:39:0	
861	99	224	03:08:48.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,397:22:0	
862	99	224	03:08:48.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 715.51 +/-	2R3	4	0	5,122,397:22:0	
863	99	224	03:08:49.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 715.63 +/-	2R3	4	0	5,122,397:24:1	
864	99	224	03:08:55.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 716.86 +/-	2R3	4	0	5,122,397:32:0	
865	99	224	03:08:56.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 716.92 +/-	2R3	4	0	5,122,397:33:8	
866	99	224	03:08:57.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 716.80 +/-	2R3	4	0	5,122,397:35:9	
867	99	224	03:09:16.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 712.41 +/-	2R3	4	0	5,122,397:64:0	
868	99	224	03:09:23.066	117GD105A106A4DV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,397:74:0	
869	99	224	03:09:34.400	117GD105A106A4DW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,398:00:0	
870	99	224	03:09:39.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 707.10 +/-	2R3	4	0	5,122,398:07:0	
871	99	224	03:09:39.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,398:07:0	
872	99	224	03:09:40.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 707.04 +/-	2R3	4	0	5,122,398:08:8	
873	99	224	03:10:58.400	117GD105A106A4DX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,399:35:0	
874	99	224	03:11:09.733	117GD105A106A4DY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,399:52:0	
875	99	224	03:12:33.733	117GD105A106A4DZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,400:87:0	
876	99	224	03:12:45.066	117GD105A106A4EA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,401:13:0	
877	99	224	03:14:09.066	117GD105A106A4EB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,402:48:0	
878	99	224	03:14:20.400	117GD105A106A4EC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,402:65:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	99	224	03:15:44.400	117GD105A106A4ED	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,404:09:0	
880	99	224	03:15:55.733	117GD105A106A4EE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,404:26:0	
881	99	224	03:17:19.733	117GD105A106A4EF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,405:61:0	
882	99	224	03:17:31.066	117GD105A106A4EG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,405:78:0	
883	99	224	03:18:55.066	117GD105A106A4EH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,407:22:0	
884	99	224	03:19:06.400	117GD105A106A4EI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,407:39:0	
885	99	224	03:20:30.400	117GD105A106A4EJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,408:74:0	
886	99	224	03:20:41.733	117GD105A106A4EK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,409:00:0	
887	99	224	03:22:05.733	117GD105A106A4EL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,410:35:0	
888	99	224	03:22:17.066	117GD105A106A4EM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,410:52:0	
889	99	224	03:23:13.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,411:45:0	
890	99	224	03:23:13.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 707.04 +/-	2R3	4	0	5,122,411:45:0	
891	99	224	03:23:14.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 707.16 +/-	2R3	4	0	5,122,411:47:1	
892	99	224	03:23:19.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 708.39 +/-	2R3	4	0	5,122,411:55:0	
893	99	224	03:23:20.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 708.45 +/-	2R3	4	0	5,122,411:56:8	
894	99	224	03:23:22.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 708.33 +/-	2R3	4	0	5,122,411:58:9	
895	99	224	03:23:41.066	117GD105A106A4EN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,411:87:0	
896	99	224	03:23:41.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 703.94 +/-	2R3	4	0	5,122,411:87:0	
897	99	224	03:23:52.400	117GD105A106A4EO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,412:13:0	
898	99	224	03:24:03.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,412:30:0	
899	99	224	03:24:03.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 698.63 +/-	2R3	4	0	5,122,412:30:0	
900	99	224	03:24:04.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 698.57 +/-	2R3	4	0	5,122,412:31:8	
901	99	224	03:25:16.400	117GD105A106A4EP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,413:48:0	
902	99	224	03:25:27.733	117GD105A106A4EQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,413:65:0	
903	99	224	03:26:51.733	117GD105A106A4ER	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,415:09:0	
904	99	224	03:27:03.066	117GD105A106A4ES	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,415:26:0	
905	99	224	03:28:27.066	117GD105A106A4ET	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,416:61:0	
906	99	224	03:28:38.400	117GD105A106A4EU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,416:78:0	
907	99	224	03:30:02.400	117GD105A106A4EV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,418:22:0	
908	99	224	03:30:13.733	117GD105A106A4EW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,418:39:0	
909	99	224	03:31:37.733	117GD105A106A4EX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,419:74:0	
910	99	224	03:31:49.066	117GD105A106A4EY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,420:00:0	
911	99	224	03:33:13.066	117GD105A106A4EZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,421:35:0	
912	99	224	03:33:24.400	117GD105A106A4FA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,421:52:0	
913	99	224	03:34:13.066	432OC431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,422:34:0	
914	99	224	03:34:13.733	432OC6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,422:35:0	
915	99	224	03:34:48.400	117GD105A106A4FB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,422:87:0	
916	99	224	03:34:59.733	117GD105A106A4FC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,423:13:0	
917	99	224	03:36:23.733	117GD105A106A4FD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,424:48:0	
918	99	224	03:36:35.066	117GD105A106A4FE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,424:65:0	
919	99	224	03:37:37.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,425:68:0	
920	99	224	03:37:37.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 698.57 +/-	2R3	4	0	5,122,425:68:0	
921	99	224	03:37:39.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 698.69 +/-	2R3	4	0	5,122,425:70:1	
922	99	224	03:37:44.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 699.92 +/-	2R3	4	0	5,122,425:78:0	
923	99	224	03:37:45.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 699.98 +/-	2R3	4	0	5,122,425:79:8	
924	99	224	03:37:47.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 699.86 +/-	2R3	4	0	5,122,425:81:9	
925	99	224	03:37:59.066	117GD105A106A4FF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,426:09:0	
926	99	224	03:38:05.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 695.47 +/-	2R3	4	0	5,122,426:19:0	
927	99	224	03:38:10.400	117GD105A106A4FG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,426:26:0	
928	99	224	03:38:28.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 690.16 +/-	2R3	4	0	5,122,426:53:0	
929	99	224	03:38:28.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,426:53:0	
930	99	224	03:38:29.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 690.10 +/-	2R3	4	0	5,122,426:54:8	
931	99	224	03:39:34.400	117GD105A106A4FH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,427:61:0	
932	99	224	03:39:45.733	117GD105A106A4FI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,427:78:0	
933	99	224	03:41:09.733	117GD105A106A4FJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,429:22:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	99	224	03:41:21.066	117GD105A106A4FK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,429	39:0
935	99	224	03:42:45.066	117GD105A106A4FL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,430	74:0
936	99	224	03:42:56.400	117GD105A106A4FM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,431	00:0
937	99	224	03:44:20.400	117GD105A106A4FN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,432	35:0
938	99	224	03:44:31.733	117GD105A106A4FO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,432	52:0
939	99	224	03:45:55.733	117GD105A106A4FP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,433	87:0
940	99	224	03:46:07.066	117GD105A106A4FQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,434	13:0
941	99	224	03:46:13.066	432OE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,434	22:0
942	99	224	03:46:13.733	432OE6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,434	23:0
943	99	224	03:47:31.066	117GD105A106A4FR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,435	48:0
944	99	224	03:47:42.400	117GD105A106A4FS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,435	65:0
945	99	224	03:49:06.400	117GD105A106A4FT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,437	09:0
946	99	224	03:49:17.733	117GD105A106A4FU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,437	26:0
947	99	224	03:50:41.733	117GD105A106A4FV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,438	61:0
948	99	224	03:50:53.066	117GD105A106A4FW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,438	78:0
949	99	224	03:52:02.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,440	00:0
950	99	224	03:52:02.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 690.10 +/-	2R3	4	0	5,122,440	00:0
951	99	224	03:52:03.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 690.22 +/-	2R3	4	0	5,122,440	02:1
952	99	224	03:52:09.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 691.45 +/-	2R3	4	0	5,122,440	10:0
953	99	224	03:52:10.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 691.51 +/-	2R3	4	0	5,122,440	11:8
954	99	224	03:52:11.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 691.39 +/-	2R3	4	0	5,122,440	13:9
955	99	224	03:52:17.066	117GD105A106A4FX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,440	22:0
956	99	224	03:52:28.400	117GD105A106A4FY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,440	39:0
957	99	224	03:52:30.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 687.00 +/-	2R3	4	0	5,122,440	42:0
958	99	224	03:52:53.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 681.69 +/-	2R3	4	0	5,122,440	76:0
959	99	224	03:52:53.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,440	76:0
960	99	224	03:52:54.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 681.63 +/-	2R3	4	0	5,122,440	77:8
961	99	224	03:53:52.400	117GD105A106A4FZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,441	74:0
962	99	224	03:54:03.733	117GD105A106A4GA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,442	00:0
963	99	224	03:55:27.733	117GD105A106A4GB	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,443	35:0
964	99	224	03:55:39.066	117GD105A106A4GC	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,443	52:0
965	99	224	03:57:03.066	117GD105A106A4GD	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,444	87:0
966	99	224	03:57:14.400	117GD105A106A4GE	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,445	13:0
967	99	224	03:58:38.400	117GD105A106A4GF	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,446	48:0
968	99	224	03:58:49.733	117GD105A106A4GG	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,446	65:0
969	99	224	04:00:13.733	117GD105A106A4GH	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,448	09:0
970	99	224	04:00:25.066	117GD105A106A4GI	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,448	26:0
971	99	224	04:01:49.066	117GD105A106A4GJ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,449	61:0
972	99	224	04:02:00.400	117GD105A106A4GK	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,449	78:0
973	99	224	04:03:24.400	117GD105A106A4GL	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,451	22:0
974	99	224	04:03:35.733	117GD105A106A4GM	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,451	39:0
975	99	224	04:04:59.733	117GD105A106A4GN	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,452	74:0
976	99	224	04:05:11.066	117GD105A106A4GO	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,453	00:0
977	99	224	04:06:27.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 681.63 +/-	2R3	4	0	5,122,454	23:0
978	99	224	04:06:27.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,454	23:0
979	99	224	04:06:28.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 681.75 +/-	2R3	4	0	5,122,454	25:1
980	99	224	04:06:33.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 682.99 +/-	2R3	4	0	5,122,454	33:0
981	99	224	04:06:34.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 683.05 +/-	2R3	4	0	5,122,454	34:8
982	99	224	04:06:35.066	117GD105A106A4GP	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,454	35:0
983	99	224	04:06:36.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 682.93 +/-	2R3	4	0	5,122,454	36:9
984	99	224	04:06:46.400	117GD105A106A4GQ	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,454	52:0
985	99	224	04:06:55.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 678.53 +/-	2R3	4	0	5,122,454	65:0
986	99	224	04:07:17.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,455	08:0
987	99	224	04:07:17.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 673.22 +/-	2R3	4	0	5,122,455	08:0
988	99	224	04:07:18.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 673.16 +/-	2R3	4	0	5,122,455	09:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	99	224	04:08:10.400	117GD105A106A4GR	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,455:87:0	
990	99	224	04:08:21.733	117GD105A106A4GS	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,456:13:0	
991	99	224	04:09:45.733	117GD105A106A4GT	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,457:48:0	
992	99	224	04:09:57.066	117GD105A106A4GU	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,457:65:0	
993	99	224	04:10:13.066	432OG431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,457:89:0	
994	99	224	04:10:13.733	432OG6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,457:90:0	
995	99	224	04:11:21.066	117GD105A106A4GV	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,459:09:0	
996	99	224	04:11:32.400	117GD105A106A4GW	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,459:26:0	
997	99	224	04:12:56.400	117GD105A106A4GX	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,460:61:0	
998	99	224	04:13:07.733	117GD105A106A4GY	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,460:78:0	
999	99	224	04:14:31.733	117GD105A106A4GZ	7STRP	0.003,0.026617,0	Slew =12.01	2R3	4	0	5,122,462:22:0	
1000	99	224	04:14:43.066	117GD105A106A4HA	7STRP	-0.001,-0.026507	Slew =,0.35	2R3	4	0	5,122,462:39:0	
1001	99	224	04:16:07.066	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,122,463:74:0	
1002	99	224	04:16:48.400	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,122,464:45:0	
1003	99	224	04:16:50.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 673.16 +/-	2R3	4	0	5,122,464:48:0	
1004	99	224	04:16:50.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,122,464:48:0	
1005	99	224	04:16:51.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 673.28 +/-	2R3	4	0	5,122,464:50:1	
1006	99	224	04:16:57.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 674.52 +/-	2R3	4	0	5,122,464:58:0	
1007	99	224	04:16:58.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 674.58 +/-	2R3	4	0	5,122,464:59:8	
1008	99	224	04:16:59.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC * 674.46 +/-	2R3	4	0	5,122,464:61:9	
1009	99	224	04:17:00.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 674.28 +/-	2R3	4	0	5,122,464:63:0	
1010	99	224	04:17:18.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,464:90:0	
1011	99	224	04:17:18.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 670.07 +/-	2R3	4	0	5,122,464:90:0	
1012	99	224	04:17:19.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 670.01 +/-	2R3	4	0	5,122,465:00:8	
1013	99	224	04:22:13.066	432OI431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,469:77:0	
1014	99	224	04:22:13.733	432OI6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,469:78:0	
1015	**99**	**224**	**04:36:18.400**	**20DA5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,122,483:71:0**	
1016	**99**	**224**	**04:36:23.733**	**20DA5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,122,483:79:0**	
1017	**99**	**224**	**04:36:28.400**	**20DA6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,122,483:86:0**	
1018	**99**	**224**	**04:36:35.733**	**20DA6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,122,484:06:0**	
1019	**99**	**224**	**04:36:45.733**	**20DA5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,122,484:21:0**	
1020	**99**	**224**	**04:36:55.733**	**20DA5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,122,484:36:0**	
1021	**99**	**224**	**04:37:25.066**	**20DA4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,122,484:80:0**	
1022	**99**	**224**	**04:38:28.400**	**125DA4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**5,122,485:84:0**	
1023	99	224	04:38:28.400	125DA	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	5,122,485:84:0	
1024	**99**	**224**	**04:39:29.066**	**125DA4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**5,122,486:84:0**	
1025	99	224	04:39:29.066	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	5,122,486:84:0	
1026	99	224	04:39:33.066	165DA4A	**7SCAN**	**NORM,271.511997,**	**Check S/P Position**	4R0	4	0	5,122,486:90:0	
1027	99	224	04:41:30.400	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	5,122,488:84:0	
1028	**99**	**224**	**04:41:30.400**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,122,488:84:0**	
1029	**99**	**224**	**04:41:31.066**	**127DA4B**	**37ETB**	**07,C7,03,A1,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,122,488:85:0**	
1030	99	224	04:41:39.066	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,122,489:06:0	
1031	99	224	04:43:24.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 670.01 +/-	4R3	4	0	5,122,490:73:0	
1032	99	224	04:43:24.400	175DA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	5,122,490:73:0	
1033	99	224	04:43:25.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 670.13 +/-	4R3	4	0	5,122,490:75:1	
1034	99	224	04:43:27.066	117DA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,122,490:77:0	
1035	99	224	04:43:31.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 671.36 +/-	4R3	4	0	5,122,490:83:0	
1036	99	224	04:43:32.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 671.42 +/-	4R3	4	0	5,122,490:84:8	
1037	99	224	04:43:33.066	175DA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	5,122,490:86:0	
1038	99	224	04:43:33.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 671.30 +/-	4R3	4	0	5,122,490:86:9	
1039	99	224	04:43:33.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 671.30 +/-	4R3	4	0	5,122,490:86:9	
1040	99	224	04:43:35.066	165DA4B	7VECT		Inert vect update UTC	4R3	4	0	5,122,490:89:0	
1041	99	224	04:43:36.400	117DA105A106A4A	**7STRP**	**-0.0053,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	5,122,491:00:0	
1042	**99**	**224**	**04:43:36.400**	**22INHRSPEC01-**	**NIMPBK**	**301DA**	**IO MONITORING**	**4R3**	**4**	**0**	**: :**	
1043	99	224	04:46:13.066	432OK431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,493:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	99	224	04:46:13.733	432OK6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,493:54:0	
1045	99	224	04:46:35.066	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,122,493:86:0	
1046	**99**	**224**	**04:46:38.400**	**22INHRSPEC01-**	**DESELC**	**300DA**	**IO MONITORING**	**4R3**	**4**	**0**	**: :**	
1047	**99**	**224**	**04:48:35.066**	**DAC**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**5,122,495:83:0**	
1048	**99**	**224**	**04:48:38.400**	**22INHRSPEC01-**	**NIMPBK**	**301DZ**	**IO MONITORING**	**4R3**	**4**	**0**	**: :**	
1049	**99**	**224**	**04:49:33.733**	**22INHRSPEC01-**	**DESELC**	**300DZ**	**IO MONITORING**	**4R3**	**4**	**0**	**: :**	
1050	99	224	04:49:43.733	175DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	5,122,497:05:0	
1051	99	224	04:49:43.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 584.57 +/-	4R3	4	0	5,122,497:05:0	
1052	99	224	04:49:43.733	175DA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,122,497:05:0	
1053	99	224	04:49:44.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 584.51 +/-	4R3	4	0	5,122,497:06:8	
1054	**99**	**224**	**04:54:47.733**	**22NNHOTMAP02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1055	**99**	**224**	**04:56:02.400**	**20DE5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**5,122,503:27:0**	
1056	**99**	**224**	**04:56:03.733**	**20DE5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**5,122,503:29:0**	
1057	**99**	**224**	**04:56:05.066**	**20DE6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**5,122,503:31:0**	
1058	**99**	**224**	**04:56:15.066**	**20DE6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**5,122,503:46:0**	
1059	**99**	**224**	**04:56:25.066**	**20DE5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,122,503:61:0**	
1060	**99**	**224**	**04:56:45.066**	**20DE5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,122,504:00:0**	
1061	**99**	**224**	**04:57:00.400**	**20DE4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,122,504:23:0**	
1062	99	224	04:57:45.066	165DE4A	**7SCAN**	**NORM,308.716999,**	**Check S/P Position**	2R0	4	0	5,122,504:90:0	
1063	**99**	**224**	**04:57:49.733**	**22JNHOTMAP02-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1064	**99**	**224**	**04:57:49.733**	**22NNHOTMAP02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1065	99	224	04:58:13.066	432OM431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R0	4	0	5,122,505:41:0	
1066	99	224	04:58:13.733	432OM6A	6RTSL1		R/T Select of DDS and	2R0	4	0	5,122,505:42:0	
1067	99	224	04:59:42.400	125DE	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,122,506:84:0	
1068	**99**	**224**	**04:59:42.400**	**125DE4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**5,122,506:84:0**	
1069	99	224	04:59:42.400	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	5,122,506:84:0	
1070	**99**	**224**	**05:00:43.066**	**127DE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,122,507:84:0**	
1071	99	224	05:00:43.066	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,122,507:84:0	
1072	**99**	**224**	**05:00:43.733**	**127DE4B**	**37ETB**	**0A,CA,16,05,FF,1**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,122,507:85:0**	
1073	99	224	05:00:51.733	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,122,508:06:0	
1074	99	224	05:01:39.066	117DE	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,122,508:77:0	
1075	99	224	05:01:47.066	165DE4B	7VECT		Inert vect update UTC	4R3	4	0	5,122,508:89:0	
1076	99	224	05:01:48.400	117DE105A106A4A	**7STRP**	**-0.025405,0.0,0,**	**Slew =,0.03**	4R3	4	0	5,122,509:00:0	
1077	99	224	05:15:57.733	117DE105A106A4B	**7STRP**	**0.046032,-0.006,**	**Slew =12.01**	4R3	4	0	5,122,523:00:0	
1078	99	224	05:16:11.066	117DE105A106A4C	**7STRP**	**-0.025405,0.0,0,**	**Slew =,0.03**	4R3	4	0	5,122,523:20:0	
1079	99	224	05:16:46.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 584.51 +/-	4R3	4	0	5,122,523:73:0	
1080	99	224	05:16:46.400	175DE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	5,122,523:73:0	
1081	99	224	05:16:47.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 584.63 +/-	4R3	4	0	5,122,523:75:1	
1082	99	224	05:16:53.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 585.86 +/-	4R3	4	0	5,122,523:83:0	
1083	99	224	05:16:54.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 585.92 +/-	4R3	4	0	5,122,523:84:8	
1084	99	224	05:16:55.066	175DE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	5,122,523:86:0	
1085	99	224	05:16:55.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 585.80 +/-	4R3	4	0	5,122,523:86:9	
1086	99	224	05:16:55.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 585.80 +/-	4R3	4	0	5,122,523:86:9	
1087	**99**	**224**	**05:17:02.400**	**22JNHOTMAP02-**	**NIMPBK**	**301DQ**	**JUPITER HOT MAP OBS**	**4R3**	**4**	**0**	**: :**	
1088	**99**	**224**	**05:17:02.400**	**22JNHOTMAP02-**	**NIMPBK**	**301DE**	**JUPITER HOT MAP OBS**	**4R3**	**4**	**0**	**: :**	
1089	99	224	05:22:13.066	432OO431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,529:17:0	
1090	99	224	05:22:13.733	432OO6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,529:18:0	
1091	**99**	**224**	**05:26:52.400**	**22JNHOTMAP02-**	**DESELC**	**300DQ**	**JUPITER HOT MAP OBS**	**4R3**	**4**	**0**	**: :**	
1092	**99**	**224**	**05:26:52.400**	**22JNHOTMAP02-**	**DESELC**	**300DE**	**JUPITER HOT MAP OBS**	**4R3**	**4**	**0**	**: :**	
1093	99	224	05:27:15.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 440.47 +/-	4R3	4	0	5,122,534:16:0	
1094	99	224	05:27:15.733	175DE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	5,122,534:16:0	
1095	99	224	05:27:15.733	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,122,534:16:0	
1096	99	224	05:27:16.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 440.41 +/-	4R3	4	0	5,122,534:17:8	
1097	99	224	05:30:20.400	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,122,537:20:0	
1098	**99**	**224**	**05:31:11.733**	**22JNHOTMAP02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1099	99	224	05:33:59.733	480SC6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	4R3	4	0	5,122,540:76:0
1100	99	224	05:34:13.066	432OQ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,541:05:0
1101	99	224	05:34:13.733	432OQ6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,541:06:0
1102	99	224	05:40:39.733	480SC6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	4R3	4	0	5,122,547:39:0
1103	99	224	05:58:13.066	432OS431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,564:72:0
1104	99	224	05:58:13.733	432OS6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,564:73:0
1105	99	224	06:05:50.400	488AC6A	6TMSED	NORM,FL4	Sci, Eng, and D/L Chan	4R3	4	0	5,122,572:30:0
1106	99	224	06:10:13.066	432OU431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,576:60:0
1107	99	224	06:10:13.733	432OU6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,576:61:0
1108	99	224	06:34:13.066	432OW431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	5,122,600:36:0
1109	99	224	06:34:13.733	432OW6A	6RTSL1		R/T Select of DDS and	4R3	4	0	5,122,600:37:0
1110	**99**	**224**	**06:38:56.400**	**22NNHOTMAP03-**		**-----START------**		**4R3**	**4**	**0**	**: :**
1111	**99**	**224**	**06:40:11.066**	**20DG5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**5,122,606:27:0**
1112	**99**	**224**	**06:40:12.400**	**20DG5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**5,122,606:29:0**
1113	**99**	**224**	**06:40:13.733**	**20DG6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**5,122,606:31:0**
1114	**99**	**224**	**06:40:23.733**	**20DG6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**5,122,606:46:0**
1115	**99**	**224**	**06:40:33.733**	**20DG5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,122,606:61:0**
1116	**99**	**224**	**06:40:53.733**	**20DG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,122,607:00:0**
1117	**99**	**224**	**06:41:09.066**	**20DG4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,122,607:23:0**
1118	99	224	06:41:53.733	165DG4A	**7SCAN**	**NORM,315.598,-16**	**Check S/P Position**	2R0	4	0	5,122,607:90:0
1119	**99**	**224**	**06:41:58.400**	**22JNHOTMAP03-**		**-----START------**		**2R0**	**4**	**0**	**: :**
1120	**99**	**224**	**06:41:58.400**	**22NNHOTMAP03-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
1121	99	224	06:44:51.733	125DG11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	5,122,610:84:0
1122	99	224	06:44:51.733	125DG	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,122,610:84:0
1123	**99**	**224**	**06:44:51.733**	**125DG4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,122,610:84:0**
1124	99	224	06:45:45.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 440.41 +/-	2R0	4	0	5,122,611:73:0
1125	99	224	06:45:45.066	175DG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	5,122,611:73:0
1126	99	224	06:45:46.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 440.53 +/-	2R0	4	0	5,122,611:75:1
1127	99	224	06:45:47.733	117DG	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	5,122,611:77:0
1128	99	224	06:45:51.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 441.77 +/-	2R0	4	0	5,122,611:83:0
1129	99	224	06:45:52.400	127DG	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,122,611:84:0
1130	**99**	**224**	**06:45:52.400**	**127DG4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,122,611:84:0**
1131	99	224	06:45:52.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 441.83 +/-	2R3	4	0	5,122,611:84:8
1132	**99**	**224**	**06:45:53.066**	**127DG4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,122,611:85:0**
1133	99	224	06:45:53.733	175DG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	5,122,611:86:0
1134	99	224	06:45:54.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 441.71 +/-	2R3	4	0	5,122,611:86:9
1135	99	224	06:45:54.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 441.71 +/-	2R3	4	0	5,122,611:86:9
1136	99	224	06:45:55.733	165DG4B	7VECT		Inert vect update UTC	2R3	4	0	5,122,611:89:0
1137	99	224	06:45:57.066	117DG105A106A4A	**7STRP**	**-0.036216,0.0,0,**	**Slew =,0.03**	2R3	4	0	5,122,612:00:0
1138	**99**	**224**	**06:46:01.066**	**22JNHOTMAP03-**	**NIMPBK**	**301DG**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**
1139	99	224	06:46:01.066	127DG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,122,612:06:0
1140	99	224	06:46:13.066	432OY431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,612:24:0
1141	99	224	06:46:13.733	432OY6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,612:25:0
1142	**99**	**224**	**06:55:51.066**	**22JNHOTMAP03-**	**DESELC**	**300DG**	**JUPITER HOT MAP OBS**	**2R3**	**4**	**0**	**: :**
1143	99	224	06:55:54.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 301.07 +/-	2R3	4	0	5,122,621:77:0
1144	99	224	06:55:54.400	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,122,621:77:0
1145	99	224	06:55:54.400	175DG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,122,621:77:0
1146	99	224	06:55:55.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 301.01 +/-	2R3	4	0	5,122,621:78:8
1147	99	224	07:06:07.066	117DG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,122,631:86:0
1148	**99**	**224**	**07:06:14.400**	**22JNHOTMAP03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1149	99	224	07:10:13.066	432PA431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,636:00:0
1150	99	224	07:10:13.733	432PA6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,636:01:0
1151	99	224	07:22:13.066	432PC431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,647:79:0
1152	99	224	07:22:13.733	432PC6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,647:80:0
1153	99	224	07:32:14.400	488AC6B	6TMSED	FILL,FL4	Sci, Eng, and D/L Chan	2R3	4	0	5,122,657:71:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	99	224	07:33:18.400	488AC6C	6TMSED	FILL,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,658:76:0	
1155	99	224	07:46:13.066	432PE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,671:55:0	
1156	99	224	07:46:13.733	432PE6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,671:56:0	
1157	99	224	07:46:30.400		DMS:	: *DMS-TURN	P7, TRACK 2, REV, TIC 301.01 +/-	2R3	4	0	5,122,671:81:0	
1158	99	224	07:46:30.400	465KC6A	6DTRN	CMD,6DTRN,465KC6	DMS TRACK TURNAROUND	2R3	4	0	5,122,671:81:0	
1159	99	224	07:46:30.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 301.01 +/-	2R3	4	0	5,122,671:81:0	
1160	99	224	07:46:31.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 301.13 +/-	2R3	4	0	5,122,671:83:1	
1161	99	224	07:46:37.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 302.36 +/-	2R3	4	0	5,122,672:00:0	
1162	99	224	07:46:38.266		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC * 302.42 +/-	2R3	4	0	5,122,672:01:8	
1163	99	224	07:46:39.666		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC * 302.30 +/-	2R3	4	0	5,122,672:03:9	
1164	99	224	07:53:56.666		DMS:	: *REVERSE	P7, TRACK 2, REV, TIC * 199.87 +/-	2R3	4	0	5,122,679:22:4	
1165	99	224	07:53:57.866		DMS:	: *TURNARND	P7, TRACK *3, *FWD, TIC * 199.81 +/-	2R3	4	0	5,122,679:24:2	
1166	99	224	07:53:57.866		DMS:	: *RUNUP	P7, TRACK 3, FWD, TIC 199.81 +/-	2R3	4	0	5,122,679:24:2	
1167	99	224	07:53:59.266		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC * 199.93 +/-	2R3	4	0	5,122,679:26:3	
1168	99	224	07:54:11.266		DMS:	: *AUTOSTOP	P7, TRACK 3, FWD, TIC * 202.06 +/-	2R3	4	0	5,122,679:44:3	
1169	99	224	07:54:12.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 202.12 +/-	2R3	4	0	5,122,679:46:1	
1170	99	224	07:58:13.066	432PG431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,122,683:43:0	
1171	99	224	07:58:13.733	432PG6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,122,683:44:0	
1172	99	224	08:01:48.400	488AC6D	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,687:02:0	
1173	99	224	08:08:43.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 202.12 +/-	2R3	4	0	5,122,693:79:0	
1174	99	224	08:08:43.733	465KD6A	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	2R3	4	0	5,122,693:79:0	
1175	99	224	08:08:50.400		DMS:	: *RUNUP	P7, TRACK *3, FWD, TIC 202.12 +/-	2R3	4	0	5,122,693:89:0	
1176	99	224	08:08:51.800		DMS:	: *P_SLEW	P7, TRACK 3, FWD, TIC * 202.24 +/-	2R3	4	0	5,122,694:00:1	
1177	99	224	08:08:51.800		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC 202.24 +/-	2R3	4	0	5,122,694:00:1	
1178	99	224	08:09:52.400		DMS:	**: *RUNDOWN**	P7, TRACK 3, FWD, TIC * 216.45 +/-	2R3	4	0	5,122,695:00:0	
1179	99	224	08:09:52.400	465KD6B	6DMSC	RDY,3	DMS Control Tape stop	2R3	4	0	5,122,695:00:0	
1180	99	224	08:09:53.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 216.51 +/-	2R3	4	0	5,122,695:01:8	
1181	99	224	08:16:46.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 216.51 +/-	2R3	4	0	5,122,701:75:0	
1182	99	224	08:16:46.400	175MA422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	5,122,701:75:0	
1183	99	224	08:16:53.066		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 216.51 +/-	2R3	4	0	5,122,701:85:0	
1184	99	224	08:16:54.400	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	2R3	4	0	5,122,701:87:0	
1185	99	224	08:16:54.400	175MA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	5,122,701:87:0	
1186	99	224	08:16:54.466		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 216.63 +/-	2R3	4	0	5,122,701:87:1	
1187	99	224	08:16:54.466		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 216.63 +/-	2R3	4	0	5,122,701:87:1	
1188	99	224	08:16:57.066	431OA6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	5,122,702:00:0	
1189	99	224	08:17:01.066	488AC6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R3	4	0	5,122,702:06:0	
1190	99	224	13:00:59.733	20TO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R3	4	0	5,122,982:84:0	
1191	99	224	13:01:49.733	20TO4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,122,983:68:0	
1192	99	224	13:01:55.733	20TO4E	7STAR	1,1610,278.815,3	Star catalog update	2R3	4	0	5,122,983:77:0	
1193	99	224	13:01:57.733	20TO4F	7STAR	2,9000,2.664,14.	Star catalog update	2R3	4	0	5,122,983:80:0	
1194	99	224	13:01:59.733	20TO4G	7STAR	3,1610,278.815,3	Star catalog update	2R3	4	0	5,122,983:83:0	
1195	99	224	13:02:01.733	20TO4H	7STAR	4,9000,2.664,14.	Star catalog update	2R3	4	0	5,122,983:86:0	
1196	99	224	13:02:03.733	20TO4I	7STAR	5,1610,278.815,3	Star catalog update	2R3	4	0	5,122,983:89:0	
1197	99	224	13:02:05.733	20TO4J	7STAR	6,9000,2.664,14.	Star catalog update	2R3	4	0	5,122,984:01:0	
1198	99	224	13:40:14.400	488AD6A	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	2R3	4	0	5,123,021:67:0	
1199	99	224	13:44:59.733	480SD6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	2R3	4	0	5,123,026:40:0	
1200	99	224	13:46:19.733	480SD6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	2R3	4	0	5,123,027:69:0	
1201	99	224	13:57:18.400	488AD6B	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,038:56:0	
1202	99	224	13:59:47.066	488AD6C	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,041:06:0	
1203	99	224	14:00:45.733	175MA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,042:03:0	
1204	99	224	14:00:45.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5052.08 +/-	2R3	4	0	5,123,042:03:0	
1205	99	224	14:00:45.733	432PH431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,042:03:0	
1206	99	224	14:00:46.400	432PH6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,042:04:0	
1207	99	224	14:00:46.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5052.14 +/-	2R3	4	0	5,123,042:04:8	
1208	99	224	14:00:49.733	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	5,123,042:09:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	99	224	14:01:13.066	432PJ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,042:44:0	
1210	99	224	14:01:13.733	432PJ6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,042:45:0	
1211	99	224	14:01:38.400	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	5,123,042:82:0	
1212	99	224	14:01:39.066	282NB432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,042:83:0	
1213	99	224	14:13:13.066	432PL431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,054:32:0	
1214	99	224	14:13:13.733	432PL6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,054:33:0	
1215	99	224	14:37:13.066	432PN431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,078:08:0	
1216	99	224	14:37:13.733	432PN6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,078:09:0	
1217	99	224	14:49:13.066	432PP431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,089:87:0	
1218	99	224	14:49:13.733	432PP6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,089:88:0	
1219	99	224	14:57:39.733	488AD6D	6TMSED	FILL,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,098:28:0	
1220	99	224	15:13:13.066	432PR431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,113:63:0	
1221	99	224	15:13:13.733	432PR6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,113:64:0	
1222	99	224	15:18:22.400	488AD6E	6TMSED	FILL,FL6	Sci, Eng, and D/L Chan	2R3	4	0	5,123,118:72:0	
1223	99	224	15:24:45.066	488AE6A	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	2R3	4	0	5,123,125:09:0	
1224	99	224	15:25:13.066	432PT431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,125:51:0	
1225	99	224	15:25:13.733	432PT6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,125:52:0	
1226	99	224	15:49:13.066	432PV431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,149:27:0	
1227	99	224	15:49:13.733	432PV6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,149:28:0	
1228	99	224	16:01:13.066	432PX431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,161:15:0	
1229	99	224	16:01:13.733	432PX6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,161:16:0	
1230	99	224	16:25:13.066	432PZ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,184:82:0	
1231	99	224	16:25:13.733	432PZ6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,184:83:0	
1232	99	224	16:37:13.066	432NI431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,196:70:0	
1233	99	224	16:37:13.733	432NI6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,196:71:0	
1234	99	224	17:01:13.066	432NK431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,220:46:0	
1235	99	224	17:01:13.733	432NK6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,220:47:0	
1236	99	224	17:09:47.733	165IB4A	7SCAN	NORM,7.825,4.518	Check S/P Position	2R3	4	0	5,123,228:90:0	
1237	99	224	17:13:13.066	432NM431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,232:34:0	
1238	99	224	17:13:13.733	432NM6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,232:35:0	
1239	99	224	17:13:39.733	175IA422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,123,232:74:0	
1240	99	224	17:13:39.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5052.14 +/-	2R3	4	0	5,123,232:74:0	
1241	99	224	17:13:46.400		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 5052.14 +/-	2R3	4	0	5,123,232:84:0	
1242	99	224	17:13:49.733	165IB4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,232:89:0	
1243	99	224	17:13:51.066	175IA176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,123,233:00:0	
1244	99	224	17:13:51.666		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5118.14 +/-	2R3	4	0	5,123,233:00:9	
1245	99	224	17:13:51.666		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *5118.14 +/-	2R3	4	0	5,123,233:00:9	
1246	99	224	17:13:53.733	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,233:04:0	
1247	99	224	17:13:53.733		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5169.00 +/-	2R3	4	0	5,123,233:04:0	
1248	99	224	17:13:56.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5180.50 +/-	2R3	4	0	5,123,233:08:1	
1249	99	224	17:15:41.066	175IB422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,123,234:74:0	
1250	99	224	17:15:41.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5180.50 +/-	2R3	4	0	5,123,234:74:0	
1251	99	224	17:15:47.733		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 5180.50 +/-	2R3	4	0	5,123,234:84:0	
1252	99	224	17:15:52.400	175IB176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,123,235:00:0	
1253	99	224	17:15:53.000		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *5246.50 +/-	2R3	4	0	5,123,235:00:9	
1254	99	224	17:15:53.000		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5246.50 +/-	2R3	4	0	5,123,235:00:9	
1255	99	224	17:15:55.066		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5297.36 +/-	2R3	4	0	5,123,235:04:0	
1256	99	224	17:15:55.066	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,235:04:0	
1257	99	224	17:15:57.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5308.86 +/-	2R3	4	0	5,123,235:08:1	
1258	99	224	17:18:53.733	165IA4A	7SCAN	NORM,41.832,17.7	Check S/P Position	2R3	4	0	5,123,237:90:0	
1259	99	224	17:22:47.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5308.86 +/-	2R3	4	0	5,123,241:76:0	
1260	99	224	17:22:47.066	175IC422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,123,241:76:0	
1261	99	224	17:22:53.733		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 5308.86 +/-	2R3	4	0	5,123,241:86:0	
1262	99	224	17:22:58.400	175IC176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,123,242:02:0	
1263	99	224	17:22:59.000		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5374.86 +/- 1	2R3	4	0	5,123,242:02:9	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	99	224	17:22:59.000		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *5374.86 +/-	2R3	4	0	5,123,242:02:9	
1265	99	224	17:23:02.400	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,242:08:0	
1266	99	224	17:23:02.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5458.53 +/- 1	2R3	4	0	5,123,242:08:0	
1267	99	224	17:23:05.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5470.03 +/- 1	2R3	4	0	5,123,242:12:1	
1268	99	224	17:37:13.066	432NO431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,256:10:0	
1269	99	224	17:37:13.733	432NO6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,256:11:0	
1270	99	224	17:49:13.066	432NQ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,267:89:0	
1271	99	224	17:49:13.733	432NQ6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,267:90:0	
1272	99	224	17:49:59.733	480SE6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	2R3	4	0	5,123,268:68:0	
1273	99	224	17:56:39.733	480SE6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	2R3	4	0	5,123,275:31:0	
1274	**99**	**224**	**18:05:29.066**	**22NNWHTOVL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1275	99	224	18:06:25.066	165DJ4A	**7SCAN**	**NORM,39.764,14.0**	**Check S/P Position**	2R3	4	0	5,123,284:90:0	
1276	**99**	**224**	**18:06:36.400**	**20DJ5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,123,285:16:0**	
1277	**99**	**224**	**18:06:39.733**	**20DJ5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,123,285:21:0**	
1278	**99**	**224**	**18:06:49.733**	**20DJ6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,123,285:36:0**	
1279	**99**	**224**	**18:06:59.733**	**20DJ6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,123,285:51:0**	
1280	**99**	**224**	**18:07:09.733**	**20DJ5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,123,285:66:0**	
1281	**99**	**224**	**18:07:13.066**	**20DJ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,123,285:71:0**	
1282	**99**	**224**	**18:07:19.066**	**20DJ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,123,285:80:0**	
1283	99	224	18:08:22.400	125DJ	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,123,286:84:0	
1284	**99**	**224**	**18:08:22.400**	**125DJ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,123,286:84:0**	
1285	**99**	**224**	**18:08:31.066**	**22NNWHTOVL01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1286	**99**	**224**	**18:08:31.066**	**22JNWHTOVL01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1287	**99**	**224**	**18:09:23.066**	**125DJ4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**5,123,287:84:0**	
1288	99	224	18:09:23.066	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	5,123,287:84:0	
1289	99	224	18:10:17.066	175DJ422A6A	6DMSC	R7,3	DMS Control	2R0	4	0	5,123,288:74:0	
1290	99	224	18:10:17.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5470.03 +/- 1	2R0	4	0	5,123,288:74:0	
1291	99	224	18:10:19.066	117DJ	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	5,123,288:77:0	
1292	99	224	18:10:23.733		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5470.03 +/- 1	2R0	4	0	5,123,288:84:0	
1293	99	224	18:10:23.733	127DJ	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,123,288:84:0	
1294	**99**	**224**	**18:10:23.733**	**127DJ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,123,288:84:0**	
1295	**99**	**224**	**18:10:24.400**	**127DJ4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,123,288:85:0**	
1296	99	224	18:10:25.066	175DJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	5,123,288:86:0	
1297	99	224	18:10:25.133		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5470.15 +/- 1	2R3	4	0	5,123,288:86:1	
1298	99	224	18:10:25.133		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5470.15 +/- 1	2R3	4	0	5,123,288:86:1	
1299	99	224	18:10:27.066	165DJ4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,288:89:0	
1300	99	224	18:10:28.400	117DJ105A106A4A	**7STRP**	**0.018002,0.0,0,0**	**Slew =,0.03**	2R3	4	0	5,123,289:00:0	
1301	**99**	**224**	**18:10:32.400**	**22JNWHTOVL01-**	**NIMPBK**	**301DJ**	**JUPITER WHITE OVAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1302	99	224	18:10:32.400	127DJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,123,289:06:0	
1303	99	224	18:13:14.400	432NS431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,123,291:67:0	
1304	99	224	18:13:15.066	432NS6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,123,291:68:0	
1305	**99**	**224**	**18:20:22.400**	**22JNWHTOVL01-**	**DESELC**	**300DJ**	**JUPITER WHITE OVAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1306	99	224	18:20:25.733	175DJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,123,298:77:0	
1307	99	224	18:20:25.733	175DJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,298:77:0	
1308	99	224	18:20:25.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5610.92 +/- 1	2R3	4	0	5,123,298:77:0	
1309	99	224	18:20:26.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5610.98 +/- 1	2R3	4	0	5,123,298:78:8	
1310	99	224	18:20:31.733	117DJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,123,298:86:0	
1311	**99**	**224**	**18:20:39.066**	**22JNWHTOVL01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1312	99	224	19:09:06.400	165IE4A	7SCAN	NORM,35.706,15.8	Check S/P Position	2R3	4	0	5,123,346:90:0	
1313	99	224	19:12:59.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5610.98 +/- 1	2R3	4	0	5,123,350:76:0	
1314	99	224	19:12:59.733	175ID422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,123,350:76:0	
1315	99	224	19:13:06.400		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 5610.98 +/- 1	2R3	4	0	5,123,350:86:0	
1316	99	224	19:13:11.066	175ID176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,123,351:02:0	
1317	99	224	19:13:11.666		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *5676.98 +/- 1	2R3	4	0	5,123,351:02:9	
1318	99	224	19:13:11.666		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5676.98 +/- 1	2R3	4	0	5,123,351:02:9	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	99	224	19:13:15.066		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5760.65 +/- 1	2R3	4	0	5,123,351:08:0	
1320	99	224	19:13:15.066	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,351:08:0	
1321	99	224	19:13:17.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5772.15 +/- 1	2R3	4	0	5,123,351:12:1	
1322	99	224	19:25:17.066	165IF4A	7SCAN	NORM,23.101,11.4	Check S/P Position	2R3	4	0	5,123,362:90:0	
1323	99	224	19:29:10.400	175IE422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,123,366:76:0	
1324	99	224	19:29:10.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5772.15 +/- 1	2R3	4	0	5,123,366:76:0	
1325	99	224	19:29:17.066		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 5772.15 +/- 1	2R3	4	0	5,123,366:86:0	
1326	99	224	19:29:21.733	175IE176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,123,367:02:0	
1327	99	224	19:29:22.333		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *5838.15 +/- 1	2R3	4	0	5,123,367:02:9	
1328	99	224	19:29:22.333		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5838.15 +/- 2	2R3	4	0	5,123,367:02:9	
1329	99	224	19:29:25.733		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5921.82 +/- 2	2R3	4	0	5,123,367:08:0	
1330	99	224	19:29:25.733	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,367:08:0	
1331	99	224	19:29:28.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5933.32 +/- 2	2R3	4	0	5,123,367:12:1	
1332	99	224	19:30:33.066	465KE6A	6DTRN	CMD,6DTRN,465KE6	DMS TRACK TURNAROUND	2R3	4	0	5,123,368:18:0	
1333	99	224	19:30:33.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5933.32 +/- 2	2R3	4	0	5,123,368:18:0	
1334	99	224	19:30:33.066		DMS:	: *DMS-TURN	P7, TRACK 3, FWD, TIC 5933.32 +/- 2	2R3	4	0	5,123,368:18:0	
1335	99	224	19:30:39.733		DMS:	: *RUNUP	P7, TRACK *3, FWD, TIC 5933.32 +/- 2	2R3	4	0	5,123,368:28:0	
1336	99	224	19:30:41.133		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC *5933.44 +/- 2	2R3	4	0	5,123,368:30:1	
1337	99	224	19:37:22.933		DMS:	: *REVERSE	P7, TRACK 3, FWD, TIC *6027.63 +/- 2	2R3	4	0	5,123,374:86:8	
1338	99	224	19:37:24.133		DMS:	: *TURNARND	P7, TRACK *4, *REV, TIC *6027.69 +/- 2	2R3	4	0	5,123,374:88:6	
1339	99	224	19:37:24.133		DMS:	: *RUNUP	P7, TRACK 4, REV, TIC 6027.69 +/- 2	2R3	4	0	5,123,374:88:6	
1340	99	224	19:37:25.533		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC *6027.57 +/-	2R3	4	0	5,123,374:90:7	
1341	99	224	19:37:37.533		DMS:	: *AUTOSTOP	P7, TRACK 4, REV, TIC *6025.44 +/-	2R3	4	0	5,123,375:17:7	
1342	99	224	19:37:38.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *6025.38 +/-	2R3	4	0	5,123,375:19:5	
1343	**99**	**224**	**19:40:31.733**	**22NNBELUSL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1344	**99**	**224**	**19:41:43.066**	**20DH5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,123,379:22:0**	
1345	**99**	**224**	**19:41:44.400**	**20DH5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,123,379:24:0**	
1346	**99**	**224**	**19:41:46.400**	**20DH6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,123,379:27:0**	
1347	99	224	19:41:53.733	465KF6A	6DMSC	P7,4	DMS Control Tape P/B 7.68kbps	2R3	4	0	5,123,379:38:0	
1348	99	224	19:41:53.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 6025.38 +/-	2R3	4	0	5,123,379:38:0	
1349	99	224	19:41:55.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6025.50 +/-	2R3	4	0	5,123,379:40:1	
1350	**99**	**224**	**19:41:56.400**	**20DH6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,123,379:42:0**	
1351	99	224	19:42:00.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6026.73 +/-	2R3	4	0	5,123,379:48:0	
1352	99	224	19:42:01.600		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC *6026.79 +/-	2R3	4	0	5,123,379:49:8	
1353	99	224	19:42:03.000		DMS:	: *P_SLEW	P7, TRACK 4, REV, TIC *6026.67 +/-	2R3	4	0	5,123,379:51:9	
1354	99	224	19:42:03.000		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC 6026.67 +/-	2R3	4	0	5,123,379:51:9	
1355	**99**	**224**	**19:42:09.733**	**20DH5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,123,379:62:0**	
1356	**99**	**224**	**19:42:13.066**	**20DH5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,123,379:67:0**	
1357	**99**	**224**	**19:42:44.400**	**20DH4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,123,380:23:0**	
1358	99	224	19:43:12.400		DMS:	**: *RUNDOWN**	P7, TRACK 4, REV, TIC *6010.41 +/-	2R0	4	0	5,123,380:65:0	
1359	99	224	19:43:12.400	465KF6B	6DMSC	RDY,4	DMS Control Tape stop	2R0	4	0	5,123,380:65:0	
1360	99	224	19:43:13.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *6010.35 +/-	2R0	4	0	5,123,380:66:8	
1361	**99**	**224**	**19:43:33.733**	**22NNBELUSL01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1362	99	224	19:44:18.400	175NA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R0	4	0	5,123,381:73:0	
1363	99	224	19:44:18.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 6010.35 +/-	2R0	4	0	5,123,381:73:0	
1364	99	224	19:44:19.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6010.47 +/-	2R0	4	0	5,123,381:75:1	
1365	99	224	19:44:25.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6011.70 +/-	2R0	4	0	5,123,381:83:0	
1366	**99**	**224**	**19:44:25.733**	**125DH4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R0**	**4**	**0**	**5,123,381:84:0**	
1367	99	224	19:44:25.733	125DH	NIMSINIT	GS	##### GROUP START INIT	3R0	4	0	5,123,381:84:0	
1368	99	224	19:44:26.266		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *6011.76 +/-	3R0	4	0	5,123,381:84:8	
1369	99	224	19:44:29.733	175NA176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	3R0	4	0	5,123,381:90:0	
1370	99	224	19:44:30.266		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 6005.46 +/-	3R0	4	0	5,123,381:90:8	
1371	99	224	19:44:30.266		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *6005.46 +/-	3R0	4	0	5,123,381:90:8	
1372	99	224	19:45:26.400	125DH11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	5,123,382:84:0	
1373	**99**	**224**	**19:45:26.400**	**125DH4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**3R0**	**4**	**0**	**5,123,382:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	99	224	19:47:27.733	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	3R0	4	0	5,123,384:84:0	
1375	**99**	**224**	**19:47:27.733**	**127DH4A**	**37IOP**	**4,0**	**Long Spectrometer, Grating Start Position**	**3R4**	**4**	**0**	**5,123,384:84:0**	
1376	**99**	**224**	**19:47:28.400**	**127DH4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R4**	**4**	**0**	**5,123,384:85:0**	
1377	99	224	19:47:31.733	165DH4A	**7SCAN**	**NORM,335.764,-9.**	**Check S/P Position**	3R4	4	0	5,123,384:90:0	
1378	99	224	19:47:36.400	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R4	4	0	5,123,385:06:0	
1379	**99**	**224**	**19:47:36.400**	**22ENBELUSL01-**		**-----START------**		**3R4**	**4**	**0**	**: :**	
1380	99	224	19:49:17.733		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4994.84 +/-	3R4	4	0	5,123,386:67:0	
1381	99	224	19:49:17.733	175NA422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R4	4	0	5,123,386:67:0	
1382	99	224	19:49:18.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4993.84 +/-	3R4	4	0	5,123,386:68:8	
1383	99	224	19:51:20.400	175DH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R4	4	0	5,123,388:69:0	
1384	99	224	19:51:20.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4993.84 +/-	3R4	4	0	5,123,388:69:0	
1385	99	224	19:51:21.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4993.96 +/-	3R4	4	0	5,123,388:71:1	
1386	99	224	19:51:27.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4995.19 +/-	3R4	4	0	5,123,388:79:0	
1387	99	224	19:51:28.266		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *4995.25 +/-	3R4	4	0	5,123,388:80:8	
1388	99	224	19:51:31.733	175DH176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R4	4	0	5,123,388:86:0	
1389	99	224	19:51:32.266		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *4993.75 +/-	3R4	4	0	5,123,388:86:8	
1390	99	224	19:51:32.266		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 4993.75 +/-	3R4	4	0	5,123,388:86:8	
1391	99	224	19:51:33.733	165DH4B	7VECT		Inert vect update UTC	3R4	4	0	5,123,388:89:0	
1392	99	224	20:01:35.066		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *4463.95 +/-	3R4	4	0	5,123,398:81:0	
1393	99	224	20:01:35.066	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R4	4	0	5,123,398:81:0	
1394	99	224	20:01:36.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4463.65 +/-	3R4	4	0	5,123,398:82:8	
1395	99	224	20:01:41.066	165DI4A	**7SCAN**	**NORM,339.254997,**	**Check S/P Position**	3R4	4	0	5,123,398:90:0	
1396	**99**	**224**	**20:01:45.732**	**22ENBELUSL01-**		**-----STOP-------**		**3R4**	**4**	**0**	**: :**	
1397	**99**	**224**	**20:01:45.732**	**22NNGLOBAL01-**		**-----START------**		**3R4**	**4**	**0**	**: :**	
1398	**99**	**224**	**20:02:53.066**	**20DI5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R4**	**4**	**0**	**5,123,400:16:0**	
1399	**99**	**224**	**20:02:56.400**	**20DI5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R4**	**4**	**0**	**5,123,400:21:0**	
1400	**99**	**224**	**20:03:06.400**	**20DI6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R4**	**4**	**0**	**5,123,400:36:0**	
1401	**99**	**224**	**20:03:16.400**	**20DI6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R4**	**4**	**0**	**5,123,400:51:0**	
1402	**99**	**224**	**20:03:26.400**	**20DI5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,123,400:66:0**	
1403	**99**	**224**	**20:03:29.733**	**20DI5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,123,400:71:0**	
1404	**99**	**224**	**20:03:35.733**	**20DI4A**	**37IST**	**1,2,0,OFF,0,1,2**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**3R0**	**4**	**0**	**5,123,400:80:0**	
1405	**99**	**224**	**20:04:47.732**	**22NNGLOBAL01-**		**-----STOP-------**		**3R0**	**4**	**0**	**: :**	
1406	**99**	**224**	**20:04:47.732**	**22ENGLOBAL01***		**-----START------**		**3R0**	**4**	**0**	**: :**	
1407	99	224	20:05:32.400	175DI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R0	4	0	5,123,402:73:0	
1408	99	224	20:05:32.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4463.65 +/-	3R0	4	0	5,123,402:73:0	
1409	99	224	20:05:33.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4463.77 +/-	3R0	4	0	5,123,402:75:1	
1410	99	224	20:05:35.066	117DI	**CSMOS**	GS	***** GROUP START CSMOS	3R0	4	0	5,123,402:77:0	
1411	99	224	20:05:39.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4465.00 +/-	3R0	4	0	5,123,402:83:0	
1412	99	224	20:05:39.733	127DI	NIMSTAB	GS	%%%%% GROUP START TAB	3R0	4	0	5,123,402:84:0	
1413	**99**	**224**	**20:05:39.733**	**127DI4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**5,123,402:84:0**	
1414	99	224	20:05:40.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4465.06 +/-	3R3	4	0	5,123,402:84:8	
1415	**99**	**224**	**20:05:40.400**	**127DI4B**	**37ETB**	**07,C7,02,3C,00,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**5,123,402:85:0**	
1416	99	224	20:05:41.066	175DI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	5,123,402:86:0	
1417	99	224	20:05:41.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4464.94 +/-	3R3	4	0	5,123,402:86:9	
1418	99	224	20:05:41.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4464.94 +/-	3R3	4	0	5,123,402:86:9	
1419	99	224	20:05:43.066	165DI4B	7VECT		Inert vect update UTC	3R3	4	0	5,123,402:89:0	
1420	99	224	20:05:44.400	117DI105A106A4A	**7STRP**	**-0.017802,0.0,0,**	**Slew =,0.03**	3R3	4	0	5,123,403:00:0	
1421	99	224	20:05:48.400	127DI11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	5,123,403:06:0	
1422	**99**	**224**	**20:11:43.733**	**125EX4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**5,123,408:84:0**	
1423	99	224	20:11:43.733	125EX11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	5,123,408:84:0	
1424	99	224	20:11:43.733	125EX	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	5,123,408:84:0	
1425	99	224	20:15:42.400	117DI105A106A4B	**7STRP**	**0.017802,-0.008,**	**Slew =12.01**	2R3	4	0	5,123,412:78:0	
1426	**99**	**224**	**20:15:46.400**	**125EY4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**5,123,412:84:0**	
1427	99	224	20:15:46.400	125EY11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	5,123,412:84:0	
1428	99	224	20:15:46.400	125EY	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	5,123,412:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	99	224	20:15:55.733	117DI105A106A4C	**7STRP**	**-0.017802,0.0,0,**	**Slew =,0.03**	3R3	4	0	5,123,413:07:0	
1430	99	224	20:21:50.400	125EZ	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	5,123,418:84:0	
1431	99	224	20:21:50.400	125EZ11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	5,123,418:84:0	
1432	**99**	**224**	**20:21:50.400**	**125EZ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**5,123,418:84:0**	
1433	**99**	**224**	**20:25:53.066**	**125FI4A**	**37IST**	**0,2,1,OFF,1,1,1**	**OPCALGain State 4**	**4R3**	**4**	**0**	**5,123,422:84:0**	
1434	99	224	20:25:53.066	125FI11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	5,123,422:84:0	
1435	99	224	20:25:53.066	127FI	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,123,422:84:0	
1436	99	224	20:25:53.066	125FI	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	5,123,422:84:0	
1437	**99**	**224**	**20:25:53.733**	**127FI4A**	**37ETB**	**07,C7,31,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,123,422:85:0**	
1438	99	224	20:25:53.733	117DI11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,123,422:85:0	
1439	**99**	**224**	**20:26:01.732**	**22ENGLOBAL01***		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1440	99	224	20:26:01.733	127FI11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,123,423:06:0	
1441	99	224	20:27:59.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4151.49 +/-	4R3	4	0	5,123,425:00:0	
1442	99	224	20:27:59.066	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,123,425:00:0	
1443	99	224	20:27:59.066	175DI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	5,123,425:00:0	
1444	99	224	20:28:00.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4151.43 +/-	4R3	4	0	5,123,425:01:8	
1445	**99**	**224**	**20:36:08.399**	**22NNWHTOVL02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1446	**99**	**224**	**20:37:15.733**	**20DK5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**5,123,434:16:0**	
1447	**99**	**224**	**20:37:19.066**	**20DK5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**5,123,434:21:0**	
1448	**99**	**224**	**20:37:29.066**	**20DK6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**5,123,434:36:0**	
1449	**99**	**224**	**20:37:39.066**	**20DK6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**5,123,434:51:0**	
1450	**99**	**224**	**20:37:49.066**	**20DK5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,123,434:66:0**	
1451	**99**	**224**	**20:37:52.400**	**20DK5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,123,434:71:0**	
1452	**99**	**224**	**20:37:58.400**	**20DK4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,123,434:80:0**	
1453	**99**	**224**	**20:39:10.399**	**22NNWHTOVL02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1454	99	224	20:40:06.400	165DK4A	**7SCAN**	**NORM,52.285,21.7**	**Check S/P Position**	2R0	4	0	5,123,436:90:0	
1455	**99**	**224**	**20:40:11.066**	**22JNWHTOVL02-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1456	99	224	20:41:03.066	125DK	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,123,437:84:0	
1457	**99**	**224**	**20:41:03.066**	**125DK4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,123,437:84:0**	
1458	**99**	**224**	**20:42:03.733**	**125DK4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**5,123,438:84:0**	
1459	99	224	20:42:03.733	125DK11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	5,123,438:84:0	
1460	99	224	20:43:57.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4151.43 +/-	2R0	4	0	5,123,440:73:0	
1461	99	224	20:43:57.733	175DK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	5,123,440:73:0	
1462	99	224	20:43:59.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4151.55 +/-	2R0	4	0	5,123,440:75:1	
1463	99	224	20:44:00.400	117DK	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	5,123,440:77:0	
1464	99	224	20:44:04.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4152.78 +/-	2R0	4	0	5,123,440:83:0	
1465	99	224	20:44:05.066	127DK	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,123,440:84:0	
1466	**99**	**224**	**20:44:05.066**	**127DK4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,123,440:84:0**	
1467	99	224	20:44:05.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4152.84 +/-	2R3	4	0	5,123,440:84:8	
1468	**99**	**224**	**20:44:05.733**	**127DK4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,123,440:85:0**	
1469	99	224	20:44:06.400	175DK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	5,123,440:86:0	
1470	99	224	20:44:07.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4152.72 +/-	2R3	4	0	5,123,440:86:9	
1471	99	224	20:44:07.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4152.72 +/-	2R3	4	0	5,123,440:86:9	
1472	**99**	**224**	**20:44:07.733**	**22JNWHTOVL02-**	**NIMPBK**	**301DK**	**JUPITER WHITE OVAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1473	99	224	20:44:08.400	165DK4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,440:89:0	
1474	99	224	20:44:09.733	117DK105A106A4A	**7STRP**	**0.032511,0.0,0,0**	**Slew =,0.03**	2R3	4	0	5,123,441:00:0	
1475	99	224	20:44:13.733	127DK11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,123,441:06:0	
1476	**99**	**224**	**20:54:20.399**	**22JNWHTOVL02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1477	**99**	**224**	**20:59:27.066**	**22JNWHTOVL02-**	**DESELC**	**300DK**	**JUPITER WHITE OVAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1478	99	224	21:01:17.066	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,457:85:0	
1479	99	224	21:01:17.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3911.30 +/-	2R3	4	0	5,123,457:85:0	
1480	99	224	21:01:17.066	175DK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,123,457:85:0	
1481	99	224	21:01:18.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3911.24 +/-	2R3	4	0	5,123,457:86:8	
1482	99	224	21:02:18.400	117DK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,123,458:86:0	
1483	**99**	**224**	**21:06:28.399**	**22NNDKSPOT01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	99	224	21:07:24.400	165DL4A	**7SCAN**	**NORM,58.182,19.3**	**Check S/P Position**	2R3	4	0	5,123,463:90:0	
1485	**99**	**224**	**21:07:35.733**	**20DL5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,123,464:16:0**	
1486	**99**	**224**	**21:07:39.066**	**20DL5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,123,464:21:0**	
1487	**99**	**224**	**21:07:49.066**	**20DL6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,123,464:36:0**	
1488	**99**	**224**	**21:07:59.066**	**20DL6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,123,464:51:0**	
1489	**99**	**224**	**21:08:09.066**	**20DL5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,123,464:66:0**	
1490	**99**	**224**	**21:08:12.400**	**20DL5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,123,464:71:0**	
1491	**99**	**224**	**21:08:18.400**	**20DL4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,123,464:80:0**	
1492	**99**	**224**	**21:09:30.399**	**22NNDKSPOT01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1493	**99**	**224**	**21:09:30.399**	**22JNDKSPOT01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1494	**99**	**224**	**21:10:22.400**	**127DL4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,123,466:84:0**	
1495	99	224	21:10:22.400	127DL	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	5,123,466:84:0	
1496	**99**	**224**	**21:10:23.066**	**127DL4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,123,466:85:0**	
1497	99	224	21:10:31.066	127DL11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,123,467:06:0	
1498	99	224	21:11:15.733	175DL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,123,467:73:0	
1499	99	224	21:11:15.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3911.24 +/-	2R3	4	0	5,123,467:73:0	
1500	99	224	21:11:17.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3911.36 +/-	2R3	4	0	5,123,467:75:1	
1501	99	224	21:11:18.400	117DL	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,123,467:77:0	
1502	99	224	21:11:22.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3912.59 +/-	2R3	4	0	5,123,467:83:0	
1503	99	224	21:11:23.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3912.65 +/-	2R3	4	0	5,123,467:84:8	
1504	99	224	21:11:24.400	175DL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	5,123,467:86:0	
1505	99	224	21:11:25.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3912.53 +/-	2R3	4	0	5,123,467:86:9	
1506	99	224	21:11:25.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3912.53 +/-	2R3	4	0	5,123,467:86:9	
1507	99	224	21:11:26.400	165DL4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,467:89:0	
1508	99	224	21:11:27.733	117DL105A106A4A	**7STRP**	**0.03081,0.0,0,0,**	**Slew =,0.03**	2R3	4	0	5,123,468:00:0	
1509	**99**	**224**	**21:12:23.733**	**125DL4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**5,123,468:84:0**	
1510	99	224	21:12:23.733	125DL	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	5,123,468:84:0	
1511	99	224	21:12:23.733	125DL11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	5,123,468:84:0	
1512	99	224	21:14:38.400	488AE6B	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,471:13:0	
1513	**99**	**224**	**21:17:30.400**	**22JNDKSPOT01-**	**NIMPBK**	**301DL**	**JUPITER DARK SPOT OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1514	**99**	**224**	**21:21:38.399**	**22JNDKSPOT01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1515	99	224	21:28:35.733	117DL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,123,484:86:0	
1516	**99**	**224**	**21:28:39.066**	**22JNDKSPOT01-**	**DESELC**	**300DL**	**JUPITER DARK SPOT OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1517	99	224	21:29:55.066	175DL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,123,486:23:0	
1518	99	224	21:29:55.066	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,486:23:0	
1519	99	224	21:29:55.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3652.36 +/-	2R3	4	0	5,123,486:23:0	
1520	99	224	21:29:56.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3652.30 +/-	2R3	4	0	5,123,486:24:8	
1521	99	224	22:05:02.400	165IG4A	7SCAN	NORM,39.713,17.3	Check S/P Position	2R3	4	0	5,123,520:90:0	
1522	99	224	22:08:54.400	175IF422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,123,524:74:0	
1523	99	224	22:08:54.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3652.30 +/-	2R3	4	0	5,123,524:74:0	
1524	99	224	22:08:55.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3652.42 +/-	2R3	4	0	5,123,524:76:1	
1525	99	224	22:09:01.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3653.66 +/-	2R3	4	0	5,123,524:84:0	
1526	99	224	22:09:02.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *3653.72 +/-	2R3	4	0	5,123,524:85:8	
1527	99	224	22:09:07.066	175IF176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,123,525:02:0	
1528	99	224	22:09:07.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 3587.72 +/-	2R3	4	0	5,123,525:02:7	
1529	99	224	22:09:07.533		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *3587.72 +/-	2R3	4	0	5,123,525:02:7	
1530	99	224	22:09:11.066		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *3500.76 +/-	2R3	4	0	5,123,525:08:0	
1531	99	224	22:09:11.066	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,525:08:0	
1532	99	224	22:09:13.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3489.26 +/-	2R3	4	0	5,123,525:12:1	
1533	99	224	22:29:18.400	488AF6A	6TMSED	NORM,FL4	Sci, Eng, and D/L Chan	2R3	4	0	5,123,544:90:0	
1534	99	224	23:44:59.733	480SF6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	2R3	4	0	5,123,619:77:0	
1535	99	224	23:51:39.733	480SF6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	2R3	4	0	5,123,626:40:0	
1536	99	224	23:59:49.066	488AF6B	6TMSED	FILL,FL4	Sci, Eng, and D/L Chan	2R3	4	0	5,123,634:46:0	
1537	99	225	00:04:21.066	165CA4A	7SCAN	NORM,50.964,20.7	Check S/P Position	2R3	4	0	5,123,638:90:0	
1538	99	225	00:07:22.400	165CA4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,641:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	99	225	00:33:28.400	488AF6C	6TMSED	NORM,FL4	Sci, Eng, and D/L Chan	2R3	4	0	5,123,667:72:0	
1540	99	225	00:43:42.400	488AF6D	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,677:83:0	
1541	99	225	00:57:56.400	165CB4A	7SCAN	NORM,55.668,21.8	Check S/P Position	2R3	4	0	5,123,691:90:0	
1542	99	225	00:58:56.400	165CB4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,692:89:0	
1543	99	225	00:59:59.733	488AF6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,694:02:0	
1544	99	225	01:30:09.733	165CB4C	7VECT		Inert vect update UTC	2R3	4	0	5,123,723:78:0	
1545	99	225	02:01:38.333	165IH4A	7SCAN	NORM,61.325,22.8	Check S/P Position	2R3	4	0	5,123,754:90:0	
1546	99	225	02:02:28.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3489.26 +/-	2R3	4	0	5,123,755:74:0	
1547	99	225	02:02:28.333	175IG422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,123,755:74:0	
1548	99	225	02:02:29.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3489.38 +/-	2R3	4	0	5,123,755:76:1	
1549	99	225	02:02:35.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3490.62 +/-	2R3	4	0	5,123,755:84:0	
1550	99	225	02:02:36.200		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *3490.68 +/-	2R3	4	0	5,123,755:85:8	
1551	99	225	02:02:41.000	165CM4A	7SCAN	NORM,61.376,22.9	Check S/P Position	2R3	4	0	5,123,756:02:0	
1552	99	225	02:02:41.000	175IG176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,123,756:02:0	
1553	99	225	02:02:41.466		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *3424.68 +/-	2R3	4	0	5,123,756:02:7	
1554	99	225	02:02:41.466		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 3424.68 +/- 1	2R3	4	0	5,123,756:02:7	
1555	99	225	02:02:45.000		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *3337.72 +/- 1	2R3	4	0	5,123,756:08:0	
1556	99	225	02:02:45.000	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,756:08:0	
1557	99	225	02:02:47.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3326.22 +/- 1	2R3	4	0	5,123,756:12:1	
1558	99	225	02:03:39.000	165CM4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,756:89:0	
1559	99	225	02:08:51.666	20MC6A	6CKSUM	MAG,4040,46F0		2R3	4	0	5,123,762:12:0	
1560	99	225	03:12:24.333	165CM4C	7VECT		Inert vect update UTC	2R3	4	0	5,123,824:89:0	
1561	99	225	05:02:37.666	165II4A	7SCAN	NORM,76.513,24.8	Check S/P Position	2R3	4	0	5,123,933:90:0	
1562	99	225	05:06:35.000	118II	**SMOS**	GS		2R3	4	0	5,123,937:82:0	
1563	99	225	05:06:39.666	165II4B	7VECT		Inert vect update UTC	2R3	4	0	5,123,937:89:0	
1564	99	225	05:06:45.000	118II110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2R3	4	0	5,123,938:06:0	
1565	99	225	05:07:03.000	175IH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,123,938:33:0	
1566	99	225	05:07:03.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3326.22 +/- 1	2R3	4	0	5,123,938:33:0	
1567	99	225	05:07:04.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3326.34 +/- 1	2R3	4	0	5,123,938:35:1	
1568	99	225	05:07:09.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3327.58 +/- 1	2R3	4	0	5,123,938:43:0	
1569	99	225	05:07:10.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3327.64 +/- 1	2R3	4	0	5,123,938:44:8	
1570	99	225	05:07:14.333	175IH176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,123,938:50:0	
1571	99	225	05:07:14.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3321.34 +/- 1	2R3	4	0	5,123,938:50:8	
1572	99	225	05:07:14.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3321.34 +/- 1	2R3	4	0	5,123,938:50:8	
1573	99	225	05:07:15.666	118II11A	**SMOS**	GE		2R3	4	0	5,123,938:52:0	
1574	99	225	05:07:41.666	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,123,939:00:0	
1575	99	225	05:07:41.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *3227.12 +/- 1	2R3	4	0	5,123,939:00:0	
1576	99	225	05:07:42.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3226.12 +/- 1	2R3	4	0	5,123,939:01:8	
1577	99	225	05:15:00.333	488AG6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	5,123,946:21:0	
1578	99	225	07:15:00.333	20TS4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R3	4	0	5,124,064:83:0	
1579	99	225	07:15:50.333	20TS4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,124,065:67:0	
1580	99	225	07:15:58.333	20TS4F	7STAR	1,1610,278.815,3	Star catalog update	2R3	4	0	5,124,065:79:0	
1581	99	225	07:16:00.333	20TS4G	7STAR	2,375,305.427,-5	Star catalog update	2R3	4	0	5,124,065:82:0	
1582	99	225	07:16:02.333	20TS4H	7STAR	3,317,120.456,-3	Star catalog update	2R3	4	0	5,124,065:85:0	
1583	99	225	07:16:04.333	20TS4I	7STAR	4,0,0.0,0.0	Star catalog update	2R3	4	0	5,124,065:88:0	
1584	99	225	07:16:06.333	20TS4J	7STAR	5,0,0.0,0.0	Star catalog update	2R3	4	0	5,124,066:00:0	
1585	99	225	07:16:08.333	20TS4K	7STAR	6,0,0.0,0.0	Star catalog update	2R3	4	0	5,124,066:03:0	
1586	99	225	07:47:26.333	165IJ4A	7SCAN	NORM,90.841999,2	Check S/P Position	2R3	4	0	5,124,096:90:0	
1587	99	225	07:51:19.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3226.12 +/- 1	2R3	4	0	5,124,100:75:0	
1588	99	225	07:51:19.000	175II422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,100:75:0	
1589	99	225	07:51:20.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3226.24 +/- 1	2R3	4	0	5,124,100:77:1	
1590	99	225	07:51:21.666	118IJ	**SMOS**	GS		2R3	4	0	5,124,100:79:0	
1591	99	225	07:51:25.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3227.47 +/- 1	2R3	4	0	5,124,100:85:0	
1592	99	225	07:51:26.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3227.53 +/- 1	2R3	4	0	5,124,100:86:8	
1593	99	225	07:51:30.333	175II176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,101:01:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	99	225	07:51:30.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3221.23 +/- 1	2R3	4	0	5,124,101	01:8
1595	99	225	07:51:30.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3221.23 +/- 1	2R3	4	0	5,124,101	01:8
1596	99	225	07:51:31.666	118IJ110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,101	03:0
1597	99	225	07:51:47.000	118IJ110A111A4B	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,101	26:0
1598	99	225	07:52:02.333	118IJ110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,101	49:0
1599	99	225	07:52:17.666	118IJ110A111A4D	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,101	72:0
1600	99	225	07:52:33.000	118IJ110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,102	04:0
1601	99	225	07:52:48.333	118IJ110A111A4F	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,102	27:0
1602	99	225	07:53:03.666	118IJ110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,102	50:0
1603	99	225	07:53:19.000	118IJ11A	**SMOS**	GE		2R3	4	0	5,124,102	73:0
1604	99	225	07:53:30.333	165IK4A	7SCAN	NORM,89.801999,2	Check S/P Position	2R3	4	0	5,124,102	90:0
1605	99	225	07:53:31.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2798.89 +/- 1	2R3	4	0	5,124,103	00:0
1606	99	225	07:53:31.000	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,103	00:0
1607	99	225	07:53:32.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2797.89 +/- 1	2R3	4	0	5,124,103	01:8
1608	99	225	07:55:21.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2797.89 +/- 1	2R3	4	0	5,124,104	75:0
1609	99	225	07:55:21.666	175IJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,104	75:0
1610	99	225	07:55:23.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2798.01 +/- 1	2R3	4	0	5,124,104	77:1
1611	99	225	07:55:24.333	118IK	**SMOS**	GS		2R3	4	0	5,124,104	79:0
1612	99	225	07:55:28.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2799.24 +/- 1	2R3	4	0	5,124,104	85:0
1613	99	225	07:55:29.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2799.30 +/- 1	2R3	4	0	5,124,104	86:8
1614	99	225	07:55:33.000	175IJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,105	01:0
1615	99	225	07:55:33.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2793.00 +/- 1	2R3	4	0	5,124,105	01:8
1616	99	225	07:55:33.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2793.00 +/- 1	2R3	4	0	5,124,105	01:8
1617	99	225	07:55:34.333	118IK110A111A4A	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,105	03:0
1618	99	225	07:55:49.666	118IK110A111A4B	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,105	26:0
1619	99	225	07:56:05.000	118IK110A111A4C	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,105	49:0
1620	99	225	07:56:20.333	118IK110A111A4D	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,105	72:0
1621	99	225	07:56:35.666	118IK110A111A4E	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,106	04:0
1622	99	225	07:56:51.000	118IK110A111A4F	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,106	27:0
1623	99	225	07:57:06.333	118IK110A111A4G	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,106	50:0
1624	99	225	07:57:21.666	118IK11A	**SMOS**	GE		2R3	4	0	5,124,106	73:0
1625	99	225	07:57:33.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2370.66 +/- 1	2R3	4	0	5,124,107	00:0
1626	99	225	07:57:33.666	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,107	00:0
1627	99	225	07:57:34.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2369.66 +/- 1	2R3	4	0	5,124,107	01:8
1628	99	225	08:02:36.333	165IL4A	7SCAN	NORM,89.216,23.3	Check S/P Position	2R3	4	0	5,124,111	90:0
1629	99	225	08:04:27.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2369.66 +/- 1	2R3	4	0	5,124,113	75:0
1630	99	225	08:04:27.666	175IK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,113	75:0
1631	99	225	08:04:29.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2369.78 +/- 1	2R3	4	0	5,124,113	77:1
1632	99	225	08:04:30.333	118IL	**SMOS**	GS		2R3	4	0	5,124,113	79:0
1633	99	225	08:04:34.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2371.02 +/- 1	2R3	4	0	5,124,113	85:0
1634	99	225	08:04:35.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2371.08 +/- 1	2R3	4	0	5,124,113	86:8
1635	99	225	08:04:39.000	175IK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,114	01:0
1636	99	225	08:04:39.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2364.78 +/- 1	2R3	4	0	5,124,114	01:8
1637	99	225	08:04:39.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2364.78 +/- 1	2R3	4	0	5,124,114	01:8
1638	99	225	08:04:40.333	118IL110A111A4A	7STRP	0.007,-0.00025,4	Slew =,3.51	2R3	4	0	5,124,114	03:0
1639	99	225	08:04:55.666	118IL110A111A4B	7STRP	-0.007,0.00025,0	Slew =,3.51	2R3	4	0	5,124,114	26:0
1640	99	225	08:05:11.000	118IL110A111A4C	7STRP	0.007,-0.00025,4	Slew =,3.51	2R3	4	0	5,124,114	49:0
1641	99	225	08:05:26.333	118IL110A111A4D	7STRP	-0.007,0.00025,0	Slew =,3.51	2R3	4	0	5,124,114	72:0
1642	99	225	08:05:41.666	118IL110A111A4E	7STRP	0.007,-0.00025,4	Slew =,3.51	2R3	4	0	5,124,115	04:0
1643	99	225	08:05:57.000	118IL110A111A4F	7STRP	-0.007,0.00025,0	Slew =,3.51	2R3	4	0	5,124,115	27:0
1644	99	225	08:06:12.333	118IL110A111A4G	7STRP	0.007,-0.00025,4	Slew =,3.51	2R3	4	0	5,124,115	50:0
1645	99	225	08:06:27.666	118IL11A	**SMOS**	GE		2R3	4	0	5,124,115	73:0
1646	99	225	08:06:39.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1942.43 +/- 1	2R3	4	0	5,124,116	00:0
1647	99	225	08:06:39.666	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,116	00:0
1648	99	225	08:06:40.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1941.43 +/- 1	2R3	4	0	5,124,116	01:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	99	225	08:14:44.333	165IM4A	7SCAN	NORM,91.709,25.9	Check S/P Position	2R3	4	0	5,124,123	90:0
1650	99	225	08:16:35.666	175IL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,125	75:0
1651	99	225	08:16:35.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1941.43 +/- 1	2R3	4	0	5,124,125	75:0
1652	99	225	08:16:37.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1941.55 +/- 1	2R3	4	0	5,124,125	77:1
1653	99	225	08:16:38.333	118IM	**SMOS**	GS		2R3	4	0	5,124,125	79:0
1654	99	225	08:16:42.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1942.79 +/- 1	2R3	4	0	5,124,125	85:0
1655	99	225	08:16:43.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1942.85 +/- 1	2R3	4	0	5,124,125	86:8
1656	99	225	08:16:47.000	175IL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,126	01:0
1657	99	225	08:16:47.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1936.55 +/- 1	2R3	4	0	5,124,126	01:8
1658	99	225	08:16:47.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1936.55 +/- 1	2R3	4	0	5,124,126	01:8
1659	99	225	08:16:48.333	118IM110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,126	03:0
1660	99	225	08:17:03.666	118IM110A111A4B	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,126	26:0
1661	99	225	08:17:19.000	118IM110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,126	49:0
1662	99	225	08:17:34.333	118IM110A111A4D	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,126	72:0
1663	99	225	08:17:49.666	118IM110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,127	04:0
1664	99	225	08:18:05.000	118IM110A111A4F	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,127	27:0
1665	99	225	08:18:20.333	118IM110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,127	50:0
1666	99	225	08:18:35.666	118IM11A	**SMOS**	GE		2R3	4	0	5,124,127	73:0
1667	99	225	08:18:47.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1514.20 +/- 1	2R3	4	0	5,124,128	00:0
1668	99	225	08:18:47.666	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,128	00:0
1669	99	225	08:18:48.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1513.20 +/- 1	2R3	4	0	5,124,128	01:8
1670	99	225	08:23:50.333	165IN4A	7SCAN	NORM,90.863999,2	Check S/P Position	2R3	4	0	5,124,132	90:0
1671	99	225	08:25:41.666	175IM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,134	75:0
1672	99	225	08:25:41.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1513.20 +/- 1	2R3	4	0	5,124,134	75:0
1673	99	225	08:25:43.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1513.32 +/- 1	2R3	4	0	5,124,134	77:1
1674	99	225	08:25:44.333	118IN	**SMOS**	GS		2R3	4	0	5,124,134	79:0
1675	99	225	08:25:48.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1514.56 +/- 1	2R3	4	0	5,124,134	85:0
1676	99	225	08:25:49.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1514.62 +/- 1	2R3	4	0	5,124,134	86:8
1677	99	225	08:25:53.000	175IM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,135	01:0
1678	99	225	08:25:53.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1508.32 +/- 1	2R3	4	0	5,124,135	01:8
1679	99	225	08:25:53.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1508.32 +/- 1	2R3	4	0	5,124,135	01:8
1680	99	225	08:25:54.333	118IN110A111A4A	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,135	03:0
1681	99	225	08:26:09.666	118IN110A111A4B	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,135	26:0
1682	99	225	08:26:25.000	118IN110A111A4C	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,135	49:0
1683	99	225	08:26:40.333	118IN110A111A4D	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,135	72:0
1684	99	225	08:26:55.666	118IN110A111A4E	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,136	04:0
1685	99	225	08:27:11.000	118IN110A111A4F	7STRP	-0.007,0.00092,0	Slew =,3.51	2R3	4	0	5,124,136	27:0
1686	99	225	08:27:26.333	118IN110A111A4G	7STRP	0.0069,-0.00091,	Slew =,3.51	2R3	4	0	5,124,136	50:0
1687	99	225	08:27:41.666	118IN11A	**SMOS**	GE		2R3	4	0	5,124,136	73:0
1688	99	225	08:27:53.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1085.97 +/- 1	2R3	4	0	5,124,137	00:0
1689	99	225	08:27:53.666	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,137	00:0
1690	99	225	08:27:54.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1084.97 +/- 1	2R3	4	0	5,124,137	01:8
1691	99	225	08:35:10.333	488AG6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	5,124,144	18:0
1692	99	225	08:40:01.000	165IO4A	7SCAN	NORM,92.551999,2	Check S/P Position	2R3	4	0	5,124,148	90:0
1693	99	225	08:41:52.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1084.97 +/- 1	2R3	4	0	5,124,150	75:0
1694	99	225	08:41:52.333	175IN422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,150	75:0
1695	99	225	08:41:53.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1085.09 +/- 1	2R3	4	0	5,124,150	77:1
1696	99	225	08:41:55.000	118IO	**SMOS**	GS		2R3	4	0	5,124,150	79:0
1697	99	225	08:41:59.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1086.33 +/- 1	2R3	4	0	5,124,150	85:0
1698	99	225	08:42:00.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1086.39 +/- 1	2R3	4	0	5,124,150	86:8
1699	99	225	08:42:03.666	175IN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,151	01:0
1700	99	225	08:42:04.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1080.09 +/- 1	2R3	4	0	5,124,151	01:8
1701	99	225	08:42:04.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1080.09 +/- 1	2R3	4	0	5,124,151	01:8
1702	99	225	08:42:05.000	118IO110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,151	03:0
1703	99	225	08:42:20.333	118IO110A111A4B	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,151	26:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	99	225	08:42:35.666	118IO110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,151:49:0	
1705	99	225	08:42:51.000	118IO110A111A4D	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,151:72:0	
1706	99	225	08:43:06.333	118IO110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,152:04:0	
1707	99	225	08:43:21.666	118IO110A111A4F	7STRP	-0.0071,0.0005,0	Slew =,3.51	2R3	4	0	5,124,152:27:0	
1708	99	225	08:43:37.000	118IO110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,152:50:0	
1709	99	225	08:43:52.333	118IO11A	**SMOS**	GE		2R3	4	0	5,124,152:73:0	
1710	99	225	08:44:04.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 657.74 +/- 1	2R3	4	0	5,124,153:00:0	
1711	99	225	08:44:04.333	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,153:00:0	
1712	99	225	08:44:05.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 656.74 +/- 1	2R3	4	0	5,124,153:01:8	
1713	99	225	08:54:10.333	165IP4A	7SCAN	NORM,90.309999,2	Check S/P Position	2R3	4	0	5,124,162:90:0	
1714	99	225	08:56:01.666	175IO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	5,124,164:75:0	
1715	99	225	08:56:01.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 656.74 +/- 1	2R3	4	0	5,124,164:75:0	
1716	99	225	08:56:03.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 656.86 +/- 1	2R3	4	0	5,124,164:77:1	
1717	99	225	08:56:04.333	118IP	**SMOS**	GS		2R3	4	0	5,124,164:79:0	
1718	99	225	08:56:08.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 658.10 +/- 1	2R3	4	0	5,124,164:85:0	
1719	99	225	08:56:09.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 658.16 +/- 1	2R3	4	0	5,124,164:86:8	
1720	99	225	08:56:13.000	175IO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,165:01:0	
1721	99	225	08:56:13.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 651.86 +/- 1	2R3	4	0	5,124,165:01:8	
1722	99	225	08:56:13.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC * 651.86 +/- 1	2R3	4	0	5,124,165:01:8	
1723	99	225	08:56:14.333	118IP110A111A4A	7STRP	0.0069,-0.00065,	Slew =,3.51	2R3	4	0	5,124,165:03:0	
1724	99	225	08:56:29.666	118IP110A111A4B	7STRP	-0.007,0.00065,0	Slew =,3.51	2R3	4	0	5,124,165:26:0	
1725	99	225	08:56:45.000	118IP110A111A4C	7STRP	0.0069,-0.00065,	Slew =,3.51	2R3	4	0	5,124,165:49:0	
1726	99	225	08:57:00.333	118IP110A111A4D	7STRP	-0.007,0.00065,0	Slew =,3.51	2R3	4	0	5,124,165:72:0	
1727	99	225	08:57:15.666	118IP110A111A4E	7STRP	0.0069,-0.00065,	Slew =,3.51	2R3	4	0	5,124,166:04:0	
1728	99	225	08:57:31.000	118IP110A111A4F	7STRP	-0.007,0.00065,0	Slew =,3.51	2R3	4	0	5,124,166:27:0	
1729	99	225	08:57:46.333	118IP110A111A4G	7STRP	0.0069,-0.00065,	Slew =,3.51	2R3	4	0	5,124,166:50:0	
1730	99	225	08:58:01.666	118IP11A	**SMOS**	GE		2R3	4	0	5,124,166:73:0	
1731	99	225	08:58:13.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 229.51 +/- 1	2R3	4	0	5,124,167:00:0	
1732	99	225	08:58:13.666	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,167:00:0	
1733	99	225	08:58:14.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 228.51 +/- 1	2R3	4	0	5,124,167:01:8	
1734	99	225	08:59:27.666	465KG6A	6DTRN	CMD,6DTRN,465KG6	DMS TRACK TURNAROUND	2R3	4	0	5,124,168:20:0	
1735	99	225	08:59:27.666		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 228.51 +/- 1	2R3	4	0	5,124,168:20:0	
1736	99	225	08:59:27.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 228.51 +/- 1	2R3	4	0	5,124,168:20:0	
1737	99	225	08:59:29.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 228.63 +/- 1	2R3	4	0	5,124,168:22:1	
1738	99	225	08:59:34.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 229.87 +/- 1	2R3	4	0	5,124,168:30:0	
1739	99	225	08:59:35.533		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 229.93 +/- 1	2R3	4	0	5,124,168:31:8	
1740	99	225	08:59:36.933		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 229.81 +/- 1	2R3	4	0	5,124,168:33:9	
1741	99	225	09:01:44.600		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 1	2R3	4	0	5,124,170:43:4	
1742	99	225	09:01:45.800		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 1	2R3	4	0	5,124,170:45:2	
1743	99	225	09:01:45.800		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 1	2R3	4	0	5,124,170:45:2	
1744	99	225	09:01:47.200		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2R3	4	0	5,124,170:47:3	
1745	99	225	09:01:59.200		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2R3	4	0	5,124,170:65:3	
1746	99	225	09:02:00.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2R3	4	0	5,124,170:67:1	
1747	99	225	09:05:10.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2R3	4	0	5,124,173:79:0	
1748	99	225	09:05:10.333	465KH6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	2R3	4	0	5,124,173:79:0	
1749	99	225	09:05:17.000		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	2R3	4	0	5,124,173:89:0	
1750	99	225	09:05:17.666	165IQ4A	7SCAN	NORM,93.370999,2	Check S/P Position	2R3	4	0	5,124,173:90:0	
1751	99	225	09:05:18.400		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	2R3	4	0	5,124,174:00:1	
1752	99	225	09:05:18.400		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	2R3	4	0	5,124,174:00:1	
1753	99	225	09:06:19.000	465KH6B	6DMSC	RDY,1	DMS Control Tape stop	2R3	4	0	5,124,175:00:0	
1754	99	225	09:06:19.000		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC * 216.45 +/-	2R3	4	0	5,124,175:00:0	
1755	99	225	09:06:20.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 216.51 +/-	2R3	4	0	5,124,175:01:8	
1756	99	225	09:07:10.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 216.51 +/-	2R3	4	0	5,124,175:77:0	
1757	99	225	09:07:10.333	175IP422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,175:77:0	
1758	99	225	09:07:11.666	118IQ	**SMOS**	GS		2R3	4	0	5,124,175:79:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	99	225	09:07:17.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 216.51 +/-	2R3	4	0	5,124,175	87:0
1760	99	225	09:07:20.333	175IP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,176	01:0
1761	99	225	09:07:21.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 222.81 +/-	2R3	4	0	5,124,176	02:0
1762	99	225	09:07:21.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 222.81 +/-	2R3	4	0	5,124,176	02:0
1763	99	225	09:07:21.666	118IQ110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,176	03:0
1764	99	225	09:07:37.000	118IQ110A111A4B	7STRP	-0.00705,0.0005,	Slew =,3.51	2R3	4	0	5,124,176	26:0
1765	99	225	09:07:52.333	118IQ110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,176	49:0
1766	99	225	09:08:07.666	118IQ110A111A4D	7STRP	-0.00705,0.0005,	Slew =,3.51	2R3	4	0	5,124,176	72:0
1767	99	225	09:08:23.000	118IQ110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,177	04:0
1768	99	225	09:08:38.333	118IQ110A111A4F	7STRP	-0.00705,0.0005,	Slew =,3.51	2R3	4	0	5,124,177	27:0
1769	99	225	09:08:53.666	118IQ110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,177	50:0
1770	99	225	09:09:09.000	118IQ11A	**SMOS**	GE		2R3	4	0	5,124,177	73:0
1771	99	225	09:09:20.333	165IR4A	7SCAN	NORM,90.414,25.9	Check S/P Position	2R3	4	0	5,124,177	90:0
1772	99	225	09:09:21.000	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,178	00:0
1773	99	225	09:09:21.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 644.68 +/-	2R3	4	0	5,124,178	00:0
1774	99	225	09:09:22.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 645.68 +/-	2R3	4	0	5,124,178	01:8
1775	99	225	09:11:13.000	175IQ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,179	77:0
1776	99	225	09:11:13.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 645.68 +/-	2R3	4	0	5,124,179	77:0
1777	99	225	09:11:14.333	118IR	**SMOS**	GS		2R3	4	0	5,124,179	79:0
1778	99	225	09:11:19.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 645.68 +/-	2R3	4	0	5,124,179	87:0
1779	99	225	09:11:23.000	175IQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,180	01:0
1780	99	225	09:11:23.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 651.98 +/-	2R3	4	0	5,124,180	02:0
1781	99	225	09:11:23.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 651.98 +/-	2R3	4	0	5,124,180	02:0
1782	99	225	09:11:24.333	118IR110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,180	03:0
1783	99	225	09:11:39.666	118IR110A111A4B	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,180	26:0
1784	99	225	09:11:55.000	118IR110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,180	49:0
1785	99	225	09:12:10.333	118IR110A111A4D	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,180	72:0
1786	99	225	09:12:25.666	118IR110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,181	04:0
1787	99	225	09:12:41.000	118IR110A111A4F	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,181	27:0
1788	99	225	09:12:56.333	118IR110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,181	50:0
1789	99	225	09:13:11.666	118IR11A	**SMOS**	GE		2R3	4	0	5,124,181	73:0
1790	99	225	09:13:23.000	165IS4A	7SCAN	NORM,91.113,28.2	Check S/P Position	2R3	4	0	5,124,181	90:0
1791	99	225	09:13:23.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1073.86 +/-	2R3	4	0	5,124,182	00:0
1792	99	225	09:13:23.666	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,182	00:0
1793	99	225	09:13:24.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1074.86 +/-	2R3	4	0	5,124,182	01:8
1794	99	225	09:15:15.666	175IR422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,183	77:0
1795	99	225	09:15:15.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1074.86 +/-	2R3	4	0	5,124,183	77:0
1796	99	225	09:15:17.000	118IS	**SMOS**	GS		2R3	4	0	5,124,183	79:0
1797	99	225	09:15:22.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1074.86 +/-	2R3	4	0	5,124,183	87:0
1798	99	225	09:15:25.666	175IR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,184	01:0
1799	99	225	09:15:26.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1081.16 +/-	2R3	4	0	5,124,184	02:0
1800	99	225	09:15:26.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1081.16 +/-	2R3	4	0	5,124,184	02:0
1801	99	225	09:15:27.000	118IS110A111A4A	7STRP	0.007,-0.0007,46	Slew =,3.51	2R3	4	0	5,124,184	03:0
1802	99	225	09:15:42.333	118IS110A111A4B	7STRP	-0.0071,0.0007,0	Slew =,3.51	2R3	4	0	5,124,184	26:0
1803	99	225	09:15:57.666	118IS110A111A4C	7STRP	0.007,-0.0007,46	Slew =,3.51	2R3	4	0	5,124,184	49:0
1804	99	225	09:16:13.000	118IS110A111A4D	7STRP	-0.0071,0.0007,0	Slew =,3.51	2R3	4	0	5,124,184	72:0
1805	99	225	09:16:28.333	118IS110A111A4E	7STRP	0.007,-0.0007,46	Slew =,3.51	2R3	4	0	5,124,185	04:0
1806	99	225	09:16:43.666	118IS110A111A4F	7STRP	-0.0071,0.0007,0	Slew =,3.51	2R3	4	0	5,124,185	27:0
1807	99	225	09:16:59.000	118IS110A111A4G	7STRP	0.007,-0.0007,46	Slew =,3.51	2R3	4	0	5,124,185	50:0
1808	99	225	09:17:14.333	118IS11A	**SMOS**	GE		2R3	4	0	5,124,185	73:0
1809	99	225	09:17:25.666	165IT4A	7SCAN	NORM,91.540999,2	Check S/P Position	2R3	4	0	5,124,185	90:0
1810	99	225	09:17:26.333	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,186	00:0
1811	99	225	09:17:26.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1503.03 +/-	2R3	4	0	5,124,186	00:0
1812	99	225	09:17:27.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1504.03 +/-	2R3	4	0	5,124,186	01:8
1813	99	225	09:19:18.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1504.03 +/-	2R3	4	0	5,124,187	77:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1814	99	225	09:19:18.333	175IS422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,187:77:0	
1815	99	225	09:19:19.666	118IT	**SMOS**	GS		2R3	4	0	5,124,187:79:0	
1816	99	225	09:19:25.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1504.03 +/-	2R3	4	0	5,124,187:87:0	
1817	99	225	09:19:28.333	175IS176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,188:01:0	
1818	99	225	09:19:29.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1510.33 +/-	2R3	4	0	5,124,188:02:0	
1819	99	225	09:19:29.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1510.33 +/-	2R3	4	0	5,124,188:02:0	
1820	99	225	09:19:29.666	118IT110A111A4A	7STRP	0.007,-0.00068,4	Slew =,3.51	2R3	4	0	5,124,188:03:0	
1821	99	225	09:20:00.333	118IT110A111A4B	7STRP	-0.014001,0.0014	Slew =,3.51	2R3	4	0	5,124,188:49:0	
1822	99	225	09:20:15.666	118IT110A111A4C	7STRP	0.007,-0.00068,4	Slew =,3.51	2R3	4	0	5,124,188:72:0	
1823	99	225	09:20:46.333	118IT110A111A4D	7STRP	-0.014001,0.0014	Slew =,3.51	2R3	4	0	5,124,189:27:0	
1824	99	225	09:21:01.666	118IT110A111A4E	7STRP	0.007,-0.00068,4	Slew =,3.51	2R3	4	0	5,124,189:50:0	
1825	99	225	09:21:32.333	118IT110A111A4F	7STRP	-0.014001,0.0014	Slew =,3.51	2R3	4	0	5,124,190:05:0	
1826	99	225	09:21:47.666	118IT110A111A4G	7STRP	0.007,-0.00068,4	Slew =,3.51	2R3	4	0	5,124,190:28:0	
1827	99	225	09:22:18.333	118IT11A	**SMOS**	GE		2R3	4	0	5,124,190:74:0	
1828	99	225	09:22:29.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2145.49 +/-	2R3	4	0	5,124,191:00:0	
1829	99	225	09:22:29.666	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,191:00:0	
1830	99	225	09:22:30.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2146.49 +/-	2R3	4	0	5,124,191:01:8	
1831	99	225	09:26:31.666	165IU4A	7SCAN	NORM,91.346,27.9	Check S/P Position	2R3	4	0	5,124,194:90:0	
1832	99	225	09:28:24.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2146.49 +/-	2R3	4	0	5,124,196:77:0	
1833	99	225	09:28:24.333	175IT422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,196:77:0	
1834	99	225	09:28:25.666	118IU	**SMOS**	GS		2R3	4	0	5,124,196:79:0	
1835	99	225	09:28:31.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2146.49 +/-	2R3	4	0	5,124,196:87:0	
1836	99	225	09:28:34.333	175IT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,197:01:0	
1837	99	225	09:28:35.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2152.79 +/-	2R3	4	0	5,124,197:02:0	
1838	99	225	09:28:35.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2152.79 +/-	2R3	4	0	5,124,197:02:0	
1839	99	225	09:28:35.666	118IU110A111A4A	7STRP	0.007,-0.00065,4	Slew =,3.51	2R3	4	0	5,124,197:03:0	
1840	99	225	09:28:51.000	118IU110A111A4B	7STRP	-0.0071,0.00065,	Slew =,3.51	2R3	4	0	5,124,197:26:0	
1841	99	225	09:29:06.333	118IU110A111A4C	7STRP	0.007,-0.00065,4	Slew =,3.51	2R3	4	0	5,124,197:49:0	
1842	99	225	09:29:21.666	118IU110A111A4D	7STRP	-0.0071,0.00065,	Slew =,3.51	2R3	4	0	5,124,197:72:0	
1843	99	225	09:29:37.000	118IU110A111A4E	7STRP	0.007,-0.00065,4	Slew =,3.51	2R3	4	0	5,124,198:04:0	
1844	99	225	09:29:52.333	118IU110A111A4F	7STRP	-0.0071,0.00065,	Slew =,3.51	2R3	4	0	5,124,198:27:0	
1845	99	225	09:30:07.666	118IU110A111A4G	7STRP	0.007,-0.00065,4	Slew =,3.51	2R3	4	0	5,124,198:50:0	
1846	99	225	09:30:23.000	118IU11A	**SMOS**	GE		2R3	4	0	5,124,198:73:0	
1847	99	225	09:30:34.333	165IV4A	7SCAN	NORM,91.299,25.9	Check S/P Position	2R3	4	0	5,124,198:90:0	
1848	99	225	09:30:35.000	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,199:00:0	
1849	99	225	09:30:35.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2574.66 +/-	2R3	4	0	5,124,199:00:0	
1850	99	225	09:30:36.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2575.66 +/-	2R3	4	0	5,124,199:01:8	
1851	99	225	09:32:27.000	175IU422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,200:77:0	
1852	99	225	09:32:27.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2575.66 +/-	2R3	4	0	5,124,200:77:0	
1853	99	225	09:32:28.333	118IV	**SMOS**	GS		2R3	4	0	5,124,200:79:0	
1854	99	225	09:32:33.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2575.66 +/-	2R3	4	0	5,124,200:87:0	
1855	99	225	09:32:37.000	175IU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,201:01:0	
1856	99	225	09:32:37.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2581.96 +/-	2R3	4	0	5,124,201:02:0	
1857	99	225	09:32:37.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2581.96 +/-	2R3	4	0	5,124,201:02:0	
1858	99	225	09:32:38.333	118IV110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,201:03:0	
1859	99	225	09:32:53.666	118IV110A111A4B	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,201:26:0	
1860	99	225	09:33:09.000	118IV110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,201:49:0	
1861	99	225	09:33:24.333	118IV110A111A4D	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,201:72:0	
1862	99	225	09:33:39.666	118IV110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,202:04:0	
1863	99	225	09:33:55.000	118IV110A111A4F	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,202:27:0	
1864	99	225	09:34:10.333	118IV110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,202:50:0	
1865	99	225	09:34:25.666	118IV11A	**SMOS**	GE		2R3	4	0	5,124,202:73:0	
1866	99	225	09:34:37.000	165IW4A	7SCAN	NORM,95.455,25.0	Check S/P Position	2R3	4	0	5,124,202:90:0	
1867	99	225	09:34:37.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3003.84 +/-	2R3	4	0	5,124,203:00:0	
1868	99	225	09:34:37.666	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,203:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	99	225	09:34:38.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3004.84 +/-	2R3	4	0	5,124,203:01:8	
1870	99	225	09:36:33.000	118IW	**SMOS**	GS		2R3	4	0	5,124,204:82:0	
1871	99	225	09:36:43.000	118IW110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2R3	4	0	5,124,205:06:0	
1872	99	225	09:37:02.333	175IV422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,205:35:0	
1873	99	225	09:37:02.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3004.84 +/-	2R3	4	0	5,124,205:35:0	
1874	99	225	09:37:09.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3004.84 +/-	2R3	4	0	5,124,205:45:0	
1875	99	225	09:37:12.333	175IV176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,124,205:50:0	
1876	99	225	09:37:13.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3011.14 +/-	2R3	4	0	5,124,205:51:0	
1877	99	225	09:37:13.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3011.14 +/-	2R3	4	0	5,124,205:51:0	
1878	99	225	09:37:13.666	118IW11A	**SMOS**	GE		2R3	4	0	5,124,205:52:0	
1879	99	225	09:37:39.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3104.89 +/-	2R3	4	0	5,124,206:00:0	
1880	99	225	09:37:39.666	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,206:00:0	
1881	99	225	09:37:40.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3105.89 +/-	2R3	4	0	5,124,206:01:8	
1882	99	225	09:39:09.666	165IX4A	7SCAN	NORM,89.238,23.4	Check S/P Position	2R3	4	0	5,124,207:44:0	
1883	99	225	09:41:10.333	165IX4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,209:43:0	
1884	99	225	09:41:18.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3105.89 +/-	2R3	4	0	5,124,209:55:0	
1885	99	225	09:41:18.333	175IW422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,209:55:0	
1886	99	225	09:41:25.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3105.89 +/-	2R3	4	0	5,124,209:65:0	
1887	99	225	09:41:28.333	175IW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,209:70:0	
1888	99	225	09:41:29.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3112.19 +/-	2R3	4	0	5,124,209:71:0	
1889	99	225	09:41:29.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3112.19 +/-	2R3	4	0	5,124,209:71:0	
1890	99	225	09:41:42.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3159.06 +/-	2R3	4	0	5,124,210:00:0	
1891	99	225	09:41:42.333	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,210:00:0	
1892	99	225	09:41:43.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3160.06 +/-	2R3	4	0	5,124,210:01:8	
1893	99	225	09:41:46.333	118IX	**SMOS**	GS		2R3	4	0	5,124,210:06:0	
1894	99	225	09:41:59.666	118IX110A111A4A	7STRP	0.007,-0.00055,1	Slew =,3.51	2R3	4	0	5,124,210:26:0	
1895	99	225	09:42:33.666	175IX422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,210:77:0	
1896	99	225	09:42:33.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3160.06 +/-	2R3	4	0	5,124,210:77:0	
1897	99	225	09:42:40.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3160.06 +/-	2R3	4	0	5,124,210:87:0	
1898	99	225	09:42:43.666	175IX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,211:01:0	
1899	99	225	09:42:44.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3166.36 +/-	2R3	4	0	5,124,211:02:0	
1900	99	225	09:42:44.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3166.36 +/-	2R3	4	0	5,124,211:02:0	
1901	99	225	09:42:58.333	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,211:23:0	
1902	99	225	09:42:58.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3215.58 +/-	2R3	4	0	5,124,211:23:0	
1903	99	225	09:42:59.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3216.58 +/-	2R3	4	0	5,124,211:24:8	
1904	99	225	09:43:00.333	118IX11A	**SMOS**	GE		2R3	4	0	5,124,211:26:0	
1905	99	225	09:54:06.333	488AG6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R3	4	0	5,124,222:24:0	
1906	99	225	09:57:52.333	165IY4A	7SCAN	NORM,92.103999,2	Check S/P Position	2R3	4	0	5,124,225:90:0	
1907	99	225	09:59:45.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3216.58 +/-	2R3	4	0	5,124,227:77:0	
1908	99	225	09:59:45.000	175IY422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,227:77:0	
1909	99	225	09:59:46.333	118IY	**SMOS**	GS		2R3	4	0	5,124,227:79:0	
1910	99	225	09:59:51.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3216.58 +/-	2R3	4	0	5,124,227:87:0	
1911	99	225	09:59:55.000	175IY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,228:01:0	
1912	99	225	09:59:55.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3222.88 +/-	2R3	4	0	5,124,228:02:0	
1913	99	225	09:59:55.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3222.88 +/-	2R3	4	0	5,124,228:02:0	
1914	99	225	09:59:56.333	118IY110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,228:03:0	
1915	99	225	10:00:11.666	118IY110A111A4B	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,228:26:0	
1916	99	225	10:00:27.000	118IY110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,228:49:0	
1917	99	225	10:00:42.333	118IY110A111A4D	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,228:72:0	
1918	99	225	10:00:57.666	118IY110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,229:04:0	
1919	99	225	10:01:13.000	118IY110A111A4F	7STRP	-0.0069,0.0005,0	Slew =,3.51	2R3	4	0	5,124,229:27:0	
1920	99	225	10:01:28.333	118IY110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,229:50:0	
1921	99	225	10:01:43.666	118IY11A	**SMOS**	GE		2R3	4	0	5,124,229:73:0	
1922	99	225	10:01:55.666	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,230:00:0	
1923	99	225	10:01:55.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3644.76 +/-	2R3	4	0	5,124,230:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1924	99	225	10:01:56.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3645.76 +/-	2R3	4	0	5,124,230	01:8
1925	99	225	10:03:56.333	165IZ4A	7SCAN	NORM,90.785,27.8	Check S/P Position	2R3	4	0	5,124,231	90:0
1926	99	225	10:05:57.000	165IZ4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,233	89:0
1927	99	225	10:06:35.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3645.76 +/-	2R3	4	0	5,124,234	55:0
1928	99	225	10:06:35.000	175IZ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,234	55:0
1929	99	225	10:06:41.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3645.76 +/-	2R3	4	0	5,124,234	65:0
1930	99	225	10:06:45.000	175IZ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,234	70:0
1931	99	225	10:06:45.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3652.06 +/-	2R3	4	0	5,124,234	71:0
1932	99	225	10:06:45.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3652.06 +/-	2R3	4	0	5,124,234	71:0
1933	99	225	10:06:51.000	118IZ	**SMOS**	GS		2R3	4	0	5,124,234	79:0
1934	99	225	10:06:59.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3698.93 +/-	2R3	4	0	5,124,235	00:0
1935	99	225	10:06:59.000	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,235	00:0
1936	99	225	10:07:00.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3699.93 +/-	2R3	4	0	5,124,235	01:8
1937	99	225	10:07:01.000	118IZ110A111A4A	7STRP	0.007,-0.00039,2	Slew =,3.51	2R3	4	0	5,124,235	03:0
1938	99	225	10:07:50.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3699.93 +/-	2R3	4	0	5,124,235	77:0
1939	99	225	10:07:50.333	175JA422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,235	77:0
1940	99	225	10:07:57.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3699.93 +/-	2R3	4	0	5,124,235	87:0
1941	99	225	10:08:00.333	175JA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,236	01:0
1942	99	225	10:08:01.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3706.23 +/-	2R3	4	0	5,124,236	02:0
1943	99	225	10:08:01.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3706.23 +/-	2R3	4	0	5,124,236	02:0
1944	99	225	10:08:15.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3755.45 +/-	2R3	4	0	5,124,236	23:0
1945	99	225	10:08:15.000	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,236	23:0
1946	99	225	10:08:16.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3756.45 +/-	2R3	4	0	5,124,236	24:8
1947	99	225	10:08:17.000	118IZ110A111A4B	7STRP	-0.007,0.00039,0	Slew =,3.51	2R3	4	0	5,124,236	26:0
1948	99	225	10:09:06.333	175JB422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,237	09:0
1949	99	225	10:09:06.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3756.45 +/-	2R3	4	0	5,124,237	09:0
1950	99	225	10:09:13.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3756.45 +/-	2R3	4	0	5,124,237	19:0
1951	99	225	10:09:16.333	175JB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,237	24:0
1952	99	225	10:09:17.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3762.75 +/-	2R3	4	0	5,124,237	25:0
1953	99	225	10:09:17.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3762.75 +/-	2R3	4	0	5,124,237	25:0
1954	99	225	10:09:31.000	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,237	46:0
1955	99	225	10:09:31.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3811.97 +/-	2R3	4	0	5,124,237	46:0
1956	99	225	10:09:32.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3812.97 +/-	2R3	4	0	5,124,237	47:8
1957	99	225	10:09:33.000	118IZ110A111A4C	7STRP	0.007,-0.00039,2	Slew =,3.51	2R3	4	0	5,124,237	49:0
1958	99	225	10:10:22.333	175JC422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,238	32:0
1959	99	225	10:10:22.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3812.97 +/-	2R3	4	0	5,124,238	32:0
1960	99	225	10:10:29.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3812.97 +/-	2R3	4	0	5,124,238	42:0
1961	99	225	10:10:32.333	175JC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,238	47:0
1962	99	225	10:10:33.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3819.27 +/- 1	2R3	4	0	5,124,238	48:0
1963	99	225	10:10:33.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3819.27 +/-	2R3	4	0	5,124,238	48:0
1964	99	225	10:10:47.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3868.49 +/- 1	2R3	4	0	5,124,238	69:0
1965	99	225	10:10:47.000	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,238	69:0
1966	99	225	10:10:48.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3869.49 +/- 1	2R3	4	0	5,124,238	70:8
1967	99	225	10:10:49.000	118IZ110A111A4D	7STRP	-0.007,0.00039,0	Slew =,3.51	2R3	4	0	5,124,238	72:0
1968	99	225	10:11:38.333	175JD422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,239	55:0
1969	99	225	10:11:38.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3869.49 +/- 1	2R3	4	0	5,124,239	55:0
1970	99	225	10:11:45.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3869.49 +/- 1	2R3	4	0	5,124,239	65:0
1971	99	225	10:11:48.333	175JD176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,239	70:0
1972	99	225	10:11:49.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3875.79 +/- 1	2R3	4	0	5,124,239	71:0
1973	99	225	10:11:49.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3875.79 +/- 1	2R3	4	0	5,124,239	71:0
1974	99	225	10:12:02.333	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,240	00:0
1975	99	225	10:12:02.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3922.66 +/- 1	2R3	4	0	5,124,240	00:0
1976	99	225	10:12:03.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3923.66 +/- 1	2R3	4	0	5,124,240	01:8
1977	99	225	10:12:05.000	118IZ110A111A4E	7STRP	0.007,-0.00039,2	Slew =,3.51	2R3	4	0	5,124,240	04:0
1978	99	225	10:12:53.666	175JE422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,240	77:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1979	99	225	10:12:53.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3923.66 +/- 1	2R3	4	0	5,124,240	77:0
1980	99	225	10:13:00.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3923.66 +/- 1	2R3	4	0	5,124,240	87:0
1981	99	225	10:13:03.666	175JE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,241	01:0
1982	99	225	10:13:04.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3929.96 +/- 1	2R3	4	0	5,124,241	02:0
1983	99	225	10:13:04.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3929.96 +/- 1	2R3	4	0	5,124,241	02:0
1984	99	225	10:13:18.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3979.18 +/- 1	2R3	4	0	5,124,241	23:0
1985	99	225	10:13:18.333	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,241	23:0
1986	99	225	10:13:19.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3980.18 +/- 1	2R3	4	0	5,124,241	24:8
1987	99	225	10:13:21.000	118IZ11A	**SMOS**	GE		2R3	4	0	5,124,241	27:0
1988	99	225	10:19:36.333	165JA4A	7SCAN	NORM,90.125,25.9	Check S/P Position	2R3	4	0	5,124,247	44:0
1989	99	225	10:21:37.000	165JA4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,249	43:0
1990	99	225	10:21:45.000	175JF422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,249	55:0
1991	99	225	10:21:45.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3980.18 +/- 1	2R3	4	0	5,124,249	55:0
1992	99	225	10:21:51.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3980.18 +/- 1	2R3	4	0	5,124,249	65:0
1993	99	225	10:21:55.000	175JF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,249	70:0
1994	99	225	10:21:55.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3986.48 +/- 1	2R3	4	0	5,124,249	71:0
1995	99	225	10:21:55.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3986.48 +/- 1	2R3	4	0	5,124,249	71:0
1996	99	225	10:22:09.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4033.36 +/- 1	2R3	4	0	5,124,250	00:0
1997	99	225	10:22:09.000	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,250	00:0
1998	99	225	10:22:10.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4034.36 +/- 1	2R3	4	0	5,124,250	01:8
1999	99	225	10:22:13.000	118JA	**SMOS**	GS		2R3	4	0	5,124,250	06:0
2000	99	225	10:22:26.333	118JA110A111A4A	7STRP	0.007,-0.00045,1	Slew =,3.51	2R3	4	0	5,124,250	26:0
2001	99	225	10:23:00.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4034.36 +/- 1	2R3	4	0	5,124,250	77:0
2002	99	225	10:23:00.333	175JG422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,250	77:0
2003	99	225	10:23:07.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4034.36 +/- 1	2R3	4	0	5,124,250	87:0
2004	99	225	10:23:10.333	175JG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,251	01:0
2005	99	225	10:23:11.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4040.66 +/- 1	2R3	4	0	5,124,251	02:0
2006	99	225	10:23:11.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4040.66 +/- 1	2R3	4	0	5,124,251	02:0
2007	99	225	10:23:25.000	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,251	23:0
2008	99	225	10:23:25.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4089.87 +/- 1	2R3	4	0	5,124,251	23:0
2009	99	225	10:23:26.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4090.87 +/- 1	2R3	4	0	5,124,251	24:8
2010	99	225	10:23:27.000	118JA11A	**SMOS**	GE		2R3	4	0	5,124,251	26:0
2011	99	225	10:24:09.666	165JB4A	7SCAN	NORM,92.907,25.8	Check S/P Position	2R3	4	0	5,124,251	90:0
2012	99	225	10:25:01.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4090.87 +/- 1	2R3	4	0	5,124,252	77:0
2013	99	225	10:25:01.666	175JH422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,252	77:0
2014	99	225	10:25:03.000	118JB	**SMOS**	GS		2R3	4	0	5,124,252	79:0
2015	99	225	10:25:08.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4090.87 +/- 1	2R3	4	0	5,124,252	87:0
2016	99	225	10:25:11.666	175JH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,253	01:0
2017	99	225	10:25:12.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4097.17 +/- 1	2R3	4	0	5,124,253	02:0
2018	99	225	10:25:12.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4097.17 +/- 1	2R3	4	0	5,124,253	02:0
2019	99	225	10:25:13.000	118JB110A111A4A	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,253	03:0
2020	99	225	10:25:28.333	118JB110A111A4B	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,253	26:0
2021	99	225	10:25:43.666	118JB110A111A4C	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,253	49:0
2022	99	225	10:25:59.000	118JB110A111A4D	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,253	72:0
2023	99	225	10:26:14.333	118JB110A111A4E	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,254	04:0
2024	99	225	10:26:29.666	118JB110A111A4F	7STRP	-0.00695,0.0005,	Slew =,3.51	2R3	4	0	5,124,254	27:0
2025	99	225	10:26:45.000	118JB110A111A4G	7STRP	0.007,-0.0005,46	Slew =,3.51	2R3	4	0	5,124,254	50:0
2026	99	225	10:27:00.333	118JB11A	**SMOS**	GE		2R3	4	0	5,124,254	73:0
2027	99	225	10:27:12.333	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,255	00:0
2028	99	225	10:27:12.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4519.05 +/- 1	2R3	4	0	5,124,255	00:0
2029	99	225	10:27:13.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4520.05 +/- 1	2R3	4	0	5,124,255	01:8
2030	99	225	10:31:14.333	165JC4A	7SCAN	NORM,91.566999,2	Check S/P Position	2R3	4	0	5,124,258	90:0
2031	99	225	10:33:15.000	165JC4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,260	89:0
2032	99	225	10:33:53.000	175JI422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,261	55:0
2033	99	225	10:33:53.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4520.05 +/- 1	2R3	4	0	5,124,261	55:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2034	99	225	10:33:59.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4520.05 +/- 1	2R3	4	0	5,124,261:65:0	
2035	99	225	10:34:03.000	175JI176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,261:70:0	
2036	99	225	10:34:03.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4526.35 +/- 1	2R3	4	0	5,124,261:71:0	
2037	99	225	10:34:03.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4526.35 +/- 1	2R3	4	0	5,124,261:71:0	
2038	99	225	10:34:09.000	118JC	**SMOS**	GS		2R3	4	0	5,124,261:79:0	
2039	99	225	10:34:17.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4573.22 +/- 1	2R3	4	0	5,124,262:00:0	
2040	99	225	10:34:17.000	175JI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,262:00:0	
2041	99	225	10:34:18.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4574.22 +/- 1	2R3	4	0	5,124,262:01:8	
2042	99	225	10:34:19.000	118JC110A111A4A	7STRP	0.007,-0.00035,2	Slew =,3.51	2R3	4	0	5,124,262:03:0	
2043	99	225	10:35:08.333	175JJ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,262:77:0	
2044	99	225	10:35:08.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4574.22 +/- 1	2R3	4	0	5,124,262:77:0	
2045	99	225	10:35:15.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4574.22 +/- 1	2R3	4	0	5,124,262:87:0	
2046	99	225	10:35:18.333	175JJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,263:01:0	
2047	99	225	10:35:19.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4580.52 +/- 1	2R3	4	0	5,124,263:02:0	
2048	99	225	10:35:19.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4580.52 +/- 1	2R3	4	0	5,124,263:02:0	
2049	99	225	10:35:33.000	175JJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,263:23:0	
2050	99	225	10:35:33.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4629.74 +/- 1	2R3	4	0	5,124,263:23:0	
2051	99	225	10:35:34.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4630.74 +/- 1	2R3	4	0	5,124,263:24:8	
2052	99	225	10:35:35.000	118JC110A111A4B	7STRP	-0.007,0.00035,0	Slew =,3.51	2R3	4	0	5,124,263:26:0	
2053	99	225	10:36:24.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4630.74 +/- 1	2R3	4	0	5,124,264:09:0	
2054	99	225	10:36:24.333	175JK422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,264:09:0	
2055	99	225	10:36:31.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4630.74 +/- 1	2R3	4	0	5,124,264:19:0	
2056	99	225	10:36:34.333	175JK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,264:24:0	
2057	99	225	10:36:35.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4637.04 +/- 1	2R3	4	0	5,124,264:25:0	
2058	99	225	10:36:35.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4637.04 +/- 1	2R3	4	0	5,124,264:25:0	
2059	99	225	10:36:49.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4686.26 +/- 1	2R3	4	0	5,124,264:46:0	
2060	99	225	10:36:49.000	175JK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,264:46:0	
2061	99	225	10:36:50.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4687.26 +/- 1	2R3	4	0	5,124,264:47:8	
2062	99	225	10:36:51.000	118JC110A111A4C	7STRP	0.007,-0.00035,2	Slew =,3.51	2R3	4	0	5,124,264:49:0	
2063	99	225	10:37:40.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4687.26 +/- 1	2R3	4	0	5,124,265:32:0	
2064	99	225	10:37:40.333	175JL422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,265:32:0	
2065	99	225	10:37:47.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4687.26 +/- 1	2R3	4	0	5,124,265:42:0	
2066	99	225	10:37:50.333	175JL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,265:47:0	
2067	99	225	10:37:51.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4693.56 +/- 1	2R3	4	0	5,124,265:48:0	
2068	99	225	10:37:51.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4693.56 +/- 1	2R3	4	0	5,124,265:48:0	
2069	99	225	10:38:05.000	175JL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,265:69:0	
2070	99	225	10:38:05.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4742.78 +/- 1	2R3	4	0	5,124,265:69:0	
2071	99	225	10:38:06.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4743.78 +/- 1	2R3	4	0	5,124,265:70:8	
2072	99	225	10:38:07.000	118JC110A111A4D	7STRP	-0.007,0.00035,0	Slew =,3.51	2R3	4	0	5,124,265:72:0	
2073	99	225	10:38:56.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4743.78 +/- 1	2R3	4	0	5,124,266:55:0	
2074	99	225	10:38:56.333	175JM422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,266:55:0	
2075	99	225	10:39:03.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4743.78 +/- 1	2R3	4	0	5,124,266:65:0	
2076	99	225	10:39:06.333	175JM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,266:70:0	
2077	99	225	10:39:07.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4750.08 +/- 1	2R3	4	0	5,124,266:71:0	
2078	99	225	10:39:07.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4750.08 +/- 1	2R3	4	0	5,124,266:71:0	
2079	99	225	10:39:20.333	175JM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,267:00:0	
2080	99	225	10:39:20.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4796.96 +/- 1	2R3	4	0	5,124,267:00:0	
2081	99	225	10:39:21.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4797.96 +/- 1	2R3	4	0	5,124,267:01:8	
2082	99	225	10:39:23.000	118JC110A111A4E	7STRP	0.007,-0.00035,2	Slew =,3.51	2R3	4	0	5,124,267:04:0	
2083	99	225	10:40:11.666	175JN422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,267:77:0	
2084	99	225	10:40:11.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4797.96 +/- 1	2R3	4	0	5,124,267:77:0	
2085	99	225	10:40:18.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4797.96 +/- 1	2R3	4	0	5,124,267:87:0	
2086	99	225	10:40:21.666	175JN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,268:01:0	
2087	99	225	10:40:22.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4804.26 +/- 1	2R3	4	0	5,124,268:02:0	
2088	99	225	10:40:22.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4804.26 +/- 1	2R3	4	0	5,124,268:02:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2089	99	225	10:40:36.333	175JN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,268	23:0
2090	99	225	10:40:36.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4853.47 +/- 1	2R3	4	0	5,124,268	23:0
2091	99	225	10:40:37.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4854.47 +/- 1	2R3	4	0	5,124,268	24:8
2092	99	225	10:40:39.000	118JC11A	**SMOS**	GE		2R3	4	0	5,124,268	27:0
2093	99	225	10:41:51.000	165JD4A	7SCAN	NORM,92.075,28.0	Check S/P Position	2R3	4	0	5,124,269	44:0
2094	99	225	10:42:51.000	165JD4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,270	43:0
2095	99	225	10:42:59.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4854.47 +/- 1	2R3	4	0	5,124,270	55:0
2096	99	225	10:42:59.000	175JO422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,270	55:0
2097	99	225	10:43:05.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4854.47 +/- 1	2R3	4	0	5,124,270	65:0
2098	99	225	10:43:09.000	175JO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,270	70:0
2099	99	225	10:43:09.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4860.77 +/- 1	2R3	4	0	5,124,270	71:0
2100	99	225	10:43:09.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4860.77 +/- 1	2R3	4	0	5,124,270	71:0
2101	99	225	10:43:23.000	175JO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,271	00:0
2102	99	225	10:43:23.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4907.65 +/- 1	2R3	4	0	5,124,271	00:0
2103	99	225	10:43:24.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4908.65 +/- 1	2R3	4	0	5,124,271	01:8
2104	99	225	10:43:27.000	118JD	**SMOS**	GS		2R3	4	0	5,124,271	06:0
2105	99	225	10:43:40.333	118JD110A111A4A	7STRP	0.007,-0.00032,1	Slew =,3.51	2R3	4	0	5,124,271	26:0
2106	99	225	10:44:14.333	175JP422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,271	77:0
2107	99	225	10:44:14.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4908.65 +/- 1	2R3	4	0	5,124,271	77:0
2108	99	225	10:44:21.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4908.65 +/- 1	2R3	4	0	5,124,271	87:0
2109	99	225	10:44:24.333	175JP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,272	01:0
2110	99	225	10:44:25.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4914.95 +/- 1	2R3	4	0	5,124,272	02:0
2111	99	225	10:44:25.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4914.95 +/- 1	2R3	4	0	5,124,272	02:0
2112	99	225	10:44:39.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4964.17 +/- 1	2R3	4	0	5,124,272	23:0
2113	99	225	10:44:39.000	175JP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,272	23:0
2114	99	225	10:44:40.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4965.17 +/- 1	2R3	4	0	5,124,272	24:8
2115	99	225	10:44:41.000	118JD11A	**SMOS**	GE		2R3	4	0	5,124,272	26:0
2116	99	225	10:45:53.666	165JE4A	7SCAN	NORM,90.936,25.9	Check S/P Position	2R3	4	0	5,124,273	44:0
2117	99	225	10:46:53.666	165JE4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,274	43:0
2118	99	225	10:47:01.666	175JQ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,274	55:0
2119	99	225	10:47:01.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4965.17 +/- 1	2R3	4	0	5,124,274	55:0
2120	99	225	10:47:08.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4965.17 +/- 1	2R3	4	0	5,124,274	65:0
2121	99	225	10:47:11.666	175JQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,274	70:0
2122	99	225	10:47:12.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4971.47 +/- 1	2R3	4	0	5,124,274	71:0
2123	99	225	10:47:12.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4971.47 +/- 1	2R3	4	0	5,124,274	71:0
2124	99	225	10:47:25.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5018.34 +/- 1	2R3	4	0	5,124,275	00:0
2125	99	225	10:47:25.666	175JQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,275	00:0
2126	99	225	10:47:26.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5019.34 +/- 2	2R3	4	0	5,124,275	01:8
2127	99	225	10:47:29.666	118JE	**SMOS**	GS		2R3	4	0	5,124,275	06:0
2128	99	225	10:47:43.000	118JE110A111A4A	7STRP	0.007,-0.00042,1	Slew =,3.51	2R3	4	0	5,124,275	26:0
2129	99	225	10:48:17.000	175JR422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,275	77:0
2130	99	225	10:48:17.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5019.34 +/- 2	2R3	4	0	5,124,275	77:0
2131	99	225	10:48:23.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5019.34 +/- 2	2R3	4	0	5,124,275	87:0
2132	99	225	10:48:27.000	175JR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,276	01:0
2133	99	225	10:48:27.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5025.64 +/- 2	2R3	4	0	5,124,276	02:0
2134	99	225	10:48:27.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5025.64 +/- 2	2R3	4	0	5,124,276	02:0
2135	99	225	10:48:41.666	175JR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,276	23:0
2136	99	225	10:48:41.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5074.86 +/- 2	2R3	4	0	5,124,276	23:0
2137	99	225	10:48:42.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5075.86 +/- 2	2R3	4	0	5,124,276	24:8
2138	99	225	10:48:43.666	118JE11A	**SMOS**	GE		2R3	4	0	5,124,276	26:0
2139	99	225	10:49:56.333	165JF4A	7SCAN	NORM,92.091,27.6	Check S/P Position	2R3	4	0	5,124,277	44:0
2140	99	225	10:50:56.333	165JF4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,278	43:0
2141	99	225	10:51:04.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5075.86 +/- 2	2R3	4	0	5,124,278	55:0
2142	99	225	10:51:04.333	175JS422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,278	55:0
2143	99	225	10:51:11.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5075.86 +/- 2	2R3	4	0	5,124,278	65:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2144	99	225	10:51:14.333	175JS176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,278	70:0
2145	99	225	10:51:15.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5082.16 +/- 2	2R3	4	0	5,124,278	71:0
2146	99	225	10:51:15.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5082.16 +/- 2	2R3	4	0	5,124,278	71:0
2147	99	225	10:51:28.333	175JS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,279	00:0
2148	99	225	10:51:28.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5129.04 +/- 2	2R3	4	0	5,124,279	00:0
2149	99	225	10:51:29.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5130.04 +/- 2	2R3	4	0	5,124,279	01:8
2150	99	225	10:51:32.333	118JF	**SMOS**	GS		2R3	4	0	5,124,279	06:0
2151	99	225	10:51:45.666	118JF110A111A4A	7STRP	0.007,-0.00033,1	Slew =,3.51	2R3	4	0	5,124,279	26:0
2152	99	225	10:52:19.666	175JT422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,279	77:0
2153	99	225	10:52:19.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5130.04 +/- 2	2R3	4	0	5,124,279	77:0
2154	99	225	10:52:26.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5130.04 +/- 2	2R3	4	0	5,124,279	87:0
2155	99	225	10:52:29.666	175JT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,280	01:0
2156	99	225	10:52:30.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5136.34 +/- 2	2R3	4	0	5,124,280	02:0
2157	99	225	10:52:30.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5136.34 +/- 2	2R3	4	0	5,124,280	02:0
2158	99	225	10:52:44.333	175JT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,280	23:0
2159	99	225	10:52:44.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5185.56 +/- 2	2R3	4	0	5,124,280	23:0
2160	99	225	10:52:45.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5186.56 +/- 2	2R3	4	0	5,124,280	24:8
2161	99	225	10:53:35.666	175JU422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,281	09:0
2162	99	225	10:53:35.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5186.56 +/- 2	2R3	4	0	5,124,281	09:0
2163	99	225	10:53:42.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5186.56 +/- 2	2R3	4	0	5,124,281	19:0
2164	99	225	10:53:45.666	175JU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,281	24:0
2165	99	225	10:53:46.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5192.86 +/- 2	2R3	4	0	5,124,281	25:0
2166	99	225	10:53:46.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5192.86 +/- 2	2R3	4	0	5,124,281	25:0
2167	99	225	10:53:47.000	118JF11A	**SMOS**	GE		2R3	4	0	5,124,281	26:0
2168	99	225	10:53:55.666	488AG6D	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	2R3	4	0	5,124,281	39:0
2169	99	225	10:54:00.333	175JU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,281	46:0
2170	99	225	10:54:00.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5242.07 +/- 2	2R3	4	0	5,124,281	46:0
2171	99	225	10:54:01.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5243.07 +/- 2	2R3	4	0	5,124,281	47:8
2172	99	225	11:10:09.666	165JG4A	7SCAN	NORM,91.726,25.9	Check S/P Position	2R3	4	0	5,124,297	44:0
2173	99	225	11:12:10.333	165JG4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,299	43:0
2174	99	225	11:12:18.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5243.07 +/- 2	2R3	4	0	5,124,299	55:0
2175	99	225	11:12:18.333	175JV422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,299	55:0
2176	99	225	11:12:25.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5243.07 +/- 2	2R3	4	0	5,124,299	65:0
2177	99	225	11:12:28.333	175JV176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,299	70:0
2178	99	225	11:12:29.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5249.37 +/- 2	2R3	4	0	5,124,299	71:0
2179	99	225	11:12:29.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5249.37 +/- 2	2R3	4	0	5,124,299	71:0
2180	99	225	11:12:42.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5296.25 +/- 2	2R3	4	0	5,124,300	00:0
2181	99	225	11:12:42.333	175JV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,300	00:0
2182	99	225	11:12:43.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5297.25 +/- 2	2R3	4	0	5,124,300	01:8
2183	99	225	11:12:46.333	118JG	**SMOS**	GS		2R3	4	0	5,124,300	06:0
2184	99	225	11:12:59.666	118JG110A111A4A	7STRP	0.007,-0.0004,18	Slew =,3.51	2R3	4	0	5,124,300	26:0
2185	99	225	11:13:33.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5297.25 +/- 2	2R3	4	0	5,124,300	77:0
2186	99	225	11:13:33.666	175JW422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,300	77:0
2187	99	225	11:13:40.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5297.25 +/- 2	2R3	4	0	5,124,300	87:0
2188	99	225	11:13:43.666	175JW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,301	01:0
2189	99	225	11:13:44.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5303.55 +/- 2	2R3	4	0	5,124,301	02:0
2190	99	225	11:13:44.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5303.55 +/- 2	2R3	4	0	5,124,301	02:0
2191	99	225	11:13:58.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5352.77 +/- 2	2R3	4	0	5,124,301	23:0
2192	99	225	11:13:58.333	175JW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,301	23:0
2193	99	225	11:13:59.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5353.77 +/- 2	2R3	4	0	5,124,301	24:8
2194	99	225	11:14:00.333	118JG11A	**SMOS**	GE		2R3	4	0	5,124,301	26:0
2195	99	225	11:14:43.000	165AA4A	7SCAN	NORM,95.455999,2	Check S/P Position	2R3	4	0	5,124,301	90:0
2196	99	225	11:17:49.666	480MB6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	2R3	4	0	5,124,305	06:0
2197	99	225	11:17:49.666	480MB6	6MROH	12	read from LLM1A12,2282,0,A2	2R3	4	0	5,124,305	06:0
2198	99	225	11:20:45.000	488AH6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R3	4	0	5,124,307	87:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2199	99	225	11:35:26.333	165JH4A	7SCAN	NORM,92.497,25.8	Check S/P Position	2R3	4	0	5,124,322	44:0
2200	99	225	11:37:27.000	165JH4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,324	43:0
2201	99	225	11:37:35.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5353.77 +/- 2	2R3	4	0	5,124,324	55:0
2202	99	225	11:37:35.000	175JX422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,324	55:0
2203	99	225	11:37:41.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5353.77 +/- 2	2R3	4	0	5,124,324	65:0
2204	99	225	11:37:45.000	175JX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,324	70:0
2205	99	225	11:37:45.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5360.07 +/- 2	2R3	4	0	5,124,324	71:0
2206	99	225	11:37:45.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5360.07 +/- 2	2R3	4	0	5,124,324	71:0
2207	99	225	11:37:59.000	175JX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,325	00:0
2208	99	225	11:37:59.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5406.94 +/- 2	2R3	4	0	5,124,325	00:0
2209	99	225	11:38:00.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5407.94 +/- 2	2R3	4	0	5,124,325	01:8
2210	99	225	11:38:03.000	118JH	**SMOS**	GS		2R3	4	0	5,124,325	06:0
2211	99	225	11:38:16.333	118JH110A111A4A	7STRP	0.007,-0.0004,18	Slew =,3.51	2R3	4	0	5,124,325	26:0
2212	99	225	11:38:50.333	175JY422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,325	77:0
2213	99	225	11:38:50.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5407.94 +/- 2	2R3	4	0	5,124,325	77:0
2214	99	225	11:38:57.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5407.94 +/- 2	2R3	4	0	5,124,325	87:0
2215	99	225	11:39:00.333	175JY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	5,124,326	01:0
2216	99	225	11:39:01.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5414.24 +/- 2	2R3	4	0	5,124,326	02:0
2217	99	225	11:39:01.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5414.24 +/- 2	2R3	4	0	5,124,326	02:0
2218	99	225	11:39:15.000	175JY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,326	23:0
2219	99	225	11:39:15.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5463.46 +/- 2	2R3	4	0	5,124,326	23:0
2220	99	225	11:39:16.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5464.46 +/- 2	2R3	4	0	5,124,326	24:8
2221	99	225	11:39:17.000	118JH11A	**SMOS**	GE		2R3	4	0	5,124,326	26:0
2222	99	225	12:11:20.333	165JI4A	7SCAN	NORM,104.750999,	Check S/P Position	2R3	4	0	5,124,357	90:0
2223	99	225	12:15:17.666	118JI	**SMOS**	GS		2R3	4	0	5,124,361	82:0
2224	99	225	12:15:22.333	165JI4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,361	89:0
2225	99	225	12:15:27.666	118JI110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2R3	4	0	5,124,362	06:0
2226	99	225	12:15:47.000	175JZ422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,362	35:0
2227	99	225	12:15:47.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5464.46 +/- 2	2R3	4	0	5,124,362	35:0
2228	99	225	12:15:53.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5464.46 +/- 2	2R3	4	0	5,124,362	45:0
2229	99	225	12:15:57.000	175JZ176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,124,362	50:0
2230	99	225	12:15:57.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5470.76 +/- 2	2R3	4	0	5,124,362	51:0
2231	99	225	12:15:57.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5470.76 +/- 2	2R3	4	0	5,124,362	51:0
2232	99	225	12:15:58.333	118JI11A	**SMOS**	GE		2R3	4	0	5,124,362	52:0
2233	99	225	12:16:24.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5564.51 +/- 2	2R3	4	0	5,124,363	00:0
2234	99	225	12:16:24.333	175JZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,363	00:0
2235	99	225	12:16:25.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5565.51 +/- 2	2R3	4	0	5,124,363	01:8
2236	99	225	12:28:40.333	165KA4A	7SCAN	NORM,56.51,16.32	Check S/P Position	2R3	4	0	5,124,375	12:0
2237	99	225	12:32:35.666	118KA	**SMOS**	GS		2R3	4	0	5,124,379	01:0
2238	99	225	12:32:45.666	118KA110A111A4A	7STRP	-0.001,0.0,26,0,	Slew =,3.51	2R3	4	0	5,124,379	16:0
2239	99	225	12:33:28.333	175KA422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,379	80:0
2240	99	225	12:33:28.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5565.51 +/- 2	2R3	4	0	5,124,379	80:0
2241	99	225	12:33:35.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5565.51 +/- 2	2R3	4	0	5,124,379	90:0
2242	99	225	12:33:37.666	118KA11A	**SMOS**	GE		2R3	4	0	5,124,380	03:0
2243	99	225	12:33:38.333	175KA176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,124,380	04:0
2244	99	225	12:33:39.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5571.81 +/- 2	2R3	4	0	5,124,380	05:0
2245	99	225	12:33:39.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5571.81 +/- 2	2R3	4	0	5,124,380	05:0
2246	99	225	12:33:51.666	175KA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,380	24:0
2247	99	225	12:33:51.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5616.34 +/- 2	2R3	4	0	5,124,380	24:0
2248	99	225	12:33:52.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5617.34 +/- 2	2R3	4	0	5,124,380	25:8
2249	99	225	12:34:14.333	165KC4A	7SCAN	NORM,56.51,16.32	Check S/P Position	2R3	4	0	5,124,380	58:0
2250	99	225	12:34:37.000	118KC	**SMOS**	GS		2R3	4	0	5,124,381	01:0
2251	99	225	12:34:47.000	118KC110A111A4A	7STRP	-0.001,0.0,26,0,	Slew =,3.51	2R3	4	0	5,124,381	16:0
2252	99	225	12:35:29.666	175KB422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,381	80:0
2253	99	225	12:35:29.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5617.34 +/- 2	2R3	4	0	5,124,381	80:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2254	99	225	12:35:36.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5617.34 +/- 2	2R3	4	0	5,124,381:90:0
2255	99	225	12:35:39.000	118KC11A	**SMOS**	GE		2R3	4	0	5,124,382:03:0
2256	99	225	12:35:39.666	175KB176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,124,382:04:0
2257	99	225	12:35:40.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5623.64 +/- 2	2R3	4	0	5,124,382:05:0
2258	99	225	12:35:40.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5623.64 +/- 2	2R3	4	0	5,124,382:05:0
2259	99	225	12:35:53.000	175KB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,382:24:0
2260	99	225	12:35:53.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5668.17 +/- 2	2R3	4	0	5,124,382:24:0
2261	99	225	12:35:54.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5669.17 +/- 2	2R3	4	0	5,124,382:25:8
2262	99	225	12:45:43.000	165AK4A	7SCAN	NORM,97.95,25.05	Check S/P Position	2R3	4	0	5,124,391:90:0
2263	99	225	13:26:09.666	165AL4A	7SCAN	NORM,98.992999,2	Check S/P Position	2R3	4	0	5,124,431:90:0
2264	99	225	13:40:14.333	488AH6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	5,124,445:83:0
2265	99	225	14:07:37.000	165JJ4A	7SCAN	NORM,110.634999,	Check S/P Position	2R3	4	0	5,124,472:90:0
2266	99	225	14:11:34.333	118JJ	**SMOS**	GS		2R3	4	0	5,124,476:82:0
2267	99	225	14:11:39.000	165JJ4B	7VECT		Inert vect update UTC	2R3	4	0	5,124,476:89:0
2268	99	225	14:11:44.333	118JJ110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2R3	4	0	5,124,477:06:0
2269	99	225	14:12:03.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5669.17 +/- 2	2R3	4	0	5,124,477:35:0
2270	99	225	14:12:03.666	175KC422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	5,124,477:35:0
2271	99	225	14:12:10.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5669.17 +/- 2	2R3	4	0	5,124,477:45:0
2272	99	225	14:12:13.666	175KC176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	5,124,477:50:0
2273	99	225	14:12:14.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5675.47 +/- 2	2R3	4	0	5,124,477:51:0
2274	99	225	14:12:14.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5675.47 +/- 2	2R3	4	0	5,124,477:51:0
2275	99	225	14:12:15.000	118JJ11A	**SMOS**	GE		2R3	4	0	5,124,477:52:0
2276	99	225	14:12:41.000	175KC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,124,478:00:0
2277	99	225	14:12:41.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5769.22 +/- 2	2R3	4	0	5,124,478:00:0
2278	99	225	14:12:42.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5770.22 +/- 2	2R3	4	0	5,124,478:01:8
2279	99	225	14:15:42.333	165AM4A	7SCAN	NORM,100.219999,	Check S/P Position	2R3	4	0	5,124,480:90:0
2280	99	225	14:27:10.333	488AH6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R3	4	0	5,124,492:30:0
2281	**99**	**225**	**14:56:13.733**	**22NNRELOAD01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2282	**99**	**225**	**14:59:22.333**	**20FN5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**5,124,524:16:0**
2283	**99**	**225**	**14:59:25.666**	**20FN5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**5,124,524:21:0**
2284	**99**	**225**	**14:59:35.666**	**20FN6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**5,124,524:36:0**
2285	**99**	**225**	**14:59:45.666**	**20FN6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**5,124,524:51:0**
2286	**99**	**225**	**14:59:55.666**	**20FN5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,124,524:66:0**
2287	**99**	**225**	**14:59:59.000**	**20FN5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,124,524:71:0**
2288	**99**	**225**	**15:00:05.000**	**20FN4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,124,524:80:0**
2289	**99**	**225**	**15:00:16.399**	**22NNRELOAD01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
2290	99	225	15:01:12.333	165AN4A	7SCAN	NORM,101.301999,	Check S/P Position	2R0	4	0	5,124,525:90:0
2291	**99**	**225**	**15:05:19.733**	**22NNCHOPOF01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
2292	99	225	15:07:12.333	127FN	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,124,531:84:0
2293	**99**	**225**	**15:07:12.333**	**127FN4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**2R0**	**4**	**0**	**5,124,531:84:0**
2294	**99**	**225**	**15:07:13.000**	**127FN4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**2R0**	**4**	**0**	**5,124,531:85:0**
2295	99	225	15:07:21.000	127FN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R0	4	0	5,124,532:06:0
2296	**99**	**225**	**15:10:14.333**	**125FN4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**5,124,534:84:0**
2297	99	225	15:10:14.333	125FN	NIMSINIT	GS	##### GROUP START INIT	260	4	0	5,124,534:84:0
2298	**99**	**225**	**15:11:15.000**	**125FN4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O0**	**4**	**0**	**5,124,535:84:0**
2299	**99**	**225**	**15:12:15.666**	**125FN4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2O0**	**4**	**0**	**5,124,536:84:0**
2300	99	225	15:12:15.666	125FN11A	NIMSINIT	GE	##### GROUP END INIT	2O0	4	0	5,124,536:84:0
2301	**99**	**225**	**15:15:26.399**	**22NNCHOPOF01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
2302	99	225	15:47:43.000	165JK4A	7SCAN	NORM,115.028999,	Check S/P Position	2O0	4	0	5,124,571:90:0
2303	99	225	15:51:40.333	118JK	**SMOS**	GS		2O0	4	0	5,124,575:82:0
2304	99	225	15:51:45.000	165JK4B	7VECT		Inert vect update UTC	2O0	4	0	5,124,575:89:0
2305	99	225	15:51:50.333	118JK110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2O0	4	0	5,124,576:06:0
2306	99	225	15:52:09.666	175KD422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	5,124,576:35:0
2307	99	225	15:52:09.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5770.22 +/- 2	2O0	4	0	5,124,576:35:0
2308	99	225	15:52:16.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5770.22 +/- 2	2O0	4	0	5,124,576:45:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2309	99	225	15:52:19.666	175KD176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	5,124,576	50:0
2310	99	225	15:52:20.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5776.52 +/- 2	2O0	4	0	5,124,576	51:0
2311	99	225	15:52:20.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5776.52 +/- 2	2O0	4	0	5,124,576	51:0
2312	99	225	15:52:21.000	118JK11A	**SMOS**	GE		2O0	4	0	5,124,576	52:0
2313	99	225	15:52:47.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5870.27 +/- 2	2O0	4	0	5,124,577	00:0
2314	99	225	15:52:47.000	175KD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,577	00:0
2315	99	225	15:52:48.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5871.27 +/- 2	2O0	4	0	5,124,577	01:8
2316	99	225	15:52:49.666	165AO4A	7SCAN	NORM,102.476999,	Check S/P Position	2O0	4	0	5,124,577	04:0
2317	99	225	16:54:27.000	165AP4A	7SCAN	NORM,103.818999,	Check S/P Position	2O0	4	0	5,124,637	90:0
2318	99	225	17:21:45.000	165JL4A	7SCAN	NORM,118.551,22.	Check S/P Position	2O0	4	0	5,124,664	90:0
2319	99	225	17:25:42.333	118JL	**SMOS**	GS		2O0	4	0	5,124,668	82:0
2320	99	225	17:25:47.000	165JL4B	7VECT		Inert vect update UTC	2O0	4	0	5,124,668	89:0
2321	99	225	17:25:52.333	118JL110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2O0	4	0	5,124,669	06:0
2322	99	225	17:26:11.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5871.27 +/- 2	2O0	4	0	5,124,669	35:0
2323	99	225	17:26:11.666	175KE422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	5,124,669	35:0
2324	99	225	17:26:18.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5871.27 +/- 2	2O0	4	0	5,124,669	45:0
2325	99	225	17:26:21.666	175KE176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	5,124,669	50:0
2326	99	225	17:26:22.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5877.57 +/- 2	2O0	4	0	5,124,669	51:0
2327	99	225	17:26:22.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5877.57 +/- 2	2O0	4	0	5,124,669	51:0
2328	99	225	17:26:23.000	118JL11A	**SMOS**	GE		2O0	4	0	5,124,669	52:0
2329	99	225	17:26:49.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5971.32 +/- 2	2O0	4	0	5,124,670	00:0
2330	99	225	17:26:49.000	175KE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,670	00:0
2331	99	225	17:26:50.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5972.32 +/- 2	2O0	4	0	5,124,670	01:8
2332	99	225	17:27:49.666		DMS:	: READY	RDY, TRACK *2, *REV, TIC 5972.32 +/- 2	2O0	4	0	5,124,671	00:0
2333	99	225	17:27:49.666	465KI6A	6DMSC	RDY,2	DMS Control Tape stop	2O0	4	0	5,124,671	00:0
2334	99	225	17:29:50.333	165JM4A	7SCAN	NORM,105.250999,	Check S/P Position	2O0	4	0	5,124,672	90:0
2335	99	225	17:31:41.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5972.32 +/- 2	2O0	4	0	5,124,674	75:0
2336	99	225	17:31:41.666	175KF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,674	75:0
2337	99	225	17:31:43.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5972.44 +/- 2	2O0	4	0	5,124,674	77:1
2338	99	225	17:31:44.333	118JM	**SMOS**	GS		2O0	4	0	5,124,674	79:0
2339	99	225	17:31:48.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5973.68 +/- 2	2O0	4	0	5,124,674	85:0
2340	99	225	17:31:49.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5973.74 +/- 2	2O0	4	0	5,124,674	86:8
2341	99	225	17:31:53.000	175KF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,675	01:0
2342	99	225	17:31:53.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5967.44 +/- 2	2O0	4	0	5,124,675	01:8
2343	99	225	17:31:53.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5967.44 +/- 3	2O0	4	0	5,124,675	01:8
2344	99	225	17:31:54.333	118JM110A111A4A	7STRP	0.007,-0.00012,4	Slew =,3.51	2O0	4	0	5,124,675	03:0
2345	99	225	17:32:09.666	118JM110A111A4B	7STRP	-0.007,0.00012,0	Slew =,3.51	2O0	4	0	5,124,675	26:0
2346	99	225	17:32:25.000	118JM110A111A4C	7STRP	0.007,-0.00012,4	Slew =,3.51	2O0	4	0	5,124,675	49:0
2347	99	225	17:32:40.333	118JM110A111A4D	7STRP	-0.007,0.00012,0	Slew =,3.51	2O0	4	0	5,124,675	72:0
2348	99	225	17:32:55.666	118JM110A111A4E	7STRP	0.007,-0.00012,4	Slew =,3.51	2O0	4	0	5,124,676	04:0
2349	99	225	17:33:11.000	118JM110A111A4F	7STRP	-0.007,0.00012,0	Slew =,3.51	2O0	4	0	5,124,676	27:0
2350	99	225	17:33:26.333	118JM110A111A4G	7STRP	0.007,-0.00012,4	Slew =,3.51	2O0	4	0	5,124,676	50:0
2351	99	225	17:33:41.666	118JM11A	**SMOS**	GE		2O0	4	0	5,124,676	73:0
2352	99	225	17:33:53.666	175KF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,677	00:0
2353	99	225	17:33:53.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5545.09 +/- 3	2O0	4	0	5,124,677	00:0
2354	99	225	17:33:54.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5544.09 +/- 3	2O0	4	0	5,124,677	01:8
2355	99	225	17:36:55.000	165AQ4A	7SCAN	NORM,104.704,24.	Check S/P Position	2O0	4	0	5,124,679	90:0
2356	99	225	18:22:25.000	165JN4A	7SCAN	NORM,105.025,22.	Check S/P Position	2O0	4	0	5,124,724	90:0
2357	99	225	18:24:16.333	175KG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,726	75:0
2358	99	225	18:24:16.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5544.09 +/- 3	2O0	4	0	5,124,726	75:0
2359	99	225	18:24:17.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5544.21 +/- 3	2O0	4	0	5,124,726	77:1
2360	99	225	18:24:19.000	118JN	**SMOS**	GS		2O0	4	0	5,124,726	79:0
2361	99	225	18:24:23.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5545.45 +/- 3	2O0	4	0	5,124,726	85:0
2362	99	225	18:24:24.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5545.51 +/- 3	2O0	4	0	5,124,726	86:8
2363	99	225	18:24:27.666	175KG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,727	01:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2364	99	225	18:24:28.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5539.21 +/- 3	2O0	4	0	5,124,727:01:8	
2365	99	225	18:24:28.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5539.21 +/- 3	2O0	4	0	5,124,727:01:8	
2366	99	225	18:24:29.000	118JN110A111A4A	7STRP	0.007,-0.00029,4	Slew =,3.51	2O0	4	0	5,124,727:03:0	
2367	99	225	18:24:44.333	118JN110A111A4B	7STRP	-0.0069,0.00029,	Slew =,3.51	2O0	4	0	5,124,727:26:0	
2368	99	225	18:24:59.666	118JN110A111A4C	7STRP	0.007,-0.00029,4	Slew =,3.51	2O0	4	0	5,124,727:49:0	
2369	99	225	18:25:15.000	118JN110A111A4D	7STRP	-0.0069,0.00029,	Slew =,3.51	2O0	4	0	5,124,727:72:0	
2370	99	225	18:25:30.333	118JN110A111A4E	7STRP	0.007,-0.00029,4	Slew =,3.51	2O0	4	0	5,124,728:04:0	
2371	99	225	18:25:45.666	118JN110A111A4F	7STRP	-0.0069,0.00029,	Slew =,3.51	2O0	4	0	5,124,728:27:0	
2372	99	225	18:26:01.000	118JN110A111A4G	7STRP	0.007,-0.00029,4	Slew =,3.51	2O0	4	0	5,124,728:50:0	
2373	99	225	18:26:16.333	118JN11A	**SMOS**	GE		2O0	4	0	5,124,728:73:0	
2374	99	225	18:26:27.666	165KE4A	7SCAN	NORM,56.599,16.3	Check S/P Position	2O0	4	0	5,124,728:90:0	
2375	99	225	18:26:28.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5116.87 +/- 3	2O0	4	0	5,124,729:00:0	
2376	99	225	18:26:28.333	175KG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,729:00:0	
2377	99	225	18:26:29.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5115.87 +/- 3	2O0	4	0	5,124,729:01:8	
2378	99	225	18:30:35.000	118KE	**SMOS**	GS		2O0	4	0	5,124,733:06:0	
2379	99	225	18:30:59.666	118KE110A111A4A	7STRP	-0.003,0.0,92,0,	Slew =,3.51	2O0	4	0	5,124,733:43:0	
2380	99	225	18:31:53.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5115.87 +/- 3	2O0	4	0	5,124,734:33:0	
2381	99	225	18:31:53.666	175KH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,734:33:0	
2382	99	225	18:31:55.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5115.99 +/- 3	2O0	4	0	5,124,734:35:1	
2383	99	225	18:32:00.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5117.22 +/- 3	2O0	4	0	5,124,734:43:0	
2384	99	225	18:32:01.000	118KE11A	**SMOS**	GE		2O0	4	0	5,124,734:44:0	
2385	99	225	18:32:01.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5117.28 +/- 3	2O0	4	0	5,124,734:44:8	
2386	99	225	18:32:05.000	175KH176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	5,124,734:50:0	
2387	99	225	18:32:05.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5110.98 +/- 3	2O0	4	0	5,124,734:50:8	
2388	99	225	18:32:05.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5110.98 +/- 3	2O0	4	0	5,124,734:50:8	
2389	99	225	18:32:19.666	175KH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,734:72:0	
2390	99	225	18:32:19.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5061.29 +/- 3	2O0	4	0	5,124,734:72:0	
2391	99	225	18:32:20.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5060.29 +/- 3	2O0	4	0	5,124,734:73:8	
2392	99	225	18:33:12.333	165KG4A	7SCAN	NORM,56.689,16.3	Check S/P Position	2O0	4	0	5,124,735:60:0	
2393	99	225	18:33:37.000	118KG	**SMOS**	GS		2O0	4	0	5,124,736:06:0	
2394	99	225	18:34:31.000	118KG110A111A4A	7STRP	-0.003,-0.00005,	Slew =,3.51	2O0	4	0	5,124,736:87:0	
2395	99	225	18:35:29.666	175KI422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,737:84:0	
2396	99	225	18:35:29.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5060.29 +/- 3	2O0	4	0	5,124,737:84:0	
2397	99	225	18:35:31.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5060.41 +/- 3	2O0	4	0	5,124,737:86:1	
2398	99	225	18:35:31.666	118KG11A	**SMOS**	GE		2O0	4	0	5,124,737:87:0	
2399	99	225	18:35:36.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5061.65 +/- 3	2O0	4	0	5,124,738:03:0	
2400	99	225	18:35:37.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5061.71 +/- 3	2O0	4	0	5,124,738:04:8	
2401	99	225	18:35:41.000	175KI176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,738:10:0	
2402	99	225	18:35:41.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5055.41 +/- 3	2O0	4	0	5,124,738:10:8	
2403	99	225	18:35:41.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5055.41 +/- 3	2O0	4	0	5,124,738:10:8	
2404	99	225	18:35:54.333	175KI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,738:30:0	
2405	99	225	18:35:54.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5010.41 +/- 3	2O0	4	0	5,124,738:30:0	
2406	99	225	18:35:55.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5009.41 +/- 3	2O0	4	0	5,124,738:31:8	
2407	99	225	18:36:14.333	165KH4A	7SCAN	NORM,56.689,16.3	Check S/P Position	2O0	4	0	5,124,738:60:0	
2408	99	225	18:36:39.000	118KH	**SMOS**	GS		2O0	4	0	5,124,739:06:0	
2409	99	225	18:37:33.000	118KH110A111A4A	7STRP	-0.003,-0.00005,	Slew =,3.51	2O0	4	0	5,124,739:87:0	
2410	99	225	18:38:31.666	175KJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,740:84:0	
2411	99	225	18:38:31.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5009.41 +/- 3	2O0	4	0	5,124,740:84:0	
2412	99	225	18:38:33.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5009.53 +/- 3	2O0	4	0	5,124,740:86:1	
2413	99	225	18:38:33.666	118KH11A	**SMOS**	GE		2O0	4	0	5,124,740:87:0	
2414	99	225	18:38:38.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5010.76 +/- 3	2O0	4	0	5,124,741:03:0	
2415	99	225	18:38:39.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5010.82 +/- 3	2O0	4	0	5,124,741:04:8	
2416	99	225	18:38:43.000	175KJ176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,741:10:0	
2417	99	225	18:38:43.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5004.52 +/- 3	2O0	4	0	5,124,741:10:8	
2418	99	225	18:38:43.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5004.52 +/- 3	2O0	4	0	5,124,741:10:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2419	99	225	18:38:56.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4959.52 +/- 3	2O0	4	0	5,124,741:30:0	
2420	99	225	18:38:56.333	175KJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,741:30:0	
2421	99	225	18:38:57.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4958.52 +/- 3	2O0	4	0	5,124,741:31:8	
2422	99	225	18:42:37.666	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	5,124,744:89:0	
2423	99	225	18:44:39.666	165JO4A	7SCAN	NORM,106.011999,	Check S/P Position	2O0	4	0	5,124,746:90:0	
2424	99	225	18:46:31.000	175KK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,748:75:0	
2425	99	225	18:46:31.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4958.52 +/- 3	2O0	4	0	5,124,748:75:0	
2426	99	225	18:46:32.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4958.64 +/- 3	2O0	4	0	5,124,748:77:1	
2427	99	225	18:46:33.666	118JO	**SMOS**	GS		2O0	4	0	5,124,748:79:0	
2428	99	225	18:46:37.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4959.88 +/- 3	2O0	4	0	5,124,748:85:0	
2429	99	225	18:46:38.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *4959.94 +/- 3	2O0	4	0	5,124,748:86:8	
2430	99	225	18:46:42.333	175KK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,749:01:0	
2431	99	225	18:46:42.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 4953.64 +/- 3	2O0	4	0	5,124,749:01:8	
2432	99	225	18:46:42.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4953.64 +/- 3	2O0	4	0	5,124,749:01:8	
2433	99	225	18:46:43.666	118JO110A111A4A	7STRP	0.007,-0.00057,4	Slew =,3.51	2O0	4	0	5,124,749:03:0	
2434	99	225	18:46:45.666	20ZM6A	6EUVON			2O0	4	0	5,124,749:06:0	
2435	99	225	18:46:59.000	118JO110A111A4B	7STRP	-0.007,0.00057,0	Slew =,3.51	2O0	4	0	5,124,749:26:0	
2436	99	225	18:47:14.333	118JO110A111A4C	7STRP	0.007,-0.00057,4	Slew =,3.51	2O0	4	0	5,124,749:49:0	
2437	99	225	18:47:29.666	118JO110A111A4D	7STRP	-0.007,0.00057,0	Slew =,3.51	2O0	4	0	5,124,749:72:0	
2438	99	225	18:47:42.333	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	5,124,750:00:0	
2439	99	225	18:47:45.000	118JO110A111A4E	7STRP	0.007,-0.00057,4	Slew =,3.51	2O0	4	0	5,124,750:04:0	
2440	99	225	18:48:00.333	118JO110A111A4F	7STRP	-0.007,0.00057,0	Slew =,3.51	2O0	4	0	5,124,750:27:0	
2441	99	225	18:48:15.666	118JO110A111A4G	7STRP	0.007,-0.00057,4	Slew =,3.51	2O0	4	0	5,124,750:50:0	
2442	99	225	18:48:31.000	118JO11A	**SMOS**	GE		2O0	4	0	5,124,750:73:0	
2443	99	225	18:48:43.000	175KK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,751:00:0	
2444	99	225	18:48:43.000		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4531.29 +/- 3	2O0	4	0	5,124,751:00:0	
2445	99	225	18:48:44.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4530.29 +/- 3	2O0	4	0	5,124,751:01:8	
2446	99	225	18:51:44.333	165JP4A	7SCAN	NORM,121.323999,	Check S/P Position	2O0	4	0	5,124,753:90:0	
2447	99	225	18:55:41.666	118JP	**SMOS**	GS		2O0	4	0	5,124,757:82:0	
2448	99	225	18:55:46.333	165JP4B	7VECT		Inert vect update UTC	2O0	4	0	5,124,757:89:0	
2449	99	225	18:55:51.666	118JP110A111A4A	7STRP	0.0035,0.0,92,0,	Slew =2,5.0	2O0	4	0	5,124,758:06:0	
2450	99	225	18:56:09.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4530.29 +/- 3	2O0	4	0	5,124,758:33:0	
2451	99	225	18:56:09.666	175KL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,758:33:0	
2452	99	225	18:56:11.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4530.41 +/- 3	2O0	4	0	5,124,758:35:1	
2453	99	225	18:56:16.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4531.65 +/- 3	2O0	4	0	5,124,758:43:0	
2454	99	225	18:56:17.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *4531.71 +/- 3	2O0	4	0	5,124,758:44:8	
2455	99	225	18:56:21.000	175KL176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	5,124,758:50:0	
2456	99	225	18:56:21.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 4525.41 +/- 3	2O0	4	0	5,124,758:50:8	
2457	99	225	18:56:21.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4525.41 +/- 3	2O0	4	0	5,124,758:50:8	
2458	99	225	18:56:22.333	118JP11A	**SMOS**	GE		2O0	4	0	5,124,758:52:0	
2459	99	225	18:56:48.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4431.19 +/- 3	2O0	4	0	5,124,759:00:0	
2460	99	225	18:56:48.333	175KL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,759:00:0	
2461	99	225	18:56:49.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4430.19 +/- 3	2O0	4	0	5,124,759:01:8	
2462	99	225	19:07:55.000	165JQ4A	7SCAN	NORM,106.026999,	Check S/P Position	2O0	4	0	5,124,769:90:0	
2463	99	225	19:09:46.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4430.19 +/- 3	2O0	4	0	5,124,771:75:0	
2464	99	225	19:09:46.333	175KM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,771:75:0	
2465	99	225	19:09:47.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4430.31 +/- 3	2O0	4	0	5,124,771:77:1	
2466	99	225	19:09:49.000	118JQ	**SMOS**	GS		2O0	4	0	5,124,771:79:0	
2467	99	225	19:09:53.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4431.54 +/- 3	2O0	4	0	5,124,771:85:0	
2468	99	225	19:09:54.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *4431.60 +/- 3	2O0	4	0	5,124,771:86:8	
2469	99	225	19:09:57.666	175KM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,772:01:0	
2470	99	225	19:09:58.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4425.30 +/- 3	2O0	4	0	5,124,772:01:8	
2471	99	225	19:09:58.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 4425.30 +/- 3	2O0	4	0	5,124,772:01:8	
2472	99	225	19:09:59.000	118JQ110A111A4A	7STRP	0.007,-0.00043,4	Slew =,3.51	2O0	4	0	5,124,772:03:0	
2473	99	225	19:10:14.333	118JQ110A111A4B	7STRP	-0.0069,0.00043,	Slew =,3.51	2O0	4	0	5,124,772:26:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2474	99	225	19:10:29.666	118JQ110A111A4C	7STRP	0.007,-0.00043,4	Slew =,3.51	2O0	4	0	5,124,772	49:0
2475	99	225	19:10:45.000	118JQ110A111A4D	7STRP	-0.0069,0.00043,	Slew =,3.51	2O0	4	0	5,124,772	72:0
2476	99	225	19:11:00.333	118JQ110A111A4E	7STRP	0.007,-0.00043,4	Slew =,3.51	2O0	4	0	5,124,773	04:0
2477	99	225	19:11:15.666	118JQ110A111A4F	7STRP	-0.0069,0.00043,	Slew =,3.51	2O0	4	0	5,124,773	27:0
2478	99	225	19:11:31.000	118JQ110A111A4G	7STRP	0.007,-0.00043,4	Slew =,3.51	2O0	4	0	5,124,773	50:0
2479	99	225	19:11:46.333	118JQ11A	**SMOS**	GE		2O0	4	0	5,124,773	73:0
2480	99	225	19:11:57.666	165JR4A	7SCAN	NORM,106.426,26.	Check S/P Position	2O0	4	0	5,124,773	90:0
2481	99	225	19:11:58.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4002.96 +/- 3	2O0	4	0	5,124,774	00:0
2482	99	225	19:11:58.333	175KM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,774	00:0
2483	99	225	19:11:59.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4001.96 +/- 3	2O0	4	0	5,124,774	01:8
2484	99	225	19:13:03.000	118JR	**SMOS**	GS		2O0	4	0	5,124,775	06:0
2485	99	225	19:13:19.000	175KN422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,775	30:0
2486	99	225	19:13:19.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4001.96 +/- 3	2O0	4	0	5,124,775	30:0
2487	99	225	19:13:20.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4002.08 +/- 3	2O0	4	0	5,124,775	32:1
2488	99	225	19:13:25.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4003.31 +/- 3	2O0	4	0	5,124,775	40:0
2489	99	225	19:13:26.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *4003.37 +/- 3	2O0	4	0	5,124,775	41:8
2490	99	225	19:13:30.333	175KN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,775	47:0
2491	99	225	19:13:30.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *3997.07 +/- 3	2O0	4	0	5,124,775	47:8
2492	99	225	19:13:30.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 3997.07 +/- 3	2O0	4	0	5,124,775	47:8
2493	99	225	19:13:31.666	118JR110A111A4A	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,775	49:0
2494	99	225	19:13:47.000	118JR110A111A4B	7STRP	-0.007,0.00058,0	Slew =,3.51	2O0	4	0	5,124,775	72:0
2495	99	225	19:14:02.333	118JR110A111A4C	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,776	04:0
2496	99	225	19:14:17.666	118JR110A111A4D	7STRP	-0.007,0.00058,0	Slew =,3.51	2O0	4	0	5,124,776	27:0
2497	99	225	19:14:33.000	118JR110A111A4E	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,776	50:0
2498	99	225	19:14:48.333	118JR110A111A4F	7STRP	-0.007,0.00058,0	Slew =,3.51	2O0	4	0	5,124,776	73:0
2499	99	225	19:15:03.666	118JR110A111A4G	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,777	05:0
2500	99	225	19:15:19.000	118JR11A	**SMOS**	GE		2O0	4	0	5,124,777	28:0
2501	99	225	19:15:31.000	175KN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,777	46:0
2502	99	225	19:15:31.000		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *3574.73 +/- 3	2O0	4	0	5,124,777	46:0
2503	99	225	19:15:32.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3573.73 +/- 3	2O0	4	0	5,124,777	47:8
2504	99	225	19:16:00.333	165JS4A	7SCAN	NORM,106.848,26.	Check S/P Position	2O0	4	0	5,124,777	90:0
2505	99	225	19:16:51.000	175KO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,778	75:0
2506	99	225	19:16:51.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3573.73 +/- 3	2O0	4	0	5,124,778	75:0
2507	99	225	19:16:52.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3573.85 +/- 3	2O0	4	0	5,124,778	77:1
2508	99	225	19:16:53.666	118JS	**SMOS**	GS		2O0	4	0	5,124,778	79:0
2509	99	225	19:16:57.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3575.08 +/- 3	2O0	4	0	5,124,778	85:0
2510	99	225	19:16:58.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *3575.14 +/- 3	2O0	4	0	5,124,778	86:8
2511	99	225	19:17:02.333	175KO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,779	01:0
2512	99	225	19:17:02.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 3568.84 +/- 3	2O0	4	0	5,124,779	01:8
2513	99	225	19:17:02.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *3568.84 +/- 3	2O0	4	0	5,124,779	01:8
2514	99	225	19:17:03.666	118JS110A111A4A	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,779	03:0
2515	99	225	19:17:34.333	118JS110A111A4B	7STRP	-0.014001,0.0011	Slew =,3.51	2O0	4	0	5,124,779	49:0
2516	99	225	19:17:49.666	118JS110A111A4C	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,779	72:0
2517	99	225	19:18:20.333	118JS110A111A4D	7STRP	-0.014001,0.0011	Slew =,3.51	2O0	4	0	5,124,780	27:0
2518	99	225	19:18:35.666	118JS110A111A4E	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,780	50:0
2519	99	225	19:19:06.333	118JS110A111A4F	7STRP	-0.014001,0.0011	Slew =,3.51	2O0	4	0	5,124,781	05:0
2520	99	225	19:19:21.666	118JS110A111A4G	7STRP	0.007,-0.00058,4	Slew =,3.51	2O0	4	0	5,124,781	28:0
2521	99	225	19:19:52.333	118JS11A	**SMOS**	GE		2O0	4	0	5,124,781	74:0
2522	99	225	19:20:03.000	165JT4A	7SCAN	NORM,106.594,26.	Check S/P Position	2O0	4	0	5,124,781	90:0
2523	99	225	19:20:03.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2933.22 +/- 3	2O0	4	0	5,124,782	00:0
2524	99	225	19:20:03.666	175KO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,782	00:0
2525	99	225	19:20:04.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2932.22 +/- 3	2O0	4	0	5,124,782	01:8
2526	99	225	19:21:54.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2932.22 +/- 3	2O0	4	0	5,124,783	75:0
2527	99	225	19:21:54.333	175KP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,783	75:0
2528	99	225	19:21:55.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2932.34 +/- 3	2O0	4	0	5,124,783	77:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2529	99	225	19:21:57.000	118JT	**SMOS**	GS		2O0	4	0	5,124,783:79:0	
2530	99	225	19:22:01.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2933.57 +/- 3	2O0	4	0	5,124,783:85:0	
2531	99	225	19:22:02.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *2933.63 +/- 3	2O0	4	0	5,124,783:86:8	
2532	99	225	19:22:05.666	175KP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,784:01:0	
2533	99	225	19:22:06.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 2927.33 +/- 3	2O0	4	0	5,124,784:01:8	
2534	99	225	19:22:06.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2927.33 +/- 3	2O0	4	0	5,124,784:01:8	
2535	99	225	19:22:07.000	118JT110A111A4A	7STRP	0.007,-0.00055,4	Slew =,3.51	2O0	4	0	5,124,784:03:0	
2536	99	225	19:22:22.333	118JT110A111A4B	7STRP	-0.007,0.00055,0	Slew =,3.51	2O0	4	0	5,124,784:26:0	
2537	99	225	19:22:37.666	118JT110A111A4C	7STRP	0.007,-0.00055,4	Slew =,3.51	2O0	4	0	5,124,784:49:0	
2538	99	225	19:22:53.000	118JT110A111A4D	7STRP	-0.007,0.00055,0	Slew =,3.51	2O0	4	0	5,124,784:72:0	
2539	99	225	19:23:08.333	118JT110A111A4E	7STRP	0.007,-0.00055,4	Slew =,3.51	2O0	4	0	5,124,785:04:0	
2540	99	225	19:23:23.666	118JT110A111A4F	7STRP	-0.007,0.00055,0	Slew =,3.51	2O0	4	0	5,124,785:27:0	
2541	99	225	19:23:39.000	118JT110A111A4G	7STRP	0.007,-0.00055,4	Slew =,3.51	2O0	4	0	5,124,785:50:0	
2542	99	225	19:23:54.333	118JT11A	**SMOS**	GE		2O0	4	0	5,124,785:73:0	
2543	99	225	19:24:06.333	175KP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,786:00:0	
2544	99	225	19:24:06.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2504.99 +/- 3	2O0	4	0	5,124,786:00:0	
2545	99	225	19:24:07.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2503.99 +/- 3	2O0	4	0	5,124,786:01:8	
2546	99	225	19:38:15.000	165JU4A	7SCAN	NORM,106.445,24.	Check S/P Position	2O0	4	0	5,124,799:90:0	
2547	99	225	19:40:06.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2503.99 +/- 3	2O0	4	0	5,124,801:75:0	
2548	99	225	19:40:06.333	175KQ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,801:75:0	
2549	99	225	19:40:07.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2504.11 +/- 3	2O0	4	0	5,124,801:77:1	
2550	99	225	19:40:09.000	118JU	**SMOS**	GS		2O0	4	0	5,124,801:79:0	
2551	99	225	19:40:13.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2505.34 +/- 3	2O0	4	0	5,124,801:85:0	
2552	99	225	19:40:14.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *2505.40 +/- 3	2O0	4	0	5,124,801:86:8	
2553	99	225	19:40:17.666	175KQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,802:01:0	
2554	99	225	19:40:18.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2499.10 +/- 3	2O0	4	0	5,124,802:01:8	
2555	99	225	19:40:18.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 2499.10 +/- 3	2O0	4	0	5,124,802:01:8	
2556	99	225	19:40:19.000	118JU110A111A4A	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,802:03:0	
2557	99	225	19:40:34.333	118JU110A111A4B	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,802:26:0	
2558	99	225	19:40:49.666	118JU110A111A4C	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,802:49:0	
2559	99	225	19:41:05.000	118JU110A111A4D	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,802:72:0	
2560	99	225	19:41:20.333	118JU110A111A4E	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,803:04:0	
2561	99	225	19:41:35.666	118JU110A111A4F	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,803:27:0	
2562	99	225	19:41:51.000	118JU110A111A4G	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,803:50:0	
2563	99	225	19:42:06.333	118JU11A	**SMOS**	GE		2O0	4	0	5,124,803:73:0	
2564	99	225	19:42:17.666	165JV4A	7SCAN	NORM,107.181,24.	Check S/P Position	2O0	4	0	5,124,803:90:0	
2565	99	225	19:42:18.333	175KQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,804:00:0	
2566	99	225	19:42:18.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2076.76 +/- 3	2O0	4	0	5,124,804:00:0	
2567	99	225	19:42:19.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2075.76 +/- 3	2O0	4	0	5,124,804:01:8	
2568	99	225	19:44:09.000	175KR422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,805:75:0	
2569	99	225	19:44:09.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2075.76 +/- 3	2O0	4	0	5,124,805:75:0	
2570	99	225	19:44:10.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2075.88 +/- 3	2O0	4	0	5,124,805:77:1	
2571	99	225	19:44:11.666	118JV	**SMOS**	GS		2O0	4	0	5,124,805:79:0	
2572	99	225	19:44:15.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2077.11 +/- 3	2O0	4	0	5,124,805:85:0	
2573	99	225	19:44:16.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *2077.17 +/- 3	2O0	4	0	5,124,805:86:8	
2574	99	225	19:44:20.333	175KR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,806:01:0	
2575	99	225	19:44:20.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 2070.87 +/- 3	2O0	4	0	5,124,806:01:8	
2576	99	225	19:44:20.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2070.87 +/- 3	2O0	4	0	5,124,806:01:8	
2577	99	225	19:44:21.666	118JV110A111A4A	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,806:03:0	
2578	99	225	19:44:37.000	118JV110A111A4B	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,806:26:0	
2579	99	225	19:44:52.333	118JV110A111A4C	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,806:49:0	
2580	99	225	19:45:07.666	118JV110A111A4D	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,806:72:0	
2581	99	225	19:45:23.000	118JV110A111A4E	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,807:04:0	
2582	99	225	19:45:38.333	118JV110A111A4F	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,807:27:0	
2583	99	225	19:45:53.666	118JV110A111A4G	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,807:50:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2584	99	225	19:46:09.000	118JV11A	**SMOS**	GE		2O0	4	0	5,124,807:73:0	
2585	99	225	19:46:20.333	165JW4A	7SCAN	NORM,107.860999,	Check S/P Position	2O0	4	0	5,124,807:90:0	
2586	99	225	19:46:21.000		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *1648.53 +/- 3	2O0	4	0	5,124,808:00:0	
2587	99	225	19:46:21.000	175KR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,808:00:0	
2588	99	225	19:46:22.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1647.53 +/- 3	2O0	4	0	5,124,808:01:8	
2589	99	225	19:48:11.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1647.53 +/- 3	2O0	4	0	5,124,809:75:0	
2590	99	225	19:48:11.666	175KS422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	5,124,809:75:0	
2591	99	225	19:48:13.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1647.65 +/- 3	2O0	4	0	5,124,809:77:1	
2592	99	225	19:48:14.333	118JW	**SMOS**	GS		2O0	4	0	5,124,809:79:0	
2593	99	225	19:48:18.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1648.88 +/- 3	2O0	4	0	5,124,809:85:0	
2594	99	225	19:48:19.533		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *1648.94 +/- 3	2O0	4	0	5,124,809:86:8	
2595	99	225	19:48:23.000	175KS176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2O0	4	0	5,124,810:01:0	
2596	99	225	19:48:23.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *1642.64 +/- 3	2O0	4	0	5,124,810:01:8	
2597	99	225	19:48:23.533		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 1642.64 +/- 3	2O0	4	0	5,124,810:01:8	
2598	99	225	19:48:24.333	118JW110A111A4A	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,810:03:0	
2599	99	225	19:48:39.666	118JW110A111A4B	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,810:26:0	
2600	99	225	19:48:55.000	118JW110A111A4C	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,810:49:0	
2601	99	225	19:49:10.333	118JW110A111A4D	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,810:72:0	
2602	99	225	19:49:25.666	118JW110A111A4E	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,811:04:0	
2603	99	225	19:49:41.000	118JW110A111A4F	7STRP	-0.0069,0.00041,	Slew =,3.51	2O0	4	0	5,124,811:27:0	
2604	99	225	19:49:56.333	118JW110A111A4G	7STRP	0.007,-0.00041,4	Slew =,3.51	2O0	4	0	5,124,811:50:0	
2605	99	225	19:50:11.666	118JW11A	**SMOS**	GE		2O0	4	0	5,124,811:73:0	
2606	99	225	19:50:23.666	175KS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,124,812:00:0	
2607	99	225	19:50:23.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *1220.30 +/- 3	2O0	4	0	5,124,812:00:0	
2608	99	225	19:50:24.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1219.30 +/- 4	2O0	4	0	5,124,812:01:8	
2609	99	225	19:52:24.333	165BA4A	7SCAN	NORM,125.566999,	Check S/P Position	2O0	4	0	5,124,813:90:0	
2610	99	225	20:14:04.333	20VL4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,124,835:38:0	
2611	99	225	20:14:54.333	20VL4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,124,836:22:0	
2612	99	225	20:16:41.000	176WA6A	6TMREC	IPB	INITIATE PLAYBACK (PB CONTROL) Record Mod	2O0	4	0	5,124,838:00:0	
2613	99	225	20:45:00.333	488AI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,124,866:01:0	
2614	99	225	21:59:26.333	488AI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,124,939:57:0	
2615	99	225	22:25:02.333	488AI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,124,964:86:0	
2616	99	225	23:17:40.333	176CM6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,125,017:00:0	
2617	99	225	23:20:41.666	165AI4A	7SCAN	NORM,109.771,21.	Check S/P Position	2O0	4	0	5,125,019:90:0	
2618	99	225	23:24:43.666	165AI4B	7VECT		Inert vect update UTC	2O0	4	0	5,125,023:89:0	
2619	99	225	23:25:53.666	20SJ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,125,025:12:0	
2620	99	225	23:26:43.666	20SJ4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,125,025:87:0	
2621	99	225	23:27:47.000	176CN6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,125,027:00:0	
2622	99	225	23:37:34.333	488AI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,036:62:0	
2623	99	225	23:52:29.666	488AI6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,051:40:0	
2624	99	226	00:21:35.666	488AJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,080:20:0	
2625	99	226	00:50:41.666	176CA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,125,109:00:0	
2626	99	226	00:55:44.333	165BB4A	7SCAN	NORM,125.566999,	Check S/P Position	2O0	4	0	5,125,113:90:0	
2627	99	226	00:58:55.000	20SC4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,125,117:12:0	
2628	99	226	00:59:45.000	20SC4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,125,117:87:0	
2629	99	226	01:00:48.333	176CB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,125,119:00:0	
2630	99	226	06:05:50.333	488AJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,125,420:62:0	
2631	99	226	06:37:50.333	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,452:30:0	
2632	99	226	07:28:29.000	488AK6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,502:38:0	
2633	99	226	07:30:09.000	488AK6C	6TMSED	FILL,DL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,504:06:0	
2634	99	226	08:00:00.333	481UB4A	7VECT	BB2	Inert vect update UTC	2O0	4	0	5,125,533:54:0	
2635	99	226	09:13:34.333	488AK6D	6TMSED	FILL,DL6	Sci, Eng, and D/L Chan	2O0	4	0	5,125,606:32:0	
2636	99	226	09:31:28.933	488AK6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,125,624:06:0	
2637	99	226	09:34:11.600	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,125,626:68:0	
2638	99	226	10:32:03.600	432JB6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	2O0	4	0	5,125,683:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2639	99	226	11:08:27.600	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	5,125,719:89:0	
2640	99	226	11:11:37.600	20YC6A	6HICON			2O0	4	0	5,125,723:10:0	
2641	99	226	11:12:31.600	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	5,125,724:00:0	
2642	99	226	13:28:00.933	176CC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,125,858:00:0	
2643	99	226	13:32:02.933	165CF4A	7SCAN	NORM,87.360999,2	Check S/P Position	2O0	4	0	5,125,861:90:0	
2644	99	226	13:35:04.266	165CF4B	7VECT		Inert vect update UTC	2O0	4	0	5,125,864:89:0	
2645	99	226	13:35:58.266	488AL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,125,865:79:0	
2646	99	226	13:36:14.266	20SD4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,125,866:12:0	
2647	99	226	13:37:04.266	20SD4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,125,866:87:0	
2648	99	226	13:38:07.600	176CD6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,125,868:00:0	
2649	99	226	14:07:58.266	488AL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,897:47:0	
2650	99	226	14:25:38.933	176CE6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,125,915:00:0	
2651	99	226	14:31:42.266	165CG4A	7SCAN	NORM,88.903999,2	Check S/P Position	2O0	4	0	5,125,920:90:0	
2652	99	226	14:32:42.266	165CG4B	7VECT		Inert vect update UTC	2O0	4	0	5,125,921:89:0	
2653	99	226	14:32:51.600	20SE4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,125,922:12:0	
2654	99	226	14:33:41.600	20SE4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,125,922:87:0	
2655	99	226	14:35:45.600	176CF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,125,925:00:0	
2656	99	226	14:42:25.600	488AL6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,931:54:0	
2657	99	226	14:58:00.266	176CG6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,125,947:00:0	
2658	99	226	15:04:03.600	165CH4A	7SCAN	NORM,89.582,25.2	Check S/P Position	2O0	4	0	5,125,952:90:0	
2659	99	226	15:05:03.600	165CH4B	7VECT		Inert vect update UTC	2O0	4	0	5,125,953:89:0	
2660	99	226	15:06:13.600	20SF4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,125,955:12:0	
2661	99	226	15:07:03.600	20SF4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,125,955:87:0	
2662	99	226	15:08:06.933	176CH6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,125,957:00:0	
2663	99	226	15:16:31.600	488AL6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,125,965:29:0	
2664	99	226	16:01:42.266	176CI6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,126,010:00:0	
2665	99	226	16:07:45.600	165CI4A	7SCAN	NORM,90.896,25.2	Check S/P Position	2O0	4	0	5,126,015:90:0	
2666	99	226	16:08:45.600	165CI4B	7VECT		Inert vect update UTC	2O0	4	0	5,126,016:89:0	
2667	99	226	16:09:55.600	20SG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,126,018:12:0	
2668	99	226	16:10:45.600	20SG4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,126,018:87:0	
2669	99	226	16:11:48.933	176CJ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,126,020:00:0	
2670	99	226	16:43:09.600	176CK6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,126,051:00:0	
2671	99	226	16:49:12.933	165CJ4A	7SCAN	NORM,92.052999,2	Check S/P Position	2O0	4	0	5,126,056:90:0	
2672	99	226	16:50:12.933	165CJ4B	7VECT		Inert vect update UTC	2O0	4	0	5,126,057:89:0	
2673	99	226	16:51:22.933	20SH4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,126,059:12:0	
2674	99	226	16:52:12.933	20SH4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,126,059:87:0	
2675	99	226	16:53:16.266	176CL6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,126,061:00:0	
2676	99	226	17:57:58.933	176SD6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,126,125:00:0	
2677	99	226	18:00:06.266	20KA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,126,127:09:0	
2678	99	226	18:07:04.266	20SI4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,126,133:90:0	
2679	99	226	18:07:54.266	20SI4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,126,134:74:0	
2680	99	226	18:10:06.933	176SC6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,126,137:00:0	
2681	99	226	20:30:00.266	41AB99A	**POWER**	PWR MODE change	Change to Maneuver/Playback Mode	2O0	4	0	5,126,275:32:0	
2682	**99**	**226**	**20:31:54.266**	**41AB3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**5,126,277:21:0**	
2683	**99**	**226**	**20:32:04.266**	**41AB3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**5,126,277:36:0**	
2684	**99**	**226**	**20:32:14.266**	**41AB3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**5,126,277:51:0**	
2685	**99**	**226**	**20:32:24.266**	**41AB3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**5,126,277:66:0**	
2686	99	226	21:47:30.266	176SA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,126,352:00:0	
2687	**99**	**226**	**22:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2688	**99**	**226**	**22:00:00.000**	**20A3FF**	**40T2**	**Final Condition**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2689	**99**	**226**	**22:00:00.000**	**20A3FE**	**40T1P**	**Final Condition**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2690	**99**	**226**	**22:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2691	**99**	**226**	**22:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2692	**99**	**226**	**22:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2693	**99**	**226**	**22:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2694	**99**	**226**	**22:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2695	**99**	**226**	**22:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2696	99	226	22:00:00.266		DMS:	: READY	RDY, TRACK 2, REV, TIC 1219.30 +/- 4	2O0	4	0	5,126,364:33:0	

			Sequence:	C22BFD		Created: 7/28/99	Begin: 99-226/22:00:00 Finish: 99-256/20:00:00					
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	**99**	**226**	**22:00:00.000**	**20A3FE**	**40T1P**	**CMD,40T1P,20A3FE**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
2	**99**	**226**	**22:00:00.000**	**20A3EW**	**37A**	**CMD,37A,20A3EW,,**	**NIMS Power ON**	**2O0**	**4**	**0**	**5,126,364:32:6**	
3	**99**	**226**	**22:00:00.000**	**20A3EX**	**37HR**	**CMD,37HR,20A3EX,**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**5,126,364:32:6**	
4	**99**	**226**	**22:00:00.000**	**20A3EY**	**37C1PR**	**CMD,37C1PR,20A3E**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
5	**99**	**226**	**22:00:00.000**	**20A3EZ**	**37C2PR**	**CMD,37C2PR,20A3E**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
6	**99**	**226**	**22:00:00.000**	**20A3FA**	**37F1PR**	**CMD,37F1PR,20A3F**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
7	**99**	**226**	**22:00:00.000**	**20A3FB**	**37F2PR**	**CMD,37F2PR,20A3F**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
8	**99**	**226**	**22:00:00.000**	**20A3FD**	**40HRPR**	**CMD,40HRPR,20A3F**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,126,364:32:6**	
9	**99**	**226**	**22:00:00.000**	**20A3FF**	**40T2**	**CMD,40T2,20A3FF,**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**5,126,364:32:6**	
10	99	226	22:00:00.266		DMS:	: READY	RDY, TRACK 2, REV, TIC 1219.30 +/- 4	2O0	4	0	5,126,364:33:0	
11	99	226	22:01:34.266	488AA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,126,365:83:0	
12	**99**	**226**	**22:01:38.266**	**432NA6B**	**6RTDS2**	**NIMDSL,AACDSL,RT**	**NIMS R/T DESELECTAACS DESELECT**	**2O0**	**4**	**0**	**5,126,365:89:0**	
13	99	226	22:05:04.266	20WA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,126,369:34:0	
14	99	226	22:05:54.266	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,126,370:18:0	
15	99	226	22:06:42.933	176SA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,126,371:00:0	
16	99	226	22:48:30.266	488AA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,126,412:30:0	
17	99	226	23:42:23.600	488AA6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,126,465:57:0	
18	99	227	00:03:10.266	488AA6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,126,486:16:0	
19	99	227	00:09:29.600	488AA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,126,492:39:0	
20	99	227	08:45:50.266	488AB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,127,003:09:0	
21	99	227	09:49:50.266	488AB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,127,066:36:0	
22	99	227	09:58:48.266	488AB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,127,075:24:0	
23	99	227	10:09:02.266	488AB6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,127,085:35:0	
24	99	227	13:35:40.933	488AB6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,127,289:69:0	
25	99	227	13:53:02.266	488AC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,127,306:84:0	
26	99	227	15:57:28.933	176ST6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,127,430:00:0	
27	99	227	16:02:00.266	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,127,434:43:0	
28	99	227	16:03:00.266	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2O0	4	0	5,127,435:42:0	
29	99	227	16:03:10.266	488AC6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,127,435:57:0	
30	99	227	16:05:00.266	20UQ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,127,437:40:0	
31	99	227	16:10:30.266	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2O0	4	0	5,127,442:80:0	
32	99	227	16:10:30.933	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2O0	4	0	5,127,442:81:0	
33	99	227	16:10:50.933	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2O0	4	0	5,127,443:20:0	
34	99	227	16:10:51.600	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2O0	4	0	5,127,443:21:0	
35	99	227	16:11:11.600	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	5,127,443:51:0	
36	99	227	16:11:12.266	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	5,127,443:52:0	
37	99	227	16:11:22.266	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	5,127,443:67:0	
38	99	227	16:11:22.933	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	5,127,443:68:0	
39	99	227	16:11:32.933	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2O0	4	0	5,127,443:83:0	
40	99	227	16:11:33.600	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2O0	4	0	5,127,443:84:0	
41	99	227	16:13:20.266	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2O0	4	0	5,127,445:62:0	
42	99	227	16:13:20.933	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2O0	4	0	5,127,445:63:0	
43	99	227	16:13:40.933	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2O0	4	0	5,127,446:02:0	
44	99	227	16:13:41.600	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2O0	4	0	5,127,446:03:0	
45	99	227	16:14:01.600	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	5,127,446:33:0	
46	99	227	16:14:02.266	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	5,127,446:34:0	
47	99	227	16:14:12.266	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	5,127,446:49:0	
48	99	227	16:14:12.933	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	5,127,446:50:0	
49	99	227	16:14:22.933	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2O0	4	0	5,127,446:65:0	
50	99	227	16:14:23.600	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2O0	4	0	5,127,446:66:0	
51	99	227	16:15:20.266	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,127,447:60:0	
52	99	227	16:40:04.266	20UJ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,127,472:11:0	
53	99	227	16:40:54.266	20UJ4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,127,472:86:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	99	227	16:42:58.933	176SU6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,127,475:00:0	
55	99	227	17:05:00.266	488AC6C	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	2O0	4	0	5,127,496:71:0	
56	99	227	17:08:15.600	176SL6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,127,500:00:0	
57	99	227	17:39:00.200	20SV4I	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	5,127,530:37:0	
58	99	227	17:54:00.200	20SV4K	7SLEW	INIT,POS,17.45	Stator movement	2O0	4	0	5,127,545:22:0	
59	99	227	18:06:00.200	20SV4L	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,127,557:10:0	
60	99	227	18:13:00.200	20SV4M	7SLEW	INIT,NEG,17.45	Stator movement	2O0	4	0	5,127,564:03:0	
61	99	227	18:25:00.200	20SV4N	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,127,575:82:0	
62	99	227	18:37:00.200	20SV4AH	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,127,587:70:0	
63	99	227	18:53:04.200	20SU4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,127,603:60:0	
64	99	227	18:53:54.200	20SU4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,127,604:44:0	
65	99	227	18:54:25.533	176TE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,127,605:00:0	
66	99	227	19:13:00.200	488AC6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,127,623:34:0	
67	99	227	20:06:22.200	488AD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,127,676:14:0	
68	99	227	22:10:06.200	488AD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,127,798:48:0	
69	99	227	22:31:26.200	488AD6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,127,819:57:0	
70	99	227	22:48:30.200	488AD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,127,836:46:0	
71	99	227	23:43:58.200	488AD6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,127,891:33:0	
72	99	228	05:59:26.200	488AE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,128,262:64:0	
73	99	228	06:44:14.200	488AE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,128,307:01:0	
74	99	228	13:25:18.200	488AF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,128,703:61:0	
75	99	228	13:48:46.200	488AF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,128,726:80:0	
76	99	228	15:43:58.200	488AF6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,128,840:74:0	
77	99	228	20:10:38.200	488AG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,129,104:50:0	
78	99	228	20:56:58.866	488AG6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,129,150:35:0	
79	99	228	20:59:42.200	488AG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,129,153:07:0	
80	99	228	22:12:35.533	488AG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,129,225:15:0	
81	99	228	23:03:26.200	488AG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,129,275:41:0	
82	99	228	23:37:11.533	488AH6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,129,308:76:0	
83	99	229	00:06:17.533	488AH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,129,337:56:0	
84	99	229	01:54:06.133	488AH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,129,444:22:0	
85	99	229	04:57:34.133	488AH6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,129,625:63:0	
86	99	229	04:59:42.133	488AH6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,129,627:73:0	
87	99	229	13:25:52.800	488AI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,130,128:38:0	
88	99	229	13:42:22.133	488AI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,130,144:66:0	
89	99	229	15:33:18.133	488AI6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,130,254:40:0	
90	99	229	20:14:54.133	488AJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,130,532:86:0	
91	99	229	22:05:50.133	488AJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,130,642:60:0	
92	99	229	22:20:46.133	488AJ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,130,657:39:0	
93	99	229	22:37:50.133	488AJ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,130,674:28:0	
94	99	229	23:29:02.133	488AJ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,130,724:86:0	
95	99	230	03:26:46.133	488AK6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,130,960:06:0	
96	99	230	03:30:06.133	488AK6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,130,963:33:0	
97	99	230	13:28:06.066	488AL6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,131,554:72:0	
98	99	230	13:38:06.066	488AL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,131,564:62:0	
99	99	230	15:29:02.066	488AL6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,131,674:36:0	
100	99	230	20:14:54.066	488AM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,131,957:11:0	
101	99	230	22:05:50.066	488AM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,132,066:76:0	
102	99	230	22:16:30.066	488AM6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,132,077:35:0	
103	99	230	22:48:30.066	488AM6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,132,109:03:0	
104	99	230	23:36:59.400	488AM6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,132,156:90:0	
105	99	231	00:06:05.400	488AN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,132,185:70:0	
106	99	231	01:24:14.066	488AN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,132,263:05:0	
107	99	231	05:31:42.066	488AN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,132,507:73:0	
108	99	231	06:07:58.066	488AO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,132,543:61:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	99	231	06:56:57.400	488AO6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,132,592:11:0	
110	99	231	07:29:02.066	488AO6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,132,623:77:0	
111	99	231	07:30:38.066	488AO6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,132,625:39:0	
112	99	231	13:16:46.066	488AP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,132,967:69:0	
113	99	231	13:33:50.066	488AP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,132,984:58:0	
114	99	231	14:33:18.733	488AP6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,133,043:42:0	
115	99	231	15:00:08.066	488AP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,133,069:90:0	
116	99	231	15:03:00.066	488AP6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,133,072:75:0	
117	99	231	15:07:13.400	176SB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,133,077:00:0	
118	99	231	15:18:22.066	488AQ6A	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	2O0	4	0	5,133,088:02:0	
119	99	231	20:14:54.000	488AQ6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,133,381:27:0	
120	99	231	21:11:00.000	488AQ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,133,436:71:0	
121	99	231	21:11:13.333	176SC6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,133,437:00:0	
122	99	231	22:01:34.000	488AR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,133,486:72:0	
123	99	231	22:44:14.000	488AR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,133,528:90:0	
124	99	231	23:26:53.333	488AR6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,133,571:16:0	
125	99	231	23:55:59.333	488AR6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,133,599:87:0	
126	99	232	01:09:18.000	488AR6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,133,672:42:0	
127	99	232	06:50:38.000	488AS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,134,010:04:0	
128	99	232	09:11:26.000	488AS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,134,149:27:0	
129	99	232	09:44:18.000	488AS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,134,181:73:0	
130	99	232	09:54:06.000	488AS6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,134,191:45:0	
131	99	232	13:16:10.666	488AT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,134,391:32:0	
132	99	232	13:29:34.000	488AT6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,134,404:54:0	
133	99	232	15:14:06.000	488AT6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,134,507:89:0	
134	99	232	20:14:54.000	488AU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,134,805:43:0	
135	99	232	21:55:10.000	488AU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,134,904:58:0	
136	99	232	22:12:44.000	488AU6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,134,922:01:0	
137	99	232	22:16:30.000	488AU6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2O0	4	0	5,134,925:67:0	
138	99	232	22:52:46.000	488AU6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,134,961:55:0	
139	99	233	13:11:17.933	488AV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,135,810:64:0	
140	99	233	13:23:09.933	488AV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,135,822:40:0	
141	99	233	15:09:49.933	488AV6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,135,927:85:0	
142	99	233	20:10:37.933	488AW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,136,225:39:0	
143	99	233	21:55:09.933	488AW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,136,328:74:0	
144	99	233	22:10:05.933	488AW6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,136,343:53:0	
145	99	233	22:12:22.600	488AW6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,136,345:76:0	
146	99	233	22:31:25.933	488AW6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,136,364:62:0	
147	99	234	07:15:27.933	488AX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,136,882:87:0	
148	99	234	13:01:49.866	488AX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,137,225:47:0	
149	99	234	13:23:09.866	488AY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,137,246:56:0	
150	99	234	14:16:37.200	488AY6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,137,299:44:0	
151	99	234	14:45:43.866	488AY6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,137,328:25:0	
152	99	234	15:09:49.866	488AY6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,137,352:10:0	
153	99	234	20:06:21.866	488AZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,137,645:35:0	
154	99	234	21:36:33.200	488AZ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,137,734:53:0	
155	99	234	21:40:13.866	488AZ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,137,738:20:0	
156	99	235	05:38:14.533	488BA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,138,210:89:0	
157	99	235	05:48:45.866	488BA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,138,221:35:0	
158	99	235	06:51:33.200	488BA6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,138,283:44:0	
159	99	235	07:14:05.866	488BA6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,138,305:71:0	
160	99	235	07:19:06.533	488BA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,138,310:67:0	
161	99	235	14:54:53.866	488BB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,138,761:47:0	
162	99	235	15:14:17.866	488BB6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,138,780:64:0	
163	99	235	15:38:50.533	488BB6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,138,804:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	99	235	20:10:37.800	488BB6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,139,073:71:0	
165	99	235	20:58:24.466	488BC6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,139,121:03:0	
166	99	235	21:01:49.800	488BC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,139,124:38:0	
167	99	235	21:48:18.466	488BC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,139,170:35:0	
168	99	235	22:03:41.800	488BC6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,139,185:55:0	
169	99	235	22:54:53.800	488BC6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,139,236:22:0	
170	99	235	23:57:20.466	176NL6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,139,298:00:0	
171	99	235	23:57:59.800	488BD6A	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	2O0	4	0	5,139,298:59:0	
172	99	236	00:00:07.800	20BC4A	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,139,300:69:0	
173	**99**	**236**	**00:02:29.800**	**20BC6A**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,303:09:0**	
174	**99**	**236**	**00:07:59.800**	**20BC6B**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,308:49:0**	
175	**99**	**236**	**00:13:29.800**	**20BC6C**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,313:89:0**	
176	**99**	**236**	**00:18:59.800**	**20BC6D**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,319:38:0**	
177	**99**	**236**	**00:24:29.800**	**20BC6E**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,324:78:0**	
178	**99**	**236**	**00:29:59.800**	**20BC6F**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,330:27:0**	
179	**99**	**236**	**00:35:29.800**	**20BC6G**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,335:67:0**	
180	**99**	**236**	**00:40:59.800**	**20BC6H**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,341:16:0**	
181	**99**	**236**	**00:46:29.800**	**20BC6I**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,346:56:0**	
182	**99**	**236**	**00:51:59.800**	**20BC6J**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,352:05:0**	
183	**99**	**236**	**00:57:29.800**	**20BC6K**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,357:45:0**	
184	**99**	**236**	**01:02:59.800**	**20BC6L**	**6MROH**	**7,696B,11,A40**	**read from AACSA7,696B,11,A4**	**2O0**	**4**	**0**	**5,139,362:85:0**	
185	99	236	01:11:03.800	20NO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,139,370:83:0	
186	99	236	01:11:53.800	20NO4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,139,371:67:0	
187	99	236	01:12:09.800	176NM6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,139,372:00:0	
188	99	236	01:19:59.800	488BD6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,139,379:68:0	
189	99	236	08:30:53.800	488BE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,139,805:83:0	
190	99	236	09:22:05.800	488BE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,139,856:50:0	
191	99	236	09:24:42.466	488BE6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,139,859:12:0	
192	99	236	09:34:53.800	488BE6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,139,869:19:0	
193	99	236	15:29:49.133	488BF6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,140,220:21:0	
194	99	236	20:10:37.800	488BF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,140,497:87:0	
195	99	236	21:46:37.800	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,140,592:82:0	
196	99	236	22:01:33.800	488BG6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,140,607:61:0	
197	99	236	22:02:40.466	488BG6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,140,608:70:0	
198	99	236	22:22:53.800	488BG6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,140,628:70:0	
199	99	237	06:55:46.400	488BH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,141,136:01:0	
200	99	237	08:12:43.733	488BH6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,141,212:11:0	
201	99	237	08:39:33.066	488BH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,141,238:59:0	
202	99	237	12:51:09.733	488BH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,141,487:45:0	
203	99	237	13:08:13.733	488BI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,141,504:34:0	
204	99	237	14:07:42.400	488BI6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,141,563:18:0	
205	99	237	14:34:32.400	488BI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,141,589:67:0	
206	99	237	14:39:57.733	488BI6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,141,595:09:0	
207	99	237	20:06:21.733	488BJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,141,917:83:0	
208	99	237	21:42:21.733	488BJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,142,012:78:0	
209	99	237	21:57:17.733	488BJ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,142,027:57:0	
210	99	237	21:57:46.400	488BJ6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,142,028:09:0	
211	99	237	22:18:37.733	488BJ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,142,048:66:0	
212	99	238	10:58:15.000	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	5,142,800:00:0	
213	99	238	12:53:34.333	488BK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,142,914:05:0	
214	99	238	13:03:57.666	488BK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,142,924:30:0	
215	99	238	14:01:13.666	488BK6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,142,980:88:0	
216	99	238	14:30:19.666	488BK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,143,009:68:0	
217	99	238	14:33:33.666	488BK6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,143,012:86:0	
218	99	238	20:06:21.666	488BL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,143,342:08:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	99	238	21:35:57.666	488BL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,143,430	64:0
220	99	238	21:53:49.666	488BL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,143,448	34:0
221	99	238	21:57:17.666	488BL6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,143,451	73:0
222	99	238	22:07:57.666	488BL6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,143,462	32:0
223	99	239	00:00:00.333	481UA4A	7VECT		Inert vect update UTC	2O0	4	0	5,143,573	15:0
224	99	239	06:40:59.000	488BM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,143,969	67:0
225	99	239	07:57:31.666	488BM6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,144,045	40:0
226	99	239	08:24:21.000	488BM6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,144,071	88:0
227	99	239	12:42:37.666	488BN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,144,327	37:0
228	99	239	12:59:41.666	488BN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,144,344	26:0
229	99	239	14:02:29.666	488BN6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,144,406	36:0
230	99	239	14:29:17.666	488BN6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,144,432	82:0
231	99	239	14:29:19.000	488BN6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,144,432	84:0
232	99	239	15:23:00.333	488BO6A	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	2O0	4	0	5,144,486	02:0
233	99	239	15:27:01.666	176SD6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,144,490	00:0
234	99	239	20:06:21.600	488BO6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,144,766	24:0
235	99	239	21:01:00.266	488BO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,144,820	28:0
236	99	239	21:01:42.266	176SE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,144,821	00:0
237	99	239	21:35:57.600	488BP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,144,854	80:0
238	99	239	21:46:37.600	488BP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,144,865	39:0
239	99	239	21:50:02.933	488BP6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,144,868	74:0
240	99	240	12:48:46.266	488BQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,145,757	60:0
241	99	240	12:59:41.600	488BQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,145,768	42:0
242	99	240	13:51:00.266	488BQ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,145,819	19:0
243	99	240	14:18:37.600	488BQ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,145,846	48:0
244	99	240	14:19:49.600	488BQ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,145,847	65:0
245	99	240	20:06:21.600	488BR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,146,190	40:0
246	99	240	21:31:41.600	488BR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,146,274	76:0
247	99	240	21:44:24.266	488BR6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,146,287	37:0
248	99	240	21:46:37.600	488BR6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,146,289	55:0
249	99	240	22:01:33.600	488BR6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,146,304	34:0
250	99	241	06:51:11.533	488BS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,146,828	17:0
251	99	241	08:28:45.533	488BS6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,146,924	62:0
252	99	241	12:36:13.533	488BS6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,147,169	39:0
253	99	241	12:55:25.533	488BT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,147,188	38:0
254	99	241	14:14:21.533	488BT6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,147,266	44:0
255	99	241	20:02:05.533	488BU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,147,610	36:0
256	99	241	21:27:25.533	488BU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,147,694	72:0
257	99	241	21:42:21.533	488BU6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,147,709	51:0
258	99	241	21:43:11.533	488BU6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,147,710	35:0
259	99	241	22:03:41.533	488BU6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,147,730	60:0
260	99	242	04:58:56.200	488BV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,148,141	31:0
261	99	242	05:14:37.533	488BV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,148,156	78:0
262	99	242	06:18:37.533	488BV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,148,220	14:0
263	99	242	06:22:13.533	488BV6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,148,223	65:0
264	99	242	06:49:03.533	488BV6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,148,250	23:0
265	99	242	12:31:57.466	488BW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,148,589	35:0
266	99	242	12:49:01.466	488BW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,148,606	24:0
267	99	242	13:40:48.800	488BW6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,148,657	44:0
268	99	242	14:12:13.466	488BW6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,148,688	50:0
269	99	242	14:14:19.466	488BW6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,148,690	57:0
270	99	242	15:05:00.133	488BX6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,148,740	68:0
271	99	242	15:08:17.466	176TC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,148,744	00:0
272	99	242	15:34:30.133	20SY4I	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	5,148,769	84:0
273	99	242	15:49:30.133	20SY4K	7SLEW	INIT,POS,17.45	Stator movement	2O0	4	0	5,148,784	69:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	99	242	16:01:30.133	20SY4L	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,148,796:57:0	
275	99	242	16:08:30.133	20SY4M	7SLEW	INIT,NEG,17.45	Stator movement	2O0	4	0	5,148,803:50:0	
276	99	242	16:20:30.133	20SY4N	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,148,815:38:0	
277	99	242	16:27:30.133	20SY4O	7SLEW	INIT,POS,4.36	Stator movement	2O0	4	0	5,148,822:31:0	
278	99	242	16:39:30.133	20SY4P	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,148,834:19:0	
279	99	242	16:46:30.133	20SY4Q	7SLEW	INIT,NEG,4.36	Stator movement	2O0	4	0	5,148,841:12:0	
280	99	242	16:58:30.133	20SY4R	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,148,853:00:0	
281	99	242	17:10:30.133	20SY4AH	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,148,864:79:0	
282	99	242	17:41:04.133	20TA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,148,895:09:0	
283	99	242	17:41:54.133	20TA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,148,895:84:0	
284	99	242	17:42:59.466	176TJ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,148,897:00:0	
285	99	242	17:44:00.133	488BX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,148,898:00:0	
286	99	242	20:02:05.466	488BX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,149,034:52:0	
287	99	242	20:58:08.800	488BX6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,149,090:01:0	
288	99	243	04:57:16.800	488BY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,149,563:80:0	
289	99	243	05:29:33.466	488BY6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,149,595:73:0	
290	99	243	08:05:17.466	488BY6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,149,749:75:0	
291	99	243	12:27:41.466	488BZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,150,009:31:0	
292	99	243	12:44:45.466	488BZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,150,026:20:0	
293	99	243	14:05:49.466	488BZ6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,150,106:36:0	
294	99	243	19:57:49.400	488CA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,150,454:48:0	
295	99	243	21:21:01.400	488CA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,150,536:74:0	
296	99	243	21:31:41.400	488CA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,150,547:33:0	
297	99	243	21:34:55.400	488CA6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,150,550:51:0	
298	99	243	21:42:21.400	488CA6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,150,557:83:0	
299	99	243	21:57:17.400	488CB6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,150,572:62:0	
300	99	244	04:57:22.733	488CC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,150,988:14:0	
301	99	244	05:25:17.400	488CC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,151,015:69:0	
302	**99**	**244**	**06:49:31.400**	**22NNDETECT01-**		**-----START------**		**2O0**	**4**	**0**	**: :**	
303	**99**	**244**	**06:49:42.066**	**20DI3A**	**37AR**		**1 NIMS Power OFF**					**5,151,099:22:0**
304	**99**	**244**	**06:49:44.066**	**20DI3B**	**37AR**		**2 NIMS Power OFF**					**5,151,099:25:0**
305	**99**	**244**	**06:50:10.066**	**20DI3C**	**37H**		**1 Replacement Heaters ON**					**5,151,099:64:0**
306	**99**	**244**	**06:50:12.066**	**20DI3D**	**37H**		**2 Replacement Heaters ON**					**5,151,099:67:0**
307	**99**	**244**	**06:54:45.400**	**20DI3E**	**37HR**		**1 Replacement Heaters OFF**					**5,151,104:22:0**
308	**99**	**244**	**06:54:47.400**	**20DI3F**	**37HR**		**2 Replacement Heaters OFF**					**5,151,104:25:0**
309	**99**	**244**	**06:55:13.400**	**20DI3G**	**37A**		**1 NIMS Power ON**	**260**	**4**	**0**	**5,151,104:64:0**	
310	**99**	**244**	**06:55:15.400**	**20DI3H**	**37A**		**2 NIMS Power ON**	**260**	**4**	**0**	**5,151,104:67:0**	
311	**99**	**244**	**06:55:46.733**	**20DI4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,151,105:23:0**	
312	**99**	**244**	**06:56:47.400**	**20DI4B**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,151,106:23:0**	
313	**99**	**244**	**06:57:48.066**	**20DI4C**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**5,151,107:23:0**	
314	**99**	**244**	**07:01:39.400**	**20DJ6A**	**6MCOPY**	**B1A1A,5000,NIMS,**	**B1A1A,5000,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,111:06:0**	
315	**99**	**244**	**07:02:40.733**	**20DJ6B**	**6MCOPY**	**B1A1A,5009,NIMS,**	**B1A1A,5009,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,112:07:0**	
316	**99**	**244**	**07:03:42.066**	**20DJ6C**	**6MCOPY**	**B1A1A,5012,NIMS,**	**B1A1A,5012,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,113:08:0**	
317	**99**	**244**	**07:04:43.400**	**20DJ6D**	**6MCOPY**	**B1A1A,501B,NIMS,**	**B1A1A,501B,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,114:09:0**	
318	**99**	**244**	**07:05:44.733**	**20DJ6E**	**6MCOPY**	**B1A1A,5024,NIMS,**	**B1A1A,5024,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,115:10:0**	
319	**99**	**244**	**07:06:46.066**	**20DJ6F**	**6MCOPY**	**B1A1A,502D,NIMS,**	**B1A1A,502D,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,116:11:0**	
320	**99**	**244**	**07:07:47.400**	**20DJ6G**	**6MCOPY**	**B1A1A,5036,NIMS,**	**B1A1A,5036,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,117:12:0**	
321	**99**	**244**	**07:08:50.733**	**20DJ6H**	**6MCOPY**	**B1A1A,503F,NIMS,**	**B1A1A,503F,NIMS,151B,151C**	**2R5**	**4**	**1**	**5,151,118:16:0**	
322	**99**	**244**	**07:09:44.733**	**20DK6A**	**6MCOPY**	**B1A1A,5041,NIMS,**	**B1A1A,5041,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,119:06:0**	
323	**99**	**244**	**07:10:46.066**	**20DK6B**	**6MCOPY**	**B1A1A,504A,NIMS,**	**B1A1A,504A,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,120:07:0**	
324	**99**	**244**	**07:11:47.400**	**20DK6C**	**6MCOPY**	**B1A1A,5053,NIMS,**	**B1A1A,5053,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,121:08:0**	
325	**99**	**244**	**07:12:48.733**	**20DK6D**	**6MCOPY**	**B1A1A,505C,NIMS,**	**B1A1A,505C,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,122:09:0**	
326	**99**	**244**	**07:13:50.066**	**20DK6E**	**6MCOPY**	**B1A1A,5065,NIMS,**	**B1A1A,5065,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,123:10:0**	
327	**99**	**244**	**07:14:51.400**	**20DK6F**	**6MCOPY**	**B1A1A,506E,NIMS,**	**B1A1A,506E,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,124:11:0**	
328	**99**	**244**	**07:15:52.733**	**20DK6G**	**6MCOPY**	**B1A1A,5077,NIMS,**	**B1A1A,5077,NIMS,150F,1517**	**2R5**	**4**	**1**	**5,151,125:12:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	99	244	07:16:56.066	20DK6H	6MCOPY	B1A1A,5080,NIMS,	B1A1A,5080,NIMS,151B,151C	2R5	4	1	5,151,126:16:0	
330	99	244	07:20:52.066	20DL6A	6MCOPY	B1A1A,5082,NIMS,	B1A1A,5082,NIMS,150F,1517	2R5	4	1	5,151,130:06:0	
331	99	244	07:21:53.400	20DL6B	6MCOPY	B1A1A,508B,NIMS,	B1A1A,508B,NIMS,150F,1517	2R5	4	1	5,151,131:07:0	
332	99	244	07:22:54.733	20DL6C	6MCOPY	B1A1A,5094,NIMS,	B1A1A,5094,NIMS,150F,1517	2R5	4	1	5,151,132:08:0	
333	99	244	07:23:56.066	20DL6D	6MCOPY	B1A1A,509D,NIMS,	B1A1A,509D,NIMS,150F,1517	2R5	4	1	5,151,133:09:0	
334	99	244	07:24:57.400	20DL6E	6MCOPY	B1A1A,50A6,NIMS,	B1A1A,50A6,NIMS,150F,1517	2R5	4	1	5,151,134:10:0	
335	99	244	07:25:58.733	20DL6F	6MCOPY	B1A1A,50AF,NIMS,	B1A1A,50AF,NIMS,150F,1517	2R5	4	1	5,151,135:11:0	
336	99	244	07:27:00.066	20DL6G	6MCOPY	B1A1A,50B8,NIMS,	B1A1A,50B8,NIMS,150F,1517	2R5	4	1	5,151,136:12:0	
337	99	244	07:28:03.400	20DL6H	6MCOPY	B1A1A,50C1,NIMS,	B1A1A,50C1,NIMS,151B,151C	2R5	4	1	5,151,137:16:0	
338	99	244	07:30:47.400	20DM4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,151,139:80:0	
339	99	244	07:36:02.066	20DF6A	6MCOPY	B1A1A,50C3,NIMS,	B1A1A,50C3,NIMS,150F,1517	2R3	4	0	5,151,145:06:0	
340	99	244	07:36:10.733	20DF6B	6MCOPY	B1A1A,50CC,NIMS,	B1A1A,50CC,NIMS,150F,1517	2R3	4	0	5,151,145:19:0	
341	99	244	07:37:03.400	20DF6C	6MCOPY	B1A1A,50D5,NIMS,	B1A1A,50D5,NIMS,150F,1517	2R3	4	0	5,151,146:07:0	
342	99	244	07:37:12.066	20DF6D	6MCOPY	B1A1A,50DE,NIMS,	B1A1A,50DE,NIMS,150F,1517	2R3	4	0	5,151,146:20:0	
343	99	244	07:38:04.733	20DF6E	6MCOPY	B1A1A,50E7,NIMS,	B1A1A,50E7,NIMS,150F,1517	2R3	4	0	5,151,147:08:0	
344	99	244	07:38:13.400	20DF6F	6MCOPY	B1A1A,50F0,NIMS,	B1A1A,50F0,NIMS,150F,1517	2R3	4	0	5,151,147:21:0	
345	99	244	07:39:06.066	20DF6G	6MCOPY	B1A1A,50F9,NIMS,	B1A1A,50F9,NIMS,150F,1517	2R3	4	0	5,151,148:09:0	
346	99	244	07:39:14.733	20DF6H	6MCOPY	B1A1A,5102,NIMS,	B1A1A,5102,NIMS,150F,1517	2R3	4	0	5,151,148:22:0	
347	99	244	07:40:07.400	20DF6I	6MCOPY	B1A1A,510B,NIMS,	B1A1A,510B,NIMS,150F,1517	2R3	4	0	5,151,149:10:0	
348	99	244	07:40:16.066	20DF6J	6MCOPY	B1A1A,5114,NIMS,	B1A1A,5114,NIMS,150F,1517	2R3	4	0	5,151,149:23:0	
349	99	244	07:41:08.733	20DF6K	6MCOPY	B1A1A,511D,NIMS,	B1A1A,511D,NIMS,150F,1517	2R3	4	0	5,151,150:11:0	
350	99	244	07:41:17.400	20DF6L	6MCOPY	B1A1A,5126,NIMS,	B1A1A,5126,NIMS,150F,1517	2R3	4	0	5,151,150:24:0	
351	99	244	07:42:10.066	20DF6M	6MCOPY	B1A1A,512F,NIMS,	B1A1A,512F,NIMS,150F,1517	2R3	4	0	5,151,151:12:0	
352	99	244	07:42:18.733	20DF6N	6MCOPY	B1A1A,5138,NIMS,	B1A1A,5138,NIMS,150F,1517	2R3	4	0	5,151,151:25:0	
353	99	244	07:43:11.400	20DF6O	6MCOPY	B1A1A,5141,NIMS,	B1A1A,5141,NIMS,150F,1517	2R3	4	0	5,151,152:13:0	
354	99	244	07:43:20.066	20DF6P	6MCOPY	B1A1A,514A,NIMS,	B1A1A,514A,NIMS,150F,1517	2R3	4	0	5,151,152:26:0	
355	99	244	07:44:12.733	20DF6Q	6MCOPY	B1A1A,5153,NIMS,	B1A1A,5153,NIMS,150F,1517	2R3	4	0	5,151,153:14:0	
356	99	244	07:44:21.400	20DF6R	6MCOPY	B1A1A,515C,NIMS,	B1A1A,515C,NIMS,150F,1517	2R3	4	0	5,151,153:27:0	
357	99	244	07:45:14.066	20DF6S	6MCOPY	B1A1A,5165,NIMS,	B1A1A,5165,NIMS,150F,1517	2R3	4	0	5,151,154:15:0	
358	99	244	07:45:22.733	20DF6T	6MCOPY	B1A1A,516E,NIMS,	B1A1A,516E,NIMS,150F,1517	2R3	4	0	5,151,154:28:0	
359	99	244	07:46:15.400	20DF6U	6MCOPY	B1A1A,5177,NIMS,	B1A1A,5177,NIMS,150F,1517	2R3	4	0	5,151,155:16:0	
360	99	244	07:46:24.066	20DF6V	6MCOPY	B1A1A,5180,NIMS,	B1A1A,5180,NIMS,150F,1517	2R3	4	0	5,151,155:29:0	
361	99	244	07:47:16.733	20DF6W	6MCOPY	B1A1A,5189,NIMS,	B1A1A,5189,NIMS,150F,1517	2R3	4	0	5,151,156:17:0	
362	99	244	07:47:25.400	20DF6X	6MCOPY	B1A1A,5192,NIMS,	B1A1A,5192,NIMS,150F,1517	2R3	4	0	5,151,156:30:0	
363	99	244	07:48:18.066	20DF6Y	6MCOPY	B1A1A,519B,NIMS,	B1A1A,519B,NIMS,150F,1517	2R3	4	0	5,151,157:18:0	
364	99	244	07:48:26.733	20DF6Z	6MCOPY	B1A1A,51A4,NIMS,	B1A1A,51A4,NIMS,150F,151C	2R3	4	0	5,151,157:31:0	
365	99	244	07:51:12.066	20DG6A	6MCOPY	B1A1A,51B2,NIMS,	B1A1A,51B2,NIMS,150F,1517	2R3	4	0	5,151,160:06:0	
366	99	244	07:51:20.733	20DG6B	6MCOPY	B1A1A,51BB,NIMS,	B1A1A,51BB,NIMS,150F,1517	2R3	4	0	5,151,160:19:0	
367	99	244	07:52:13.400	20DG6C	6MCOPY	B1A1A,51C4,NIMS,	B1A1A,51C4,NIMS,150F,1517	2R3	4	0	5,151,161:07:0	
368	99	244	07:52:22.066	20DG6D	6MCOPY	B1A1A,51CD,NIMS,	B1A1A,51CD,NIMS,150F,1517	2R3	4	0	5,151,161:20:0	
369	99	244	07:53:14.733	20DG6E	6MCOPY	B1A1A,51D6,NIMS,	B1A1A,51D6,NIMS,150F,1517	2R3	4	0	5,151,162:08:0	
370	99	244	07:53:23.400	20DG6F	6MCOPY	B1A1A,51DF,NIMS,	B1A1A,51DF,NIMS,150F,1517	2R3	4	0	5,151,162:21:0	
371	99	244	07:54:16.066	20DG6G	6MCOPY	B1A1A,51E8,NIMS,	B1A1A,51E8,NIMS,150F,1517	2R3	4	0	5,151,163:09:0	
372	99	244	07:54:24.733	20DG6H	6MCOPY	B1A1A,51F1,NIMS,	B1A1A,51F1,NIMS,150F,1517	2R3	4	0	5,151,163:22:0	
373	99	244	07:54:37.400	488CC6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R3	4	0	5,151,163:41:0	
374	99	244	07:55:17.400	20DG6I	6MCOPY	B1A1A,51FA,NIMS,	B1A1A,51FA,NIMS,150F,1517	2R3	4	0	5,151,164:10:0	
375	99	244	07:55:26.066	20DG6J	6MCOPY	B1A1A,5203,NIMS,	B1A1A,5203,NIMS,150F,1517	2R3	4	0	5,151,164:23:0	
376	99	244	07:56:18.733	20DG6K	6MCOPY	B1A1A,520C,NIMS,	B1A1A,520C,NIMS,150F,1517	2R3	4	0	5,151,165:11:0	
377	99	244	07:56:27.400	20DG6L	6MCOPY	B1A1A,5215,NIMS,	B1A1A,5215,NIMS,150F,1517	2R3	4	0	5,151,165:24:0	
378	99	244	07:57:20.066	20DG6M	6MCOPY	B1A1A,521E,NIMS,	B1A1A,521E,NIMS,150F,1517	2R3	4	0	5,151,166:12:0	
379	99	244	07:57:28.733	20DG6N	6MCOPY	B1A1A,5227,NIMS,	B1A1A,5227,NIMS,150F,1517	2R3	4	0	5,151,166:25:0	
380	99	244	07:58:21.400	20DG6O	6MCOPY	B1A1A,5230,NIMS,	B1A1A,5230,NIMS,150F,1517	2R3	4	0	5,151,167:13:0	
381	99	244	07:58:30.066	20DG6P	6MCOPY	B1A1A,5239,NIMS,	B1A1A,5239,NIMS,150F,1517	2R3	4	0	5,151,167:26:0	
382	99	244	07:59:22.733	20DG6Q	6MCOPY	B1A1A,5242,NIMS,	B1A1A,5242,NIMS,150F,1517	2R3	4	0	5,151,168:14:0	
383	99	244	07:59:31.400	20DG6R	6MCOPY	B1A1A,524B,NIMS,	B1A1A,524B,NIMS,150F,1517	2R3	4	0	5,151,168:27:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	99	244	08:00:24.066	20DG6S	6MCOPY	B1A1A,5254,NIMS,	B1A1A,5254,NIMS,150F,1517	2R3	4	0	5,151,169:15:0	
385	99	244	08:00:32.733	20DG6T	6MCOPY	B1A1A,525D,NIMS,	B1A1A,525D,NIMS,150F,1517	2R3	4	0	5,151,169:28:0	
386	99	244	08:01:25.400	20DG6U	6MCOPY	B1A1A,5266,NIMS,	B1A1A,5266,NIMS,150F,1517	2R3	4	0	5,151,170:16:0	
387	99	244	08:01:34.066	20DG6V	6MCOPY	B1A1A,526F,NIMS,	B1A1A,526F,NIMS,150F,1517	2R3	4	0	5,151,170:29:0	
388	99	244	08:02:26.733	20DG6W	6MCOPY	B1A1A,5278,NIMS,	B1A1A,5278,NIMS,150F,1517	2R3	4	0	5,151,171:17:0	
389	99	244	08:02:35.400	20DG6X	6MCOPY	B1A1A,5281,NIMS,	B1A1A,5281,NIMS,150F,1517	2R3	4	0	5,151,171:30:0	
390	99	244	08:03:28.066	20DG6Y	6MCOPY	B1A1A,528A,NIMS,	B1A1A,528A,NIMS,150F,1517	2R3	4	0	5,151,172:18:0	
391	99	244	08:03:36.733	20DG6Z	6MCOPY	B1A1A,5293,NIMS,	B1A1A,5293,NIMS,150F,151C	2R3	4	0	5,151,172:31:0	
392	99	244	08:06:22.066	20DH6A	6MCOPY	B1A1A,52A1,NIMS,	B1A1A,52A1,NIMS,150F,1517	2R3	4	0	5,151,175:06:0	
393	99	244	08:06:30.733	20DH6B	6MCOPY	B1A1A,52AA,NIMS,	B1A1A,52AA,NIMS,150F,1517	2R3	4	0	5,151,175:19:0	
394	99	244	08:07:23.400	20DH6C	6MCOPY	B1A1A,52B3,NIMS,	B1A1A,52B3,NIMS,150F,1517	2R3	4	0	5,151,176:07:0	
395	99	244	08:07:32.066	20DH6D	6MCOPY	B1A1A,52BC,NIMS,	B1A1A,52BC,NIMS,150F,1517	2R3	4	0	5,151,176:20:0	
396	99	244	08:08:24.733	20DH6E	6MCOPY	B1A1A,52C5,NIMS,	B1A1A,52C5,NIMS,150F,1517	2R3	4	0	5,151,177:08:0	
397	99	244	08:08:33.400	20DH6F	6MCOPY	B1A1A,52CE,NIMS,	B1A1A,52CE,NIMS,150F,1517	2R3	4	0	5,151,177:21:0	
398	99	244	08:09:26.066	20DH6G	6MCOPY	B1A1A,52D7,NIMS,	B1A1A,52D7,NIMS,150F,1517	2R3	4	0	5,151,178:09:0	
399	99	244	08:09:34.733	20DH6H	6MCOPY	B1A1A,52E0,NIMS,	B1A1A,52E0,NIMS,150F,1517	2R3	4	0	5,151,178:22:0	
400	99	244	08:10:27.400	20DH6I	6MCOPY	B1A1A,52E9,NIMS,	B1A1A,52E9,NIMS,150F,1517	2R3	4	0	5,151,179:10:0	
401	99	244	08:10:36.066	20DH6J	6MCOPY	B1A1A,52F2,NIMS,	B1A1A,52F2,NIMS,150F,1517	2R3	4	0	5,151,179:23:0	
402	99	244	08:11:28.733	20DH6K	6MCOPY	B1A1A,52FB,NIMS,	B1A1A,52FB,NIMS,150F,1517	2R3	4	0	5,151,180:11:0	
403	99	244	08:11:37.400	20DH6L	6MCOPY	B1A1A,5304,NIMS,	B1A1A,5304,NIMS,150F,1517	2R3	4	0	5,151,180:24:0	
404	99	244	08:12:30.066	20DH6M	6MCOPY	B1A1A,530D,NIMS,	B1A1A,530D,NIMS,150F,1517	2R3	4	0	5,151,181:12:0	
405	99	244	08:12:38.733	20DH6N	6MCOPY	B1A1A,5316,NIMS,	B1A1A,5316,NIMS,150F,1517	2R3	4	0	5,151,181:25:0	
406	99	244	08:13:31.400	20DH6O	6MCOPY	B1A1A,531F,NIMS,	B1A1A,531F,NIMS,150F,1517	2R3	4	0	5,151,182:13:0	
407	99	244	08:13:40.066	20DH6P	6MCOPY	B1A1A,5328,NIMS,	B1A1A,5328,NIMS,150F,1517	2R3	4	0	5,151,182:26:0	
408	99	244	08:14:32.733	20DH6Q	6MCOPY	B1A1A,5331,NIMS,	B1A1A,5331,NIMS,150F,1517	2R3	4	0	5,151,183:14:0	
409	99	244	08:14:41.400	20DH6R	6MCOPY	B1A1A,533A,NIMS,	B1A1A,533A,NIMS,150F,1517	2R3	4	0	5,151,183:27:0	
410	99	244	08:15:34.066	20DH6S	6MCOPY	B1A1A,5343,NIMS,	B1A1A,5343,NIMS,150F,1517	2R3	4	0	5,151,184:15:0	
411	99	244	08:15:42.733	20DH6T	6MCOPY	B1A1A,534C,NIMS,	B1A1A,534C,NIMS,150F,1517	2R3	4	0	5,151,184:28:0	
412	99	244	08:16:35.400	20DH6U	6MCOPY	B1A1A,5355,NIMS,	B1A1A,5355,NIMS,150F,1517	2R3	4	0	5,151,185:16:0	
413	99	244	08:16:44.066	20DH6V	6MCOPY	B1A1A,535E,NIMS,	B1A1A,535E,NIMS,150F,1517	2R3	4	0	5,151,185:29:0	
414	99	244	08:17:36.733	20DH6W	6MCOPY	B1A1A,5367,NIMS,	B1A1A,5367,NIMS,150F,1517	2R3	4	0	5,151,186:17:0	
415	99	244	08:17:45.400	20DH6X	6MCOPY	B1A1A,5370,NIMS,	B1A1A,5370,NIMS,150F,1517	2R3	4	0	5,151,186:30:0	
416	99	244	08:18:38.066	20DH6Y	6MCOPY	B1A1A,5379,NIMS,	B1A1A,5379,NIMS,150F,1517	2R3	4	0	5,151,187:18:0	
417	99	244	08:18:46.733	20DH6Z	6MCOPY	B1A1A,5382,NIMS,	B1A1A,5382,NIMS,150F,151C	2R3	4	0	5,151,187:31:0	
418	99	244	08:20:34.733	20EA5A	37PL		Program Load (halts microprocessor & unwri	2R3	4	0	5,151,189:11:0	
419	99	244	08:20:36.066	20EA5B	37MRL		Memory Realocate (software operates from R	2R3	4	0	5,151,189:13:0	
420	99	244	08:20:41.400	20EA6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	5,151,189:21:0	
421	99	244	08:20:51.400	20EA6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	5,151,189:36:0	
422	99	244	08:21:08.066	20EA5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	5,151,189:61:0	
423	99	244	08:21:14.733	20EA5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,151,189:71:0	
424	99	244	08:21:20.733	20EA4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,151,189:80:0	
425	99	244	08:22:21.400	20EA4B	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	5,151,190:80:0	
426	99	244	08:23:22.066	20EA4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	5,151,191:80:0	
427	99	244	08:24:22.733	20EA4D	37IOP	5,1	Short Map, Grating Start Position =01	2R5	4	1	5,151,192:80:0	
428	99	244	08:24:23.400	20EA4E	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R5	4	1	5,151,192:81:0	
429	99	244	08:25:34.733	20EB6A	6MCOPY	B1A1A,5390,NIMS,	B1A1A,5390,NIMS,150F,1517	2R5	4	1	5,151,194:06:0	
430	99	244	08:26:36.066	20EB6B	6MCOPY	B1A1A,5399,NIMS,	B1A1A,5399,NIMS,150F,1517	2R5	4	1	5,151,195:07:0	
431	99	244	08:27:37.400	20EB6C	6MCOPY	B1A1A,53A2,NIMS,	B1A1A,53A2,NIMS,150F,1517	2R5	4	1	5,151,196:08:0	
432	99	244	08:28:38.733	20EB6D	6MCOPY	B1A1A,53AB,NIMS,	B1A1A,53AB,NIMS,150F,1517	2R5	4	1	5,151,197:09:0	
433	99	244	08:29:40.066	20EB6E	6MCOPY	B1A1A,53B4,NIMS,	B1A1A,53B4,NIMS,150F,1517	2R5	4	1	5,151,198:10:0	
434	99	244	08:30:41.400	20EB6F	6MCOPY	B1A1A,53BD,NIMS,	B1A1A,53BD,NIMS,150F,1517	2R5	4	1	5,151,199:11:0	
435	99	244	08:31:42.733	20EB6G	6MCOPY	B1A1A,53C6,NIMS,	B1A1A,53C6,NIMS,150F,1517	2R5	4	1	5,151,200:12:0	
436	99	244	08:32:46.066	20EB6H	6MCOPY	B1A1A,53CF,NIMS,	B1A1A,53CF,NIMS,151B,151C	2R5	4	1	5,151,201:16:0	
437	99	244	08:34:40.733	20EC6A	6MCOPY	B1A1A,53D1,NIMS,	B1A1A,53D1,NIMS,150F,1517	2R5	4	1	5,151,203:06:0	
438	99	244	08:35:42.066	20EC6B	6MCOPY	B1A1A,53DA,NIMS,	B1A1A,53DA,NIMS,150F,1517	2R5	4	1	5,151,204:07:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	99	244	08:36:43.400	20EC6C	6MCOPY	B1A1A,53E3,NIMS,	B1A1A,53E3,NIMS,150F,1517	2R5	4	1	5,151,205:08:0	
440	99	244	08:37:44.733	20EC6D	6MCOPY	B1A1A,53EC,NIMS,	B1A1A,53EC,NIMS,150F,1517	2R5	4	1	5,151,206:09:0	
441	99	244	08:38:46.066	20EC6E	6MCOPY	B1A1A,53F5,NIMS,	B1A1A,53F5,NIMS,150F,1517	2R5	4	1	5,151,207:10:0	
442	99	244	08:39:47.400	20EC6F	6MCOPY	B1A1A,53FE,NIMS,	B1A1A,53FE,NIMS,150F,1517	2R5	4	1	5,151,208:11:0	
443	99	244	08:40:48.733	20EC6G	6MCOPY	B1A1A,5407,NIMS,	B1A1A,5407,NIMS,150F,1517	2R5	4	1	5,151,209:12:0	
444	99	244	08:41:52.066	20EC6H	6MCOPY	B1A1A,5410,NIMS,	B1A1A,5410,NIMS,151B,151C	2R5	4	1	5,151,210:16:0	
445	99	244	08:43:46.733	20ED6A	6MCOPY	B1A1A,5412,NIMS,	B1A1A,5412,NIMS,150F,1517	2R5	4	1	5,151,212:06:0	
446	99	244	08:44:48.066	20ED6B	6MCOPY	B1A1A,541B,NIMS,	B1A1A,541B,NIMS,150F,1517	2R5	4	1	5,151,213:07:0	
447	99	244	08:45:49.400	20ED6C	6MCOPY	B1A1A,5424,NIMS,	B1A1A,5424,NIMS,150F,1517	2R5	4	1	5,151,214:08:0	
448	99	244	08:46:50.733	20ED6D	6MCOPY	B1A1A,542D,NIMS,	B1A1A,542D,NIMS,150F,1517	2R5	4	1	5,151,215:09:0	
449	99	244	08:47:52.066	20ED6E	6MCOPY	B1A1A,5436,NIMS,	B1A1A,5436,NIMS,150F,1517	2R5	4	1	5,151,216:10:0	
450	99	244	08:48:53.400	20ED6F	6MCOPY	B1A1A,543F,NIMS,	B1A1A,543F,NIMS,150F,1517	2R5	4	1	5,151,217:11:0	
451	99	244	08:49:54.733	20ED6G	6MCOPY	B1A1A,5448,NIMS,	B1A1A,5448,NIMS,150F,1517	2R5	4	1	5,151,218:12:0	
452	99	244	08:50:58.066	20ED6H	6MCOPY	B1A1A,5451,NIMS,	B1A1A,5451,NIMS,151B,151C	2R5	4	1	5,151,219:16:0	
453	99	244	08:53:42.066	20EE4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,151,221:80:0	
454	99	244	08:56:55.400	20EF6A	6MCOPY	B1A1A,5453,NIMS,	B1A1A,5453,NIMS,150F,1517	2R3	4	0	5,151,225:06:0	
455	99	244	08:57:04.066	20EF6B	6MCOPY	B1A1A,545C,NIMS,	B1A1A,545C,NIMS,150F,1517	2R3	4	0	5,151,225:19:0	
456	99	244	08:57:56.733	20EF6C	6MCOPY	B1A1A,5465,NIMS,	B1A1A,5465,NIMS,150F,1517	2R3	4	0	5,151,226:07:0	
457	99	244	08:58:05.400	20EF6D	6MCOPY	B1A1A,546E,NIMS,	B1A1A,546E,NIMS,150F,1517	2R3	4	0	5,151,226:20:0	
458	99	244	08:58:58.066	20EF6E	6MCOPY	B1A1A,5477,NIMS,	B1A1A,5477,NIMS,150F,1517	2R3	4	0	5,151,227:08:0	
459	99	244	08:59:06.733	20EF6F	6MCOPY	B1A1A,5480,NIMS,	B1A1A,5480,NIMS,150F,1517	2R3	4	0	5,151,227:21:0	
460	99	244	08:59:59.400	20EF6G	6MCOPY	B1A1A,5489,NIMS,	B1A1A,5489,NIMS,150F,1517	2R3	4	0	5,151,228:09:0	
461	99	244	09:00:08.066	20EF6H	6MCOPY	B1A1A,5492,NIMS,	B1A1A,5492,NIMS,150F,1517	2R3	4	0	5,151,228:22:0	
462	99	244	09:01:00.733	20EF6I	6MCOPY	B1A1A,549B,NIMS,	B1A1A,549B,NIMS,150F,1517	2R3	4	0	5,151,229:10:0	
463	99	244	09:01:09.400	20EF6J	6MCOPY	B1A1A,54A4,NIMS,	B1A1A,54A4,NIMS,150F,1517	2R3	4	0	5,151,229:23:0	
464	99	244	09:02:02.066	20EF6K	6MCOPY	B1A1A,54AD,NIMS,	B1A1A,54AD,NIMS,150F,1517	2R3	4	0	5,151,230:11:0	
465	99	244	09:02:10.733	20EF6L	6MCOPY	B1A1A,54B6,NIMS,	B1A1A,54B6,NIMS,150F,1517	2R3	4	0	5,151,230:24:0	
466	99	244	09:03:03.400	20EF6M	6MCOPY	B1A1A,54BF,NIMS,	B1A1A,54BF,NIMS,150F,1517	2R3	4	0	5,151,231:12:0	
467	99	244	09:03:12.066	20EF6N	6MCOPY	B1A1A,54C8,NIMS,	B1A1A,54C8,NIMS,150F,1517	2R3	4	0	5,151,231:25:0	
468	99	244	09:04:04.733	20EF6O	6MCOPY	B1A1A,54D1,NIMS,	B1A1A,54D1,NIMS,150F,1517	2R3	4	0	5,151,232:13:0	
469	99	244	09:04:13.400	20EF6P	6MCOPY	B1A1A,54DA,NIMS,	B1A1A,54DA,NIMS,150F,1517	2R3	4	0	5,151,232:26:0	
470	99	244	09:05:06.066	20EF6Q	6MCOPY	B1A1A,54E3,NIMS,	B1A1A,54E3,NIMS,150F,1517	2R3	4	0	5,151,233:14:0	
471	99	244	09:05:14.733	20EF6R	6MCOPY	B1A1A,54EC,NIMS,	B1A1A,54EC,NIMS,150F,1517	2R3	4	0	5,151,233:27:0	
472	99	244	09:06:07.400	20EF6S	6MCOPY	B1A1A,54F5,NIMS,	B1A1A,54F5,NIMS,150F,1517	2R3	4	0	5,151,234:15:0	
473	99	244	09:06:16.066	20EF6T	6MCOPY	B1A1A,54FE,NIMS,	B1A1A,54FE,NIMS,150F,1517	2R3	4	0	5,151,234:28:0	
474	99	244	09:07:08.733	20EF6U	6MCOPY	B1A1A,5507,NIMS,	B1A1A,5507,NIMS,150F,1517	2R3	4	0	5,151,235:16:0	
475	99	244	09:07:17.400	20EF6V	6MCOPY	B1A1A,5510,NIMS,	B1A1A,5510,NIMS,150F,1517	2R3	4	0	5,151,235:29:0	
476	99	244	09:08:10.066	20EF6W	6MCOPY	B1A1A,5519,NIMS,	B1A1A,5519,NIMS,150F,1517	2R3	4	0	5,151,236:17:0	
477	99	244	09:08:18.733	20EF6X	6MCOPY	B1A1A,5522,NIMS,	B1A1A,5522,NIMS,150F,1517	2R3	4	0	5,151,236:30:0	
478	99	244	09:09:11.400	20EF6Y	6MCOPY	B1A1A,552B,NIMS,	B1A1A,552B,NIMS,150F,1517	2R3	4	0	5,151,237:18:0	
479	99	244	09:09:20.066	20EF6Z	6MCOPY	B1A1A,5534,NIMS,	B1A1A,5534,NIMS,150F,151C	2R3	4	0	5,151,237:31:0	
480	99	244	09:12:05.400	20EG6A	6MCOPY	B1A1A,5542,NIMS,	B1A1A,5542,NIMS,150F,1517	2R3	4	0	5,151,240:06:0	
481	99	244	09:12:14.066	20EG6B	6MCOPY	B1A1A,554B,NIMS,	B1A1A,554B,NIMS,150F,1517	2R3	4	0	5,151,240:19:0	
482	99	244	09:13:06.733	20EG6C	6MCOPY	B1A1A,5554,NIMS,	B1A1A,5554,NIMS,150F,1517	2R3	4	0	5,151,241:07:0	
483	99	244	09:13:15.400	20EG6D	6MCOPY	B1A1A,555D,NIMS,	B1A1A,555D,NIMS,150F,1517	2R3	4	0	5,151,241:20:0	
484	99	244	09:14:08.066	20EG6E	6MCOPY	B1A1A,5566,NIMS,	B1A1A,5566,NIMS,150F,1517	2R3	4	0	5,151,242:08:0	
485	99	244	09:14:16.733	20EG6F	6MCOPY	B1A1A,556F,NIMS,	B1A1A,556F,NIMS,150F,1517	2R3	4	0	5,151,242:21:0	
486	99	244	09:15:09.400	20EG6G	6MCOPY	B1A1A,5578,NIMS,	B1A1A,5578,NIMS,150F,1517	2R3	4	0	5,151,243:09:0	
487	99	244	09:15:18.066	20EG6H	6MCOPY	B1A1A,5581,NIMS,	B1A1A,5581,NIMS,150F,1517	2R3	4	0	5,151,243:22:0	
488	99	244	09:16:10.733	20EG6I	6MCOPY	B1A1A,558A,NIMS,	B1A1A,558A,NIMS,150F,1517	2R3	4	0	5,151,244:10:0	
489	99	244	09:16:19.400	20EG6J	6MCOPY	B1A1A,5593,NIMS,	B1A1A,5593,NIMS,150F,1517	2R3	4	0	5,151,244:23:0	
490	99	244	09:17:12.066	20EG6K	6MCOPY	B1A1A,559C,NIMS,	B1A1A,559C,NIMS,150F,1517	2R3	4	0	5,151,245:11:0	
491	99	244	09:17:20.733	20EG6L	6MCOPY	B1A1A,55A5,NIMS,	B1A1A,55A5,NIMS,150F,1517	2R3	4	0	5,151,245:24:0	
492	99	244	09:18:13.400	20EG6M	6MCOPY	B1A1A,55AE,NIMS,	B1A1A,55AE,NIMS,150F,1517	2R3	4	0	5,151,246:12:0	
493	99	244	09:18:22.066	20EG6N	6MCOPY	B1A1A,55B7,NIMS,	B1A1A,55B7,NIMS,150F,1517	2R3	4	0	5,151,246:25:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	99	244	09:19:14.733	20EG6O	6MCOPY	B1A1A,55C0,NIMS,	B1A1A,55C0,NIMS,150F,1517	2R3	4	0	5,151,247:13:0	
495	99	244	09:19:23.400	20EG6P	6MCOPY	B1A1A,55C9,NIMS,	B1A1A,55C9,NIMS,150F,1517	2R3	4	0	5,151,247:26:0	
496	99	244	09:20:16.066	20EG6Q	6MCOPY	B1A1A,55D2,NIMS,	B1A1A,55D2,NIMS,150F,1517	2R3	4	0	5,151,248:14:0	
497	99	244	09:20:24.733	20EG6R	6MCOPY	B1A1A,55DB,NIMS,	B1A1A,55DB,NIMS,150F,1517	2R3	4	0	5,151,248:27:0	
498	99	244	09:21:17.400	20EG6S	6MCOPY	B1A1A,55E4,NIMS,	B1A1A,55E4,NIMS,150F,1517	2R3	4	0	5,151,249:15:0	
499	99	244	09:21:26.066	20EG6T	6MCOPY	B1A1A,55ED,NIMS,	B1A1A,55ED,NIMS,150F,1517	2R3	4	0	5,151,249:28:0	
500	99	244	09:22:18.733	20EG6U	6MCOPY	B1A1A,55F6,NIMS,	B1A1A,55F6,NIMS,150F,1517	2R3	4	0	5,151,250:16:0	
501	99	244	09:22:27.400	20EG6V	6MCOPY	B1A1A,55FF,NIMS,	B1A1A,55FF,NIMS,150F,1517	2R3	4	0	5,151,250:29:0	
502	99	244	09:23:20.066	20EG6W	6MCOPY	B1A1A,5608,NIMS,	B1A1A,5608,NIMS,150F,1517	2R3	4	0	5,151,251:17:0	
503	99	244	09:23:28.733	20EG6X	6MCOPY	B1A1A,5611,NIMS,	B1A1A,5611,NIMS,150F,1517	2R3	4	0	5,151,251:30:0	
504	99	244	09:24:21.400	20EG6Y	6MCOPY	B1A1A,561A,NIMS,	B1A1A,561A,NIMS,150F,1517	2R3	4	0	5,151,252:18:0	
505	99	244	09:24:30.066	20EG6Z	6MCOPY	B1A1A,5623,NIMS,	B1A1A,5623,NIMS,150F,151C	2R3	4	0	5,151,252:31:0	
506	99	244	09:27:15.400	20EH6A	6MCOPY	B1A1A,5631,NIMS,	B1A1A,5631,NIMS,150F,1517	2R3	4	0	5,151,255:06:0	
507	99	244	09:27:24.066	20EH6B	6MCOPY	B1A1A,563A,NIMS,	B1A1A,563A,NIMS,150F,1517	2R3	4	0	5,151,255:19:0	
508	99	244	09:28:16.733	20EH6C	6MCOPY	B1A1A,5643,NIMS,	B1A1A,5643,NIMS,150F,1517	2R3	4	0	5,151,256:07:0	
509	99	244	09:28:25.400	20EH6D	6MCOPY	B1A1A,564C,NIMS,	B1A1A,564C,NIMS,150F,1517	2R3	4	0	5,151,256:20:0	
510	99	244	09:29:18.066	20EH6E	6MCOPY	B1A1A,5655,NIMS,	B1A1A,5655,NIMS,150F,1517	2R3	4	0	5,151,257:08:0	
511	99	244	09:29:26.733	20EH6F	6MCOPY	B1A1A,565E,NIMS,	B1A1A,565E,NIMS,150F,1517	2R3	4	0	5,151,257:21:0	
512	99	244	09:30:19.400	20EH6G	6MCOPY	B1A1A,5667,NIMS,	B1A1A,5667,NIMS,150F,1517	2R3	4	0	5,151,258:09:0	
513	99	244	09:30:28.066	20EH6H	6MCOPY	B1A1A,5670,NIMS,	B1A1A,5670,NIMS,150F,1517	2R3	4	0	5,151,258:22:0	
514	99	244	09:31:20.733	20EH6I	6MCOPY	B1A1A,5679,NIMS,	B1A1A,5679,NIMS,150F,1517	2R3	4	0	5,151,259:10:0	
515	99	244	09:31:29.400	20EH6J	6MCOPY	B1A1A,5682,NIMS,	B1A1A,5682,NIMS,150F,1517	2R3	4	0	5,151,259:23:0	
516	99	244	09:32:22.066	20EH6K	6MCOPY	B1A1A,568B,NIMS,	B1A1A,568B,NIMS,150F,1517	2R3	4	0	5,151,260:11:0	
517	99	244	09:32:30.733	20EH6L	6MCOPY	B1A1A,5694,NIMS,	B1A1A,5694,NIMS,150F,1517	2R3	4	0	5,151,260:24:0	
518	99	244	09:33:23.400	20EH6M	6MCOPY	B1A1A,569D,NIMS,	B1A1A,569D,NIMS,150F,1517	2R3	4	0	5,151,261:12:0	
519	99	244	09:33:32.066	20EH6N	6MCOPY	B1A1A,56A6,NIMS,	B1A1A,56A6,NIMS,150F,1517	2R3	4	0	5,151,261:25:0	
520	99	244	09:34:24.733	20EH6O	6MCOPY	B1A1A,56AF,NIMS,	B1A1A,56AF,NIMS,150F,1517	2R3	4	0	5,151,262:13:0	
521	99	244	09:34:33.400	20EH6P	6MCOPY	B1A1A,56B8,NIMS,	B1A1A,56B8,NIMS,150F,1517	2R3	4	0	5,151,262:26:0	
522	99	244	09:35:26.066	20EH6Q	6MCOPY	B1A1A,56C1,NIMS,	B1A1A,56C1,NIMS,150F,1517	2R3	4	0	5,151,263:14:0	
523	99	244	09:35:34.733	20EH6R	6MCOPY	B1A1A,56CA,NIMS,	B1A1A,56CA,NIMS,150F,1517	2R3	4	0	5,151,263:27:0	
524	99	244	09:36:27.400	20EH6S	6MCOPY	B1A1A,56D3,NIMS,	B1A1A,56D3,NIMS,150F,1517	2R3	4	0	5,151,264:15:0	
525	99	244	09:36:36.066	20EH6T	6MCOPY	B1A1A,56DC,NIMS,	B1A1A,56DC,NIMS,150F,1517	2R3	4	0	5,151,264:28:0	
526	99	244	09:37:28.733	20EH6U	6MCOPY	B1A1A,56E5,NIMS,	B1A1A,56E5,NIMS,150F,1517	2R3	4	0	5,151,265:16:0	
527	99	244	09:37:37.400	20EH6V	6MCOPY	B1A1A,56EE,NIMS,	B1A1A,56EE,NIMS,150F,1517	2R3	4	0	5,151,265:29:0	
528	99	244	09:38:30.066	20EH6W	6MCOPY	B1A1A,56F7,NIMS,	B1A1A,56F7,NIMS,150F,1517	2R3	4	0	5,151,266:17:0	
529	99	244	09:38:38.733	20EH6X	6MCOPY	B1A1A,5700,NIMS,	B1A1A,5700,NIMS,150F,1517	2R3	4	0	5,151,266:30:0	
530	99	244	09:39:31.400	20EH6Y	6MCOPY	B1A1A,5709,NIMS,	B1A1A,5709,NIMS,150F,1517	2R3	4	0	5,151,267:18:0	
531	99	244	09:39:40.066	20EH6Z	6MCOPY	B1A1A,5712,NIMS,	B1A1A,5712,NIMS,150F,151C	2R3	4	0	5,151,267:31:0	
532	99	244	09:43:17.400	127EN	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	5,151,270:84:0	
533	99	244	09:43:17.400	127EN4A	37IOP	0,0	Safe, Grating Start Position =00	2R0	4	0	5,151,270:84:0	
534	99	244	09:43:18.066	127EN4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	2R0	4	0	5,151,270:85:0	
535	99	244	09:43:26.066	127EN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R0	4	0	5,151,271:06:0	
536	99	244	09:46:19.400	125EN	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,151,273:84:0	
537	99	244	09:46:19.400	125EN4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	260	4	0	5,151,273:84:0	
538	99	244	09:47:20.066	125EN4B	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	2O0	4	0	5,151,274:84:0	
539	99	244	09:48:20.733	125EN4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2O0	4	0	5,151,275:84:0	
540	99	244	09:48:20.733	125EN11A	NIMSINIT	GE	##### GROUP END INIT	2O0	4	0	5,151,275:84:0	
541	99	244	09:51:31.400	480EA6A	6MROH	17,5000,56,B2	read from B1A2B17,5000,56,B	2O0	4	0	5,151,279:06:0	
542	99	244	09:56:34.732	22NNDETECT01-		-----STOP-------		2O0	4	0	: :	
543	99	244	12:21:17.400	488CD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,151,427:17:0	
544	99	244	12:40:29.400	488CD6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,151,446:16:0	
545	99	244	13:59:25.400	488CD6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,151,524:22:0	
546	99	244	19:57:49.400	488CE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,151,878:64:0	
547	99	244	21:16:45.400	488CE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,151,956:70:0	
548	99	244	21:27:25.400	488CE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,151,967:29:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	99	244	21:30:34.066	488CE6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,151,970:39:0	
550	**99**	**244**	**23:00:11.111**	**22NNRCTRLT01-**		**-----START------**		**2O0**	**4**	**0**	**: :**	
551	**99**	**244**	**23:00:11.400**	**41XE99A**	**POWER**	**PWR MODE change**	**Change to Calib/Decon Mode**	**2O0**	**4**	**0**	**5,152,059:06:0**	
552	**99**	**244**	**23:00:15.400**	**41XE3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,152,059:12:0**	
553	**99**	**244**	**23:00:25.400**	**41XE3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,152,059:27:0**	
554	**99**	**244**	**23:00:35.400**	**41XE3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**5,152,059:42:0**	
555	**99**	**244**	**23:00:45.400**	**41XE3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**5,152,059:57:0**	
556	99	244	23:11:14.733	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,152,070:00:0	
557	99	244	23:14:20.733	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,152,073:06:0	
558	99	244	23:18:27.400	20DA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,152,077:12:0	
559	99	244	23:19:17.400	20DA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,152,077:87:0	
560	99	244	23:21:21.400	176XV6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,152,080:00:0	
561	**99**	**244**	**23:22:22.066**	**185XE10A3A**	**40HRP**	**1**	**RCT Heater ON (primary relay)**	**2O0**	**4**	**0**	**5,152,081:00:0**	
562	**99**	**244**	**23:22:27.400**	**185XE10B3A**	**40HRP**	**2**	**RCT Heater ON (primary relay)**	**2O0**	**4**	**0**	**5,152,081:08:0**	
563	99	245	04:59:15.333	488CF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,152,414:17:0	
564	99	245	05:10:21.333	488CF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,152,425:15:0	
565	99	245	05:59:25.333	488CF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,152,473:63:0	
566	99	245	06:11:55.333	488CF6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,152,486:05:0	
567	99	245	06:38:45.333	488CF6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,152,512:54:0	
568	99	245	11:17:08.666	125XE	NIMSINIT	GS	##### GROUP START INIT	2O0	4	0	5,152,787:84:0	
569	**99**	**245**	**11:17:08.666**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**5,152,787:84:0**	
570	**99**	**245**	**11:18:09.333**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,152,788:84:0**	
571	**99**	**245**	**11:19:10.000**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**5,152,789:84:0**	
572	**99**	**245**	**11:20:10.666**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**5,152,790:84:0**	
573	99	245	11:20:10.666	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	5,152,790:84:0	
574	99	245	11:22:12.000	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	5,152,792:84:0	
575	**99**	**245**	**11:22:12.000**	**127XE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**5,152,792:84:0**	
576	**99**	**245**	**11:22:12.666**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**5,152,792:85:0**	
577	99	245	11:22:20.666	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	5,152,793:06:0	
578	99	245	11:26:19.333	176XE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	5,152,797:00:0	
579	99	245	11:28:24.666	20UT4A	7SCAN	NORM,22.98749,8.	Check S/P Position	1R3	4	0	5,152,799:06:0	
580	99	245	11:32:23.333	192XE4A	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	5,152,803:00:0	
581	**99**	**245**	**11:34:44.666**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**5,152,805:30:0**	
582	**99**	**245**	**11:35:44.000**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**5,152,806:28:0**	
583	99	245	11:38:27.333	192XE4B	**7CONE**	**17.0,0.0**	Check S/P Position	1R3	4	0	5,152,809:00:0	
584	**99**	**245**	**11:40:48.666**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**5,152,811:30:0**	
585	**99**	**245**	**11:42:48.666**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**5,152,813:28:0**	
586	99	245	11:44:31.333	192XE4C	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	5,152,815:00:0	
587	**99**	**245**	**11:46:32.666**	**185XE10C3A**	**40HRPR**	**1**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**5,152,817:00:0**	
588	**99**	**245**	**11:46:38.000**	**185XE10D3A**	**40HRPR**	**2**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**5,152,817:08:0**	
589	**99**	**245**	**11:46:52.666**	**432XW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**5,152,817:30:0**	
590	**99**	**245**	**11:47:52.000**	**432XY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**5,152,818:28:0**	
591	**99**	**245**	**11:49:30.000**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**5,152,819:84:0**	
592	99	245	11:49:30.000	125DC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	5,152,819:84:0	
593	99	245	11:49:30.000	125DC11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	5,152,819:84:0	
594	**99**	**245**	**11:50:30.666**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,152,820:84:0**	
595	99	245	11:50:30.666	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,152,820:84:0	
596	**99**	**245**	**11:50:31.333**	**127DC4B**	**37ETB**	**07,C7,31,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,152,820:85:0**	
597	99	245	11:50:35.333	192XE4D	**7CONE**	**17.0,153.0**	Check S/P Position	4R3	4	0	5,152,821:00:0	
598	99	245	11:50:39.333	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,152,821:06:0	
599	**99**	**245**	**11:50:55.333**	**432DC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**5,152,821:30:0**	
600	**99**	**245**	**11:51:31.333**	**125DD4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**5,152,821:84:0**	
601	99	245	11:51:31.333	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	5,152,821:84:0	
602	99	245	11:51:31.333	125DD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	5,152,821:84:0	
603	**99**	**245**	**11:53:32.666**	**125DE4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**5,152,823:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	99	245	11:53:32.666	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	5,152,823:84:0	
605	99	245	11:53:32.666	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	5,152,823:84:0	
606	**99**	**245**	**11:53:56.000**	**432DE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**5,152,824:28:0**	
607	99	245	11:57:35.333	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,152,827:84:0	
608	**99**	**245**	**11:57:35.333**	**127XF4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**5,152,827:84:0**	
609	**99**	**245**	**11:57:36.000**	**127XF4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**5,152,827:85:0**	
610	99	245	11:57:44.000	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	5,152,828:06:0	
611	**99**	**245**	**12:00:37.333**	**125XF4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**5,152,830:84:0**	
612	99	245	12:00:37.333	125XF	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	5,152,830:84:0	
613	**99**	**245**	**12:01:38.000**	**125XF4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**5,152,831:84:0**	
614	**99**	**245**	**12:02:38.666**	**125XF4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**5,152,832:84:0**	
615	99	245	12:02:38.666	125XF11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	5,152,832:84:0	
616	**99**	**245**	**12:08:51.333**	**41XU99A**	**POWER**	**PWR MODE change**	**Change to Maneuver/Playback Mode**	**4O0**	**4**	**0**	**5,152,839:06:0**	
617	**99**	**245**	**12:10:45.333**	**41XU3G**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**5,152,840:86:0**	
618	**99**	**245**	**12:10:55.333**	**41XU3H**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**5,152,841:10:0**	
619	**99**	**245**	**12:11:05.333**	**41XU3I**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**5,152,841:25:0**	
620	**99**	**245**	**12:11:15.333**	**41XU3J**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**5,152,841:40:0**	
621	**99**	**245**	**12:15:55.777**	**22NNRCTRLT01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
622	99	245	12:19:02.000	20DB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,152,849:12:0	
623	99	245	12:19:52.000	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,152,849:87:0	
624	99	245	12:21:17.333	488CG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,152,851:33:0	
625	99	245	12:21:56.000	176XF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,152,852:00:0	
626	99	245	12:40:29.333	488CG6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,152,870:32:0	
627	99	245	13:36:53.333	488CG6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,152,926:12:0	
628	99	245	13:57:17.333	488CG6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,152,946:28:0	
629	99	245	14:01:41.333	488CG6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,152,950:60:0	
630	99	245	19:55:56.000	488CH6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,153,301:01:0	
631	99	245	19:57:49.333	488CH6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,153,302:80:0	
632	99	246	06:51:42.000	488CI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,153,949:52:0	
633	99	246	08:06:48.666	488CI6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,154,023:78:0	
634	99	246	08:33:37.933	488CI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,154,050:35:0	
635	99	246	12:17:01.266	488CI6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,154,271:29:0	
636	99	246	12:34:05.266	488CI6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,154,288:18:0	
637	99	246	13:20:24.600	488CJ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,154,334:01:0	
638	99	246	13:42:21.266	488CJ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,154,355:65:0	
639	99	246	13:51:33.266	488CJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,154,364:74:0	
640	99	246	19:57:49.266	488CK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,154,727:05:0	
641	99	246	21:12:29.266	488CK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,154,800:82:0	
642	99	246	21:20:45.933	488CK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,154,809:08:0	
643	99	246	21:29:33.266	488CK6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,154,817:71:0	
644	99	247	04:42:40.600	488CL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,155,246:13:0	
645	99	247	05:10:21.266	488CL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,155,273:47:0	
646	99	247	07:31:09.266	488CL6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,155,412:70:0	
647	99	247	12:17:01.266	488CM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,155,695:45:0	
648	99	247	13:40:13.266	488CM6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,155,777:71:0	
649	99	247	19:47:09.200	488CN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,156,140:62:0	
650	99	247	21:08:13.200	488CN6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,156,220:78:0	
651	99	247	21:16:45.200	488CN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,156,229:27:0	
652	99	247	21:20:52.533	488CN6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,156,233:34:0	
653	99	247	21:29:33.200	488CN6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,156,241:87:0	
654	99	248	04:42:46.533	488CO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,156,670:38:0	
655	99	248	05:06:05.200	488CO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,156,693:43:0	
656	99	248	07:24:45.200	488CO6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,156,830:56:0	
657	99	248	12:08:29.200	488CP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,157,111:21:0	
658	99	248	12:25:33.200	488CP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,157,128:10:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	99	248	13:20:11.200	488CP6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,157,182:13:0	
660	99	248	13:42:21.200	488CP6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,157,204:06:0	
661	99	248	13:47:38.533	488CP6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,157,209:27:0	
662	99	248	19:53:33.200	488CQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,157,571:17:0	
663	99	248	21:08:13.200	488CQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,157,645:03:0	
664	99	248	21:14:32.533	488CQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,157,651:26:0	
665	99	248	21:16:45.200	488CQ6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,157,653:43:0	
666	99	248	21:27:25.200	488CQ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,157,664:02:0	
667	99	249	04:29:39.133	488CR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,158,081:56:0	
668	99	249	04:44:45.133	488CR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,158,096:50:0	
669	99	249	05:50:11.133	488CR6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,158,161:24:0	
670	99	249	05:55:09.133	488CR6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,158,166:16:0	
671	99	249	06:18:20.466	488CR6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,158,189:10:0	
672	99	249	13:46:37.133	488CS6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,158,632:42:0	
673	99	249	14:52:53.133	176SV6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,158,698:00:0	
674	99	249	14:56:59.800	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,158,702:06:0	
675	99	249	14:57:59.800	20UR4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	5,158,703:05:0	
676	99	249	14:59:59.800	20UR4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	5,158,705:03:0	
677	99	249	15:05:29.800	20UR4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	5,158,710:43:0	
678	99	249	15:05:30.466	20UR4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	5,158,710:44:0	
679	99	249	15:05:50.466	20UR4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	5,158,710:74:0	
680	99	249	15:05:51.133	20UR4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	5,158,710:75:0	
681	99	249	15:06:11.133	20UR4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	5,158,711:14:0	
682	99	249	15:06:11.800	20UR4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	5,158,711:15:0	
683	99	249	15:06:21.800	20UR4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	5,158,711:30:0	
684	99	249	15:06:22.466	20UR4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	5,158,711:31:0	
685	99	249	15:06:32.466	20UR4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	5,158,711:46:0	
686	99	249	15:06:33.133	20UR4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	5,158,711:47:0	
687	99	249	15:08:19.800	20UR4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	5,158,713:25:0	
688	99	249	15:08:20.466	20UR4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	5,158,713:26:0	
689	99	249	15:08:40.466	20UR4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	5,158,713:56:0	
690	99	249	15:08:41.133	20UR4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	5,158,713:57:0	
691	99	249	15:09:01.133	20UR4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	5,158,713:87:0	
692	99	249	15:09:01.800	20UR4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	5,158,713:88:0	
693	99	249	15:09:11.800	20UR4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	5,158,714:12:0	
694	99	249	15:09:12.466	20UR4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	5,158,714:13:0	
695	99	249	15:09:22.466	20UR4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	5,158,714:28:0	
696	99	249	15:09:23.133	20UR4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	5,158,714:29:0	
697	99	249	15:10:19.800	20UR4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,158,715:23:0	
698	99	249	15:12:51.800	488CS6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,158,717:69:0	
699	99	249	15:35:03.800	20UK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,158,739:65:0	
700	99	249	15:35:53.800	20UK4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,158,740:49:0	
701	99	249	15:37:22.466	176SW6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,158,742:00:0	
702	99	249	15:37:25.133	488CS6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,158,742:04:0	
703	99	249	19:38:37.133	488CS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,158,980:54:0	
704	99	249	20:59:07.133	488CT6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,159,060:19:0	
705	99	249	21:01:49.133	488CT6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,159,062:80:0	
706	99	250	04:29:46.466	488CU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,159,505:83:0	
707	99	250	04:40:29.133	488CU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,159,516:46:0	
708	99	250	05:40:13.133	488CU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,159,575:53:0	
709	99	250	05:46:24.466	488CU6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,159,581:64:0	
710	99	250	06:13:14.466	488CU6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,159,608:22:0	
711	99	250	12:05:18.400	488CV6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,159,956:40:0	
712	99	250	13:27:08.400	488CV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,160,037:34:0	
713	99	250	13:40:13.066	488CV6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,160,050:28:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	99	250	19:27:57.066	488CW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,160,394	20:0
715	99	250	20:57:33.066	488CW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,160,482	76:0
716	99	250	21:06:58.400	488CW6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,160,492	14:0
717	99	250	21:08:13.066	488CW6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,160,493	35:0
718	99	251	04:29:52.400	488CX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,160,930	17:0
719	99	251	04:40:29.066	488CX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,160,940	62:0
720	99	251	05:40:13.066	488CX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,160,999	69:0
721	99	251	05:41:18.400	488CX6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,161,000	76:0
722	99	251	06:08:08.400	488CX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,161,027	34:0
723	99	251	07:30:23.733	488CY6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,161,108	66:0
724	99	251	14:52:15.066	488CZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,161,545	66:0
725	99	251	16:06:15.666	488CZ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,161,618	84:0
726	99	251	16:33:05.000	488CZ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,161,645	41:0
727	99	251	19:23:41.000	488CZ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,161,814	16:0
728	99	251	20:46:53.000	488CZ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,161,896	42:0
729	99	251	21:05:04.333	488DA6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,161,914	41:0
730	99	251	21:08:13.000	488DA6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,161,917	51:0
731	99	251	21:18:53.000	488DA6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,161,928	10:0
732	99	252	04:28:11.666	488DB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,162,352	64:0
733	99	252	04:59:41.000	488DB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,162,383	77:0
734	99	252	11:55:30.333	488DC6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,162,795	09:0
735	99	252	13:22:21.000	488DC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,162,880	90:0
736	99	252	14:20:45.000	488DC6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,162,938	68:0
737	99	252	18:23:57.000	488DD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,163,179	25:0
738	99	252	20:38:21.000	488DD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,163,312	18:0
739	99	252	20:56:53.666	488DD6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,163,330	49:0
740	99	252	20:57:33.000	488DD6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,163,331	17:0
741	99	252	21:06:05.000	488DD6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,163,339	57:0
742	99	253	05:42:24.933	488DE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,163,850	26:0
743	99	253	20:27:40.933	488DF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,164,725	75:0
744	99	253	20:53:16.933	488DF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,164,751	13:0
745	99	253	20:56:30.266	488DF6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,164,754	30:0
746	99	254	04:35:12.266	488DG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,165,207	90:0
747	99	254	04:46:52.933	488DG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,165,219	49:0
748	99	254	05:44:35.600	488DG6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,165,276	56:0
749	99	254	06:13:41.600	488DG6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,165,305	36:0
750	99	254	07:01:16.933	488DG6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,165,352	42:0
751	99	254	11:50:44.866	488DH6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,165,638	68:0
752	99	254	13:12:34.200	488DH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,165,719	61:0
753	99	254	20:12:44.866	488DI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,166,135	21:0
754	99	254	20:49:00.866	488DI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,166,171	09:0
755	99	254	20:53:05.533	488DI6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,166,175	12:0
756	99	254	20:57:32.866	488DI6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,166,179	49:0
757	99	254	21:12:28.866	488DI6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,166,194	28:0
758	99	254	23:58:59.533	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	5,166,358	90:0
759	99	254	23:59:00.200	432MC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	5,166,359	00:0
760	99	255	04:10:18.200	488DJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,166,607	49:0
761	99	255	04:21:16.866	488DJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,166,618	36:0
762	99	255	05:31:40.866	488DJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,166,688	02:0
763	99	255	11:49:16.866	488DK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,167,061	43:0
764	99	255	12:21:16.866	488DK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,167,093	11:0
765	99	255	13:04:26.200	488DK6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,167,135	73:0
766	99	255	13:33:32.866	488DK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,167,164	54:0
767	99	255	19:54:08.133	176SP6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	4O0	4	0	5,167,541	00:0
768	99	255	20:08:28.800	488DL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,167,555	17:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	99	255	20:32:33.466	465WK6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	5,167,579	00:0
770	99	255	20:32:33.466		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 1219.30 +/- 4	4O0	4	0	5,167,579	00:0
771	99	255	20:32:33.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1219.30 +/- 4	4O0	4	0	5,167,579	00:0
772	99	255	20:32:40.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 1219.30 +/- 4	4O0	4	0	5,167,579	10:0
773	99	255	20:32:41.533		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC *1219.42 +/- 4	4O0	4	0	5,167,579	12:1
774	99	255	20:41:44.133	488DL6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,167,588	07:0
775	99	256	01:01:22.266		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/- 4	4O0	4	0	5,167,844	78:2
776	99	256	01:01:23.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/- 4	4O0	4	0	5,167,844	80:0
777	99	256	02:26:14.800	465WL6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,167,928	73:0
778	99	256	02:26:14.800		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/- 4	4O0	4	0	5,167,928	73:0
779	99	256	02:26:16.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/- 4	4O0	4	0	5,167,928	75:1
780	99	256	02:26:21.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/- 4	4O0	4	0	5,167,928	83:0
781	99	256	02:26:22.666		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/- 4	4O0	4	0	5,167,928	84:8
782	99	256	02:26:26.533		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/- 4	4O0	4	0	5,167,928	90:6
783	99	256	02:26:26.533		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/- 4	4O0	4	0	5,167,928	90:6
784	99	256	02:52:06.800		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/- 4	4O0	4	0	5,167,954	35:0
785	99	256	02:52:06.800	465WL6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	5,167,954	35:0
786	99	256	02:52:08.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/- 4	4O0	4	0	5,167,954	36:8
787	99	256	04:10:26.133	488DM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,168,031	77:0
788	99	256	04:40:28.800	488DM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,168,061	51:0
789	99	256	04:54:58.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/- 4	4O0	4	0	5,168,075	81:0
790	99	256	04:54:58.133	465WM6A	6DTRN	CMD,6DTRN,465WM6	DMS TRACK TURNAROUND	4O0	4	0	5,168,075	81:0
791	99	256	04:54:58.133		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/- 4	4O0	4	0	5,168,075	81:0
792	99	256	04:54:59.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/- 4	4O0	4	0	5,168,075	83:1
793	99	256	04:55:04.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/- 4	4O0	4	0	5,168,076	00:0
794	99	256	04:55:06.000		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/- 4	4O0	4	0	5,168,076	01:8
795	99	256	04:55:07.400		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/- 4	4O0	4	0	5,168,076	03:9
796	99	256	04:59:08.066		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 4	4O0	4	0	5,168,080	00:9
797	99	256	04:59:09.266		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 4	4O0	4	0	5,168,080	02:7
798	99	256	04:59:09.266		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 4	4O0	4	0	5,168,080	02:7
799	99	256	04:59:09.466	488DM6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,168,080	03:0
800	99	256	04:59:10.666		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	5,168,080	04:8
801	99	256	04:59:22.666		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	5,168,080	22:8
802	99	256	04:59:23.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	5,168,080	24:6
803	99	256	05:06:01.466	465WN6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,168,086	75:0
804	99	256	05:06:01.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,168,086	75:0
805	99	256	05:06:08.133		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,168,086	85:0
806	99	256	05:06:12.000		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	5,168,086	90:8
807	99	256	05:06:12.000		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	5,168,086	90:8
808	99	256	05:19:21.466	488DM6D	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,168,100	01:0
809	99	256	05:37:55.466		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	5,168,118	34:0
810	99	256	05:37:55.466	465WN6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	5,168,118	34:0
811	99	256	05:37:56.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	5,168,118	35:8
812	99	256	05:48:27.466	488DM6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,168,128	72:0
813	99	256	05:53:31.466		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	5,168,133	73:0
814	99	256	05:53:31.466	465WO6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,168,133	73:0
815	99	256	05:53:32.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	5,168,133	75:1
816	99	256	05:53:38.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	5,168,133	83:0
817	99	256	05:53:39.333		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	5,168,133	84:8
818	99	256	05:53:43.200		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	5,168,133	90:6
819	99	256	05:53:43.200		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	5,168,133	90:6
820	99	256	06:25:39.466	465WP6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,168,165	53:0
821	99	256	06:25:39.466		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	5,168,165	53:0
822	99	256	06:25:40.666		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	5,168,165	54:8
823	99	256	06:25:44.533		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	5,168,165	60:6

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	99	256	06:25:44.533		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	5,168,165:60:6	
825	99	256	06:57:40.133	465WP6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	5,168,197:22:0	
826	99	256	06:57:40.133		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	5,168,197:22:0	
827	99	256	06:57:41.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	5,168,197:23:8	
828	99	256	07:12:23.466	465WQ6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,168,211:73:0	
829	99	256	07:12:23.466		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	5,168,211:73:0	
830	99	256	07:12:24.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	5,168,211:75:1	
831	99	256	07:12:30.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	5,168,211:83:0	
832	99	256	07:12:31.333		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	5,168,211:84:8	
833	99	256	07:12:35.200		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	5,168,211:90:6	
834	99	256	07:12:35.200		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	5,168,211:90:6	
835	99	256	07:44:30.800	465WR6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,168,243:52:0	
836	99	256	07:44:30.800		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	5,168,243:52:0	
837	99	256	07:44:32.000		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	5,168,243:53:8	
838	99	256	07:44:35.866		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	5,168,243:59:6	
839	99	256	07:44:35.866		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	5,168,243:59:6	
840	99	256	07:45:36.800	465WR6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	5,168,244:60:0	
841	99	256	07:45:36.800		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	5,168,244:60:0	
842	99	256	07:45:38.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	5,168,244:61:8	
843	99	256	07:45:59.466	488DN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,168,245:03:0	
844	99	256	08:00:06.800		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	5,168,259:00:0	
845	99	256	08:00:06.800	465WS6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	5,168,259:00:0	
846	99	256	08:01:00.800	465WT6A	6DTRN	CMD,6DTRN,465WT6	DMS TRACK TURNAROUND	4O0	4	0	5,168,259:81:0	
847	99	256	08:01:00.800		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	5,168,259:81:0	
848	99	256	08:01:00.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	5,168,259:81:0	
849	99	256	08:01:02.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	5,168,259:83:1	
850	99	256	08:01:07.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	5,168,260:00:0	
851	99	256	08:01:08.666		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	5,168,260:01:8	
852	99	256	08:01:10.066		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	5,168,260:03:9	
853	99	256	08:12:35.866		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	5,168,271:31:6	
854	99	256	08:12:37.066		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	5,168,271:33:4	
855	99	256	08:12:37.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	5,168,271:33:4	
856	99	256	08:12:38.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	5,168,271:35:5	
857	99	256	08:12:50.466		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	5,168,271:53:5	
858	99	256	08:12:51.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	5,168,271:55:3	
859	99	256	08:41:32.800	488DN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,168,299:89:0	
860	99	256	11:38:36.800	488DN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,168,475:09:0	
861	99	256	12:17:00.800	488DN6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,168,513:07:0	
862	99	256	12:50:41.466	488DN6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,168,546:35:0	
863	99	256	13:17:31.466	488DO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,168,572:84:0	
864	99	256	14:23:00.133	488DO6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,168,637:62:0	
865	99	256	19:31:00.133	488DP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,168,942:27:0	
866	**99**	**256**	**19:45:00.133**	**41SX99A**	**POWER**	**PWR MODE change**	**Change to Data Taking Mode**	**4O0**	**4**	**0**	**5,168,956:13:0**	
867	**99**	**256**	**19:45:04.133**	**41SX3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,168,956:19:0**	
868	**99**	**256**	**19:45:14.133**	**41SX3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,168,956:34:0**	
869	**99**	**256**	**19:45:24.133**	**41SX3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,168,956:49:0**	
870	**99**	**256**	**19:45:34.133**	**41SX3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,168,956:64:0**	
871	**99**	**256**	**20:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,168,970:88:8**	
872	**99**	**256**	**20:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,168,970:88:8**	
873	**99**	**256**	**20:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,168,970:88:8**	
874	**99**	**256**	**20:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,168,970:88:8**	
875	**99**	**256**	**20:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,168,970:88:8**	
876	**99**	**256**	**20:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**5,168,970:88:8**	
877	**99**	**256**	**20:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,168,970:88:8**	
878	**99**	**256**	**20:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**5,168,970:88:8**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	**99**	**256**	**20:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**5,168,970:88:8**	
880	99	256	20:00:00.133		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,168,970:89:0	

22JNJUPRTS01

```
OAPEL:  22JNJUPRTS01            ALIAS:  22JNJUPRTS01
EXT:    R                       PSID:   DB
SCLK1:  05121670:00:0           SCLK2:  05121689:12:0
SCET1:  1999-223/14:53:29.133   SCET2:  1999-223/15:12:49.800
TARGET: JUPITER                 PARTITION: 1

MODE:       3                   GAIN:       4
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 124         PTAB_B:     1 1 0 0 124
ECAL:       0                   OPCAL:      0
R/T:        1                   RECORD:     0

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  0
EST_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   084                 TLMFMT:     RT

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0305084000          03  05  084  000
WTGRP_SIZ:  5
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00007	0,0000,0000,0000,0111
1	00007	0,0000,0000,0000,0111
2	00007	0,0000,0000,0000,0111
3	00007	0,0000,0000,0000,0111
4	00007	0,0000,0000,0000,0111
5	00007	0,0000,0000,0000,0111
6	00007	0,0000,0000,0000,0111
7	00007	0,0000,0000,0000,0111
8	00007	0,0000,0000,0000,0111
9	00007	0,0000,0000,0000,0111
10	00007	0,0000,0000,0000,0111
11	00007	0,0000,0000,0000,0111
12	0000F	0,0000,0000,0000,1111
13	0000F	0,0000,0000,0000,1111
14	0000F	0,0000,0000,0000,1111
15	0000F	0,0000,0000,0000,1111
16	0000F	0,0000,0000,0000,1111
17	0000F	0,0000,0000,0000,1111
18	0000F	0,0000,0000,0000,1111
19	0000F	0,0000,0000,0000,1111
20	0000F	0,0000,0000,0000,1111
21	0000F	0,0000,0000,0000,1111
22	0000F	0,0000,0000,0000,1111
23	0000F	0,0000,0000,0000,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNJUPRTS02

```
OAPEL:  22JNJUPRTS02            ALIAS:  22JNJUPRTS02
EXT:    R                       PSID:   DC
SCLK1:  05121940:00:0           SCLK2:  05121959:12:0
SCET1:  1999-223/19:26:29.066   SCET2:  1999-223/19:45:49.733
TARGET: JUPITER                 PARTITION: 1

MODE:       3                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 124         PTAB_B:     1 1 0 0 124
ECAL:       0                   OPCAL:      0
R/T:        1                   RECORD:     0

MB_DOWN:    11011               MB_UP:      11011
COMP_FLAG:  0
EST_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   442                 TLMFMT:     RT

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0302408000          03  02  408  000
WTGRP_SIZ:  2
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	1FFFF	1,1111,1111,1111,1111
2	1FFFF	1,1111,1111,1111,1111
3	1FFFF	1,1111,1111,1111,1111
4	1FFFF	1,1111,1111,1111,1111
5	1FFFF	1,1111,1111,1111,1111
6	1FFFF	1,1111,1111,1111,1111
7	1FFFF	1,1111,1111,1111,1111
8	1FFFF	1,1111,1111,1111,1111
9	1FFFF	1,1111,1111,1111,1111
10	1FFFF	1,1111,1111,1111,1111
11	1FFFF	1,1111,1111,1111,1111
12	1FFFF	1,1111,1111,1111,1111
13	1FFFF	1,1111,1111,1111,1111
14	1FFFF	1,1111,1111,1111,1111
15	1FFFF	1,1111,1111,1111,1111
16	1FFFF	1,1111,1111,1111,1111
17	1FFFF	1,1111,1111,1111,1111
18	1FFFF	1,1111,1111,1111,1111
19	1FFFF	1,1111,1111,1111,1111
20	1FFFF	1,1111,1111,1111,1111
21	1FFFF	1,1111,1111,1111,1111
22	1FFFF	1,1111,1111,1111,1111
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNHOTMAP01

```
OAPEL:  22JNHOTMAP01            ALIAS:  22JNHOTMAP01
EXT:    A                       PSID:   DD
SCLK1:  05122281:06:0           SCLK2:  05122290:72:0
SCET1:    99-224/01:11:20.400   SCET2:    99-224/01:21:10.400
TARGET: JUPITER                 PARTITION: 1

MODE:       3                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 124         PTAB_B:     1 1 0 0 124
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:    76                 TLMFMT:     LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0326076001          03  26  076  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	00000	0,0000,0000,0000,0000
2	01480	0,0001,0100,1000,0000
3	01580	0,0001,0101,1000,0000
4	01D00	0,0001,1101,0000,0000
5	01D01	0,0001,1101,0000,0001
6	09900	0,1001,1001,0000,0000
7	0A900	0,1010,1001,0000,0000
8	0A900	0,1010,1001,0000,0000
9	02900	0,0010,1001,0000,0000
10	02900	0,0010,1001,0000,0000
11	02900	0,0010,1001,0000,0000
12	02900	0,0010,1001,0000,0000
13	02900	0,0010,1001,0000,0000
14	02900	0,0010,1001,0000,0000
15	02900	0,0010,1001,0000,0000
16	0A900	0,1010,1001,0000,0000
17	0A900	0,1010,1001,0000,0000
18	0A900	0,1010,1001,0000,0000
19	02900	0,0010,1001,0000,0000
20	02900	0,0010,1001,0000,0000
21	02900	0,0010,1001,0000,0000
22	02900	0,0010,1001,0000,0000
23	02900	0,0010,1001,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNHOTMAP01

OAPEL: 22JNHOTMAP01 ALIAS: 22JNHOTMAP01
EXT: B PSID: DD
SCLK1: 05122281:06:0 SCLK2: 05122290:72:0
SCET1: 99-224/01:11:20.400 SCET2: 99-224/01:21:10.400
TARGET: JUPITER PARTITION: 1

MODE: 3 GAIN: 2
CHOP: 1 GRAT_OFF: 4
PTAB_A: 1 1 0 0 124 PTAB_B: 1 1 0 0 124
ECAL: 0 OPCAL: 0
R/T: 0 RECORD: 1

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 177 TLMFMT: LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES: 000, 000, 000, 000, 000, 000, 000, 000, 000
000, 000, 000, 000, 000, 000, 000, 000

WETGID: 0326177001 03 26 177 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11DC3	1,0001,1101,1100,0011
1	11DC3	1,0001,1101,1100,0011
2	10943	1,0000,1001,0100,0011
3	18843	1,1000,1000,0100,0011
4	1A0C3	1,1010,0000,1100,0011
5	1A0C2	1,1010,0000,1100,0010
6	124C7	1,0010,0100,1100,0111
7	114C7	1,0001,0100,1100,0111
8	11487	1,0001,0100,1000,0111
9	194C7	1,1001,0100,1100,0111
10	094C7	0,1001,0100,1100,0111
11	094C7	0,1001,0100,1100,0111
12	094C7	0,1001,0100,1100,0111
13	094C7	0,1001,0100,1100,0111
14	094C7	0,1001,0100,1100,0111
15	094C7	0,1001,0100,1100,0111
16	11487	1,0001,0100,1000,0111
17	11487	1,0001,0100,1000,0111
18	11407	1,0001,0100,0000,0111
19	19407	1,1001,0100,0000,0111
20	11487	1,0001,0100,1000,0111
21	11487	1,0001,0100,1000,0111
22	11487	1,0001,0100,1000,0111
23	11087	1,0001,0000,1000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNHOTMAP01

```
OAPEL:  22JNHOTMAP01            ALIAS:  22JNHOTMAP01
EXT:    C                       PSID:   DD
SCLK1:  05122281:06:9           SCLK2:  05122290:72:0
SCET1:    99-224/01:11:20.400   SCET2:    99-224/01:21:10.400
TARGET: JUPITER                 PARTITION: 1

MODE:      3                    GAIN:      2
CHOP:      1                    GRAT_OFF:  4
PTAB_A:    1 1 0 0 124          PTAB_B:    1 1 0 0 124
ECAL:      0                    OPCAL:     0
R/T:       0                    RECORD:    1

MB_DOWN:   00000                MB_UP:     00000
COMP_FLAG: 1
EST_COMP:  2.0                  EST_COMPV: 0.3
RATE_CON1: 00000                RATE_CON2: 00000
NWAVETOT:  253                  TLMFMT:    LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:    0312253000          03  12  253  000
WTGRP_SIZ: 12
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11DC3	1,0001,1101,1100,0011
1	11DC3	1,0001,1101,1100,0011
2	11DC3	1,0001,1101,1100,0011
3	19DC3	1,1001,1101,1100,0011
4	1BDC3	1,1011,1101,1100,0011
5	1BDC3	1,1011,1101,1100,0011
6	1BDC7	1,1011,1101,1100,0111
7	1BDC7	1,1011,1101,1100,0111
8	1BD87	1,1011,1101,1000,0111
9	1BDC7	1,1011,1101,1100,0111
10	0BDC7	0,1011,1101,1100,0111
11	0BDC7	0,1011,1101,1100,0111
12	0BDC7	0,1011,1101,1100,0111
13	0BDC7	0,1011,1101,1100,0111
14	0BDC7	0,1011,1101,1100,0111
15	0BDC7	0,1011,1101,1100,0111
16	1BD87	1,1011,1101,1000,0111
17	1BD87	1,1011,1101,1000,0111
18	1BD07	1,1011,1101,0000,0111
19	1BD07	1,1011,1101,0000,0111
20	13D87	1,0011,1101,1000,0111
21	13D87	1,0011,1101,1000,0111
22	13D87	1,0011,1101,1000,0111
23	13987	1,0011,1001,1000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22INHRSPEC01

OAPEL: 22INHRSPEC01 ALIAS: 22INHRSPEC01
EXT: A PSID: DA
SCLK1: 05122491:00:0 SCLK2: 05122493:90:0
SCET1: 99-224/04:43:36.400 SCET2: 99-224/04:46:38.400
TARGET: IO PARTITION: 1

MODE: 3 GAIN: 4
CHOP: 1 GRAT_OFF: 4
PTAB_A: 1 1 0 0 124 PTAB_B: 1 1 0 0 124
ECAL: 0 OPCAL: 0
R/T: 0 RECORD: 1

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 228 TLMFMT: LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES: 000, 000, 000, 000, 000, 000, 000, 000, 000
000, 000, 000, 000, 000, 000, 000, 000

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1A100	1,1010,0001,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	1A100	1,1010,0001,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	1A100	1,1010,0001,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	1A100	1,1010,0001,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	1A100	1,1010,0001,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	1A100	1,1010,0001,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	1A100	1,1010,0001,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	1A100	1,1010,0001,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	1A100	1,1010,0001,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	1A100	1,1010,0001,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	1A100	1,1010,0001,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	1A100	1,1010,0001,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22NNOPCAL_02

```
OAPEL:  22NNOPCAL_02              ALIAS:  22INHRSPEC01
EXT:    A                         PSID:   DA
SCLK1:  05122496:00:0             SCLK2:  05122496:81:0
SCET1:    99-224/04:48:40.400     SCET2:    99-224/04:49:33.733
TARGET: IO                        PARTITION: 1

MODE:       3                     GAIN:       4
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 124           PTAB_B:     1 1 0 0 124
ECAL:       0                     OPCAL:      1
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    48                   TLMFMT:     LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0326048001          03  26  048  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18000	1,1000,0000,0000,0000
1	18000	1,1000,0000,0000,0000
2	18000	1,1000,0000,0000,0000
3	18000	1,1000,0000,0000,0000
4	18000	1,1000,0000,0000,0000
5	18000	1,1000,0000,0000,0000
6	18000	1,1000,0000,0000,0000
7	18000	1,1000,0000,0000,0000
8	18000	1,1000,0000,0000,0000
9	18000	1,1000,0000,0000,0000
10	18000	1,1000,0000,0000,0000
11	18000	1,1000,0000,0000,0000
12	18000	1,1000,0000,0000,0000
13	18000	1,1000,0000,0000,0000
14	18000	1,1000,0000,0000,0000
15	18000	1,1000,0000,0000,0000
16	18000	1,1000,0000,0000,0000
17	18000	1,1000,0000,0000,0000
18	18000	1,1000,0000,0000,0000
19	18000	1,1000,0000,0000,0000
20	18000	1,1000,0000,0000,0000
21	18000	1,1000,0000,0000,0000
22	18000	1,1000,0000,0000,0000
23	18000	1,1000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNHOTMAP02

```
OAPEL:  22JNHOTMAP02            ALIAS:  22JNHOTMAP02
EXT:    B                       PSID:   DE
SCLK1:  05122524:06:0           SCLK2:  05122533:72:0
SCET1:    99-224/05:17:02.400   SCET2:    99-224/05:26:52.400
TARGET: JUPITER                 PARTITION: 1

MODE:      3                    GAIN:      4
CHOP:      1                    GRAT_OFF:  4
PTAB_A:    1 1 0 0 124          PTAB_B:    1 1 0 0 124
ECAL:      0                    OPCAL:     0
R/T:       0                    RECORD:    1

MB_DOWN:   00000                MB_UP:     00000
COMP_FLAG: 1
EST_COMP:  2.0                  EST_COMPV: 0.3
RATE_CON1: 00000                RATE_CON2: 65525
NWAVETOT:   46                  TLMFMT:    LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:    0326046001          03  26  046  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00100	0,0000,0001,0000,0000
1	00100	0,0000,0001,0000,0000
2	00100	0,0000,0001,0000,0000
3	00100	0,0000,0001,0000,0000
4	00100	0,0000,0001,0000,0000
5	00100	0,0000,0001,0000,0000
6	00100	0,0000,0001,0000,0000
7	00100	0,0000,0001,0000,0000
8	00110	0,0000,0001,0001,0000
9	00110	0,0000,0001,0001,0000
10	00110	0,0000,0001,0001,0000
11	00910	0,0000,1001,0001,0000
12	00910	0,0000,1001,0001,0000
13	00910	0,0000,1001,0001,0000
14	00910	0,0000,1001,0001,0000
15	00910	0,0000,1001,0001,0000
16	00910	0,0000,1001,0001,0000
17	00910	0,0000,1001,0001,0000
18	00810	0,0000,1000,0001,0000
19	00810	0,0000,1000,0001,0000
20	00810	0,0000,1000,0001,0000
21	00810	0,0000,1000,0001,0000
22	00810	0,0000,1000,0001,0000
23	00010	0,0000,0000,0001,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNHOTMAP02

```
OAPEL:  22JNHOTMAP02            ALIAS:  22JNHOTMAP02
EXT:    A                       PSID:   DE
SCLK1:  05122524:06:0           SCLK2:  05122533:72:0
SCET1:    99-224/05:17:02.400   SCET2:    99-224/05:26:52.400
TARGET: JUPITER                 PARTITION: 1

MODE:       3                   GAIN:       4
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 124         PTAB_B:     1 1 0 0 124
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:    80                 TLMFMT:     LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0326080001          03  26  080  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00007	0,0000,0000,0000,0111
1	00007	0,0000,0000,0000,0111
2	00007	0,0000,0000,0000,0111
3	00007	0,0000,0000,0000,0111
4	00007	0,0000,0000,0000,0111
5	00007	0,0000,0000,0000,0111
6	00007	0,0000,0000,0000,0111
7	00007	0,0000,0000,0000,0111
8	00007	0,0000,0000,0000,0111
9	00007	0,0000,0000,0000,0111
10	00007	0,0000,0000,0000,0111
11	00007	0,0000,0000,0000,0111
12	00007	0,0000,0000,0000,0111
13	00007	0,0000,0000,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	0000F	0,0000,0000,0000,1111
17	0000F	0,0000,0000,0000,1111
18	0000F	0,0000,0000,0000,1111
19	0000F	0,0000,0000,0000,1111
20	0000F	0,0000,0000,0000,1111
21	0000F	0,0000,0000,0000,1111
22	0000F	0,0000,0000,0000,1111
23	0000F	0,0000,0000,0000,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNHOTMAP02

```
OAPEL:  22JNHOTMAP02            ALIAS:  22JNHOTMAP02
EXT:    C                       PSID:   DE
SCLK1:  05122524:06:9           SCLK2:  05122533:72:0
SCET1:    99-224/05:17:02.400   SCET2:    99-224/05:26:52.400
TARGET: JUPITER                 PARTITION: 1

MODE:       3                   GAIN:       4
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 124         PTAB_B:     1 1 0 0 124
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   126                 TLMFMT:     LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0303253000          03  03  253  000
WTGRP_SIZ:  3
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	005FF	0,0000,0101,1111,1111
1	005FF	0,0000,0101,1111,1111
2	005FF	0,0000,0101,1111,1111
3	005FF	0,0000,0101,1111,1111
4	005FF	0,0000,0101,1111,1111
5	005FF	0,0000,0101,1111,1111
6	005FF	0,0000,0101,1111,1111
7	005FF	0,0000,0101,1111,1111
8	005FF	0,0000,0101,1111,1111
9	005FF	0,0000,0101,1111,1111
10	005FF	0,0000,0101,1111,1111
11	00DFF	0,0000,1101,1111,1111
12	00DFF	0,0000,1101,1111,1111
13	00DFF	0,0000,1101,1111,1111
14	00DFF	0,0000,1101,1111,1111
15	00DFF	0,0000,1101,1111,1111
16	00DFF	0,0000,1101,1111,1111
17	00DFF	0,0000,1101,1111,1111
18	00DFF	0,0000,1101,1111,1111
19	00DFF	0,0000,1101,1111,1111
20	00DFF	0,0000,1101,1111,1111
21	00DFF	0,0000,1101,1111,1111
22	00DFF	0,0000,1101,1111,1111
23	00DFF	0,0000,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNHOTMAP03

```
OAPEL:  22JNHOTMAP03            ALIAS:  22JNHOTMAP03
EXT:    A                       PSID:   DG
SCLK1:  05122612:05:0           SCLK2:  05122621:71:0
SCET1:    99-224/06:46:01.066   SCET2:    99-224/06:55:51.066
TARGET: JUPITER                 PARTITION: 1

MODE:       3                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 124         PTAB_B:     1 1 0 0 124
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:   253                 TLMFMT:     LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0326253001          03  26  253  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11DC3	1,0001,1101,1100,0011
1	11DC3	1,0001,1101,1100,0011
2	11DC3	1,0001,1101,1100,0011
3	19DC3	1,1001,1101,1100,0011
4	1BDC3	1,1011,1101,1100,0011
5	1BDC3	1,1011,1101,1100,0011
6	1BDC7	1,1011,1101,1100,0111
7	1BDC7	1,1011,1101,1100,0111
8	1BD87	1,1011,1101,1000,0111
9	1BDC7	1,1011,1101,1100,0111
10	0BDC7	0,1011,1101,1100,0111
11	0BDC7	0,1011,1101,1100,0111
12	0BDC7	0,1011,1101,1100,0111
13	0BDC7	0,1011,1101,1100,0111
14	0BDC7	0,1011,1101,1100,0111
15	0BDC7	0,1011,1101,1100,0111
16	1BD87	1,1011,1101,1000,0111
17	1BD87	1,1011,1101,1000,0111
18	1BD07	1,1011,1101,0000,0111
19	1BD07	1,1011,1101,0000,0111
20	13D87	1,0011,1101,1000,0111
21	13D87	1,0011,1101,1000,0111
22	13D87	1,0011,1101,1000,0111
23	13987	1,0011,1001,1000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNWHTOVL01

OAPEL: 22JNWHTOVL01 ALIAS: 22JNWHTOVL01
EXT: A PSID: DJ
SCLK1: 05123289:06:0 SCLK2: 05123298:72:0
SCET1: 99-224/18:10:32.400 SCET2: 99-224/18:20:22.400
TARGET: JUPITER PARTITION: 1

MODE: 3 GAIN: 2
CHOP: 1 GRAT_OFF: 4
PTAB_A: 1 1 0 0 124 PTAB_B: 1 1 0 0 124
ECAL: 0 OPCAL: 0
R/T: 0 RECORD: 1

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 132 TLMFMT: LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES: 000, 000, 000, 000, 000, 000, 000, 000, 000
000, 000, 000, 000, 000, 000, 000, 000

WETGID: 0326132001 03 26 132 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11D80	1,0001,1101,1000,0000
1	11D80	1,0001,1101,1000,0000
2	11D80	1,0001,1101,1000,0000
3	11D80	1,0001,1101,1000,0000
4	11D80	1,0001,1101,1000,0000
5	11D81	1,0001,1101,1000,0001
6	11D80	1,0001,1101,1000,0000
7	19D80	1,1001,1101,1000,0000
8	1AD80	1,1010,1101,1000,0000
9	1AD80	1,1010,1101,1000,0000
10	0AD80	0,1010,1101,1000,0000
11	0AD80	0,1010,1101,1000,0000
12	0AD80	0,1010,1101,1000,0000
13	0AD80	0,1010,1101,1000,0000
14	0A980	0,1010,1001,1000,0000
15	0A980	0,1010,1001,1000,0000
16	0A980	0,1010,1001,1000,0000
17	0A980	0,1010,1001,1000,0000
18	0A900	0,1010,1001,0000,0000
19	0A900	0,1010,1001,0000,0000
20	02980	0,0010,1001,1000,0000
21	02980	0,0010,1001,1000,0000
22	02980	0,0010,1001,1000,0000
23	02980	0,0010,1001,1000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNWHTOVL02

OAPEL: 22JNWHTOVL02 ALIAS: 22JNWHTOVL02
EXT: A PSID: DK
SCLK1: 05123440:87:0 SCLK2: 05123456:11:0
SCET1: 99-224/20:44:07.733 SCET2: 99-224/20:59:27.066
TARGET: JUPITER PARTITION: 1

MODE: 3 GAIN: 2
CHOP: 1 GRAT_OFF: 4
PTAB_A: 1 1 0 0 124 PTAB_B: 1 1 0 0 124
ECAL: 0 OPCAL: 0
R/T: 0 RECORD: 1

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 238 TLMFMT: LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES: 000, 000, 000, 000, 000, 000, 000, 000, 000
000, 000, 000, 000, 000, 000, 000, 000

WETGID: 0326238001 03 26 238 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11D83	1,0001,1101,1000,0011
1	11D83	1,0001,1101,1000,0011
2	11D83	1,0001,1101,1000,0011
3	19D83	1,1001,1101,1000,0011
4	1BD83	1,1011,1101,1000,0011
5	1BD83	1,1011,1101,1000,0011
6	1BD87	1,1011,1101,1000,0111
7	1BD87	1,1011,1101,1000,0111
8	1BD87	1,1011,1101,1000,0111
9	1BD87	1,1011,1101,1000,0111
10	0BD87	0,1011,1101,1000,0111
11	0BD87	0,1011,1101,1000,0111
12	0BD87	0,1011,1101,1000,0111
13	0BD87	0,1011,1101,1000,0111
14	0BD87	0,1011,1101,1000,0111
15	0BD87	0,1011,1101,1000,0111
16	1BD87	1,1011,1101,1000,0111
17	1BD87	1,1011,1101,1000,0111
18	1BD07	1,1011,1101,0000,0111
19	1BD07	1,1011,1101,0000,0111
20	13D87	1,0011,1101,1000,0111
21	13D87	1,0011,1101,1000,0111
22	13D87	1,0011,1101,1000,0111
23	13987	1,0011,1001,1000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22JNDKSPOT01

```
OAPEL:  22JNDKSPOT01              ALIAS:  22JNDKSPOT01
EXT:    A                         PSID:   DL
SCLK1:  05123473:88:0             SCLK2:  05123485:00:0
SCET1:    99-224/21:17:30.400     SCET2:    99-224/21:28:39.066
TARGET: JUPITER                   PARTITION: 1

MODE:      3                      GAIN:      2
CHOP:      1                      GRAT_OFF:  4
PTAB_A:    1 1 0 0 124            PTAB_B:    1 1 0 0 124
ECAL:      0                      OPCAL:     0
R/T:       0                      RECORD:    1

MB_DOWN:   00000                  MB_UP:     00000
COMP_FLAG: 1
EST_COMP:  2.0                    EST_COMPV: 0.3
RATE_CON1: 00000                  RATE_CON2: 65525
NWAVETOT:  238                    TLMFMT:    LPU

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:    0326238001          03  26  238  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	11D83	1,0001,1101,1000,0011
1	11D83	1,0001,1101,1000,0011
2	11D83	1,0001,1101,1000,0011
3	19D83	1,1001,1101,1000,0011
4	1BD83	1,1011,1101,1000,0011
5	1BD83	1,1011,1101,1000,0011
6	1BD87	1,1011,1101,1000,0111
7	1BD87	1,1011,1101,1000,0111
8	1BD87	1,1011,1101,1000,0111
9	1BD87	1,1011,1101,1000,0111
10	0BD87	0,1011,1101,1000,0111
11	0BD87	0,1011,1101,1000,0111
12	0BD87	0,1011,1101,1000,0111
13	0BD87	0,1011,1101,1000,0111
14	0BD87	0,1011,1101,1000,0111
15	0BD87	0,1011,1101,1000,0111
16	1BD87	1,1011,1101,1000,0111
17	1BD87	1,1011,1101,1000,0111
18	1BD07	1,1011,1101,0000,0111
19	1BD07	1,1011,1101,0000,0111
20	13D87	1,0011,1101,1000,0111
21	13D87	1,0011,1101,1000,0111
22	13D87	1,0011,1101,1000,0111
23	13987	1,0011,1001,1000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22NNRCTRLT01

```
OAPEL:  22NNRCTRLT01            ALIAS:  LSNNRCTRTA01
EXT:    R                       PSID:   XU
SCLK1:  05152806:00:0           SCLK2:  05152806:12:0
SCET1:  1999-245/11:35:25.333   SCET2:  1999-245/11:35:33.333
TARGET: CAL                     PARTITION: 1

MODE:       3                   GAIN:       1
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 124         PTAB_B:     1 1 0 0 124
ECAL:       0                   OPCAL:      0
R/T:        1                   RECORD:     0

MB_DOWN:    11011               MB_UP:      11011
COMP_FLAG:  0
EST_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   252                 TLMFMT:     RT

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0303252000          03  03  252  000
WTGRP_SIZ:  3
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	003FF	0,0000,0011,1111,1111
1	003FF	0,0000,0011,1111,1111
2	003FF	0,0000,0011,1111,1111
3	003FF	0,0000,0011,1111,1111
4	003FF	0,0000,0011,1111,1111
5	003FF	0,0000,0011,1111,1111
6	003FF	0,0000,0011,1111,1111
7	003FF	0,0000,0011,1111,1111
8	003FF	0,0000,0011,1111,1111
9	003FF	0,0000,0011,1111,1111
10	003FF	0,0000,0011,1111,1111
11	003FF	0,0000,0011,1111,1111
12	007FF	0,0000,0111,1111,1111
13	007FF	0,0000,0111,1111,1111
14	007FF	0,0000,0111,1111,1111
15	007FF	0,0000,0111,1111,1111
16	007FF	0,0000,0111,1111,1111
17	007FF	0,0000,0111,1111,1111
18	007FF	0,0000,0111,1111,1111
19	007FF	0,0000,0111,1111,1111
20	007FF	0,0000,0111,1111,1111
21	007FF	0,0000,0111,1111,1111
22	007FF	0,0000,0111,1111,1111
23	007FF	0,0000,0111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22NNRCTRLT01

```
OAPEL:  22NNRCTRLT01            ALIAS:  LSNNRCTRTA01
EXT:    S                       PSID:   XU
SCLK1:  05152812:00:0           SCLK2:  05152813:12:0
SCET1:  1999-245/11:41:29.333   SCET2:  1999-245/11:42:38.000
TARGET: CAL                     PARTITION: 1

MODE:       3                   GAIN:       1
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 124         PTAB_B:     1 1 0 0 124
ECAL:       0                   OPCAL:      0
R/T:        1                   RECORD:     0

MB_DOWN:    11011               MB_UP:      11011
COMP_FLAG:  0
EST_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   252                 TLMFMT:     RT

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0303252000          03  03  252  000
WTGRP_SIZ:  3
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	003FF	0,0000,0011,1111,1111
1	003FF	0,0000,0011,1111,1111
2	003FF	0,0000,0011,1111,1111
3	003FF	0,0000,0011,1111,1111
4	003FF	0,0000,0011,1111,1111
5	003FF	0,0000,0011,1111,1111
6	003FF	0,0000,0011,1111,1111
7	003FF	0,0000,0011,1111,1111
8	003FF	0,0000,0011,1111,1111
9	003FF	0,0000,0011,1111,1111
10	003FF	0,0000,0011,1111,1111
11	003FF	0,0000,0011,1111,1111
12	007FF	0,0000,0111,1111,1111
13	007FF	0,0000,0111,1111,1111
14	007FF	0,0000,0111,1111,1111
15	007FF	0,0000,0111,1111,1111
16	007FF	0,0000,0111,1111,1111
17	007FF	0,0000,0111,1111,1111
18	007FF	0,0000,0111,1111,1111
19	007FF	0,0000,0111,1111,1111
20	007FF	0,0000,0111,1111,1111
21	007FF	0,0000,0111,1111,1111
22	007FF	0,0000,0111,1111,1111
23	007FF	0,0000,0111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22NNRCTRLT01

```
OAPEL:  22NNRCTRLT01            ALIAS:  LSNNRCTRTA01
EXT:    T                       PSID:   XU
SCLK1:  05152818:00:0           SCLK2:  05152818:12:0
SCET1:  1999-245/11:47:33.333   SCET2:  1999-245/11:47:41.333
TARGET: CAL                     PARTITION: 1

MODE:       3                   GAIN:       1
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 124         PTAB_B:     1 1 0 0 124
ECAL:       0                   OPCAL:      0
R/T:        1                   RECORD:     0

MB_DOWN:    11011               MB_UP:      11011
COMP_FLAG:  0
EST_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   252                 TLMFMT:     RT

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0303252000          03  03  252  000
WTGRP_SIZ:  3
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	003FF	0,0000,0011,1111,1111
1	003FF	0,0000,0011,1111,1111
2	003FF	0,0000,0011,1111,1111
3	003FF	0,0000,0011,1111,1111
4	003FF	0,0000,0011,1111,1111
5	003FF	0,0000,0011,1111,1111
6	003FF	0,0000,0011,1111,1111
7	003FF	0,0000,0011,1111,1111
8	003FF	0,0000,0011,1111,1111
9	003FF	0,0000,0011,1111,1111
10	003FF	0,0000,0011,1111,1111
11	003FF	0,0000,0011,1111,1111
12	007FF	0,0000,0111,1111,1111
13	007FF	0,0000,0111,1111,1111
14	007FF	0,0000,0111,1111,1111
15	007FF	0,0000,0111,1111,1111
16	007FF	0,0000,0111,1111,1111
17	007FF	0,0000,0111,1111,1111
18	007FF	0,0000,0111,1111,1111
19	007FF	0,0000,0111,1111,1111
20	007FF	0,0000,0111,1111,1111
21	007FF	0,0000,0111,1111,1111
22	007FF	0,0000,0111,1111,1111
23	007FF	0,0000,0111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

22NNOPCAL_01

```
OAPEL:  22NNOPCAL_01            ALIAS:  LSNNOPCAL_01
EXT:    R                       PSID:   DC
SCLK1:  05152822:00:0           SCLK2:  05152824:12:0
SCET1:  1999-245/11:51:36.000   SCET2:  1999-245/11:53:45.333
TARGET: CAL                     PARTITION: 1

MODE:       3                   GAIN:       4
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 124         PTAB_B:     1 1 0 0 124
ECAL:       0                   OPCAL:      0
R/T:        1                   RECORD:     0

MB_DOWN:    11011               MB_UP:      11011
COMP_FLAG:  0
EST_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   048                 TLMFMT:     RT

THRESHOLD_SEL: 0
THRESHOLD_VALUES:  000, 000, 000, 000, 000, 000, 000, 000, 000
                   000, 000, 000, 000, 000, 000, 000, 000

WETGID:     0302048000          03  02  048  000
WTGRP_SIZ:  2
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18000	1,1000,0000,0000,0000
1	18000	1,1000,0000,0000,0000
2	18000	1,1000,0000,0000,0000
3	18000	1,1000,0000,0000,0000
4	18000	1,1000,0000,0000,0000
5	18000	1,1000,0000,0000,0000
6	18000	1,1000,0000,0000,0000
7	18000	1,1000,0000,0000,0000
8	18000	1,1000,0000,0000,0000
9	18000	1,1000,0000,0000,0000
10	18000	1,1000,0000,0000,0000
11	18000	1,1000,0000,0000,0000
12	18000	1,1000,0000,0000,0000
13	18000	1,1000,0000,0000,0000
14	18000	1,1000,0000,0000,0000
15	18000	1,1000,0000,0000,0000
16	18000	1,1000,0000,0000,0000
17	18000	1,1000,0000,0000,0000
18	18000	1,1000,0000,0000,0000
19	18000	1,1000,0000,0000,0000
20	18000	1,1000,0000,0000,0000
21	18000	1,1000,0000,0000,0000
22	18000	1,1000,0000,0000,0000
23	18000	1,1000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

NIMS C22 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS C22 data. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry. Included items come from NIMS commands in (1) the Standard Sequence Data File (SSDF) and (2) the Playback Table Update Process (PTUP), plus some items from (3) the NIMS/CDS software load.

Note that SCLK1, SCLK2, SCET1 and SCET2 of non-realtime observations reflect the amount of data actually played back, rather than the amount recorded on tape. Likewise, the wavelength edit table pointers of non-realtime observations point to the playback edit table masks, rather than the ones used during recording.

Some of these items are needed for MIPS realtime processing of NIMS data, others for NIMSMERGE generation of the EDR and still others by NIMS/ISIS and MIPS systematic processing of EDRs into cubes. Missing non-required items will not interfere with a processing step. For completeness, almost all uplinked parameters are included in the table. (Only those items which will almost certainly remain constant have been omitted; e.g. Rice decision tables.)

The source below is one of:
- SEF for the Standard Sequence Data File (SSDF), specifying parameters of one of the NIMS (37) commands
- PBK for the Playback Table Update Process (PTUP), specifying parameters of the NIMPBK SINGLE command
- S/W for the NIMS/CDS software load process
- NIMS for NIMS team systematic processing requests to MIPS

* indicates item absolutely required for UDR generation (decompression, wavelength edit processing)
\# indicates item useful for UDR generation (for checking)
unmarked items needed for cube generation or useful for general information
<tbd> indicates more details will be forthcoming

	name	nchar	columns	.description	.source
	OAPEL	12	1 - 12	.Oapel Name from SEF (no aliases yet)	SEF: activity ID, 1st 12 chars should be unique
	ALIAS	12	13 - 24	.NIMS alias name for OAPEL	NIMS:
	EXT	1	25 - 25	.Extension, for split OAPELs, A,B,C... for playback, R,S,T... for realtime. Required for realtime.	NIMS: if breaking activity into several cubes
	PSID	2	26 - 27	.Parameter Set IDentification	SEF: <tbd>
*	SCLK1	13	28 - 40	.Start time of played-back OBS in SCLK	PBK (except realtime data: SEF)
*	SCLK2	13	41 - 53	.Stop time of played-back OBS in SCLK	PBK (except realtime data: SEF)
*	PARTITION	1	54 - 54	.Partition for SCLK1 and SCLK2.	
	<spare>	9	55 - 63	.	
	TARGET	8	64 - 71	.Primary Target of OBS	SEF: translate from 3rd char in OAPEL (activity ID)

	MODE	2	72 - 73	.NIMS Instrument MODE (0-15)	SEF: 37IOP, data byte 2, bits 5-8	
	GAIN	1	74 - 74	.Gain State (true value)	SEF: 37IST, data byte 3, bits 7-8 (if bit 6 = 1) 0=gs2, 1=gs4, 2=gs3, 3=gs1	
	CHOP	1	75 - 75	.Chopper State (1=Ref,2=63Hz,3=FreeRun,4=Off)	SEF: 37IST, data byte 2, bits 7-8 (if bit 6 = 1) 0=63hz, 1=off, 2=ref, 3=freerun	
	GRAT_OFF	1	76 - 76	.Grating Offset (0-7, default 4)	SEF: 37GOF, data byte 2, bits 5-8	
	PTAB_A(6)	12	77 - 88	.First PTAB |repeat count,mirror op,autobias...	SEF: functions of MODE (from 37IOP) as modified by 37MPT, unless special sequence (modes 12-15) in which case values come from 37SS parameters <tbd>	
	PTAB_B(6)	12	89 - 100	.Second PTAB |...grating start, grating delta...		
				. |...number of grating positions)		
	ECAL	1	101 - 101	.Electronics Calibration Active (1=yes)	SEF: 37IST, data byte 3, bit 4 (1=on)	
	OPCAL	1	102 - 102	.Optics Calibration active (1=yes)	SEF: 37IST, data byte 3, bit 5 (1=on)	
#	REAL_TIME	1	103 - 103	.NIMS in Real-Time Telemetry (1=yes)	SEF: track RT_INST_SEL .and. 37RT	
#	RECORD	1	104 - 104	.NIMS in Record Telemetry (1=yes)	SEF: track DMS status event: RECORD, REVERSE, RESUME, RUNDOWN <tbd>	
*	THRESHSEL	1	105 - 105	.Threshold value select (>0 = yes)	PBK: THRESHLD_TBL > 0 (i.e. 1-3)	
	<spare>	1	106 - 106	.		
#	RTISELDN	5	107 - 111	.RTI select, 5 binary bits (for mirror position blocking, down scan)	SEF: 37MB data byte 1, bits 4-8 <tbd>	
#	RTISELUP	5	112 - 116	.RTI select, 5 binary bits (for mirror position blocking, up scan)	SEF: 37MB data byte 2, bits 4-8 <tbd>	
	<spare>	1	117 - 117	.		
*	RICEFLAG	1	118 - 118	.Rice compression flag	PBK: 0 no compression 1 Rice compression, ref vals each mirror scan 3 Rice compression, ref vals each RIM rollover	
	<spare>	1	119 - 119	.		
	ESTCOMP	3	120 - 122	.Rice estimated compression ratio (m.n)	PBK: CMPR_DVSR <tbd>	
	ESTCOMPV	3	123 - 125	.Rice estimated error in compression ratio (m.n)	PBK: CMPR_UNC <tbd>	
#	RATECON1	5	126 - 130	.Rate control lower limit	PBK: | S/W table entry indexed by LOSSY_COMP (1-7)	
#	RATECON2	5	131 - 135	.Rate control upper limit	PBK: | or 0 if LOSSY_COMP = 0 (no rate control)	
	<spare>	17	136 - 152			
	NWAVETOT	3	153 - 155	.Total number of wavelengths selected	Compute from relevant Wavelength Edit Table group	
	TLMFMT	3	156 - 158	.Telemetry format (MPW et al, LPU or LNR)	SEF: 6TMREC command	
	SCET1	21	159 - 179	.Start time of played-back OBS in UTC	PBK (except realtime data: SEF)	
	SCET2	21	180 - 200	.Stop time of played-back OBS in UTC	PBK (except realtime data: SEF)	
	<spares>	67	201 - 267	.Start time of played-back OBS in UTC	PBK (except realtime data: SEF)	
*	THRESH	51	268 - 318	.Threshold values (17 3-digit values, 0-999)	PBK: S/W table indexed by THRESH_TBL > 0, else 0s	

```
-------------------------------------------------------------------------------------------------------------------------------
# WETGID       10 319 - 328     .Wavelength selection group ID (unique)         PBK: WET_GID    (realtime <tbd>)
                                  Rule of formation: mmeellllnnn where
                                   mm  = instrument mode (0-15)
                                   ee  = # entries in group
                                   lll = number of wavelengths selected
                                   nnn = sequence number
* WETGRPSIZ     2 329 - 330     .# Wavelength Edit entries (1-26)               PBK: ED_GRP_LEN (realtime SEF: 37ETB <tbd>)
* WETGRP      182 331 - 512     .Wavelength Edit Table group:  WETGRPSIZ        PBK: ED_GRP     (realtime SEF: 37ETB data bytes 2..)
                                  entries, each one has 7 characters.  The
                                  first 2 characters are the repeat count
                                  (01-26).  The other 5 characters contain
                                  5 hex digits, representing the detector
                                  mask in the form BHHHH where B is 0 or 1
                                  and H has range 0-15.  (These entries are
                                  from the 37ETB instrument edit group for
                                  realtime data and from the logical AND of
                                  corresponding entries in the instrument
                                  and playback edit groups for playback data.)
--------------------------------
.The TARGET names used are:
   CAL      - N - non-science targets, usually calibration targets
   EARTH    - W - Earth
   MOON     - L - Moon
   SKY      - H - Stellar Space (space and stars)
   VENUS    - V - Venus
   GASPRA   - P - Gaspra
   IDA      - U - Ida
   JUPITER  - J - Jupiter
   IO       - I - Io
   EUROPA   - E - Europa
   GANYMEDE - G - Ganymede
   CALLISTO - C - Callisto
   J_RING   - R - Jupiter rings
   (the single letter abbreviation appears as the third character in the OAPEL name ).
-------------------------------------------------------------------------------------------------------------------------------
```

```
-------------------------------------------------------------------------------------------------------------------------------
22JNJUPRTS0122JNJUPRTS01RDB05121670:00:005121689:12:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  084RT 1999-223/14:53:29.1331999-223/15:12:49.800
          00000000000000000000000000000000000000000000000000305084000 51200007120000F0200000

22JNJUPRTS0222JNJUPRTS02RDC05121940:00:005121959:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  442RT 1999-223/19:26:29.0661999-223/19:45:49.733
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

22JNHOTMAP0122JNHOTMAP01ADD05122281:06:005122290:72:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         76LPU  99-224/01:11:20.400  99-224/01:21:10.400
          00000000000000000000000000000000000000000000000000326076001260100000010000001014800101580010 1D000101D010109900010A9
00010A900010290001029000102900010290001029000102900010290001029000102900010A900010A900010A900010290001029000102900010290001029000100000010000
22JNHOTMAP0122JNHOTMAP01BDD05122281:06:005122290:72:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         177LPU  99-224/01:11:20.400  99-224/01:21:10.400
          00000000000000000000000000000000000000000000000000326177001260111DC30111DC3011094301188430 11A0C3011A0C201124C701114
C7011148701194C701094C701094C701094C701094C701094C701114870111487011140701194070111487011148701114870111087010000000100000
22JNHOTMAP0122JNHOTMAP01CDD05122281:06:905122290:72:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0000000                  253LPU  99-224/01:11:20.400  99-224/01:21:10.400
          00000000000000000000000000000000000000000000000000312253000120311DC30119DC3021BDC3021BDC7011BD87011BDC7060BDC7021BD
87021BD070313D8701139870200000
22INHRSPEC0122INHRSPEC01ADA05122491:00:005122493:90:01         IO       3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         228LPU  99-224/04:43:36.400  99-224/04:46:38.400
          00000000000000000000000000000000000000000000000000326228001260 11A100011BDFF011A100011BDFF011A100011BDFF011A100011BD
FF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF01000000100000
22NNOPCAL_0222INHRSPEC01ADA05122496:00:005122496:81:01         IO       3414 1 1 0 0 124 1 1 0 0 12401010 0000000000 1 2.00.3000
0065525        2         48LPU  99-224/04:48:40.400  99-224/04:49:33.733
          00000000000000000000000000000000000000000000000000326048001260118000011800001180000118000011800001180000118000011800001180
0001180000118000011800001180000118000011800001180000118000011800001180000118000011800001180000118000011800001180000118000011800001000000100000
22JNHOTMAP0222JNHOTMAP02BDE05122524:06:005122533:72:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         46LPU  99-224/05:17:02.400  99-224/05:26:52.400
          00000000000000000000000000000000000000000000000000326046001260100100010010001001000100100010010001001000100100010010001001
0001001100100110010011001009100100910010091001009100100910010091001009100100810010081001008100100810010081001000100100000010000
22JNHOTMAP0222JNHOTMAP02ADE05122524:06:005122533:72:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         80LPU  99-224/05:17:02.400  99-224/05:26:52.400
          00000000000000000000000000000000000000000000000000326080001260100007010000701000070100007010000701000070100007010000701000
0701000070100007010000701000070100007010000701000070100007010000F010000F010000F010000F010000F010000F010000F01000000100000
22JNHOTMAP0222JNHOTMAP02CDE05122524:06:905122533:72:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0000000                  126LPU  99-224/05:17:02.400  99-224/05:26:52.400
          00000000000000000000000000000000000000000000000000326126000260100107010010701001070100107010010701001070100107010010701001
0701001170100117010011701009170100917010091701009170100917010091F010091F010081F010081F010081F010081F010001F01000000100000
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22JNHOTMAP0322JNHOTMAP03ADG05122612:05:005122621:71:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        253LPU  99-224/06:46:01.066  99-224/06:55:51.066
          000000000000000000000000000000000000000000000000000000003262530012601111DC30111DC30111DC30119DC3011BDC3011BDC3011BDC7011BD
C7011BD87011BDC7010BDC7010BDC7010BDC7010BDC7010BDC7010BDC7011BD87011BD87011BD07011BD070113D870113D870113D8701139870100000010000
22JNWHTOVL0122JNWHTOVL01ADJ05123289:06:005123298:72:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1        132LPU  99-224/18:10:32.400  99-224/18:20:22.400
          000000000000000000000000000000000000000000000000000000003261320012601111D800111D800111D800111D800111D800111D810111D800119D
80011AD80011AD80010AD80010AD80010AD80010AD80010A980010A980010A980010A980010A900010A900010298001029800102980010298001000000100000
22JNWHTOVL0222JNWHTOVL02ADK05123440:87:005123456:11:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        238LPU  99-224/20:44:07.733  99-224/20:59:27.066
          000000000000000000000000000000000000000000000000000000003262380012601111D830111D830111D830119D83011BD83011BD83011BD87011BD
87011BD87011BD87010BD87010BD87010BD87010BD87010BD87010BD87011BD87011BD87011BD07011BD070113D870113D870113D8701139870100000010000
22JNDKSPOT0122JNDKSPOT01ADL05123473:88:005123485:00:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        238LPU  99-224/21:17:30.400  99-224/21:28:39.066
          000000000000000000000000000000000000000000000000000000003262380012601111D830111D830111D830119D83011BD83011BD83011BD87011BD
87011BD87011BD87010BD87010BD87010BD87010BD87010BD87010BD87011BD87011BD87011BD07011BD070113D870113D870113D8701139870100000010000
22NNRCTRLT01LSNNRCTRTA01RXU05152806:00:005152806:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1999-245/11:35:25.3331999-245/11:35:33.333
          000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

22NNRCTRLT01LSNNRCTRTA01SXU05152812:00:005152813:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1999-245/11:41:29.3331999-245/11:42:38.000
          000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

22NNRCTRLT01LSNNRCTRTA01TXU05152818:00:005152818:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1999-245/11:47:33.3331999-245/11:47:41.333
          000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

22NNOPCAL_01LSNNOPCAL_01RDC05152822:00:005152824:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  048RT 1999-245/11:51:36.0001999-245/11:53:45.333
          000000000000000000000000000000000000000000000000000302048000 224180000200000

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Chapter 5 - Detailed Observation Designs

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5.2	NIMS C22 Observations	3-28

Introduction to Chapter 5

Detailed Observation Designs

Each NIMS Detailed Observation Design consists of an OAPEL form and a Pointer plot. The OAPEL form is a brief description of the design of the observation. The Pointer plot is a plot of the target body with the NIMS footprint incorporated in the mosaic design superimposed on the target body. The size and orientation of the target body is plotted as it appears at the time of the first NIMS footprint plotted. For long observations, the target body may rotate or move relative to the spacecraft during the observation. Some observations, such as calibrations, do not have Pointer plots.

The Pointer plots and OAPEL forms in this chapter have been updated to report the actual data returned.

The Pointer plots have the spatial extent of the actual data returned outlined with a thick line. When no data were returned for a particular observation, its Pointer plot has a single slash across the plot with the text "NO DATA RETURNED" printed in the upper left corner of the plot.

The text of the OAPEL forms have been modified to reflect the actual NIMS instrument parameters for playback. An extra line containing one or some of the following statements has been added to the Observation Objective section of the OAPEL form to report the data retun status:

"Data Returned" == Data from this observation returned
"No Data Returned" == NO Data from this observation returned
"Processor Halted" == The NIMS Processor had halted at this time.

More information regarding NIMS data return can be found in Chapter 7 of this guide.

NIMS Real-Time Software Reload — ACTIVITY ID: 22NNJUPRTS01-
START TIME: 99-223/14:45:27.733

Activity ID: Orbit 22 Target N Inst N OAPEL JUPRTS SeqNo 01 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	08/11/99	Week 32
Start	JEE-CDS 00001200:00:0	99-223/14:45:27.733		JEE-000/20:13:20.000	
End	JEE-CDS 00001197:00:0	99-223/14:48:29.733		JEE-000/20:10:18.000	
Duration	00000003:00:0	000/00:03:02.000		000/00:03:02.000	

Top Label 22NNJUPRTS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

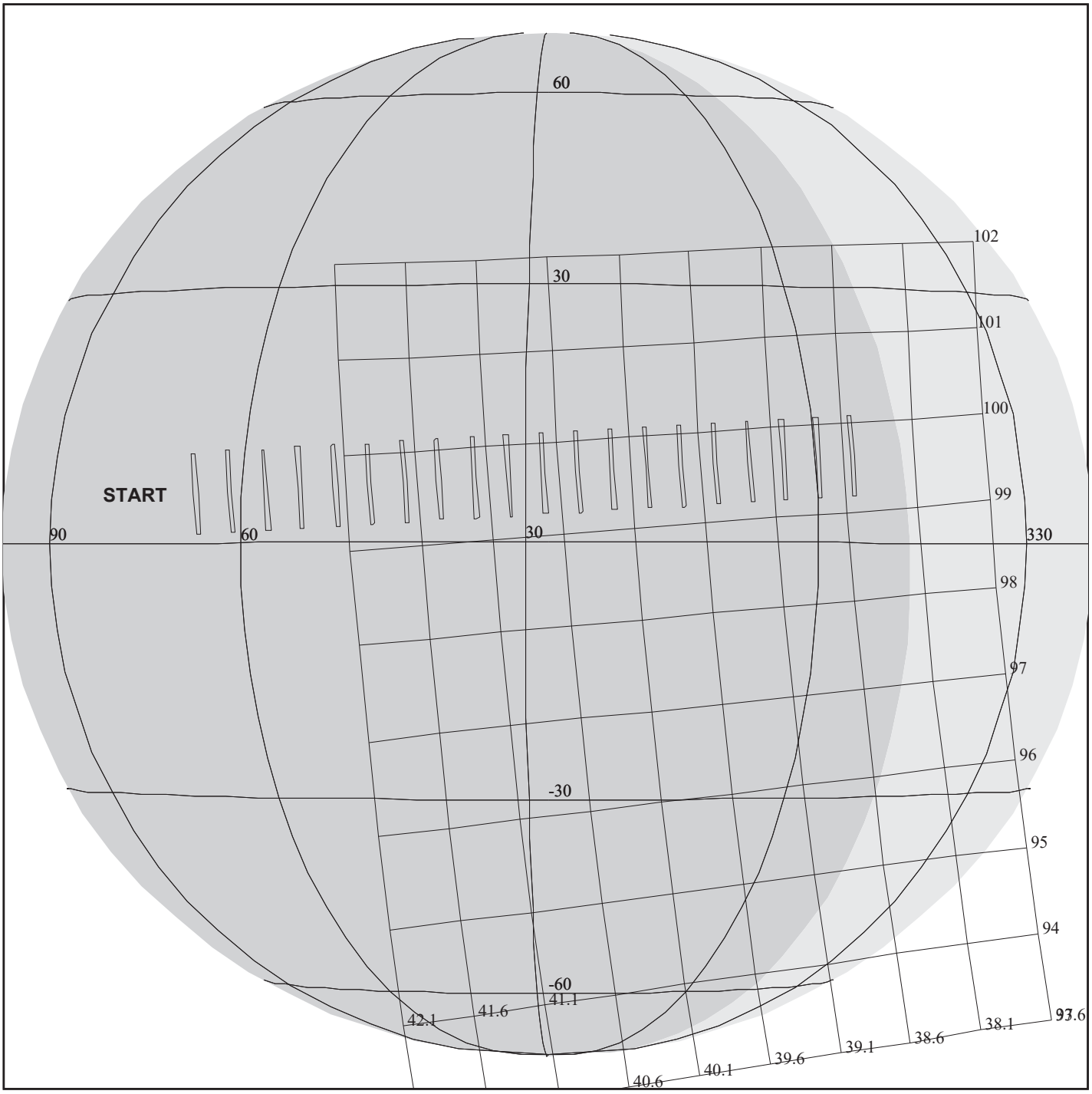
NIMS reload
Each NIMS GEM observation will have an instrument reload before the start of each observation. Each reload has its own OAPEL form, but only this first is included in the NIMSGUIDE. The NIMS C22 reload OAPELS are:

22NNJUPRTS01, 22NNJUPRTS02, 22NNHOTMAP01, 22NNHRSPEC01, 22NNHOTMAP02, 22NNHOTMAP03, 22NNWHTOVL01, 22NNBELUSL01, 22NNGLOBAL01, 22NNWHTOVL02, 22NNDKSPOT01, 22NNRELOAD01

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

37PL - Halt NIMS Processor
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference.



165DB:TT= 0 TMC= 1 C= 25.00 XC= 0.00 BS= 0/2827 TC= 1(7 43)
A= 728 pD= 0 SR=17.450 RA50=254.68 DEC50=-24.33 cone= 43.21 clock= 99.71
117DB:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/2827
1:#s= 1 Cs= -72.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3640 rD= 40

22JNJUPRTS01

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22JNJUPRTS01

CENTRAL BODY:JUPITER III

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:JEE 99-224/10:58:47.733 -CDS 1192:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:22JNJUPRTS01 **DESCRIP:Jupiter_Realtime_Observation**

Jupiter Realtime Observation

ACTIVITY ID: 22JNJUPRTS01-
START TIME: 99-223/14:49:30.400

Activity ID: Orbit 22 Target J Inst N OAPEL JUPRTS SeqNo 01 -

Title	Jupiter Realtime Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	08/11/99 Week 32
Start	JEE-CDS 00001196:00:0	99-223/14:49:30.400		JEE-000/20:09:17.333	
End	JEE-CDS 00001170:00:0	99-223/15:15:47.733		JEE-000/19:43:00.000	
Duration	00000026:00:0	000/00:26:17.333		000/00:26:17.333	

Top Label	22JNJUPRTS01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

FREE_RTS=0.32 Mbits

Search for Jupiter atmospheric composition and thermal variations over time.

Data Returned

Design Detail

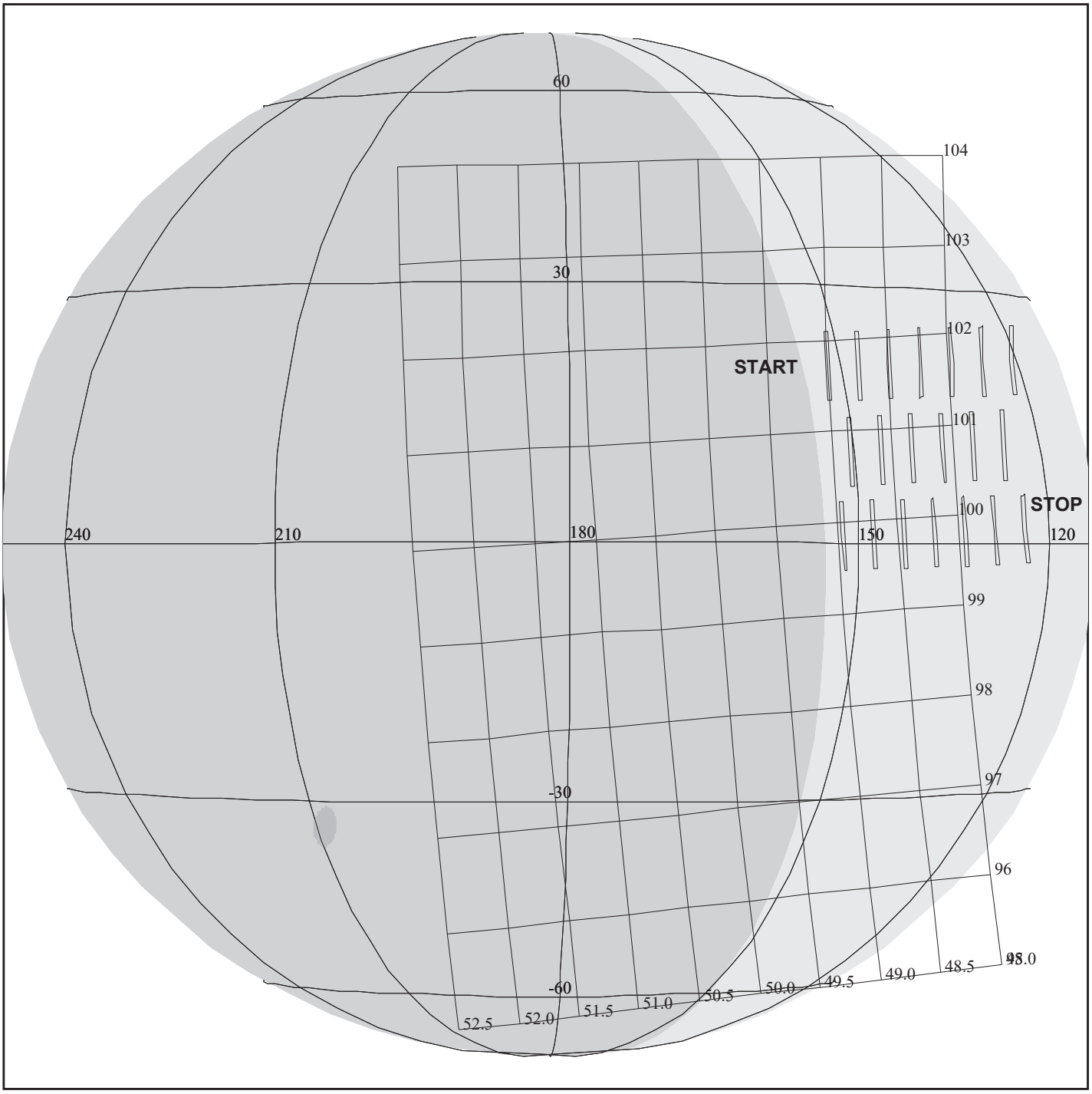
Long Map.
One scan, 20 Rims long across the equator.
Nyquist sampling not necessary.
Longitude - not dependent. No overlap in FOV.

20 Rim scan across the nightside North Equatorial Belt.
Near 7 degrees North latitude, 350 to 70 degrees West longitude.

Booms

Long Map (LM), Gain 4, Grating Start 0, R/T, C22JLM408

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95



165DC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1967 TC= 1(20 152)
A= 728 pD= 0 SR=17.450 RA50=261.24 DEC50=-23.68 cone= 49.06 clock=101.71
117DC:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/1967
1:#s= 3 Cs= -22.90 XCs= 0.00 Cr= 28.00 XCr= -12.00 sD= 1152 rD= 24

22JNJUPRTS02

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22JNJUPRTS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS:

THINNING:NIM 7

START:JEE 99-224/10:58:47.733 -CDS 922:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000

OBSERVATION:22JNJUPRTS02

DESCRIP:Jupiter_Realtime_Observation

Jupiter Realtime Observation

ACTIVITY ID: 22JNJUPRTS02-
START TIME: 99-223/19:19:28.400

Activity ID: Orbit 22 Target J Inst N OAPEL JUPRTS SeqNo 02 -

Title	Jupiter Realtime Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	08/11/99 Week 32
Start	JEE-CDS 00000929:00:0	99-223/19:19:28.400		JEE-000/15:39:19.333	
End	JEE-CDS 00000903:00:0	99-223/19:45:45.733		JEE-000/15:13:02.000	
Duration	00000026:00:0	000/00:26:17.333		000/00:26:17.333	

Top Label 22JNJUPRTS02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

FREE_RTS=0.32 Mbits

Search for Jupiter atmospheric composition and thermal variations over time.

Data Returned

Design Detail

Long Map. Three scans, each 7 Rims long.
Target to 20 degrees North latitude for first scan.
No scan overlap: Nyquist sampling not necesary - lit surface only.
Not longitude not dependent. No overlap in FOV.

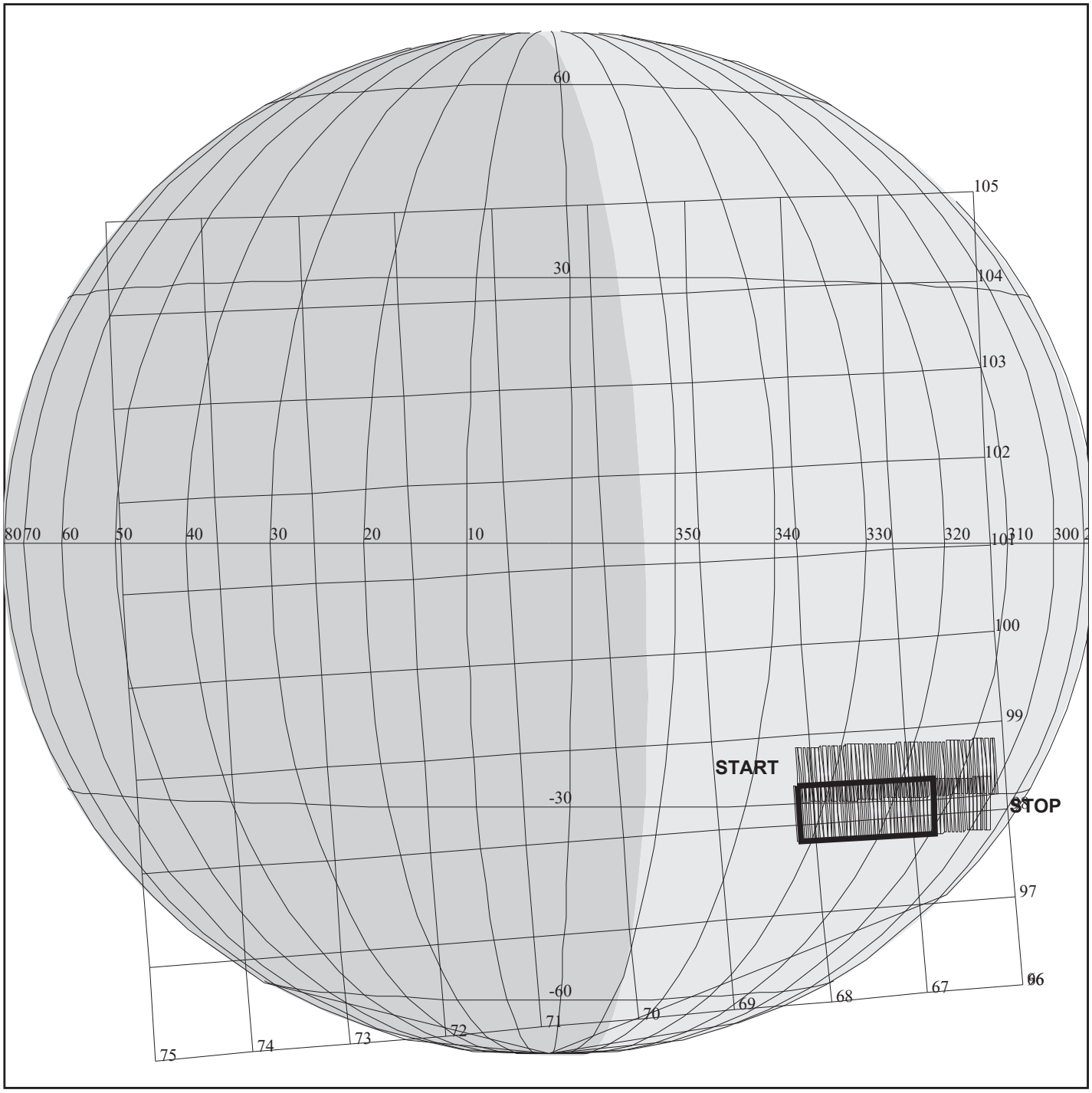
First scan: 20 degrees N latitude, 150 to 125 W. longitude
Second scan: 10 degrees N latitude, 155 to 135 W. longitude
Third scan: 0 degrees N latitude, 160 to 135 W. longitude

Daylit, high phase angle of 120 degrees.

Booms

Long Map (LM), Gain 2, Grating Start 0, R/T, C22JLM408

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95



165DD:TT= 0 TMC= 1 C= 17.00 XC= 6.00 BS= 0/1299 TC= 1(-30 320)
A= 728 pD= 0 SR=17.450 RA50=282.26 DEC50=-27.07 cone= 68.15 clock= 98.55
117DD:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/1299
1:#s= 2 Cs= -17.30 XCs= 0.00 Cr= 38.00 XCr= -6.00 sD= 2616 rD= 40

22JNHOTMAP01

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22JNHOTMAP01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 99-224/10:58:47.733 -CDS 596:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000

OBSERVATION:22JNHOTMAP01

DESCRIP:Jupiter_Hot_Map

NIMS Jupiter HotMap

ACTIVITY ID: 22JNHOTMAP01-
START TIME: 99-224/00:52:07.733

Activity ID: Orbit 22 Target J Inst N OAPEL HOTMAP SeqNo 01 -

Title	NIMS Jupiter Hotmap			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date 08/12/99 Week 32
Start	JEE-CDS 00000600:00:0	99-224/00:52:07.733	JEE-000/10:06:40.000
End	JEE-CDS 00000567:00:0	99-224/01:25:29.733	JEE-000/09:33:18.000
Duration	00000033:00:0	000/00:33:22.000	000/00:33:22.000

Top Label 22JNHOTMAP01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Long Map mapping of hotspot region at high spatial resolution.
Observation uses special wavelength table JSB253C.

This observation was converted to a White Oval region observation
near 30 degrees South latitude.

Data Returned

Design Detail

Observation converted to a White Oval region observation.

Two scans, each 14.5 Rims long.
First scan: 22 to 30 deg S. lat, 334 to 312 deg W. long.
Second scan: 27 to 35 deg S. lat, 342 to 317 deg W. long.

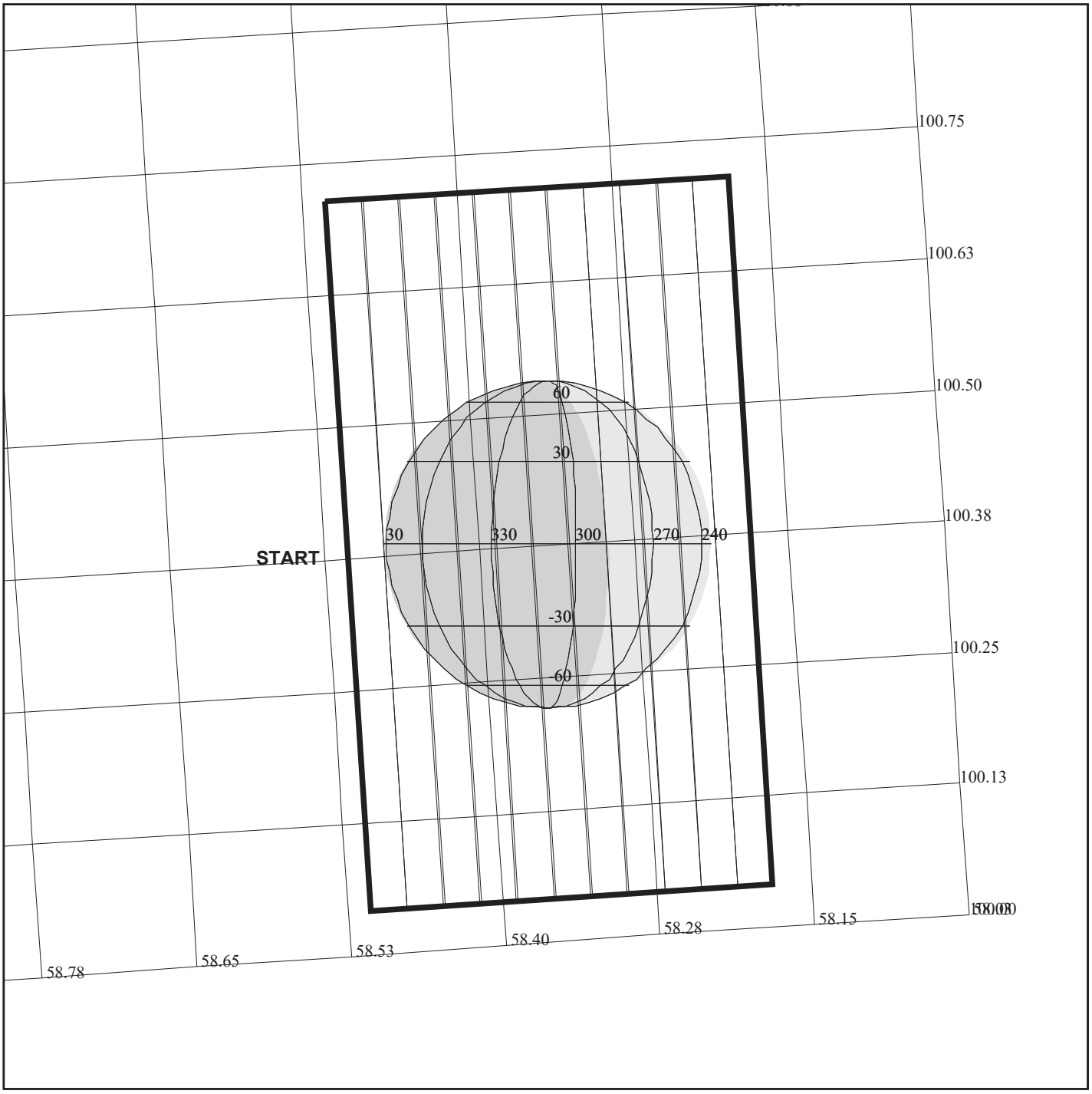
Phase angle near 100 degrees.

Only second scan recorded.

Booms

Long Map (LM), Gain 2, Grating Start 0, LPU, C22JSB253C, C22JSB76C
Long Map (LM), Gain 2, Grating Start 0, LPU, C22JSB253C, C22JSB177C

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95



165DA:TT= 0 TMC= 1 C= 2.70 XC= 0.00 BS= 0/2249 TC= 3
A= 728 pD= 536 SR= 8.000 RA50=271.51 DEC50=-25.40 cone= 58.50 clock=100.38
117DA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2249
1:#s= 1 Cs= -5.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 536 rD= 40

22INHRSPEC01

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22INHRSPEC01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 99-223/14:42:25.800 +CDS 832:00:0

BODY PLOT TIME:TARGET-TIME D= 536 S= 0.300

OBSERVATION:22INHRSPEC01

DESCRIP:Europa_Global_Observation

Io monitoring

ACTIVITY ID: 22INHRSPEC01-
START TIME: 99-224/04:37:36.466

Activity ID: Orbit 22 Target I Inst N OAPEL HRSPEC SeqNo 01 -

Title	NIMS Jupiter Hotmap			Instrument	NIMS
Requestor	NIMS-AWG/MSEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	08/12/99 Week 32
Start	IEE+CDS 00000826:00:0	99-224/04:37:36.466		IEE+000/13:55:10.666	
End	IEE+CDS 00000838:00:0	99-224/04:49:44.466		IEE+000/14:07:18.666	
Duration	00000012:00:0	000/00:12:08.000		000/00:12:08.000	

Top Label	22INHRSPEC01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Io monitoring.

Final observation of Io before I24.

Data Returned

Design Detail

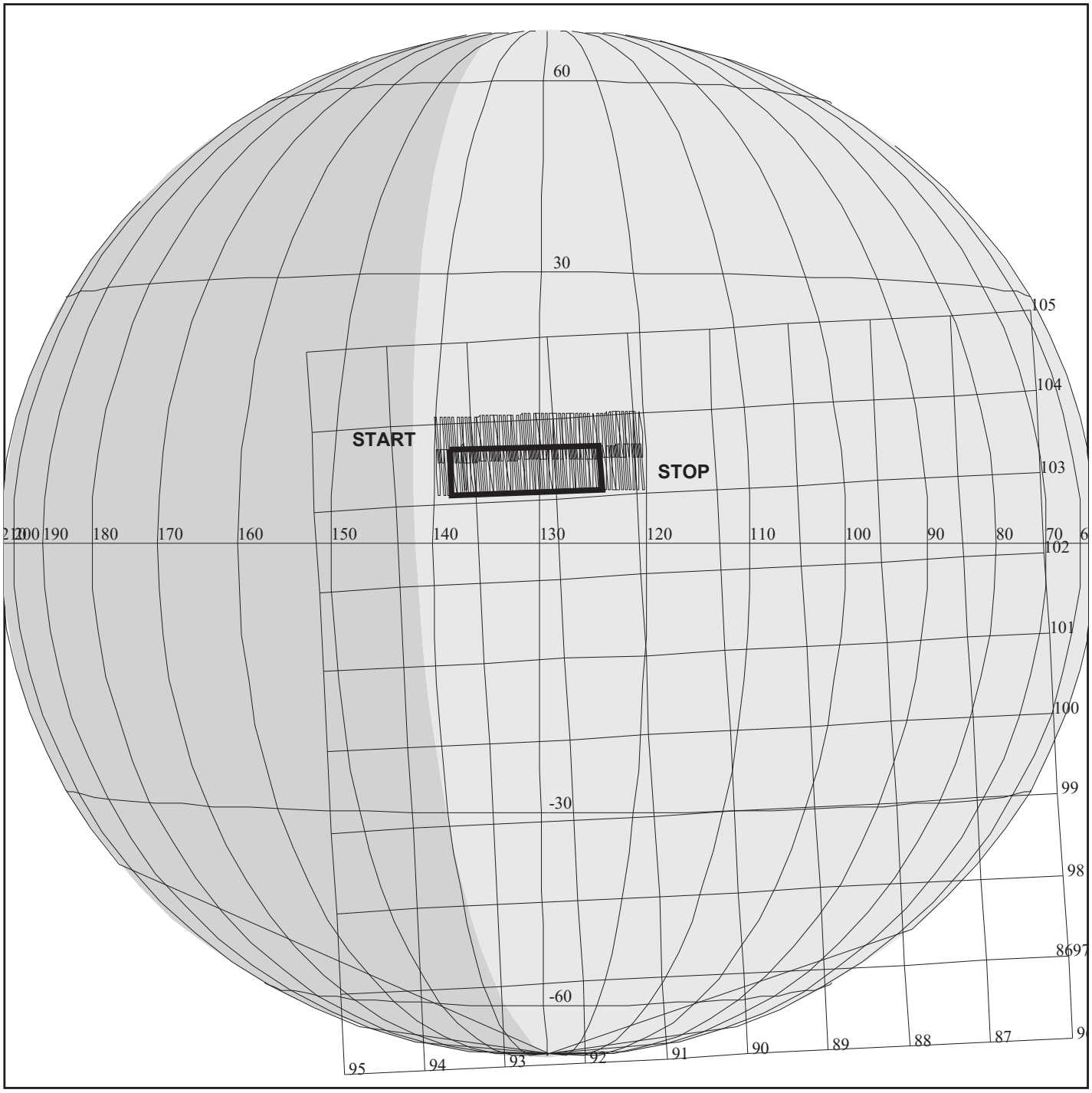
Long map, Nyquist sampling, 0.03 mrad scan rate.
Single scan across the 1/3 lit disk.

Low resolution: Io about 10 nimsels across.
Longitude 220 to 40 degrees West.

Booms

Long Map (LM), Gain 4, Grating Start 0, LPU, C22ILMDK243D, C22ILMDK228D

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95



165DE:TT= 0 TMC= 1 C= 0.00 XC= 8.00 BS= 0/5525 TC= 1(7 139.5)
A= 728 pD= 5268 SR= 8.000 RA50=308.72 DEC50=-18.44 cone= 93.44 clock=103.81
117DE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5525
1:#s= 2 Cs= -25.40 XCs= 0.00 Cr= 46.00 XCr= -6.00 sD= 2548 rD= 40

22JNHOTMAP02

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22JNHOTMAP02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 99-224/10:58:47.733 -CDS 353:00:0

BODY PLOT TIME:TARGET-TIME D= 5268 S= 1.000

OBSERVATION:22JNHOTMAP02

DESCRIP:Jupiter_Hot_Map

NIMS Jupiter HotMap

ACTIVITY ID: 22JNHOTMAP02-
START TIME: 99-224/04:57:49.733

Activity ID: Orbit 22 Target J Inst N OAPEL HOTMAP SeqNo 02 -

Title	NIMS Jupiter Hotmap			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	08/12/99 Week 32
Start	JEE-CDS 00000357:00:0	99-224/04:57:49.733		JEE-000/06:00:58.000	
End	JEE-CDS 00000324:00:0	99-224/05:31:11.733		JEE-000/05:27:36.000	
Duration	00000033:00:0	000/00:33:22.000		000/00:33:22.000	

Top Label	22JNHOTMAP02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Long Map mapping of hotspot region at high spatial resolution.
Observation uses special wavelength table JHT253A.

Data Returned

Design Detail

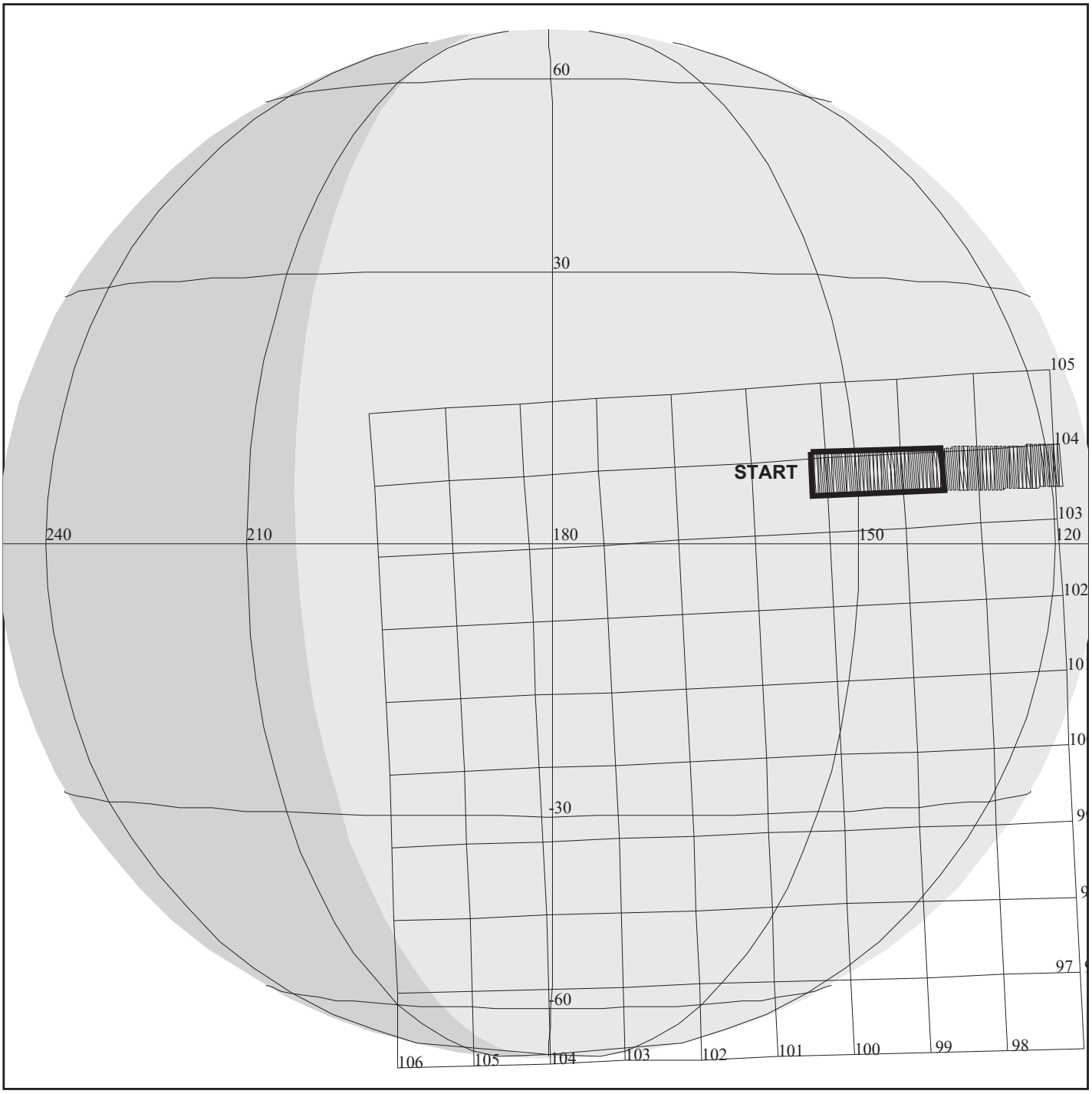
Two scans, each 14 Rims long.
First scan: 7 to 15 deg S. lat, 140 to 128 deg W. long.
Second scan: 4 to 12 deg S. lat, 148 to 138 deg W. long.

Phase angle near 76 degrees.

Only second scan recorded.

Long Map (LM), Gain 4, Grating Start 0, LPU, C22JHT253A, C22JHT46A
Long Map (LM), Gain 4, Grating Start 0, LPU, C22JHT253A, C22JHT80A

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95



165DG:TT= 0 TMC= 1 C= 0.00 XC= 1.00 BS= 0/4271 TC= 1(7 155)
A= 728 pD= 3630 SR= 8.000 RA50=315.60 DEC50=-16.79 cone=100.20 clock=103.80
117DG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4271
1:#s= 1 Cs= -36.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3630 rD= 40

22JNHOTMAP03

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22JNHOTMAP03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 99-224/10:58:47.733 -CDS 250:00:0

BODY PLOT TIME:TARGET-TIME D= 3630 S= 1.000

OBSERVATION:22JNHOTMAP03

DESCRIP:Jupiter_Hot_Map

NIMS Jupiter HotMap

ACTIVITY ID: 22JNHOTMAP03-
START TIME: 99-224/06:41:58.400

Activity ID: Orbit 22 Target J Inst N OAPEL HOTMAP SeqNo 03 -

Title	NIMS Jupiter Hotmap			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	08/12/99 Week 32
Start	JEE-CDS 00000254:00:0	99-224/06:41:58.400		JEE-000/04:16:49.333	
End	JEE-CDS 00000230:00:0	99-224/07:06:14.400		JEE-000/03:52:33.333	
Duration	00000024:00:0	000/00:24:16.000		000/00:24:16.000	

Top Label 22JNHOTMAP03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Long Map mapping of hotspot region at high spatial resolution.
Observation uses special wavelength table JSB253C.

Data Returned

Design Detail

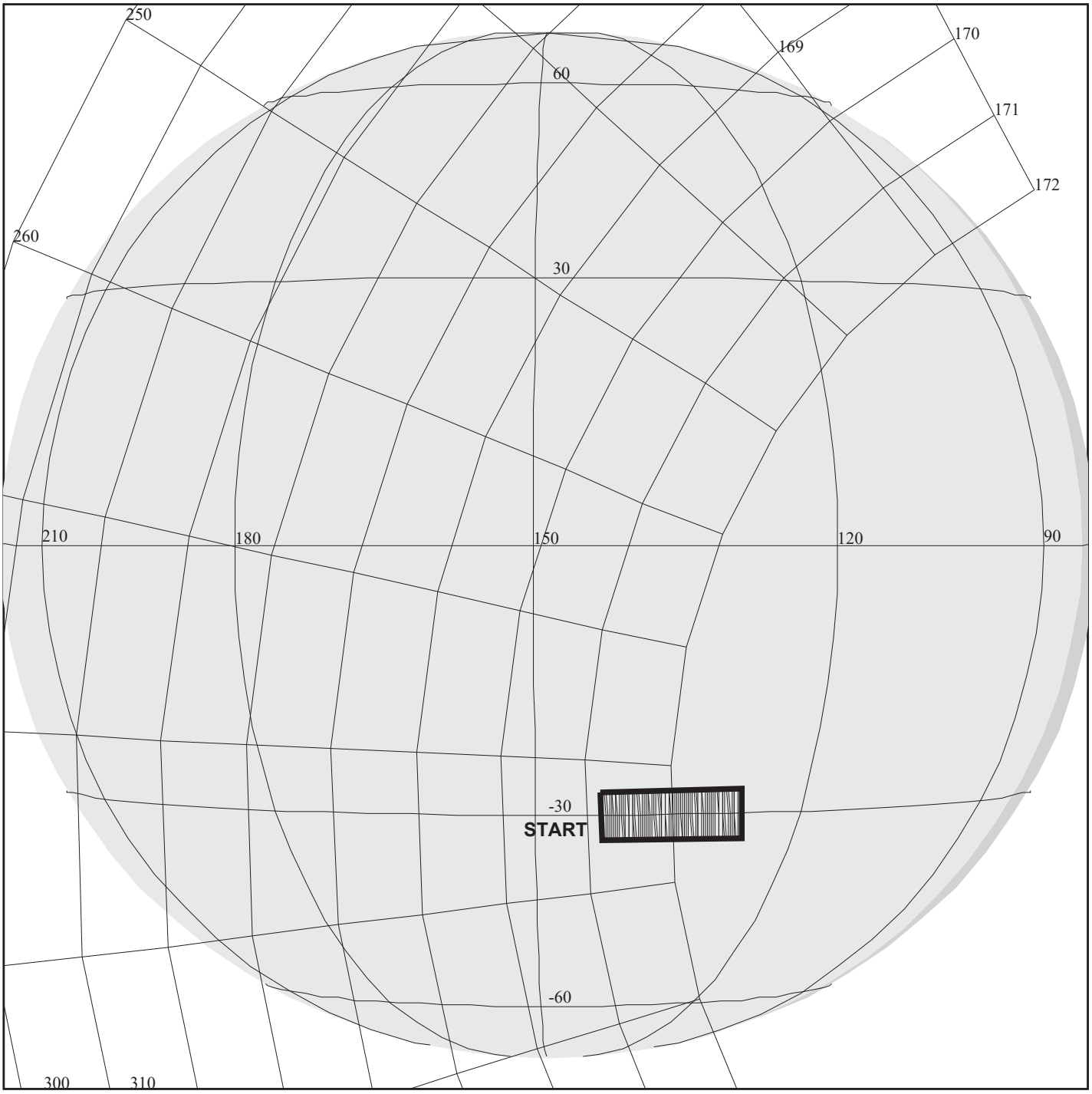
One scan, 21 Rims long.
Single scan: 4 to 12 deg S. lat, 155 to 129 deg W. long.

Phase angle near 76 degrees.

Only first 10 Rims recorded (155 to 146 W. longitude).

Long Map (LM), Gain 2, Grating Start 0, LPU, C22JSB253C, C22JSB253C

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95



165DJ:TT= 0 TMC= 1 C= -13.00 XC= 0.00 BS= 0/7485 TC= 1(-30 136)
A= 728 pD= 1810 SR=17.000 RA50= 39.76 DEC50= 14.03 cone=171.19 clock=284.20
117DJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7485
1:#s= 1 Cs= 18.00 XCs= 0.00 Cr= 29.50 XCr= -6.00 sD= 1810 rD= 40

22JNWHTOVL01

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22JNWHTOVL01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 99-224/10:58:47.733 +CDS 427:00:0 **BODY PLOT TIME:TARGET-TIME D= 1810 S= 1.000**

OBSERVATION:22JNWHTOVL01 **DESCRIP:JUPITER_WHITE_OVAL**

Jupiter White Oval

ACTIVITY ID: 22JNWHTOVL01-
START TIME: 99-224/18:08:31.066

Activity ID: Orbit 22 Target J Inst N OAPEL WHTOVL SeqNo 01 -

Title	NIMS Jupiter Hotmap			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	08/12/99 Week 32
Start	JEE+CDS 00000425:00:0	99-224/18:08:31.066		JEE+000/07:09:43.333	
End	JEE+CDS 00000437:00:0	99-224/18:20:39.066		JEE+000/07:21:51.333	
Duration	00000012:00:0	000/00:12:08.000		000/00:12:08.000	

Top Label	22JNWHTOVL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Long Map mapping of white oval region at high spatial resolution.
Observation uses special wavelength table JSB253C.

Data Returned

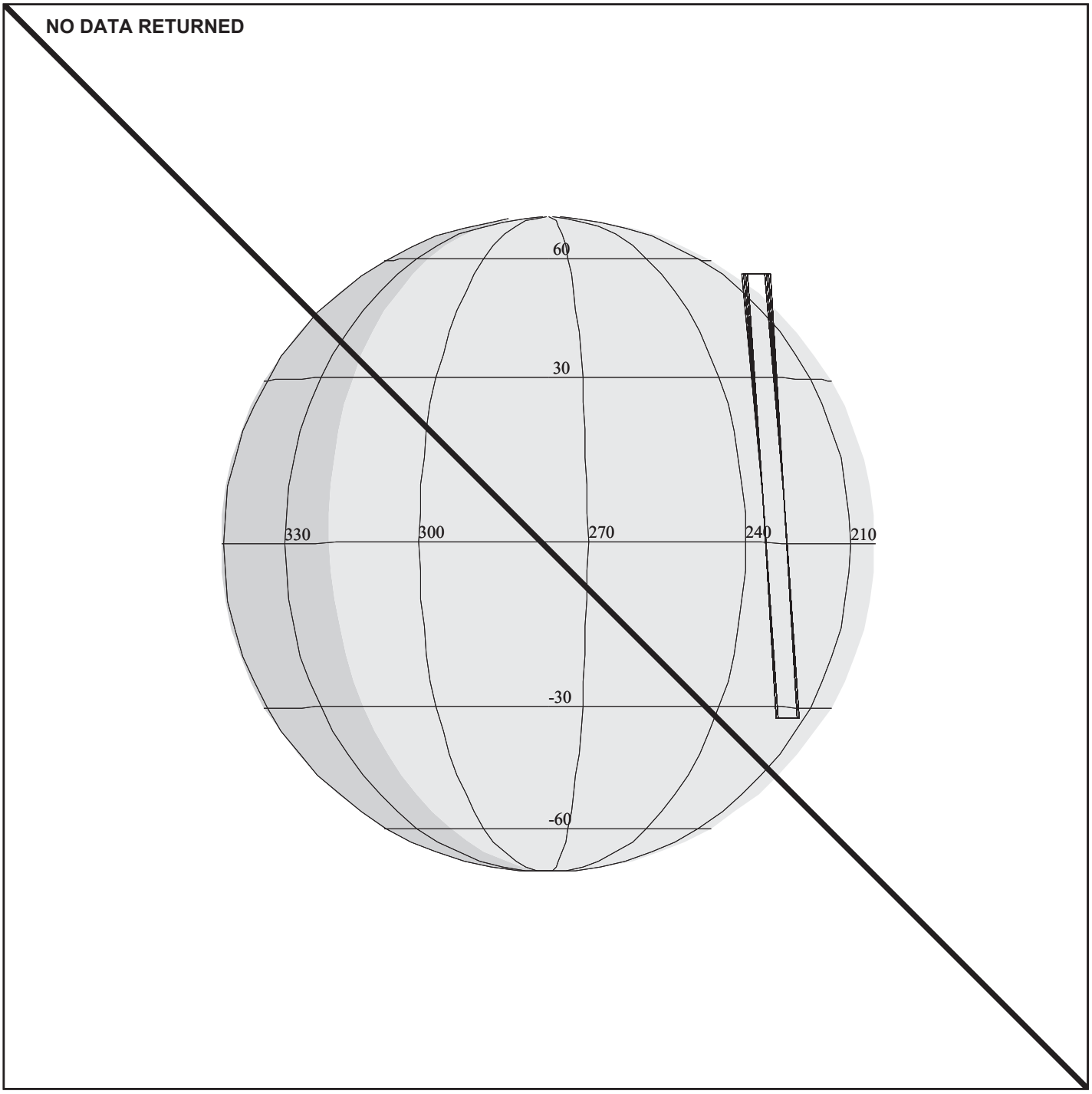
Design Detail

One scan, 10 Rims long.
Single scan: 26 to 34 deg S. latitude, 143 to 133 W. longitude

Phase angle near 19 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, C22JSB253C, C22JSB132C

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95



165DH:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/5685 TC= 1(8 233)
A= 728 pD= 1810 SR= 8.000 RA50=335.76 DEC50= -9.44 cone=121.13 clock=104.98

22ENBELUSL01

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22ENBELUSL01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 99-224/19:51:39.066 +CDS 00:00:0 **BODY PLOT TIME:TARGET-TIME D= 1810 S= 0.600**

OBSERVATION:22ENBELUSL01 **DESCRIP:EUROPA_BELUS_DARK_MATERIALS**

Europa Belus Linea Dark Materials Obs ACTIVITY ID: 22ENBELUSL01-
START TIME: 99-224/19:47:36.400

Activity ID: Orbit 22 Target E Inst N OAPEL BELUSL SeqNo 01 -

Title	Europa Belus Linea Dark Materials Obs	Instrument	NIMS
Requestor	NIMS-SWG/J. SHIRLEY	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 08/12/99 Week 32
Start	EEE-CDS 00000004:00:0	99-224/19:47:36.400	EEE-000/00:04:02.666
End	EEE+CDS 00000010:00:0	99-224/20:01:45.732	EEE+000/00:10:06.666
Duration	00000014:00:0	000/00:14:09.332	000/00:14:09.332

Top Label 22ENBELUSL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To obtain high resolution spectra for a region with concentrated dark surface material.

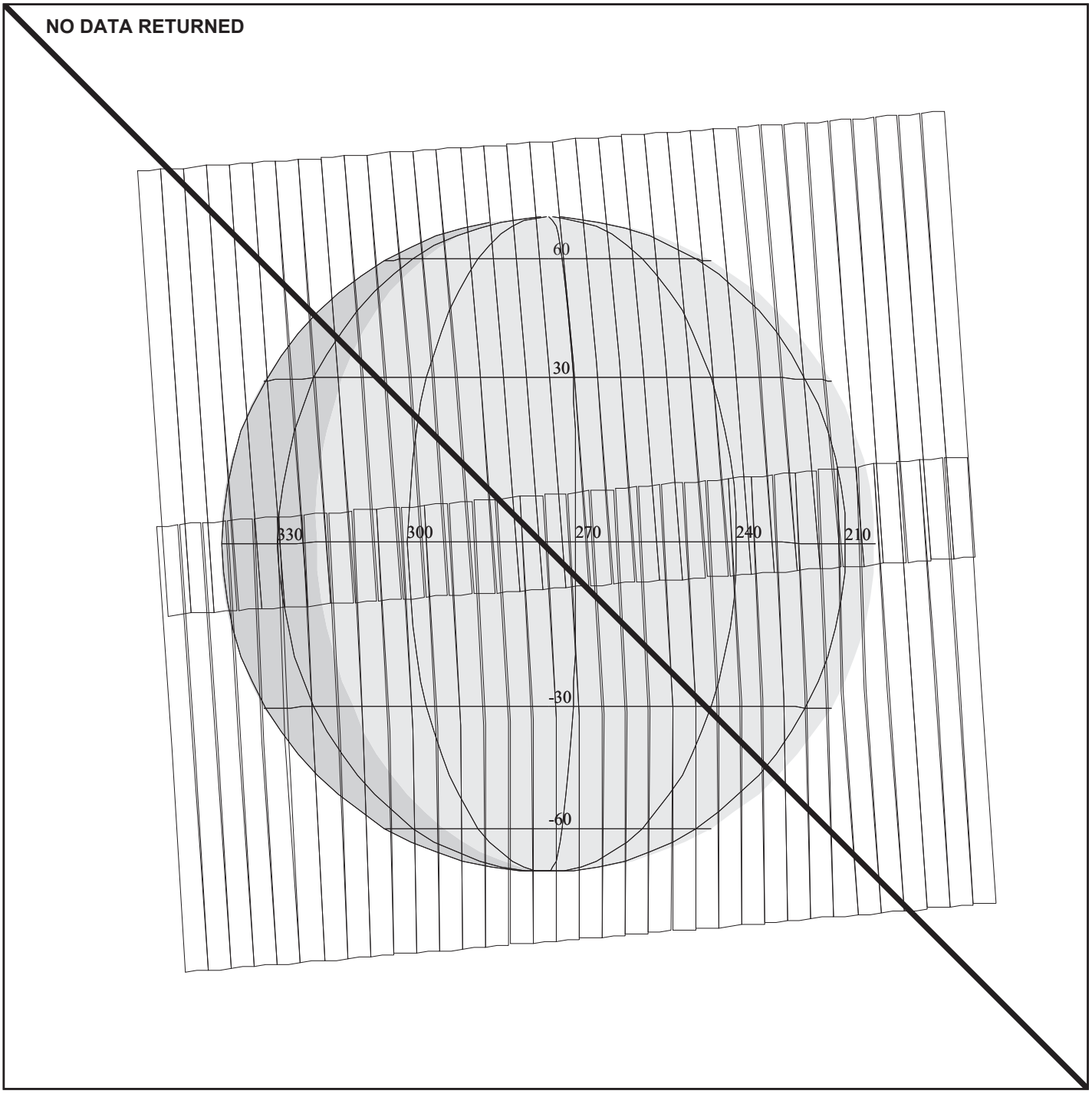
No Data Returned, CDS, DMS errors

Design Detail

Long Spectrometer mode, MPW record format.
Sit and stare at longitude 230 deg. West, latitude 8 deg North.
Resolution ~110 Km/nimsel

Long Spectrometer (LS), Gain 3, Grating Start 0, MPW, C22ELS442

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95



165DI:TT= 0 TMC= 1 C= 8.50 XC= 4.00 BS= 0/8233 TC= 3
A= 728 pD= 3640 SR= 8.000 RA50=339.25 DEC50= -7.78 cone=124.93 clock=105.47
117DI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8233
1:#s= 2 Cs= -17.80 XCs= 0.00 Cr= 17.80 XCr= -8.00 sD= 1794 rD= 40

22ENGLOBAL01

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22ENGLOBAL01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 99-224/19:51:39.066 +CDS 14:00:0

BODY PLOT TIME:TARGET-TIME D= 3640 S= 0.600

OBSERVATION:22ENGLOBAL01

DESCRIP:Europa_Global_Observation

Europa Global

ACTIVITY ID: 22ENGLOBAL01-
START TIME: 99-224/20:04:47.732

Activity ID: Orbit 22 Target E Inst N OAPEL GLOBAL SeqNo 01 -

Title	Europa Global			Instrument	NIMS
Requestor	NIMS-SWG/J. SHIRLEY	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	08/12/99 Week 32
Start	EEE+CDS 00000013:00:0	99-224/20:04:47.732		EEE+000/00:13:08.666	
End	EEE+CDS 00000034:00:0	99-224/20:26:01.732		EEE+000/00:13422.666	
Duration	00000021:00:0	000/00:21:14.000		000/00:21:14.000	

Top Label	22ENGLOBAL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Europa global observation covering the trailing hemisphere.

No Data Returned, CDS, DMS errors

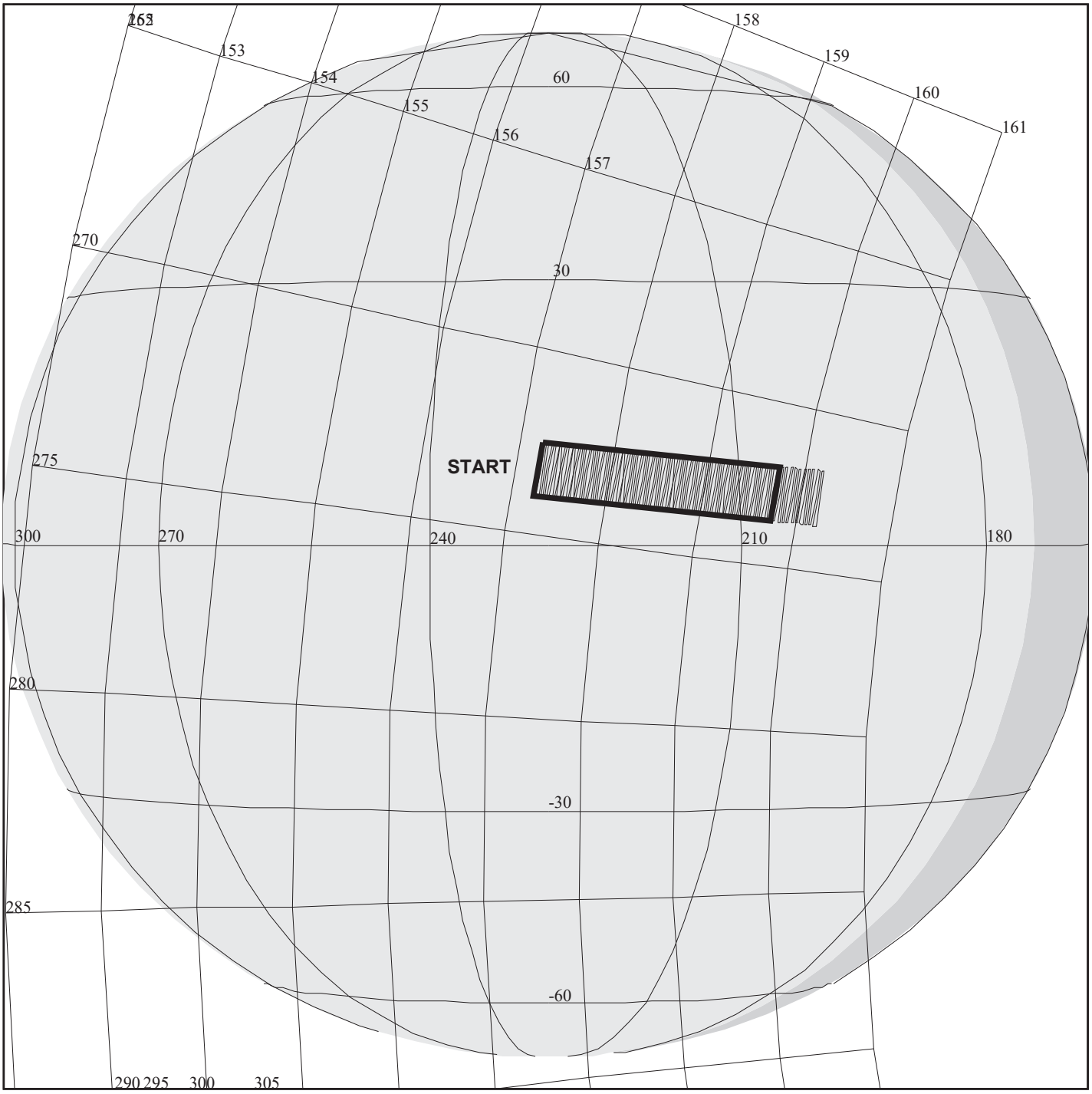
Design Detail

Long Map mode, LPU record format.
Gain states 3 and 2.

Two scan across the disk, overlapping near the equator.
Higher sun angle segment in gain state 3,
lower sun angle segment in gain state 2

Long Map (LM), Gain 2,3, Grating Start 0, LPU, C22ELM253C

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95



165DK:TT= 0 TMC= 1 C= -26.00 XC= 2.00 BS= 0/5149 TC= 1(7 216)
A= 728 pD= 3266 SR=17.450 RA50= 52.28 DEC50= 21.77 cone=157.25 clock=273.22
117DK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5149
1:#s= 1 Cs= 32.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3266 rD= 40

22JNWHTOVL02

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22JNWHTOVL02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 99-224/10:58:47.733 +CDS 579:00:0

BODY PLOT TIME:TARGET-TIME D= 3266 S= 1.000

OBSERVATION:22JNWHTOVL02

DESCRIP:JUPITER_WHITE_OVAL

Jupiter White Oval

ACTIVITY ID: 22JNWHTOVL02-
START TIME: 99-224/20:40:11.066

Activity ID: Orbit 22 Target J Inst N OAPEL WHTOVL SeqNo 02 -

Title	NIMS Jupiter Hotmap			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	08/12/99 Week 32
Start	JEE+CDS 00000575:00:0	99-224/20:40:11.066		JEE+000/09:41:23.333	
End	JEE+CDS 00000589:00:0	99-224/20:54:20.399		JEE+000/09:55:32.666	
Duration	00000014:00:0	000/00:14:09.333		000/00:14:09.333	

Top Label 22JNWHTOVL02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation converted to a hotspot observation.

Long Map mapping of hotspot region at high spatial resolution.
Observation uses special wavelength table JSB253C.

Data Returned

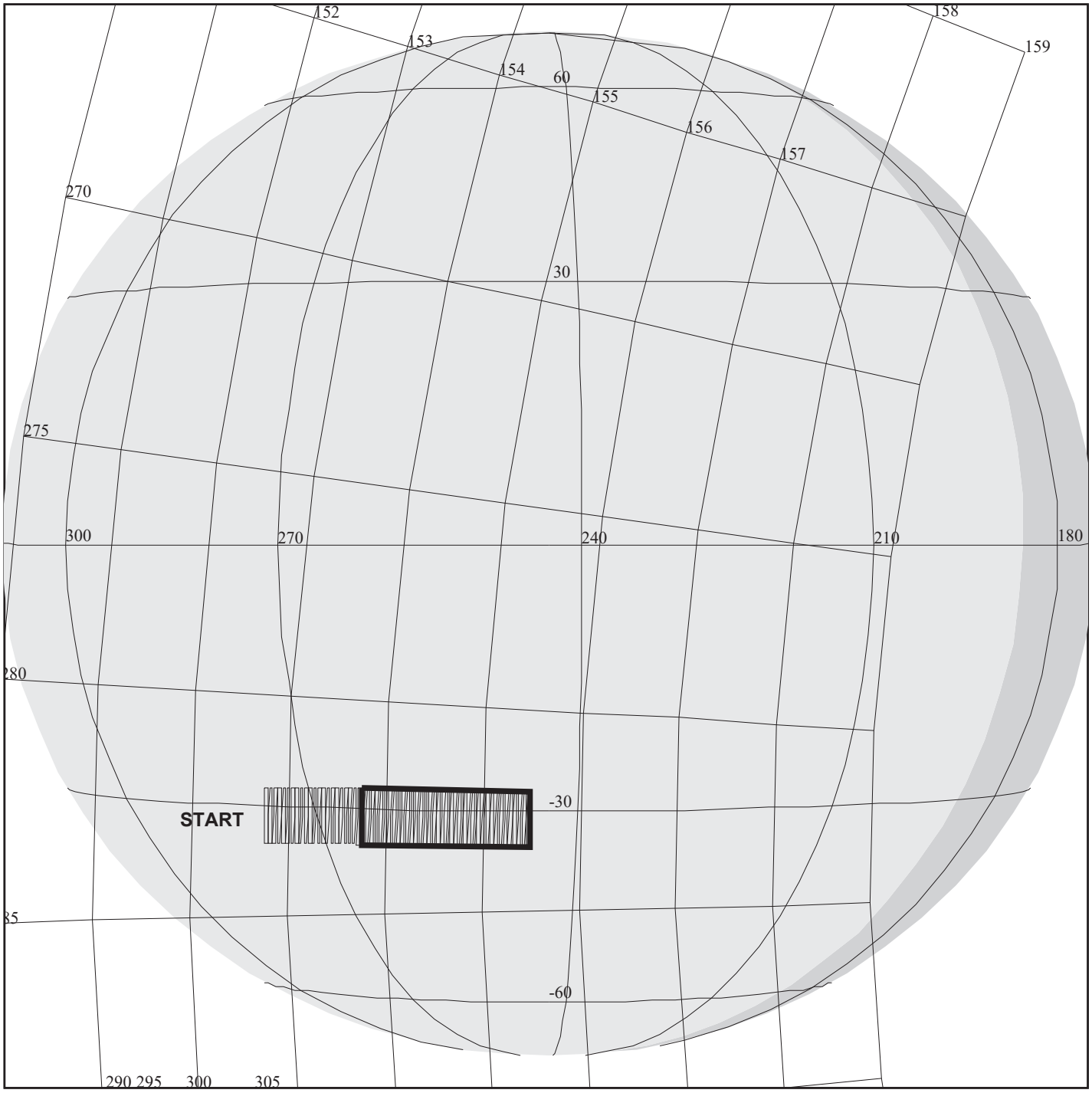
Design Detail

One scan, 19 Rims long.
Single scan: 4 to 12 deg N. latitude, 230 to 212 W. longitude

Phase angle near 32 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, C22JSB253C, C22JSB238C

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95



165DL:TT= 0 TMC= 1 C= -24.00 XC= 0.00 BS= 0/0063 TC= 1(-31 260)
A= 728 pD= 3084 SR=17.450 RA50= 58.18 DEC50= 19.40 cone=152.77 clock=282.72
117DL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0063
1:#s= 1 Cs= 30.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3084 rD= 40

22JNDKSPOT01

TARGET G3.1 lisac: 7/22/1999 15:30:31

FILE:P.22JNDKSPOT01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/990706-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 99-224/10:58:47.733 +CDS 606:00:0

BODY PLOT TIME:TARGET-TIME D= 3084 S= 1.000

OBSERVATION:22JNDKSPOT01

DESCRIP:JUPITER_DARK_SPOT

Jupiter Dark Spot

ACTIVITY ID: 22JNDKSPOT01-
START TIME: 99-224/21:09:30.399

Activity ID: Orbit 22 Target J Inst N OAPEL DKSPOT SeqNo 01 -

Title	NIMS Jupiter Hotmap			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	08/12/99 Week 32
Start	JEE+CDS 00000604:00:0	99-224/21:09:30.399		JEE+000/10:10:42.666	
End	JEE+CDS 00000616:00:0	99-224/21:21:38.399		JEE+000/10:22:50.666	
Duration	00000012:00:0	000/00:12:08.000		000/00:12:08.000	

Top Label 22JNDKSPOT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Long Map mapping of dark spot region at high spatial resolution.
Observation uses special wavelength table JSB253C.

Data Returned

Design Detail

One scan, 17 Rims long.
Single scan: 36 to 26 deg S. latitude, 276 to 256 W. longitude

Phase angle near 37 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, C22JSB253C. C22JSB238C

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95

Chopper Off	ACTIVITY ID: 22NNCHOPOF01- START TIME: 99-225/15:05:19.733

Activity ID: Orbit 22 Target N Inst N OAPEL CHOPOF SeqNo 01 -

Title	Chopper Off			Instrument	NIMS
Requestor	NIMS-SWG/MSEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	08/13/99 Week 32
Start	JEE+CDS 00001668:00:0	99-225/15:05:19.733		JEE+001/04:06:32.666	
End	JEE+CDS 00001678:00:0	99-225/15:15:26.399		JEE+001/04:16:38.666	
Duration	00000010:00:0	000/00:10:06.666		000/00:10:06.666	

Top Label	22NNCHOPOF01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

NIMS Chopper Off.

Design Detail

NIMS GRating Step Test

ACTIVITY ID: 22NNDETECT01-
START TIME: 99-244/06:49:31.400

Activity ID: Orbit 22 Target N Inst N OAPEL DETECT SeqNo 01 -

Title	Chopper Off			Instrument	NIMS
Requestor	NIMS-SWG/MSEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/01/99 Week 35
Start	GST-CDS 00000010:00:0	99-244/06:49:31.400		GST-000/00:10:06.666	
End	GST+CDS 00000175:00:0	99-244/09:56:34.732		GST+000/02:56:56.666	
Duration	00000185:00:0	000/03:07:03.332		000/03:07:03.332	

Top Label	22NNDETECT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

NIMS Grating Step Test.

Copy segments of NIMS RAM memory where grating position is stored to CDS memory.

Design Detail

1) Power cycle NIMS to Phase 0 (ROM) code
2) Short Map mode
3) Use 6MCOPY to move NIMS locations 150F thru 1517 to CDS
4) Long Map mode
5) Use 6MCOPY to move NIMS locations 150F thru 1517 to CDS
6) Load NIMS Phase 2 software from CDS
7) Repeat steps 2 thru 5

Galileo Activity Plan Form 01/31/00 14:29:49 rev 6/95

NIMS RCT Real Time Calibration — ACTIVITY ID: 22NNRCTRLT01-
START TIME: 99-244/23:00:11.111

Activity ID: Orbit 22 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	NIMS RCT Real Time Calibration			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/01/99 Week 35
Start	RTA+CDS 00000000:00:0	99-244/23:00:11.111		RTA+000/00:00:00.000	
End	RTA+CDS 00000787:00:0	99-245/12:15:55.777		RTA+000/13:15:44.666	
Duration	00000787:00:0	000/13:15:44.666		000/13:15:44.666	

Top Label	22NNRCTRLT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	450	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real-time Telemetry

The NIMS OPCAL has been included in the RCT calibration for GEM.
Perform NIMS Optical Calibration to calibrate the NIMS grating.

This is a GEM Library Sequence
The Dark cone angle must be selected using Pointer.

Design Detail

1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference, Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone = 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone = 153.0)
9) Long Map, gain state 4, ETB=OPCAL48.
10) Use 37IST to turn on OPCAL Lamp (two times).
11) Select NIMS Real Time 1 Rim OPCAL, 1 Rim Dark, 1 Rim OPCAL
12) Set NIMS to Safe Mode and turn off Chopper.
13) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, RCT252
Long Map (LM), Gain 4, Grating Start 0, R/T, OPCAL48

Chapter 6 - Edit Tables

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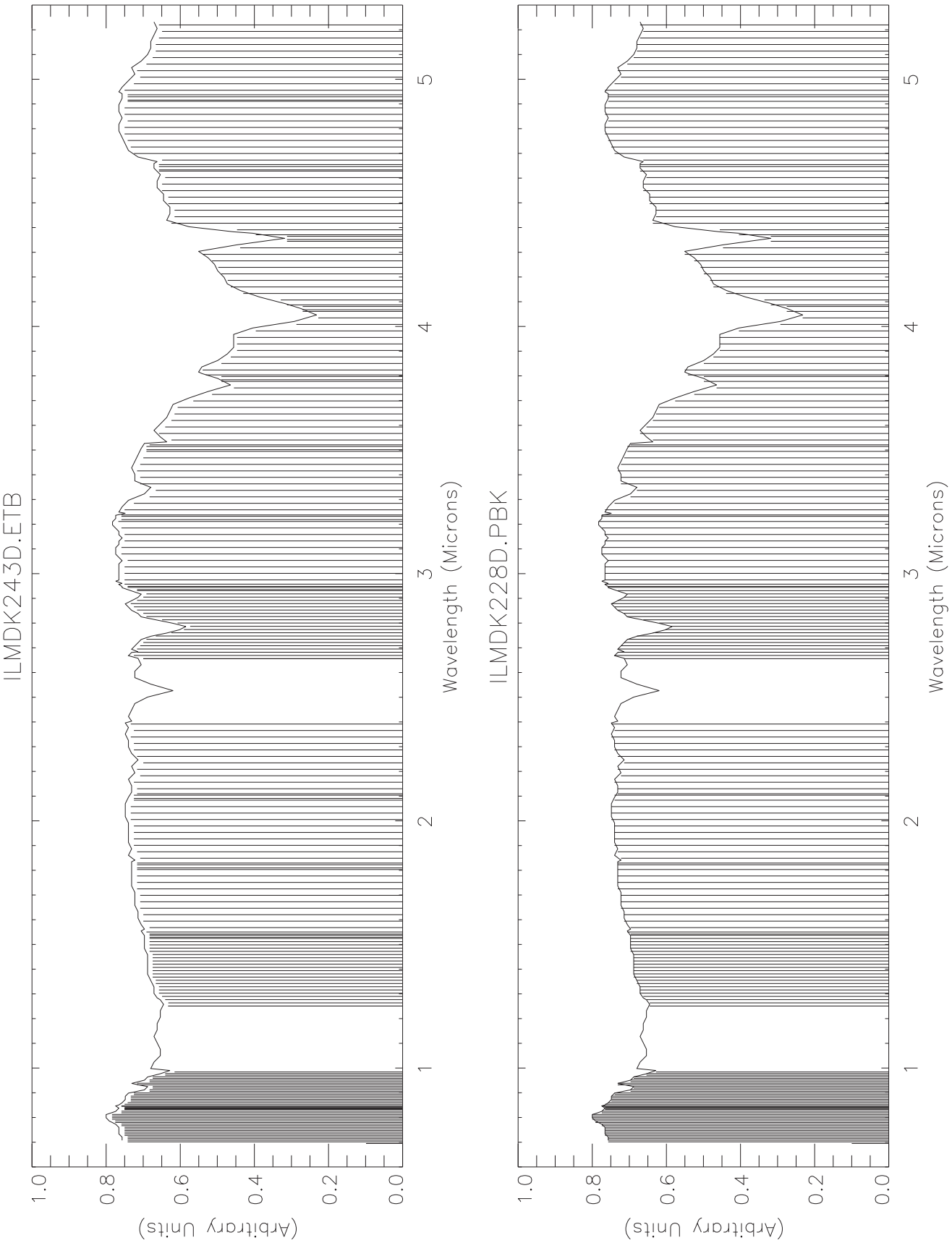
Introduction to Chapter 6

NIMS Edit Table Plots

This chapter contains plots of the NIMS Edit Tables used in C22. The representative spectra used in these plots are observational reference spectra for the target body as obtained from telescopic observations from the Earth. Each reference spectrum is a composite of multiple published sources. Vertical lines below the reference curves mark the wavelengths selected for return. Where no spectral information is available, the selected wavelengths are shown as lines with amplitude equal to .05 on the vertical axis.


ILMDK243D.ETB
(Arbitrary Units)
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0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ILMDK228D.PBK
(Arbitrary Units)
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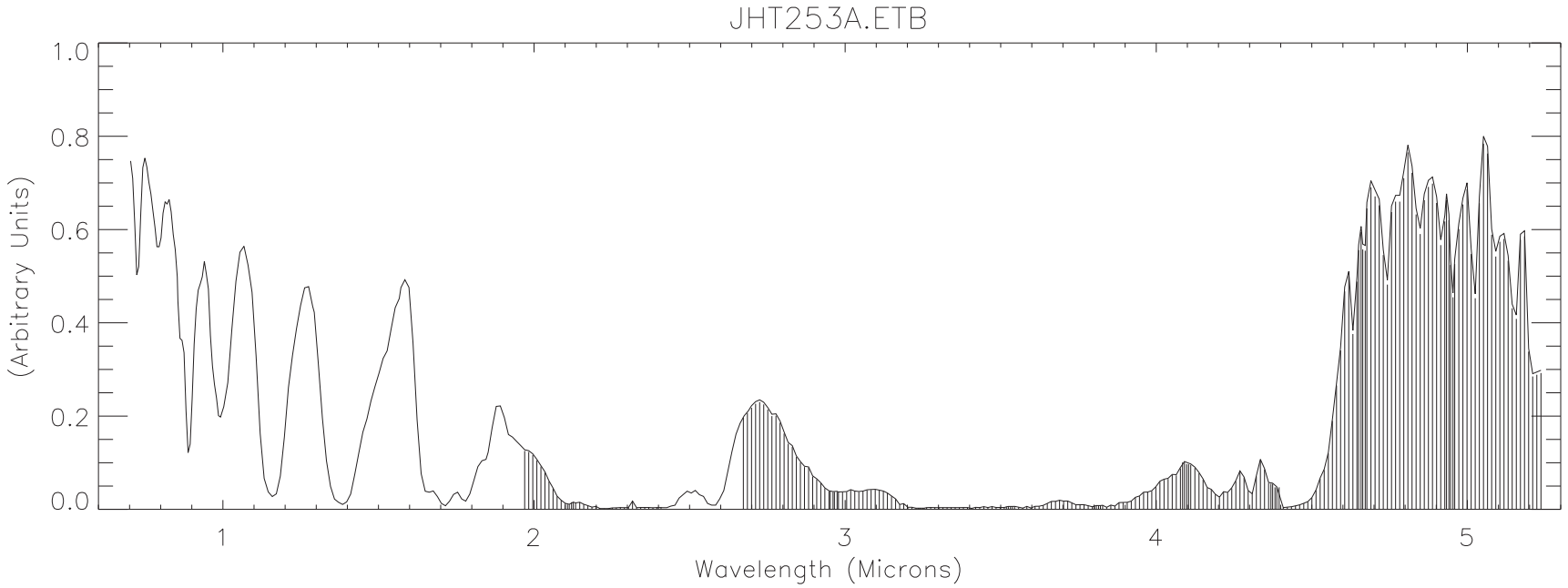
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JHT253A.ETB
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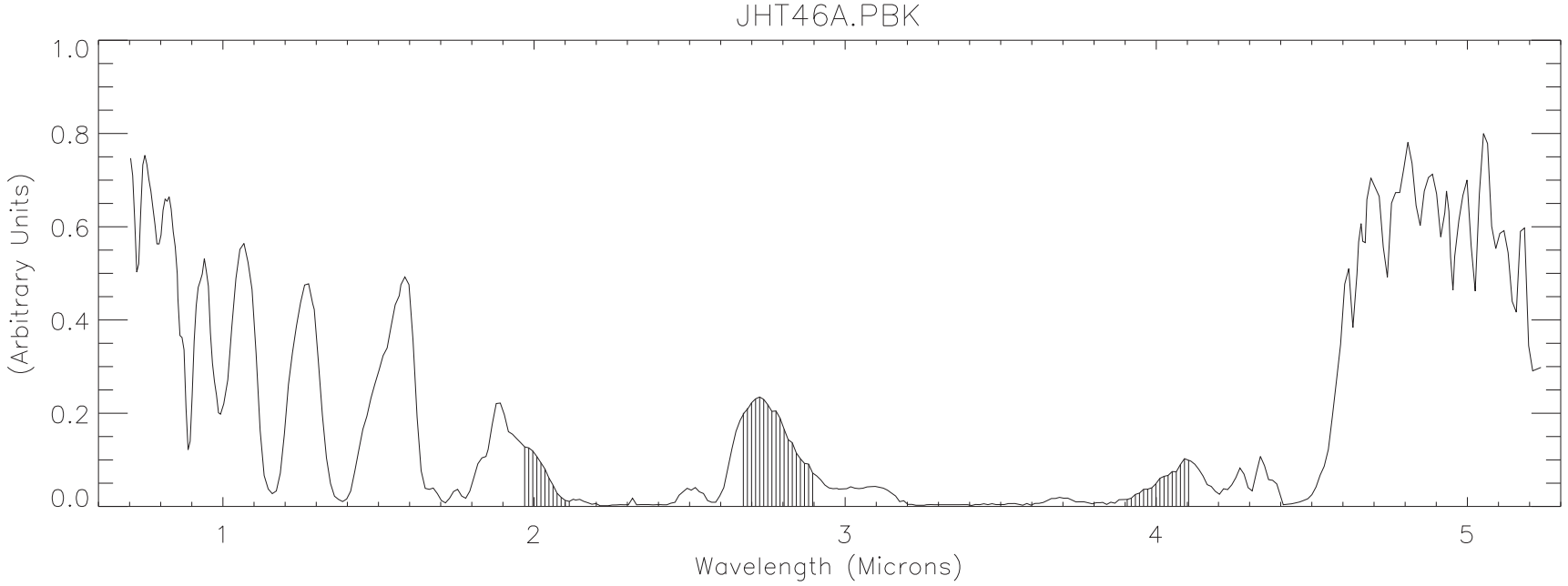
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)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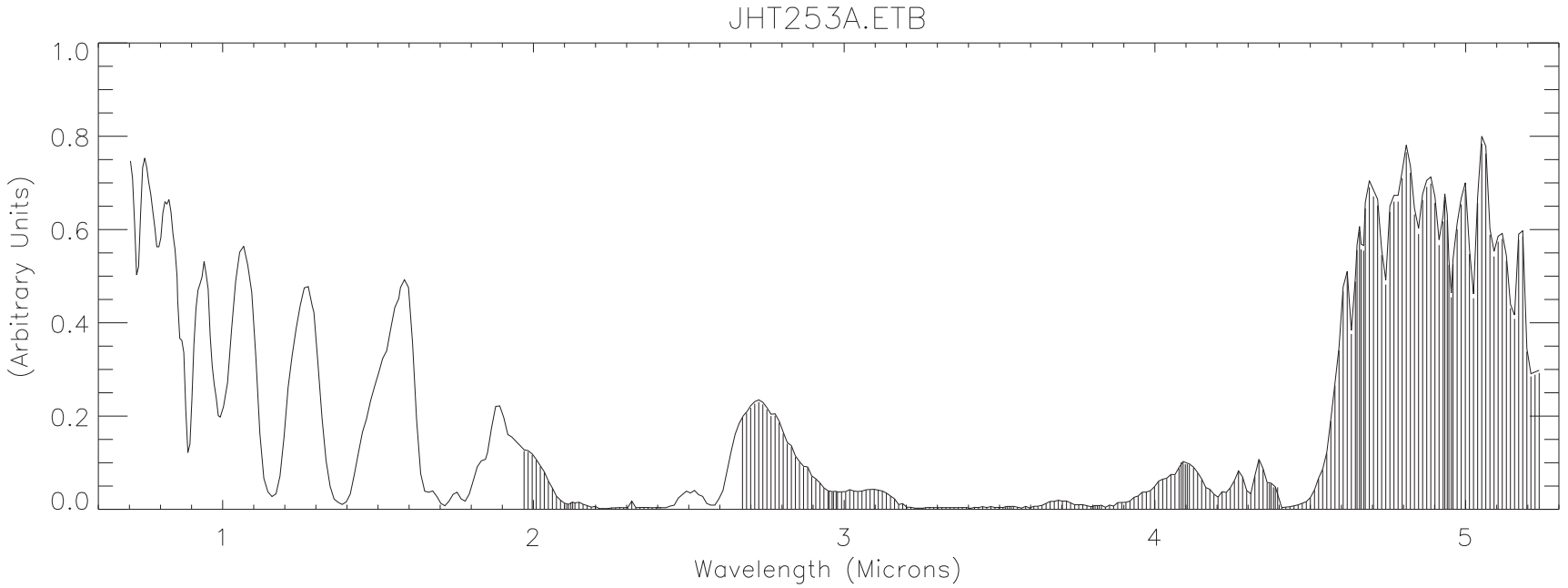
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


JHT253A.ETB
(Arbitrary Units)
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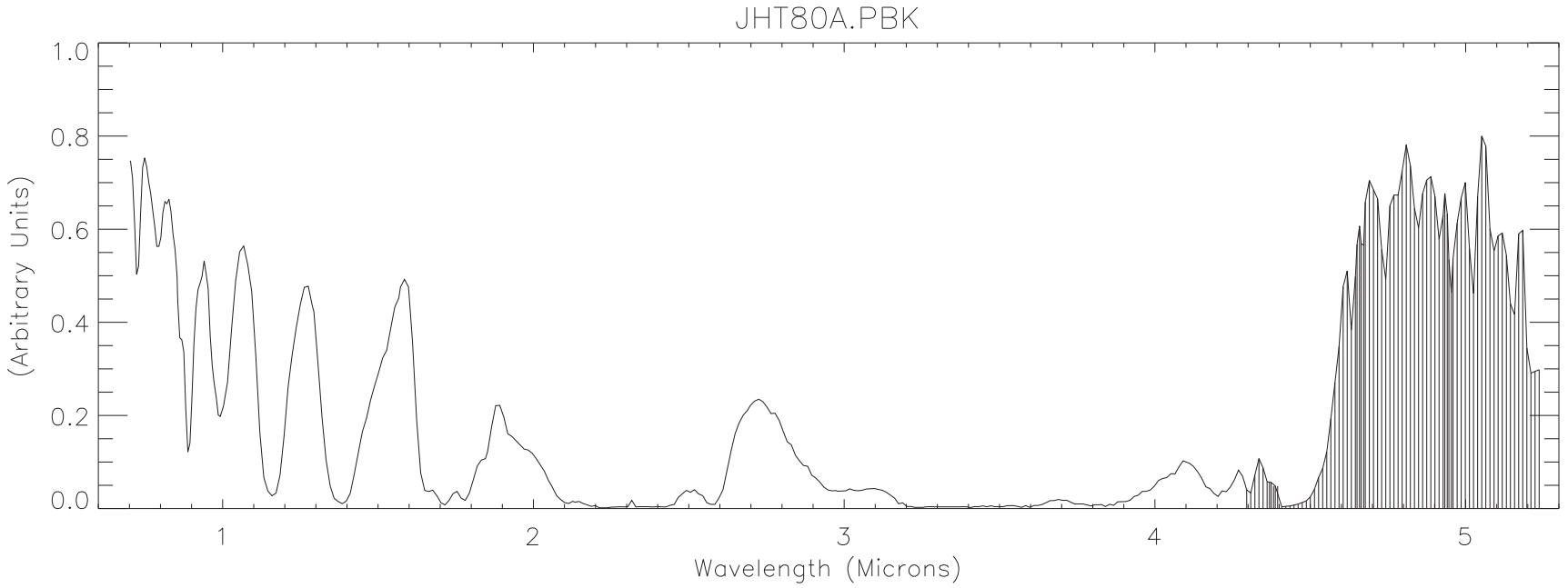
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)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(Arbitrary Units)
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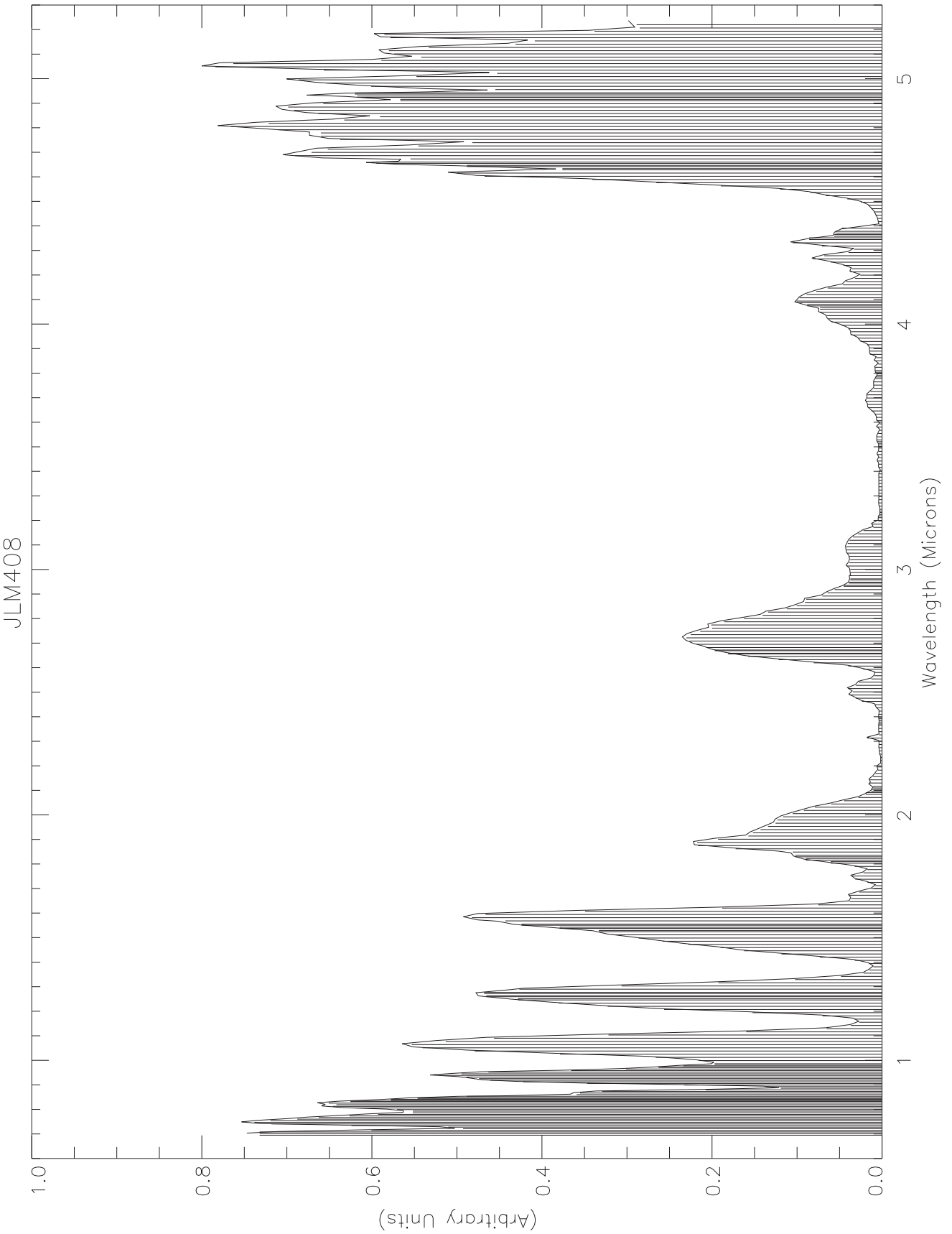
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)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(Arbitrary Units)
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0.6
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0.2
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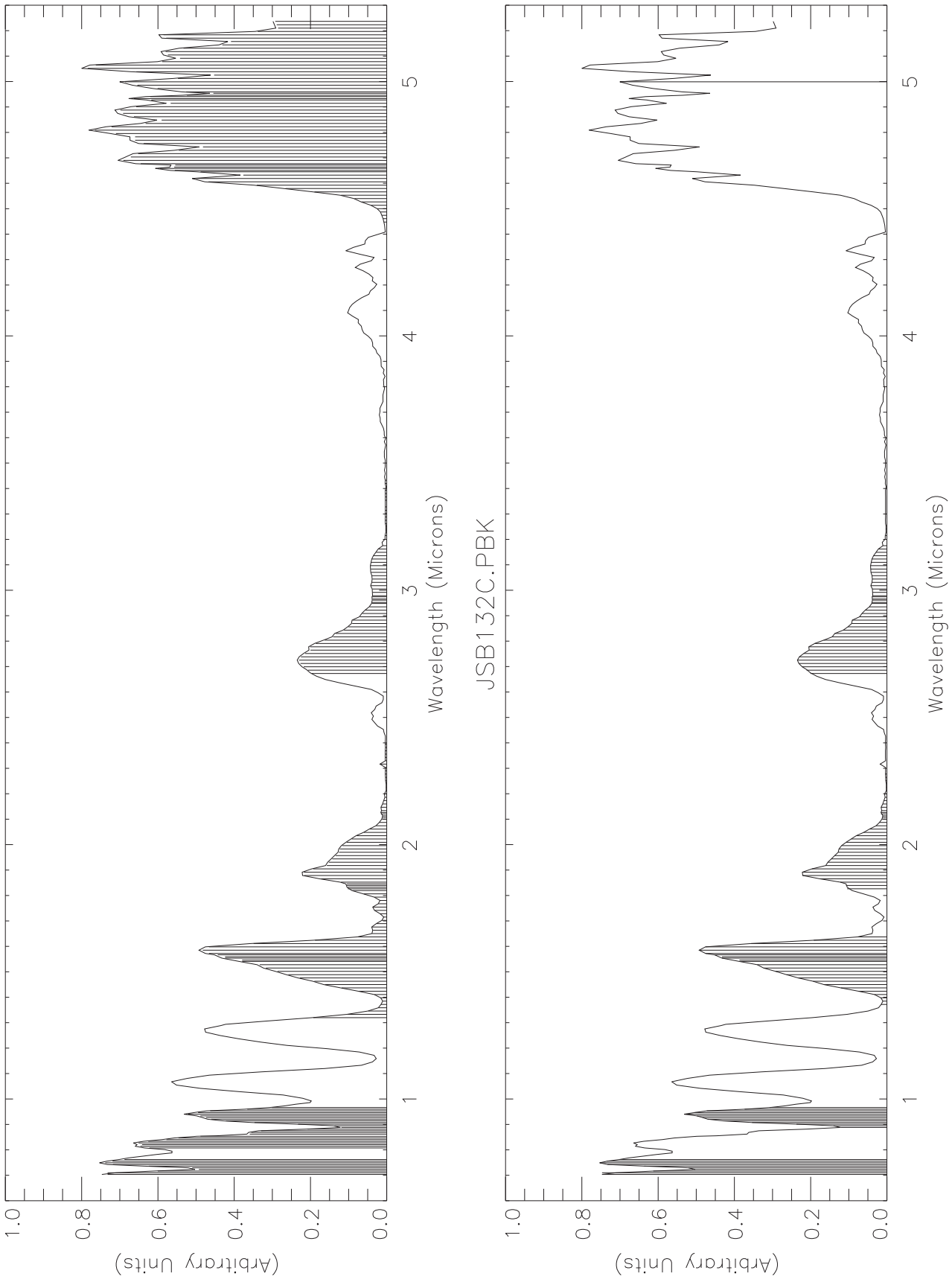
1
2
3
4
5
Wavelength (Microns)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(Arbitrary Units)
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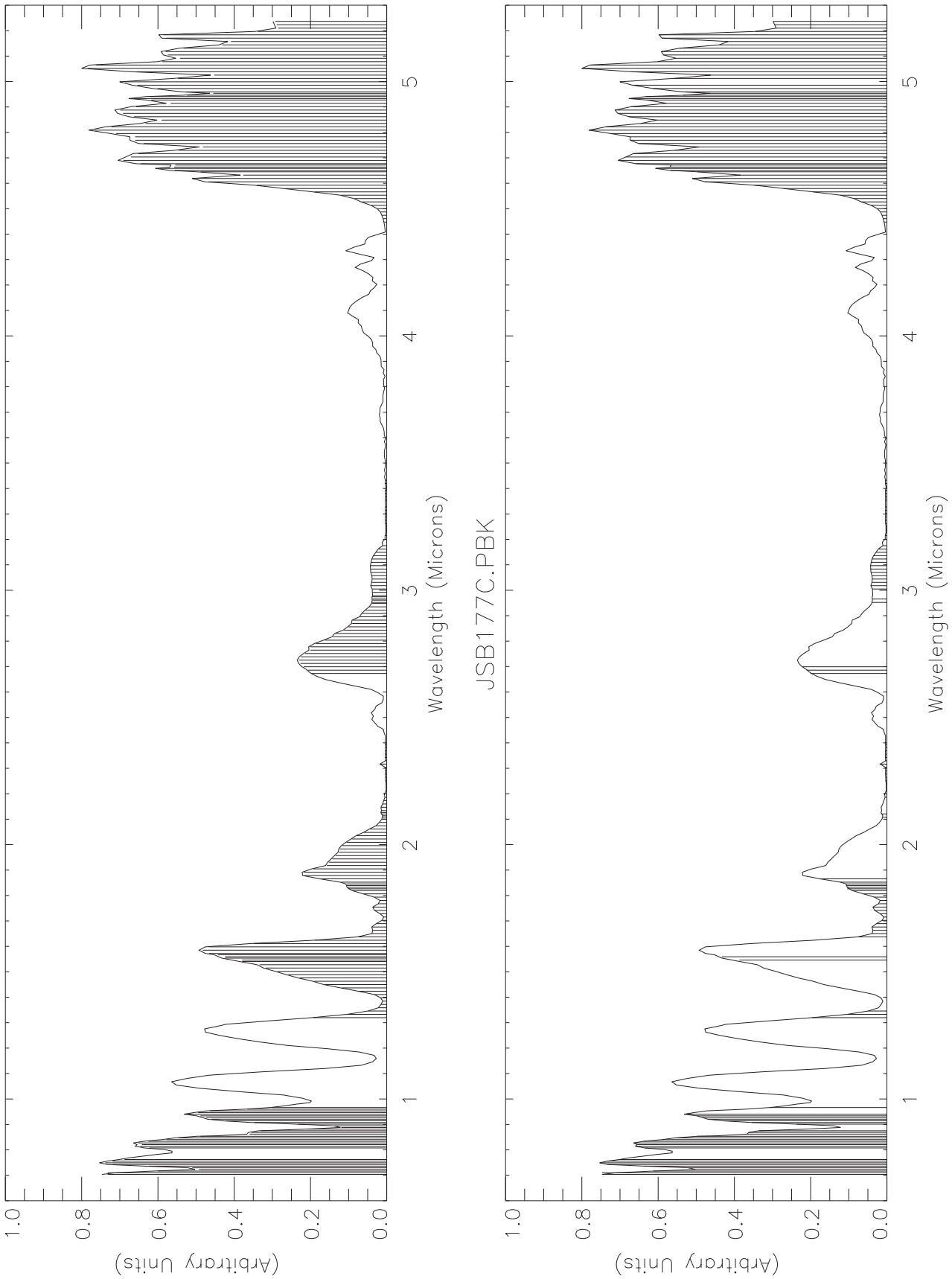
1
2
3
4
5
Wavelength (Microns)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1
2
3
4
5
Wavelength (Microns)
JSB177C.PBK
(Arbitrary Units)
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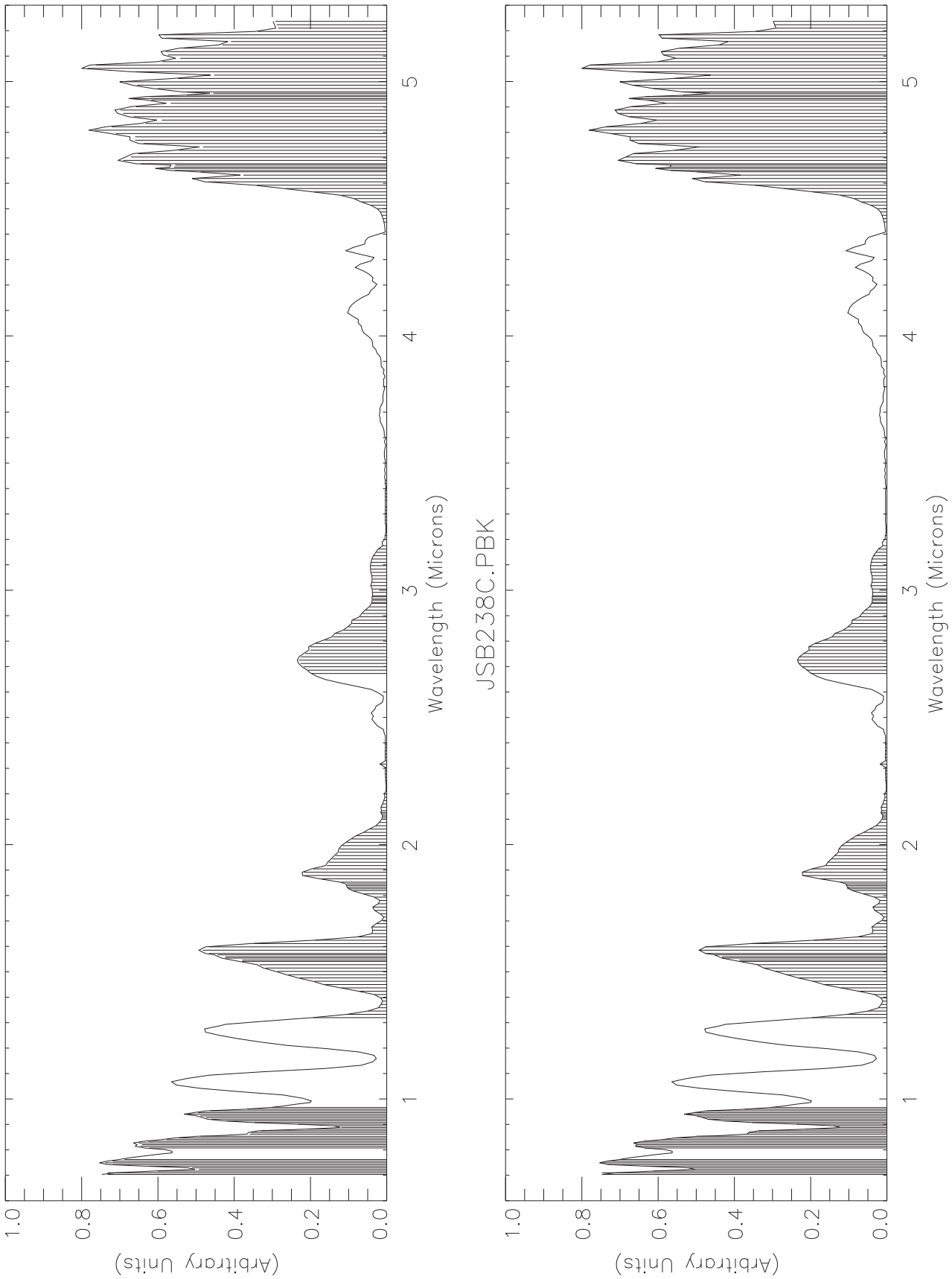
0.2
0.0
1
2
3
4
5
Wavelength (Microns)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(Arbitrary Units)
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0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
JSB238C.PBK
(Arbitrary Units)
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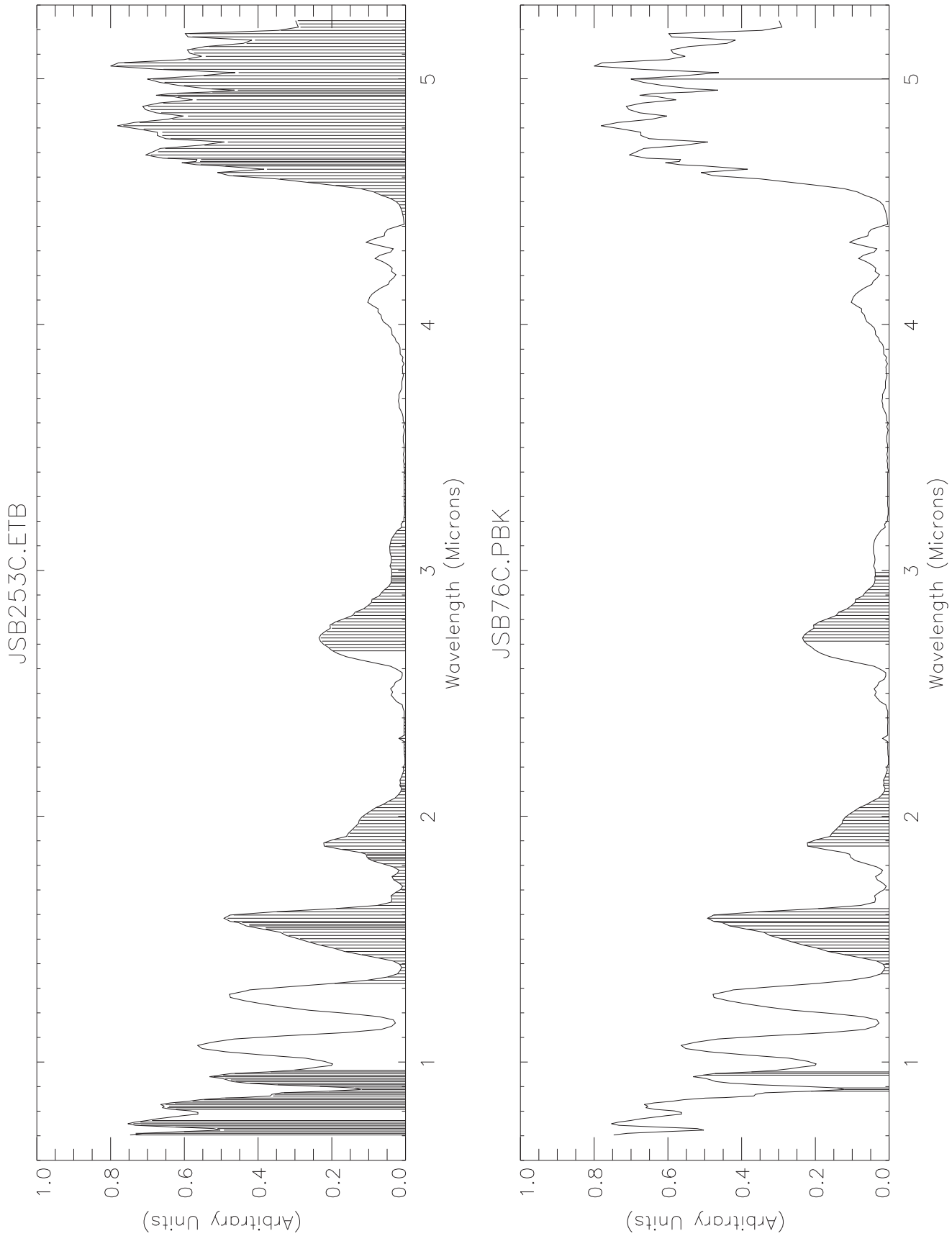
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)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(Arbitrary Units)
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0.6
0.4
0.2
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1
2
3
4
5
Wavelength (Microns)
JSB76C.PBK
(Arbitrary Units)
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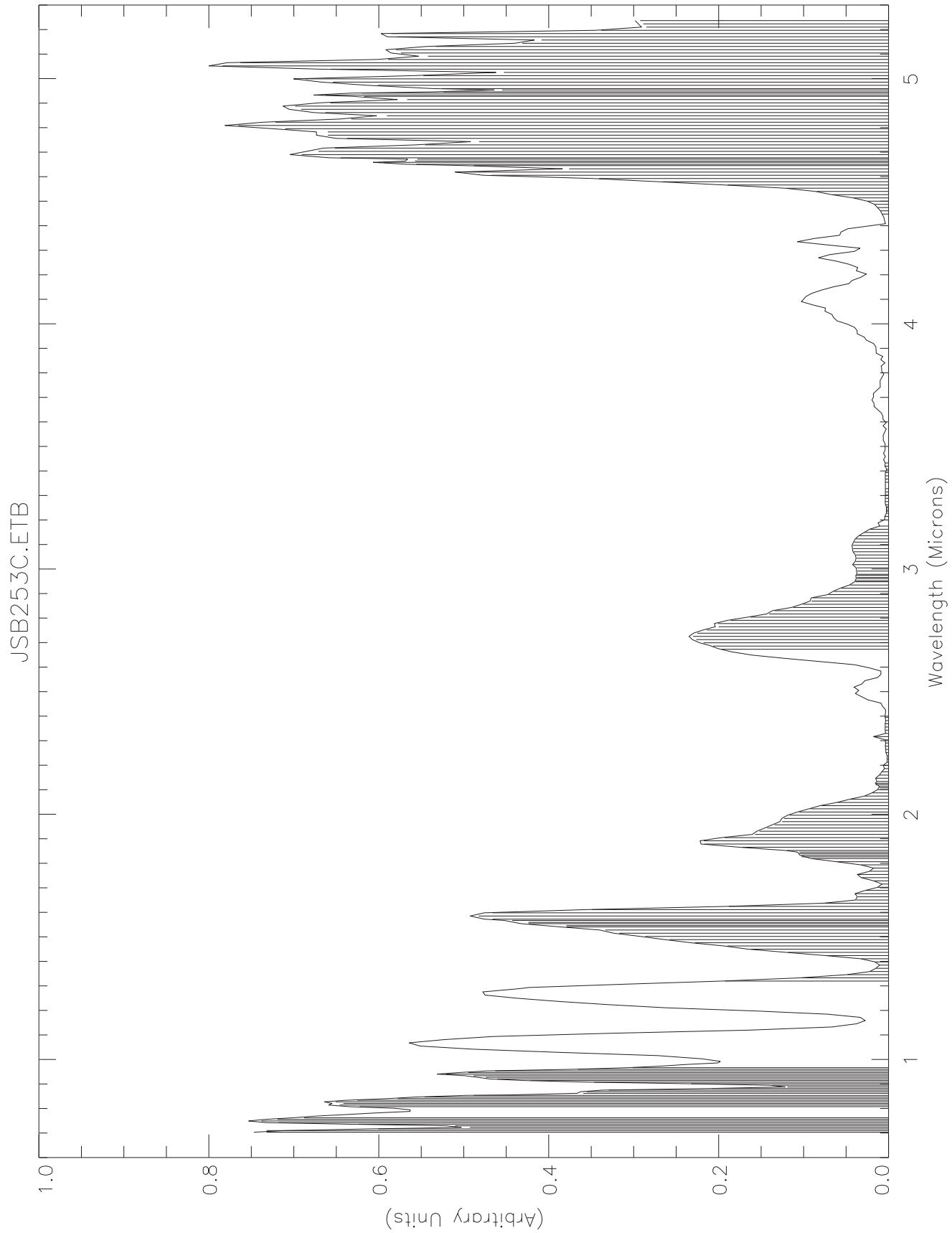
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)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(Arbitrary Units)
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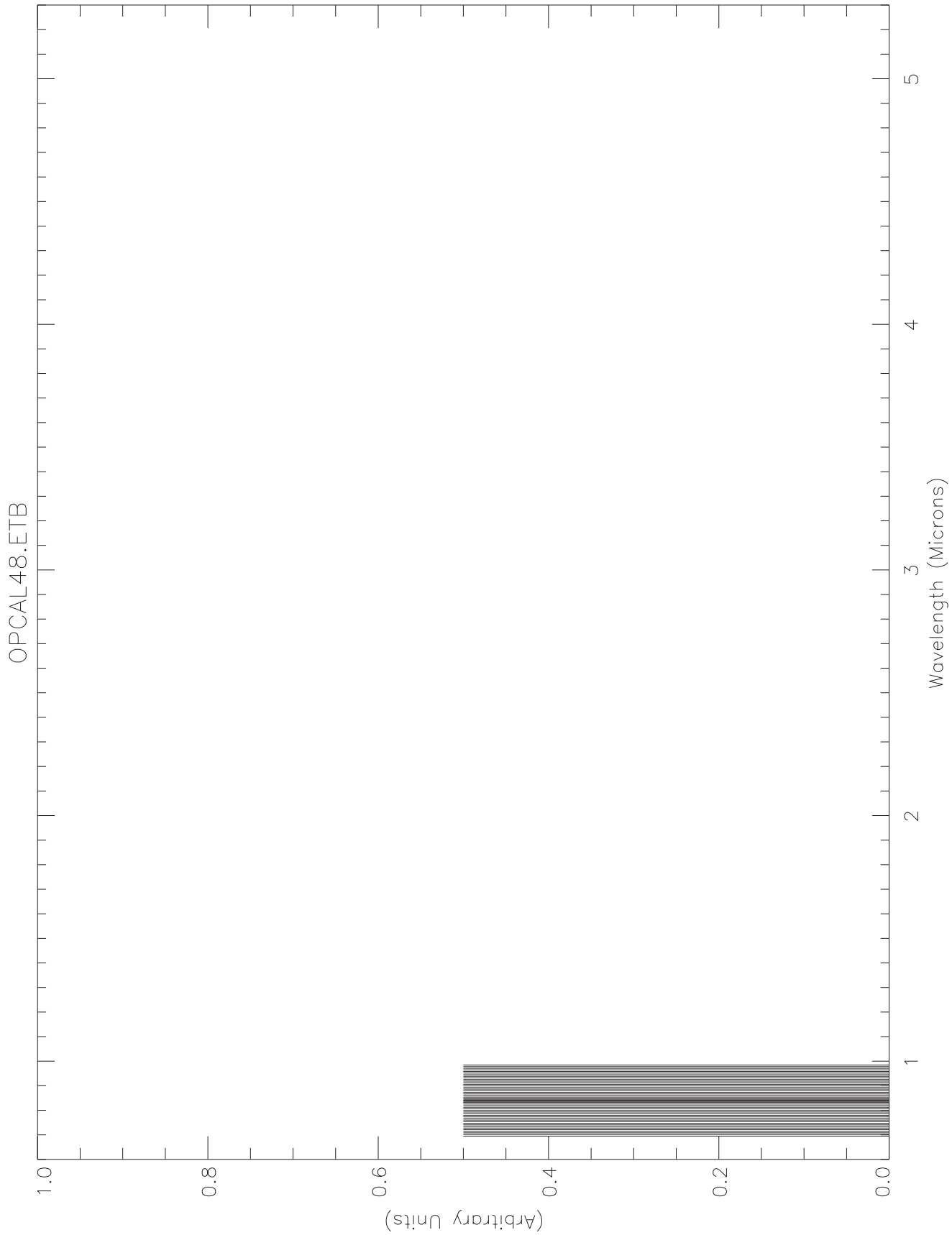
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)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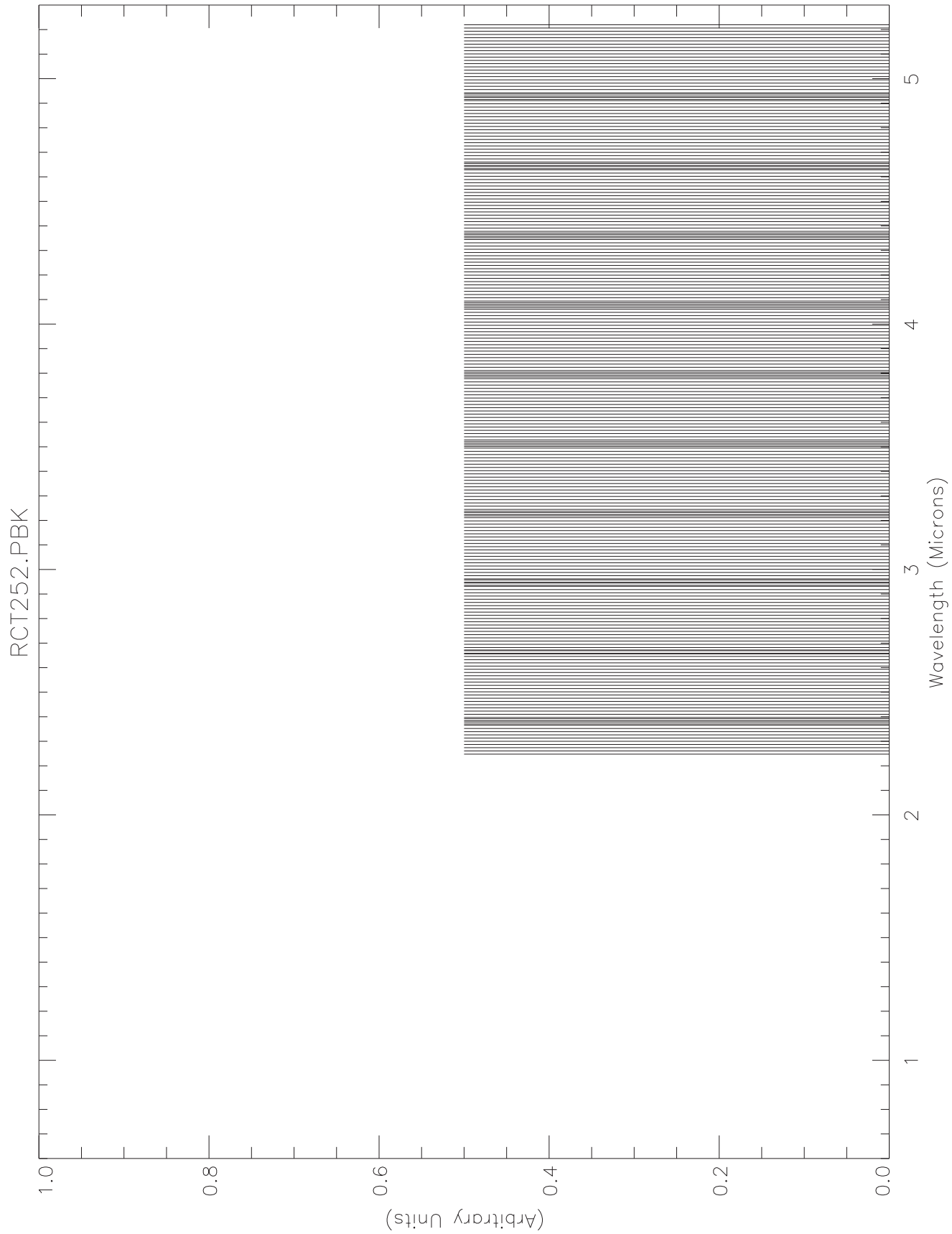
0.0
1
2
3
4
5
Wavelength (Microns)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(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)

Chapter 7 - Data Return

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Introduction to Chapter 7

This chapter is a report on the NIMS data return for the C22 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the C22 Encounter and Cruise, not all NIMS data recorded on the tape recorder or selected in real-time were returned. The previous 6 chapters nominally describe the planning and intention of the NIMS observations for this orbit, except the obstab section in chapter 4 which was updated to give the latest parameters for the data that were actually returned.

There were twelve autonomous reloads of the NIMS RAM code from CDS during the C22 encounter, one just before each science observation. No observations were lost due to a NIMS processor halt. The approach that we are taking to avoid data loss due to processor halts has proven to be very successful.

Detectors 3 and 8 are still not functioning and are expected to be lost for the rest of the mission.

The spacecraft successfully survived two CDS Bus Resets using the new CDS Bus Upset Reset Patch (BURP). Each BURP event caused the NIMS software to halt, but no observations were lost. One of the Bus Reset events caused the tape recorder to stop recording. The process to get the tape recorder re-synchronized with the tape turnaround (DTURN) dropped the two NIMS Europa observations from the recording.

AACS was in Cruise mode for the entire C22 encounter period.

The plots on the pages 3 and 4 show the geometry of the NIMS C22 observations using a north trajectory pole projection. The 'returned' observations are in Bold characters and the 'non-returned' in gray. The observations with an asterix were taken with the NIMS software halted.

The spreadsheets on pages 5 and 6 summarize the 'final' playback model for the 'returned' C22 data.

The text on page 7 gives a 'recap' of the C22 playback events which affected which observations were returned.

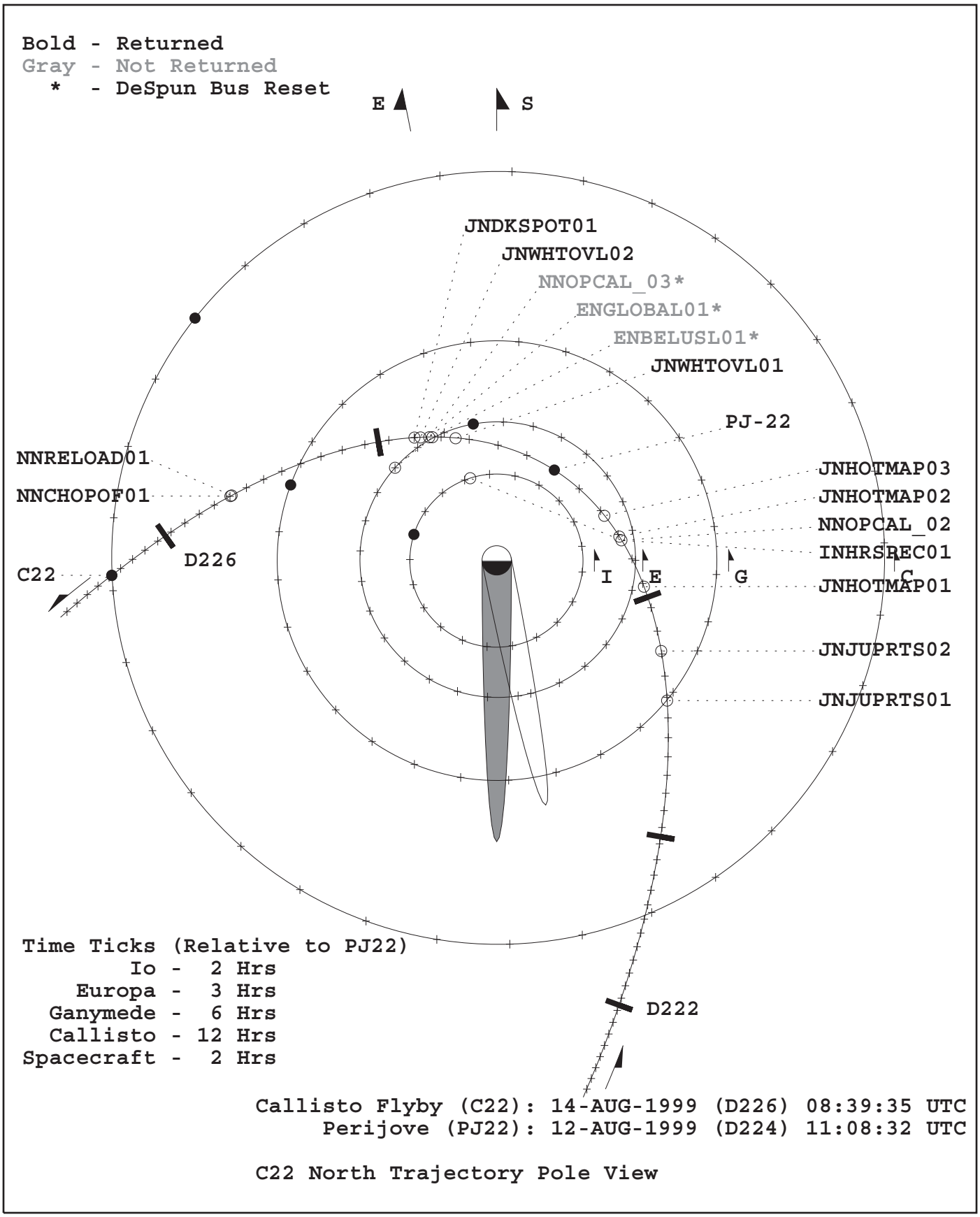
A Timeline of C22 playback events is on pages 7 through 15.

The text on pages 16 and 17 describes the C22 NIMS and Spacecraft Anomalies.

The text on page 18 gives a brief discussion of the NIMS data files. Additional information about NIMS data formats, data types, data labels and data access is given on pages 19 and 20.

The text on page 21 is a guide to understanding the NIMS MASK.

NIMS C22 OBSERVATIONS

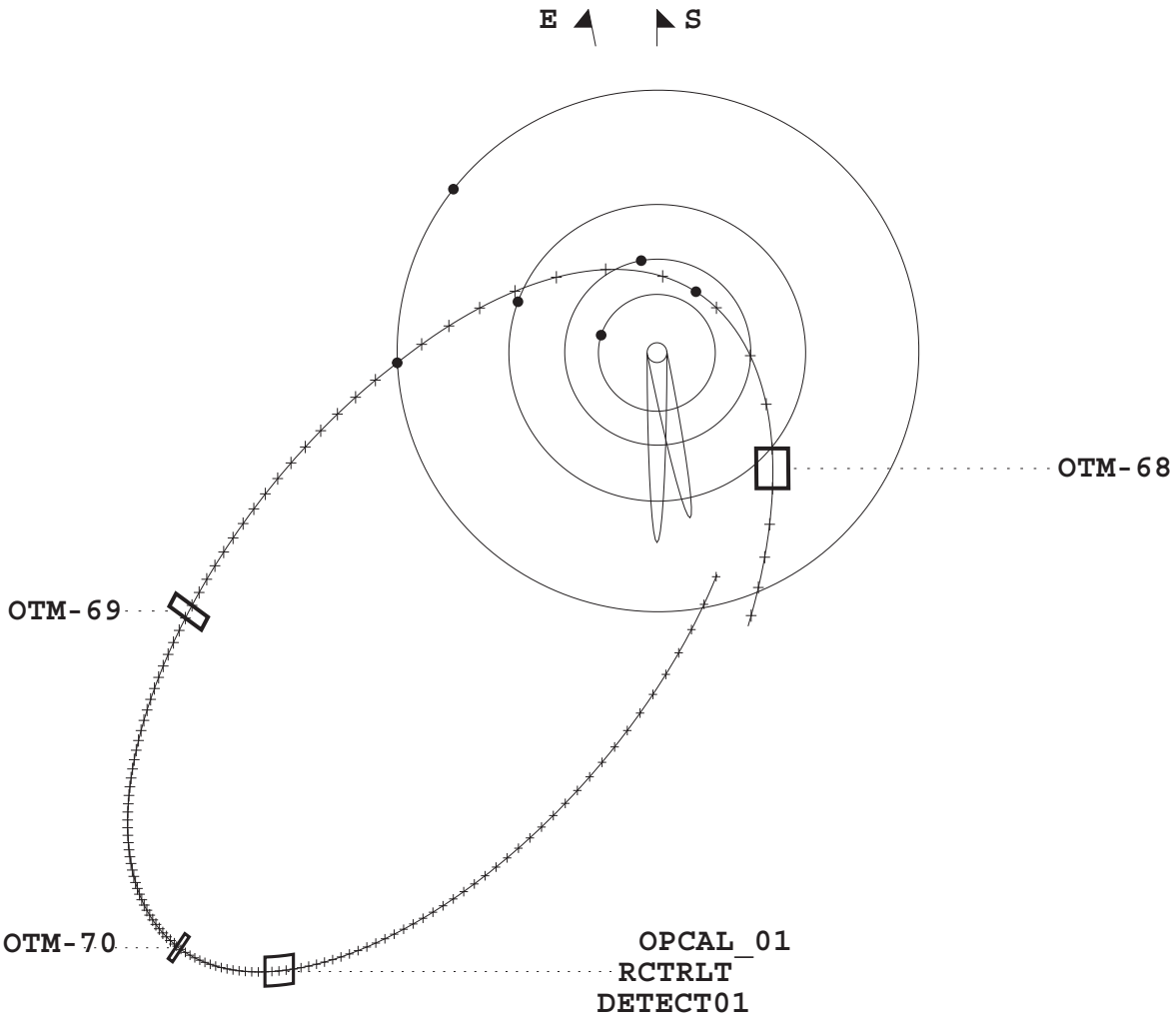


NIMS - FEL - 12/06/99

NIMS C22 CRUISE CALIBRATIONS

Callisto Flyby (C22): 14-AUG-1999 (D226) 08:39:35 UTC
Perijove (PJ22): 12-AUG-1999 (D224) 11:08:32 UTC
Apojove (AJ22): 28-AUG-1999 (D240) 16:00:00 UTC

Time Ticks (Relative to C22)
Spacecraft - 6 Hours



C22 North Trajectory Pole View, Perijove to Perijove

NIMS C22 DATA RETURN

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
22JNJUPRTS01*	Jupiter Realtime Observation	C22JLM442/MB	R/T	LM	4	0	4	R/T	
22JNJUPRTS02*	Jupiter Realtime Observation	C22JLM442/MB	R/T	LM	2	0	4	R/T	
22JNWHTOVL01-	Jupiter White Oval	C22JSB253C	C22JSB132C	LM	2	0	4	LPU	
22JNHOTMAP01-	NIMS Jupiter HotMap	C22JSB253C	C22JSB76C	LM	2	0	4	LPU	
22INHRSPEC01-	Io monitoring	C22ILMDK243D	C22ILMDK228D	LM	4	0	4	LPU	
22INHRSPEC01_O	Europa Global(O)	C22OPCAL48	C22OPCAL48	LM	4	0	4	LPU	
22JNHOTMAP02-	NIMS Jupiter HotMap	C22JHT253A	C22JHT80A	LM	4	0	4	LPU	
22JNHOTMAP03-	NIMS Jupiter HotMap	C22JSB253C	C22JSB253C	LM	2	0	4	LPU	
22JNWHTOVL02-	Jupiter White Oval	C22JSB253C	C22JSB238C	LM	2	0	4	LPU	
22JNDKSPOT01-	Jupiter Dark Spot	C22JSB253C	C22JSB238C	LM	2	0	4	LPU	
22NNDETECT01-	Grating Step Test								
22NNRCTRLT01-	NIMS RCT Real Time Calibration	C22RCT252	R/T	LM	1	0	4	R/T	
22NNROPCAL01	NIMS OPCAL	C22OPCAL48	R/T	LM	4	0	4	R/T	
22JNHOTMAP01-	NIMS Jupiter HotMap	C22JSB253C	C22JSB177C	LM	2	0	4	LPU	
22JNHOTMAP02-	NIMS Jupiter HotMap	C22JHT253A	C22JHT46A	LM	4	0	4	LPU	

NIMS C22 DATA RETURN

Activity ID	Mode	Record Format	Wave-lengths Returned	Record Time (sec)	PB Time (sec)	Selected Bits of Tape sBOT (MBITS)	Total Bits of Tape BOT (Mbit)	Mode Cycle (sec)	Comp	Thold	R/T BTG MBits	Total BTG Mbits (4% ohead)	Data Reduction Factor	Pass
22JNJUPRTS01	LM		360								0.32			
22JNJUPRTS02	LM		360								0.32			
22JNWHTOVL01	LM	LPU	132	600	590	3.64	3.70	8.667	1.45	0		1.289	2.82	1
22JNHOTMAP01	LM	LPU	76	600	590	3.64	3.70	8.667	1.61	0		0.668	5.44	2
22INHRSPEC01	LM	LPU	228	360	182	1.12	2.22	8.667	1.18	0		0.844	1.33	2
	LM	LPU	48	360	55	0.34	2.22	8.667	1.36	0		0.047	7.28	2
22JNHOTMAP02	LM	LPU	80	600	590	3.64	3.70	8.667	1.07	0		1.059	3.44	2
22JNHOTMAP03	LM	LPU	253	600	590	3.64	3.70	8.667	1.31	0		2.735	1.33	2
22JNWHTOVL02	LM	LPU	238	1020	920	5.67	6.29	8.667	1.43	0		3.675	1.54	2
22JNDKSPOT01	LM	LPU	238	1110	667	4.11	6.85	8.667	1.46	0		2.609	1.58	2
22JNHOTMAP01	LM	LPU	177	600	590	3.64	3.70	8.667	1.5	0		1.671	2.18	3
22JNHOTMAP02	LM	LPU	46	600	590	3.64	3.70	8.667	1.3	0		0.501	7.26	3
Resource Totals												**15.097 Total**		
												15.174 Allocation		
												-0.0768 Over/under		

RECAP OF C22 PLAYBACK EVENTS

The downlink allocation for NIMS in C22 was less than for any other orbit in the entire Galileo mission. Fewer than 10.5 Megabits were allocated for NIMS playback. In the end NIMS received about 46% more than that due to the loss of one fields and particles observation due to a stoppage of the tape recorder (DMS). This event was an unanticipated consequence of Galileo's occasional radiation-induced "despun bus resets" and the software patch that had been constructed to adapt to them. The negative consequence for NIMS of this event was a failure to record two Europa observations (22ENBELUS01, 22ENGLOBAL01).

The encounter and playback (cruise) periods were not uneventful, making this a typical Galileo orbit. We received a number of excellent observations of Jupiter, with full spatial and wavelength coverage, during C22.

The following timeline details the most signifigant events of the C21 playback period. Most of the text below is excerpted from messages issued at the time.

C22 Playback Events Timeline (04-21-99 to 09-12-99)

04-21-99: (B. Paczkowski) Here are the results of the allocation of add-back tape for C22. The current estimate of available tape on C22 is 840 tics. This number may be less depending on the final tape plan that is developed and the tape uncertainties associated with that plan. I'm allocating all of the add-back tape in this orbit to NIMS. NIMS has proposed a new Europa observation to characterize the recently found sulfuric acid on Europa. In addition, they are adding some additional coverage to an existing Europa global observation.
The primary reasons for this decision are:
1) The NIMS request seems like some good science
2) NIMS has stated that because of the importance of the new observation they *WILL* playback data from both these observations; the SSI requests are not currently planned to be played back.
3) The NIMS requests has far less integration issues. This is an extremely important factor at this time since we have a significant amount of sequences being worked on concurrently, C22, C21, G28, and C20 playback. Our science operations personnel are being stretched to the limit. During the Europa phase of GEM, we had a lot more people resources available to work these add-back integration issues than we do now.

C22 Playback Events Timeline (04-21-99 to 09-12-99)

05-10-99: (K. Schimmels) Below are your OPG allocations for C22. A few things to keep in mind with this orbit - there are expected to be about 1 - 2 weeks of down time at the 43-station. The final negotiations have not been solidified that I know of, as our DSN scheduler has been out ill. As of today, we have only received about 2 14-passes to make up for this loss, and a number of stations have been converted to two-way. Also, Radio Science BTG were not accounted for in the OPG, and the policy is to take their bits off the top. All of these reductions in BTG will be more tangible when the a and b products come out this week and next, but in general, expect a significant decrease in BTG for C22.
I am concerned about the efficiency of a two-pass playback plan with such a bit limited orbit. We have 4 weeks of playback. If pass two is less than 1.5 - 2 weeks long, we won't have a chance to affect the end of the second pass after the first pass is down and bested. This means the best you can do to split your bits 50/50 between passes, the better off we'll be. Also, the cost of the inefficiency could out-weigh the benefits of doing two-pass playback, we may want to consider a strategy of a limited 2 pass plan (e.g. not all 4 tracks have 2 passes thru).
NIMS allocation is 10.340 Mbits.

05-20-99: (K. Schimmels) It appears that the 17% increase in science bits to ground is probably realistic for the STALF changes that have been seen since the OPG. So, I am releasing the new allocations by OPG percentage to you now. HOWEVER, expect up to a 5 MB hit to the total over the next cruise load release due to more station changes and additional cruise activities that require pausing and resuming playback. This decrease may be lower than 5 MB, but I'm giving you a worst case conservative idea to keep in mind.
NIMS allocation is 11.914 Mbits.

07-21-99: (K. Schimmels) As most of you know already, we have decided to go to a non first-in/first-out strategy for playback of C22. This means that your next (and final) playback table update prior to uplink needs to reflect this new strategy, basically by changing some pass numbers in your SINGLEs and by eliminating inefficiencies as I stated in a previous message. Playback will begin with PPR Cooldown, which is a ride-along in the latter portion of the MWG perijove recording.
The following SINGLEs should have a pass number of 1: From the PPR Select for the Cooldown on track 3, (MWG should select into the Perijove playback at 99-224/13:07:19.066) to the end of the record sequence on track 2 (SSI feature track observations).

The following SINGLEs should have a pass number of 2: From the beginning of the record sequence (track 2), starting with the MAG Calcoil recording, through the end of the record sequence (track 2). This will include the first pass through all data recorded prior to the PPR Cooldown start time, and the second pass through PPR Cooldown to the end of the record sequence on track 2.
The following SINGLEs should have a pass number of 3: The Second pass through data from the beginning of the record sequence (Calcoil, track 2) up TO (not thru) the PPR Cooldown (99-224/13:07:19.066) on track 3.

07-28-99: The playback table delivered today is the final, pre-uplink version. Due to compressed schedules, the final .sef (spacecraft event file) was not available until today, forcing a fast turnaround cycle with little margin for error. It should also be noted that this orbit features a non-standard playback strategy. Instead of first-recorded, first played back, playback will start in the middle of the record sequence. There are 3 pass numbers but only 2 physical passes over the tape.
NIMS will begin taking C22 data on 13 August. Our downlink allocation is very modest at 11.8 Mbits. However, we have several interesting observations planned. Paradoxically, none of these image Callisto. There is a distant 22INHRSPEC01, taken at cone 58 degrees, which will have some boom obscuration. There are two Europa observations, one which sits and stares at the dark material near Belus Linea, using Long Spectrometer mode, and a two-scan global taken about the same time. We are presently selecting only half of this due to downlink bits limitations. In addition there are 2 realtime and 6 recorded Jupiter observations. White Ovals and a new dark spot are among the targets. We are bringing down only 76 wavelengths for the dayside observations, and 80 for the thermal-range observations. There is one open issue which concerns the longitude range for the dark spot observation. We presently have bits to bring down only half of the spatial coverage here. This is commanded for playback in pass 2, which will give us time to determine the optimal spatial coverage for return.

07-29-99: (K. Schimmels) C22 has been modeled, and the capability has decreased from 155.76 to 144.11 MB, a difference of 11.65 MB. About half of this is due to an early terminate playback, and that difference has been deducted from SPOT margin. Below are your new allocations vs. usage in the final C22 playback table prior to uplink.
NIMS 11.189% 11.861 Mbits.

08-11-99: C22 encounter starts at 14:00 UTC.

08-12-99: Perijove occurs at 11:08:32 UTC.

08-12-99: (M. Segura) The DMS went to ready mode during the latter part of the MWG perijove crossing record. There is still no explanation for this (engineering data will be played back to help with analysis). The DMS executed the remaining observations on Track 3 which included NIMS White Oval 01. The plan is to complete the recordings on track 3 - allow the DTURN in the background sequence to execute - moving the DMS to track 4. Unfortunately, this means the loss of the PWS Chorus recording and the two NIMS Europa observations are lost due to the time needed to execute the DTURN (the time allocated for this activity in the sequence is 54 minutes shorter than needed and the lost observations were due to execute in this time period).
About 20 minutes after the DTURN from track 3 to 4 completes, the NIMS WHTOVL02 followed by DKSPOT01 will execute followed by SSI plume search observations. There will be a "slew to tic" commanded via real time to adjust the starting position of the next recording to fix the tape map to protect the observations on track 4, track 1 and track 2.
The impact on NIMS is thus: The loss of two observations (ENBELUS and ENGLOBAL) - both will be removed from playback. Jupiter observations will (barring any other surprises) all be recorded and based on the bits available should have a very healthy return this orbit.

08-12-99: (C22 DMS (Tape Recorder) Anomaly and NIMS Playback)
During recording of the MWG perijove observation this morning, the tape recorder stopped recording and went to "ready" mode. Reasons for this event are not yet known. Later portions of 22MBPRJOVX01 were not recorded, but commands in the sequence to record the following observation successfully restarted the DMS. Unfortunately the failure to record a portion of track 3 threw off the timing of the following track change ("DTURN"). This was not completed until after the predefined record time of 22ENBELUS_01, and thus this observation and the following 22ENGLOBAL01 were not recorded.
As playback was to begin tomorrow at about 1 pm, starting off with the observation where the problem occurred, a new playback table is being generated for uplink immediately. Changes to this table are being entered by the playback coordinator. A copy of the new table should become available later today.
Commands to play back 22ENBELUS_01 and 22ENGLOBAL01 were deleted from the table. In addition, recording of 22JNWHTOVL02 began precisely at the marker for the end/beginning of the subsequent track.
Due to positioning uncertainties we cannot access the data within 12 tics of the marker, and so we are losing approximately 1 minute of data from the start of this observation. This observation is nearly 17 Rims in duration so the loss is probably not a catastrophic one.

08-12-99: (J. Erickson, 4:00 p.m. PDT) The Galileo spacecraft is operating normally, after completing the passage through the high radiation environment of the Jupiter close approach region. The spacecraft experienced three faults, and on board fault protection and the new bus reset protection software handled all of them correctly.
The spacecraft is continuing to perform the planned observations and has completed approximately 33% of the total recording planned for the encounter.
At 6:07 a.m. PDT on 8/12, the radiation environment near our Jupiter close approach appears to have caused a despun bus reset. The bus reset protection software succeeded in keeping the encounter going, but the tape recorder truncated the recording of an observation. On board algorithms in the CDS continued the recording sequence, but had to skip recording several other observations to get back on track. This error resulted in the truncation of 10% of a fields and particles recording, the loss of two Near Infrared Mapping Spectrometer observations, and the loss of another fields and particles observation.
At 8:21 a.m. PDT on 8/12, the radiation environment appears to have also caused a backup spin source to experience a hardware error. The spin detector is monitored by on board fault protection, which disabled the spin detector and data compression of the Plasma Wave instrument. Data compression will not be re-enabled until 5:00 p.m., due to ground transmitter problems.
The bus reset protection software again proved it's value, as another bus reset occurred at about 10:29 a.m. PDT on 8/12. The software handled it as planned, and the sequence continued unaffected.

08-13-99: (R. Mehlman) NIMS software halted sometime between Jupiter closest approach and the time NIMS was reloaded and the chopper turned off. This is a period of about a day. A dearth of returned SCLKs prevents us from determining the time any more accurately. This period includes the observations JNWHTOVL01, JNWHTOVL02 and JNDKSPOT01. (It also includes ENBELUSL01, ENGLOBAL01 and NNOPCAL_03 but these did not go onto tape due to the tape recorder anomaly). All of these were preceded by reloads so the halt would affect our data only if it occurred during one of these observations, or a reload failed. Unless there was more than one halt, it probably occurred during or after JNDKSPOT01, the last observation.
The last good SCLK was received by CDS at 224/15:01 (SCLK 5123101). It was followed by three bad SCLKs, with identical values, at 225/02:13, 04:37 and 12:42 (SCLKs 5123766, 5123908 and 5124388). The unusual thing is that the bad SCLKs seem to be off in the future, probably meaning that the SCLK bytes in NIMS memory were hit by radiation (probably) after the halt. A good SCLK was not received until 225/23:22 (SCLK 5125021) -- some 8 hours after the NIMS chopper was turned off.

C22 Playback Events Timeline (04-21-99 to 09-12-99)

08-14-99: Callisto close approach occurs at 08:39:35 UTC. By this time all encounter recording had ceased and data playback had begun. No observations of Callisto were planned for C22.

08-16-99: The loss of our C22 Europa observations and some early information on C22 Jupiter data compression (1.45 for 22JNWHTOVL01) made it desirable for us to enter some immediate changes. Thanks go to D. Bindschadler and K. Schimmels (SPOT Team Chief and Playback Coordinator) for helping to make this happen outside of the regular schedule.
We shifted 22JNHOTMAP01 and 22JNHOTMAP03 from the final pass (3) to the upcoming pass (2). This lets us fill gaps in the final pass and gives us needed information on compressions for these close-in observations. We also added singles to bring down the last Rim of the 22INHRSPEC01 recording with 48 wavelengths. (We could not capture all of the final instrument cycle of this due to DMS rules for track 2 playback).
We added more wavelengths to our 22JNHOTMAP03 and 22JNWHTOVL02 commands since these are now our highest priority observations of the orbit. And, we entered improved compression estimates for some other observations.
These changes give us much better visibility into our compression performance and will help prevent nasty surprises late in the playback process.

08-18-99: (K. Schimmels) Playback is currently running on schedule. We are in the midst of the SSI feature track playback, which has been undercompressing by all told about 1.0 MB so far.
Due to the early resume playback after the OTM, we have gained approximately 1.0 MB of capability, effectively balancing out the effect of SSI's undercompression. This extra capability is being retained as margin to cover large inefficiencies still expected in playback.

08-27-99: Some good news, some possibly not so good. We have about 4 Mbits to spend on the remaining data on tape. The HOTMAP03 that is all down with all wavelengths is very nice. HOTMAP02 with the longest 80 wavelengths also looks good. The longitudes coverage for these two overlaps but only by about 3 degrees (8 or 9 instrument cycles). I don't see any correlation of the hot spot features in the overlap regions but the current products don't have lat/lon in the backplanes...
Our recording for the DKSPOT01 stopped at longitude 255.75. The last estimate for its location I have seen was 252-258 degrees. So if we are lucky we will get it. We can get all wavelengths and the region from 262-255 longitude at a cost of 1.7 Mbits (increase of 1 Mbit over prior plan). We can also get the rest of the bands in HOTMAP02 for 2.3 Mbits.

I have not looked at our other option, HOTMAP01 which is really a dark oval. We got 76 of the 253 wavelengths. The targeting problems (where we are not getting quite what we hoped) appear to be due to misleading pointer plots. The existing versions show better coverage of the dark spot and more overlap of the HOTMAPS. However, Jupiter is rotating rapidly in the direction of our scan motion, and in the later parts of the observations, the pointer plots become more and more inaccurate. We should routinely get center and end time plots also in any future cases where this could be a problem...

09-01-99: NIMS has only 3 observations remaining in the playback plan. Two will come down early next week (22JNWHTOVL02, 22JNDKSPOT01), with the final observation (22JNHOTMAP01) arriving near the end of the playback period, perhaps on about the 10th of the month. A new schedule will be available tomorrow.

MWG released 8 Mbits of downlink allocation, and we received 3.34. We put this to good use on our Jupiter observations. Our total allocation is 15.174 Mb, of which about 8.2 Mbits remains to come down. Since there is still some uncertainty regarding compressions for the remaining observations, we are retaining about .3 Mbits as insurance against undercompression.

We have sustained some negative consequences as a result of a pointer operator error. Normally our pointer plots are produced with the "territory adjustment" parameter ON. This was not the case this time. As a result, the spatial coverage shown on our plots was somewhat different than what we actually saw. The discrepancies between the pointer plots and shortfiles (amounting to 10 degrees of longitude on Jupiter in some cases) were not noticed until recently. The impact on our observations is significant. The planned overlap of HOTMAPs 2 and 3 of about 10 degrees shrank to a couple of degrees. And, we may not see the dark spot southeast of the Great Red Spot that was the main objective of 22JNDKSPOT01. We will know more next week. There has been some confusion concerning the names and nature of our observations in this orbit. To clear this up I will recap them one by one.

22JNHOTMAP01: This is in fact an observation of a white oval. It was recorded with the table JSB253C, which includes many significant wavelengths at the visible end of our range. All recorded wavelengths will be returned. We obtained 76 in pass 2 and will get the remainder in pass 3.

22JNHOTMAP02: A true hot map at 7 degrees N latitude. This was recorded with JHT253A which includes no visible-range wavelengths. 80 wavelengths at the thermal end were returned in pass 2.

22JNHOTMAP03: Another accurately named hotmap. However this was recorded with the JSB253C table, which does include some visible range wavelengths. All wavelengths and the full spatial coverage were returned in pass 2. Overlap of this and the prior observation was reduced as a result of the pointer problem noted earlier.
22JNDKSPOT01: We are returning 11 of the 17 Rims of this observation, with 238 wavelengths. There were 253 recorded but to save bits we removed the detector 11 wavelengths from about 3.2-3.4 microns. The record table (JSB253C) has visible range wavelengths. As previously noted this one was affected by the pointing problem.
22JNWHTOVL01: This observation was added to the record plan to employ available tape. It was targeted to a fairly nondescript region. It should have been given a fairly low priority for playback but that information did not reach me in time (due to the nonstandard playback strategy, this was our first observation in the playback plan). We received 132 of the 253 wavelengths (JSB253C again).
22JNWHTOVL02: This observation is really a HOTMAP. We will receive more than 15 of the 17 Rims recorded. Once again JSB253C, with some visible-range data, was used for recording. We will get 238 bands (no detector 11 as with 22JNDKSPOT01). This sees a region far removed from those imaged in HOTMAPs 2 and 3.
The problems with the nomenclature of the observations came about due to changes made in the targeting late in the development process. The other mistakes were not caught due to high work loads (multiple orbits in development) and limited staffing. On the positive side, we have brought down some very interesting and valuable data, despite the problems.

09-02-99: (K. Schimmels) Playback is currently running on schedule, and is about 68% complete. We are in the midst of the MWG Perijove playback, in Segment 6. As of 2 PM, we are at tic 3307, track 3. The perijove playback will be finished on Sunday, 9/5/99.
Due to the early resume playback after the OTM, we have gained approximately 1.78 MB of capability, effectively balancing out the effect of SSI's undercompression. This extra capability is being retained as margin to cover large inefficiencies still expected in playback. Playback Terminates on Sunday, 9/12/99 shortly after noon PDT.
8.0 MB was released by the MWG as follows: NIMS: 3.34, SSI: 4.66. All inefficiency margin and SPOT margin is being retained to cover inefficiencies and filling of large gaps expected due to occasional possible loss of downlink over DSS-43.
NIMS allocation: 14.368% 15.096 Mbits.

09-07-99: Thanks to a special nonstandard update cycle approved by SPOT and SST, we were able to modify our playback plan to take advantage of new information on our compression performance. The only change made this week was to add new commands to return the full spatial coverage of 22JNHOTMAP02, with a new complement of wavelengths. We previously returned 80 wavelengths from the thermal end of the NIMS range. This time we will obtain an additional 46 wavelengths, comprised of three sets, located near 2.7, 3.0, and 4.0 microns. This particular observation is of value because of its unusual geometry (recorded near the terminator), in comparison with other similar observations obtained previously.
We were able to obtain these new wavelengths in part because 22JNWHTOVL02 compressed better than predicted. Thanks to E. Barbinis for generating 3 new wavelength tables last week, in anticipation of this possibility.

09-07-99: (K. Schimmels) Playback is currently running about 6 hours ahead of schedule, and is about 85% complete. We are in the midst of the second pass through the SSI feature track data, in Segment 8. As of noon today, we are at tic 1039, track 1.

09-12-99: Playback terminates at about 19:00 UTC.

09-13-99: (K. Schimmels) C22 Playback finished nominally, playing back all of the MWG perijove data gaps as planned. We finished at 99/255-05:18:03.984, about 14 hours prior to the terminate playback, and ~2.0 MB short of the total capability. This equates to the margin which was held to protect the gap fill in the perijove recording, in the case of large gaps due to DSN problems or stations needed by other projects. The gaps in data were much larger than in previous orbits, but our margin and inefficiency policy (and conservativeness in the model) allowed us to fill all the gaps received in the first pass of playback, despite the fact that the SSI data continued to undercompress throughout playback. Bottom line, we finished playback as planned and got all the data despite the challenges (high data rates, high ineffiencies, large gaps, loss of downlink during 2-way 43-passes, SSI data undercompression, several quick turn-around updates, etc. etc. etc.)

NIMS Anomaly Report - C22 Sequence

There was one NIMS processor halts detected during the C22 Encounter. Detectors 3 and 8 are still not functioning and are expected to be lost for the rest of the mission.

The spacecraft survived two CDS bus resets. The new CDS bus reset patch (BURP) executed properly so that the spacecraft did not safe itself. The first bus reset caused the recorder to stop. To get the recording re-sychronized, two NIMS Europa observations were dropped from the sequence. Each BURP event should have caused the NIMS software to halt, but no halts were detected due to the sparse reporting of NIMS SCLK values and the software reloads before each NIMS observation.

Processor Halts

Facts:

0. A single NIMS processor halt was detected outbound in C22 well after all NIMS observations had occurred. A subsequent NIMS reload at the end of the C22 encounter reset the software.

1. A NIMS processor halt was detected at SCLK 05123886 from the analysis of the NIMS SCLK engineering telemetry channels S-1931 and S-1932. The reported SCLK values, 5145104 is much later in time that the reporting time. NIMS was halted for at least 12 hours.

Timing:

SCLK	Comments
5123101.40	Good SCLK returned: 5123099
5123464:16	NIMS Reload
5123886.05	Bad SCLK Returned: 5145104
5124223.58	Bad SCLK Returned: 5145104
5124524:16	NIMS Reload
5125206.05	Good SCLK returned: 5125204

Spacecraft Anomaly

As noted above, CDS experienced two Bus Reset events in C22. CDS recovered both times using the BURP patch. The tape recorder stopped recording during one of the Bus Resets recoverys. Three NIMS observations, ENBELUS01, ENGLOBAL01 and OPCAL_03, were dropped from recording in the process of getting the recording re-synchronized with the planned tape turnaround (DTURN).

Grating Anomaly

Testing of the NIMS grating anomaly continued in C22. Two Opcals were inserted into the C22 encounter sequence, one inbound and one outbound, as was done in C20. The inbound Opcal was performed just after 22INHRSPEC01 to compare Opcal-determined grating parameters to those derived from fitting Io SO2 spectral shapes. The outbound Opcal was lost due to the spacecraft anomaly.

A new test (DETECT01) was devised to return the NIMS grating position engineering data to verify the grating parameters being determined using the Opcal data. NIMS engineering values had been removed from the data stream in the Phase 2 scheme, but the values still reside within NIMS RAM and are updated every half minor frame. In the test, a segment of NIMS memory containing the grating position DN was copied to CDS (6MCOPY) for every minor frame over a grating cycle, sampling every other grating position. This was done in both Long Map mode and Short Map mode using both Phase 0 and Phase 2 NIMS code. The CDS memory locations containing the NIMS engineering DN were then sent to ground via MRO. The inflation value derived from the engineering DN agreed very well with the inflation value derived from the Opcal data and show that the inflation of the grating step size is uniform across the grating cycle.

NIMS Archived EDRs and CUBEs

The NIMS data are stored in EDRs (Experimental Data Records) produced by JPL-MIPS (Multi-mission Image Processing System). The NIMS Phase2 EDR is described in the NIMS EDR SIS (Software Interface Specification) Number 232-08. The same information is available in both human and machine-readable form in the PDS (Planetary Data System) structure files EDRHDR.FMT and EDRDATA.FMT in the LABEL directory of the NIMS EDR CD-ROM. Each observation has at least one EDR. The EDR file name is derived from the 12 character observation name plus a single character which allows an observation to be broken up into multiple EDRs. The EDRs have a Vicar label, followed by a PDS/ISIS label, binary header records and the data records. For archiving on CD-ROM, the Vicar labels are detached from the EDR (but kept separately on CD) and the file is renamed so as to conform to the 8.3 DOS file-naming convention. The 8.3 EDR name consists of a 2 character orbit identifier, a single character target identifier, a 3 digit counter and the suffix EDR. For example, the MIPS EDR G1GNGLOBAL01A.1 becomes G1G001.EDR. More information about NIMS EDRs can be found in the VOLINFO.TXT file on the EDR CD-ROM.

NIMS EDR data typically require considerable processing before they are readily amenable to science analysis. Normally, the EDRs are processed into spectral image cubes by one of several sets of software. MIPS systematically processes the EDRs into CUBEs (band sequential image files) and MASKs (spatial/spectral summary images) which are distributed on the NIMS CUBE CD-ROMs. Information about the structure of the NIMS CUBEs can be found in the VOLINFO.TXT file on the CUBE CD-ROM. The name of the CUBE file is derived from the input EDR filename. For archiving on CD-ROM, the CUBE files are renamed so as to conform to the 8.3 DOS file-naming convention. The 8.3 CUBE name consists of a 2 character orbit identifier, a single character target identifier, a 3 digit counter, a single character cube-type identifier, a single character data unit-type (DN, radiance or IOF) and the suffix QUB. For example, the MIPS IOF radiance cube for the observation G1GNGLOBAL01A.1 (G1G001) becomes G1G001CR.EDR. The summary MASKs on the CD-ROM have the same 6 character name as the EDR name with the suffix JPG or GIF to denote its graphics format.

NIMS Data Format - Data types - Data Labels - Data Access

Data Format

All data files have PDS labels. The raw data (EDR) file contains time-sequential, 16 bit integers. Reduced data files (TUBES and CUBES) may be viewed as images or spectra. They contain VAX real numbers, are band sequential (BSQ - the images are stacked in band order) and have geometry information appended as backplanes after the last NIMS band.

Data Types

Mask files contain summary images (3 band BSQ) and spectra of up to six selected regions that provide a quick indication of data location, data quality and spectral content. A Guide to understanding the NIMS mask is available.

Cube files contain data that have been projected and resampled. The core data are BSQ - spatial in the first two dimensions, and spectral in the third. Cubes of the satellites are projected in point-of-view, and, with few exceptions have no photometric correction applied. Cubes of Jupiter are (generally) projected as simple cylindrical. Cubes of Europa, Ganymede, and Callisto have been despiked. The cubes are available both in radiance and I/F (intensity divided by flux) form.

Tube files contain data in (almost) time order and normally have a NIMS-related 20 pixel spatial dimension (20 x n or n x 20). Projection coordinates are contained in backplanes, but the data have not been resampled. The data are in units of radiance and no despiking has been applied. All data in cubes are also available in tube form. Some data (such as spatially undersampled data) appear in tube form only.

A spike file contains a list of pixels that have been identified as spikes, but not replaced, in the tube. Spike files can be used to remove spikes from both tube and EDR files.

EDR files contain the most primitive form of the data available. They should be used only for advanced data analysis. The format is complex and the files do not form images or spectra without prior processing.

Data Labels

A data label (PDS form) is attached to the front of each file (except masks, which have an attached VICAR label and a detached PDS label). The labels are in ASCII keyword=value format and contain pointers to various data objects in the file, descriptions of the data objects and descriptions of the observation associated with the file. A history object in similar format follows and describes the processing steps that produced the file. Much of this information is necessary for understanding and viewing the cube. In particular, the label contains the offset to the cube, the dimensions of the cube, axes labels, and explicit wavelength information.

Data Access

Software for processing this data is called ISIS and is available for DEC VAX VMS, SUN Solaris, DEC Alpha Digital Unix, Silicon Graphics Unix and PC LINUX systems. The Unix versions are available from the USGS Astrogeology team. Images from NIMS cubes and tubes can be viewed with any image display program which allows an offset from the beginning of the file to the selected image. Packages tested include ISIS, VICAR, ENVI, SAO IMAGE, and NASAVIEW. ISIS and ENVI (and soon NASAVIEW) additionally display spectra. The ISIS viewer is named CV (UNIX) or QL3 (VMS).

Labels may be displayed with some editors (eg DOS edit), and with most "type" and "search" functions. Some editors do not recognize the PDS line termination conventions. The label may be listed by the ISIS function LHLIST (VMS) or LABEL (UNIX).

Software for converting EDRs to cubes exist in both ISIS (DEC VAX VMS) and VICAR (DEC Alpha VMS) versions only. A primitive list of values in an EDR may be obtained with the program EDRDMP2.

Understanding the NIMS Mask

The NIMS mask is designed to provide a quick summary of the contents of a NIMS data cube (or tube). It displays a view of both the spatial and spectral content of the data.

The mask has four regions. Starting from the upper left and proceeding clockwise: a spatial display; six or fewer representative spectra; annotation; and a spectral histogram.

The spatial display of an observation which has been projected and resampled (a cube) has a maximum size of 600x600 pixels. This is overlaid with surface coordinates and is embedded in a 700x700 grid of pixel coordinates. It is accompanied by two 1-dimensional histograms describing the raw image and the image stretched for display. The data image can range from a simple combination of up to 3 NIMS bands displayed in the RGB planes, to complicated arithmetic functions of NIMS bands displayed in the RGB planes. (The formulas appear as annotation below the histograms.) The graphics directly below the image show the input and output data histograms for the three color planes. The "shortest" color for each bin displays in front. The image also contains from one to six numbered rectangles, which show the from which averaged spectra (displayed on the right) were taken.

The spatial display of an observation in time sequence (a tube) is a graphic showing a footprint of the observation over a grid of surface coordinates on the target body. Numerals 1-6 on the graphic mark the locations of the average spectra displayed on the right.

The spectra to the right of the image may display either BDRF or radiance (or both). If both are displayed, then a vertical "radiance fence" line will appear where the breakpoint occurs. This permits display of both atmospheric data, which have significant reflectance and thermal components, and I/F satellite surface data which have strong absorptions at longer wavelengths (such as water spectra.) The spectra are labelled with wavelength in microns and location in both pixel and latitude-longitude space.

The annotation provides information about the observation, including its name, a brief description, its geometry, instrument and projection parameters. TCA is the time from Galileo’s closest approach to the target body.

The 2-dimensional spectral histogram in the lower left corner shows the number of pixels at a given radiance for each wavelength. If a surface contains spatial mixtures with significantly different spatial fractions for several components, the spectra of the components will be evident in this display.