NIMS GUIDE TO THE I32 ORBIT

Original: October 2001

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VERSION DATE: 020415

I32 Encounter starts 10/14/01, I32 Playback starts 10/25/01

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 I32 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS I32 observations and calibrations. Also included in this document is background information on the I32 orbit. This guide was produced before the start of the I32 orbit. After analysis of the NIMS I32 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 I32 orbit. Chapter 2 gives an overview of the I32 orbit and summarizes the NIMS science objectives for the I32 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the I32 orbit. Chapter 4 summarizes the NIMS I32 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 I32 orbit.

For more information on the I32 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the I32 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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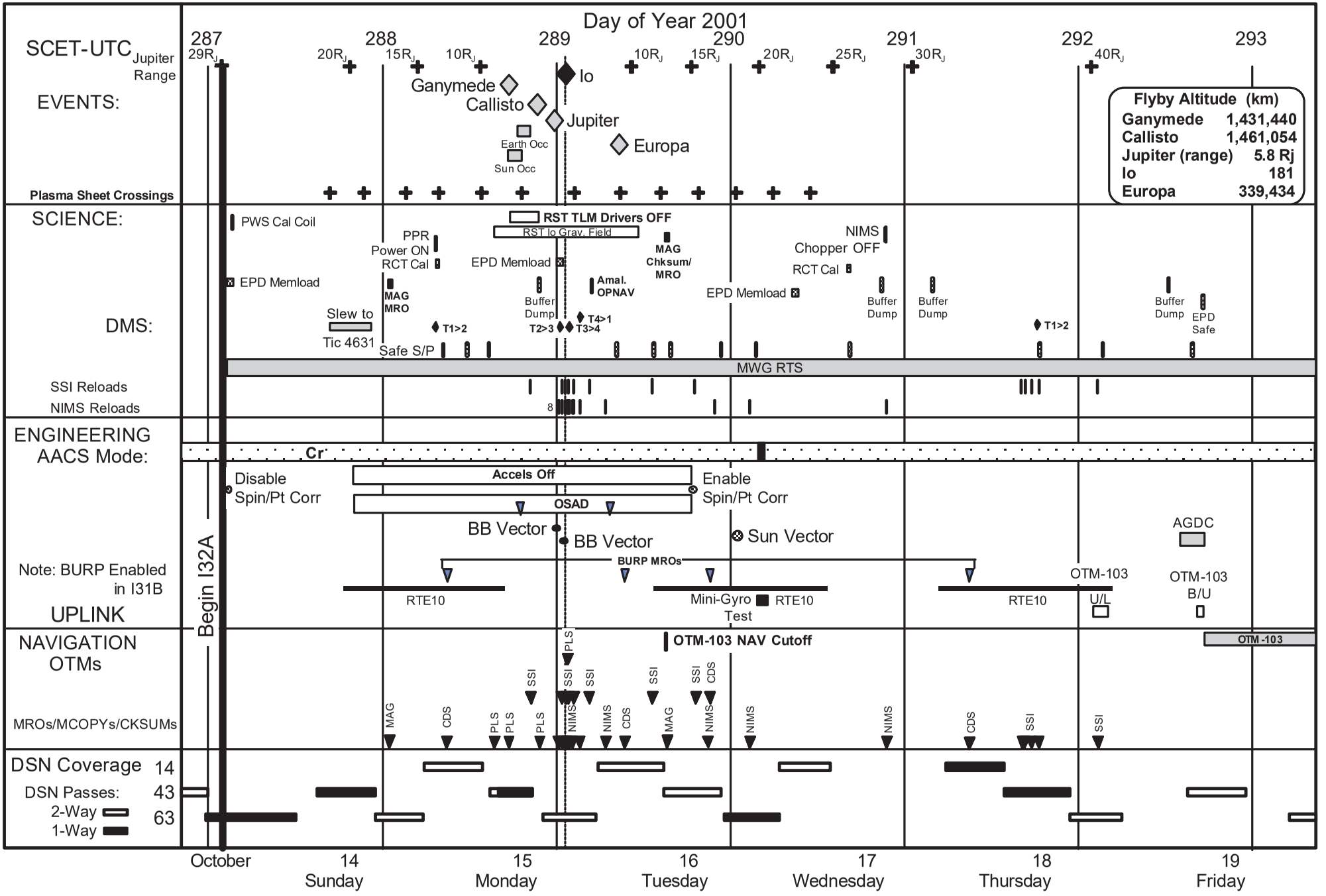
Introduction

This I32 orbit is the thirty-second of thirty-two orbits in Galileo's Tour of the Jovian system and the sixth orbit in the Galileo Millennium Mission (GMM). I32 is an Io Flyby.

There are 14 autonomous reloads of the NIMS RAM code from CDS planned during the I32A 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.

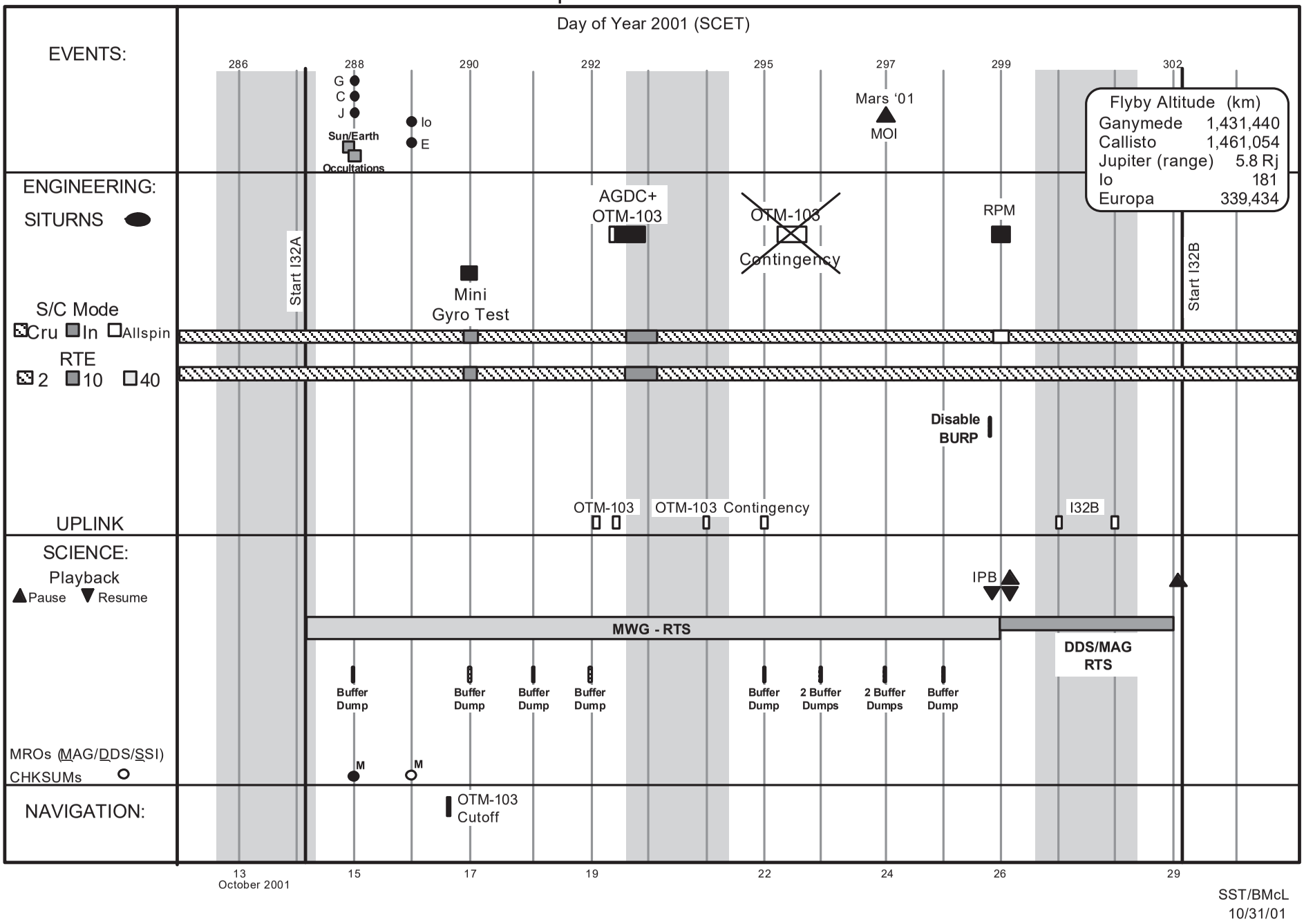
The I32 orbit is divided into 2 sequence loads: one Encounter Load (I32A) and one Orbital Cruise Loads (I32B). The I32A load begins on D287 (10/14/01) and ends on D302 (10/29/01). This load contains a flyby of Io. The Cruise Load runs from D302 to D015 of 2002. Playback of the recorded data takes place during the Cruise phase, I32B. A high-level overview timeline of the I32 orbit can be found on the following four pages.

I32A Encounter Period Overview



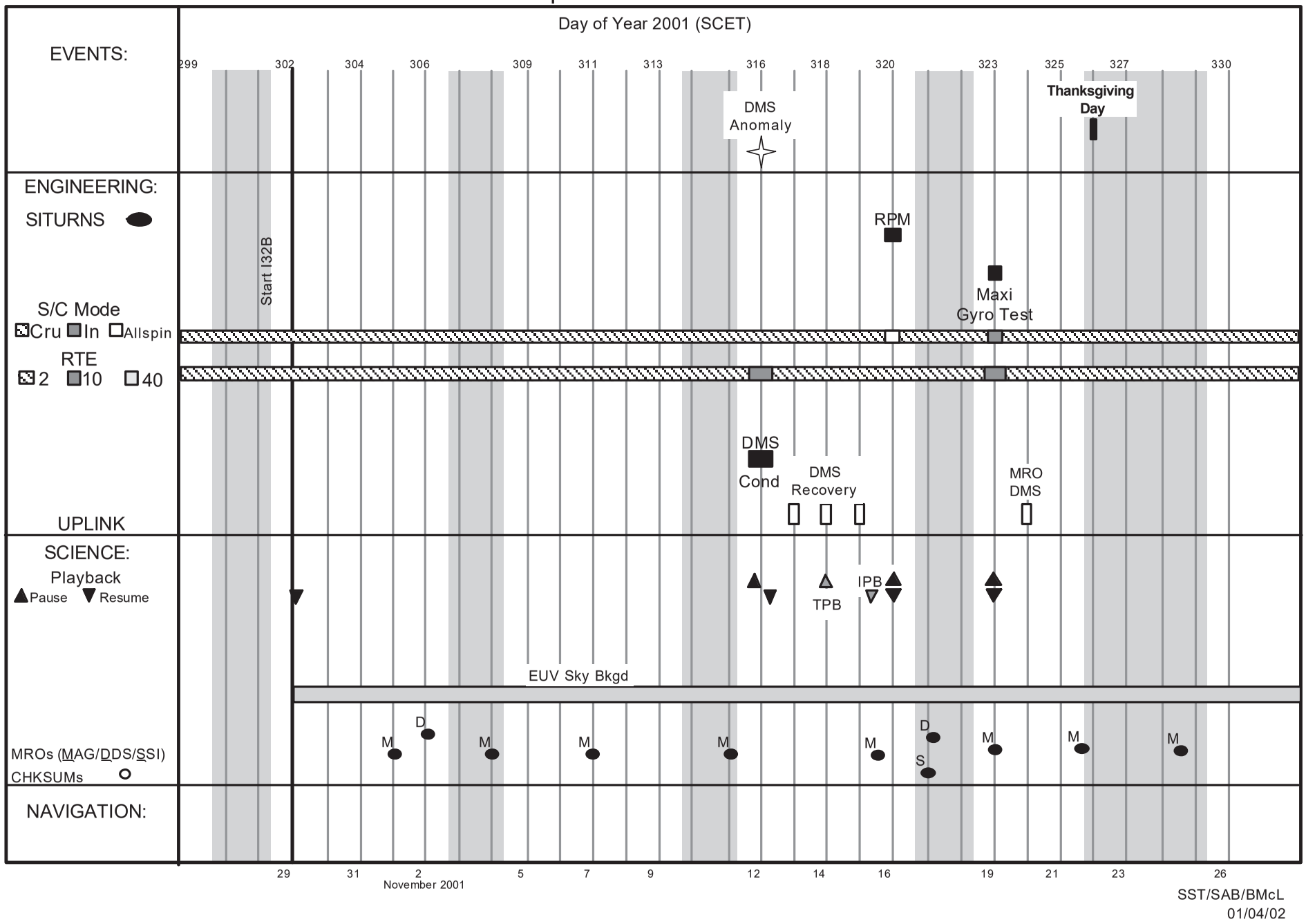
BMcL/SST
09/27/01

I32A Sequence Overview - Part 2



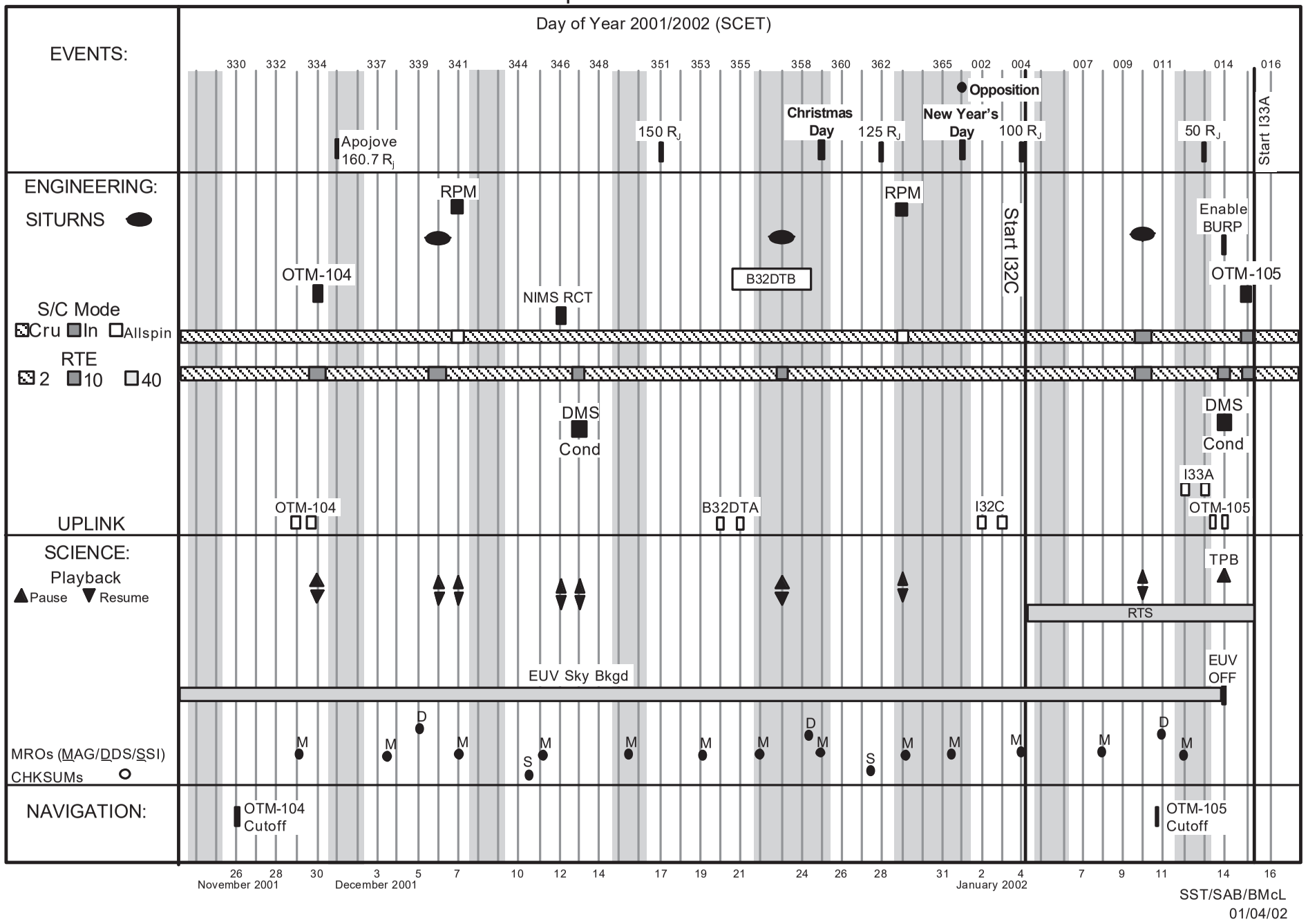
SST/BMcL
10/31/01

I32B Sequence Overview - Part 1



SST/SAB/BMcL
01/04/02

I32B/C Sequence Overview - Part 2



The following table lists the major events during I32, including NIMS Real Time observations, in UTC.

10/14/01	01-287/02:00:00	I32 Encounter Start
10/15/01	01-288/23:57:03	PJ-32 Jupiter Closest Approach
10/16/01	01-289/00:17:20	NIMS RAM Reload 01
10/16/01	01-289/00:47:40	NIMS RAM Reload 02
10/16/01	01-289/01:04:45	NIMS RAM Reload 03
10/16/01	01-289/01:24:10	NIMS RAM Reload 04
10/16/01	01-289/01:24:24	I32 Io Closest Approach
10/16/01	01-289/01:39:20	NIMS RAM Reload 05
10/16/01	01-289/01:55:31	NIMS RAM Reload 06
10/16/01	01-289/02:07:39	NIMS RAM Reload 07
10/16/01	01-289/02:21:48	NIMS RAM Reload 08
10/16/01	01-289/03:04:03	NIMS RAM Reload 09
10/16/01	01-289/06:56:53	NIMS RAM Reload 10
10/16/01	01-289/21:00:09	NIMS RAM Reload 11
10/16/01	01-290/02:43:56	NIMS RAM Reload 12
10/16/01	01-290/21:28:34	NIMS RAM Reload 13
10/25/01	01-299/03:14:17	Start I32 Playback
12/13/01	01-347/03:13:45	NIMS RAM Reload 14
12/13/01	01-347/03:32:20	NIMS R/T RCT CAL
01/14/02	01-286/01:49:13	End I32 Playback

Chapter 2 - Orbit Overview

Contents

Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the I32 Orbit.

The text on page 3 summarizes the NIMS science objectives for I32. The NIMS calibrations are discussed on page 3. Early data return and I32 playback are also discussed on page 3.

The table on page 4 is a time-ordered listing of the NIMS Oapels for I32.

The plot on page 5 shows the geometry of the NIMS I32 observations using a north trajectory pole view projection. The plot on page 6 shows the geometry of the NIMS I32 observations during the Io Flyby using a north trajectory pole view projection. The plot on page 7 shows the geometry of the NIMS I32 calibrations.

The spreadsheet on page 8 summarizes the various inputs for the NIMS I32 Observations. The spreadsheet on pages 9 and 10 summarizes the resource usage for the NIMS I32 observations.

The table on page 11 lists various NIMS I32 observing parameters: target latitude/longitude, range, cone angle, incidence angle light), emission angle view) and phase angle.

The timeline on pages 12 through 16 shows the placement of the I32 observations for all intruments during the I32 Encounter Period.

The tapemap on page 17 shows the placement of the I32 observations on the spacecraft's tape recorder.

The timeline on pages 18 through 31 shows the preliminary I32 playback schedule.

The NIMS I32 mosaic designs are summarized on pages 32 and 33 in time-order.

NIMS I32 SCIENCE OVERVIEW

Jupiter Science

There are two Jupiter observations in I32, both recorded. These two observations are Jupiter global maps (JNGLOBAL). The mosaics were centered at 170 degrees and 10 degrees W. longitude to center the northern and southern auroras in each of the global maps.

Io Science

The I32 Io sequence design is similar to that used in I31 in response to the loss of spectral capability due to the stuck grating. The NIMS observations are mostly mapping instead of sit-and-stare spectrum building observations. NIMS and SSI did collaborate on some targets, and some ride-along behind SSI will be returned.

32INTHPELE01 - nightside swath across the Pele vent region.
32INTHLOKI01 - high resolution nightside obs. of the Loki calder region.
32INTHPELE02 - high resolution nightside obs of the Pele vent region.
32INTHERML01 - high resolution dayside obs of south polar region.
32INEMAKNG01 - dayside swath across the Emakong caldera.
32INITUPAN01 - dayside swath across the Tupan caldera.
32INICHAAC01 - dayside swath across the region including Chaac caldera.
32INHTSPOT01 - dayside two-across the region of the new I31 hotspot.
32INREGION01 - dayside seven-swath regional map, pole to pole.
32INREGION02 - dayside three-swath global map, pole to pole.

Europa Science

There are no Europa observations in I32.

Ganymede Science

There are no Ganymede observations in I32.

Callisto Science

There are no Callisto observations in I32.

Calibration

There is one NIMS calibration observation planned for I32: an RCT cal.

Early Data Return

There is one realtime observations in I32, the RCT calibration.

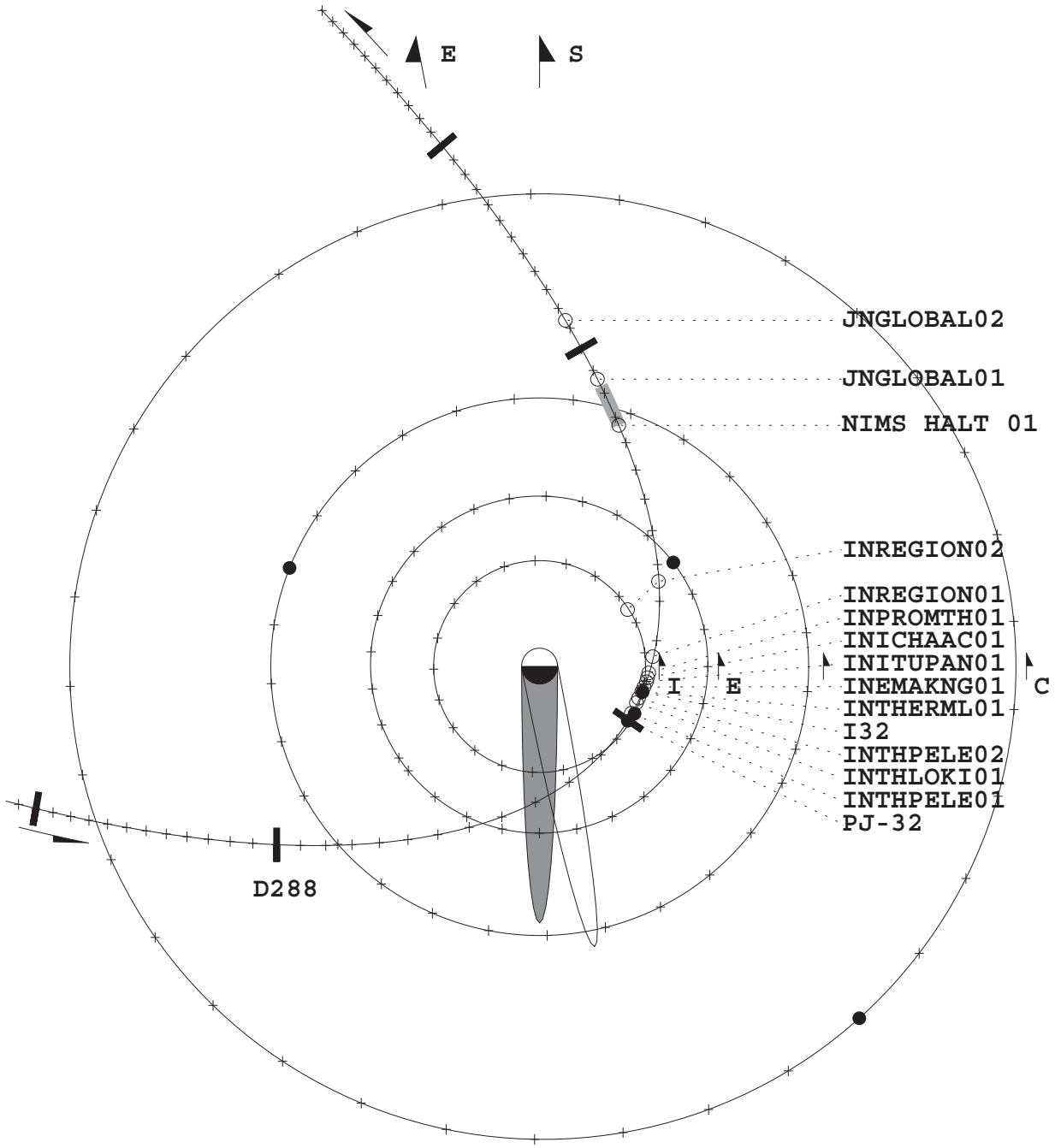
I32 Playback

I32 playback is split into two passes through the tape.

I32 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
32INTHPELE01	01-289/00:21:12	01-289/00:26:16	0/00:05:03
32INTHLOKI01	01-289/00:53:34	01-289/01:04:41	0/00:11:07
32INTHPELE02	01-289/01:07:43	01-289/01:14:48	0/00:07:04
32INTHERML01	01-289/01:27:56	01-289/01:31:59	0/00:04:02
32INEMAKNG01	01-289/01:41:05	01-289/01:52:12	0/00:11:07
32INITUPAN01	01-289/01:57:16	01-289/02:07:22	0/00:10:06
32INICHAAC01	01-289/02:09:24	01-289/02:19:30	0/00:10:06
32INHTSPOT01	01-289/02:23:33	01-289/02:36:42	0/00:13:08
32INREGION01	01-289/03:11:04	01-289/04:14:46	0/01:03:42
32INREGION02	01-289/07:03:38	01-289/07:37:00	0/00:33:22
32JNGLOBAL01	01-289/21:12:58	01-289/21:58:28	0/00:45:30
32JNGLOBAL02	01-290/02:46:38	01-290/03:32:08	0/00:45:30

NIMS I32 OBSERVATIONS



Time Ticks (Relative to PJ32)

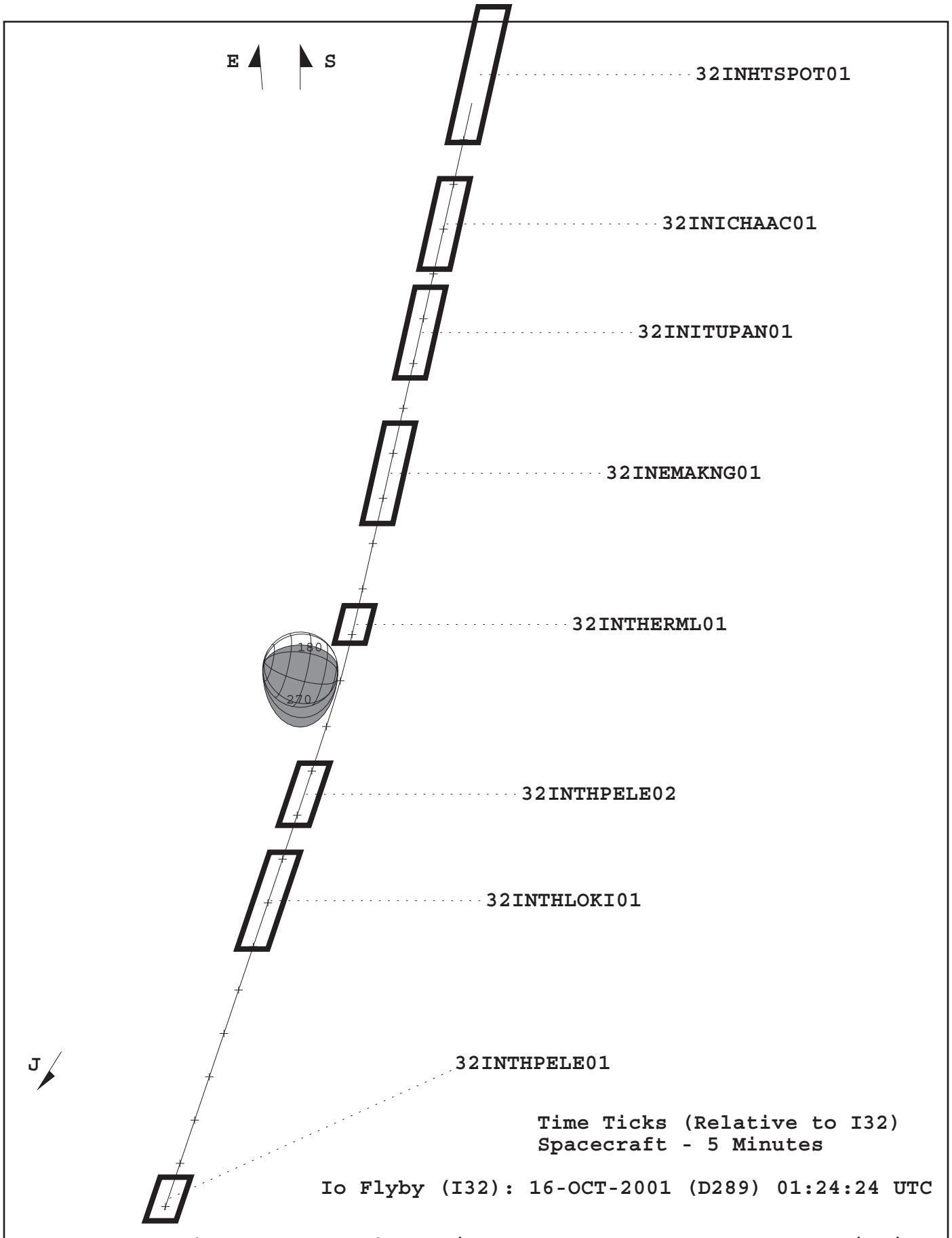
Io -	2 Hrs
Europa -	3 Hrs
Ganymede -	6 Hrs
Callisto -	12 Hrs
Spacecraft -	2 Hrs

Io Flyby (I32): 16-OCT-2001 (D289) 01:24:24 UTC
Perijove (PJ32): 15-OCT-2001 (D288) 23:57:03 UTC

I32 North Trajectory Pole View

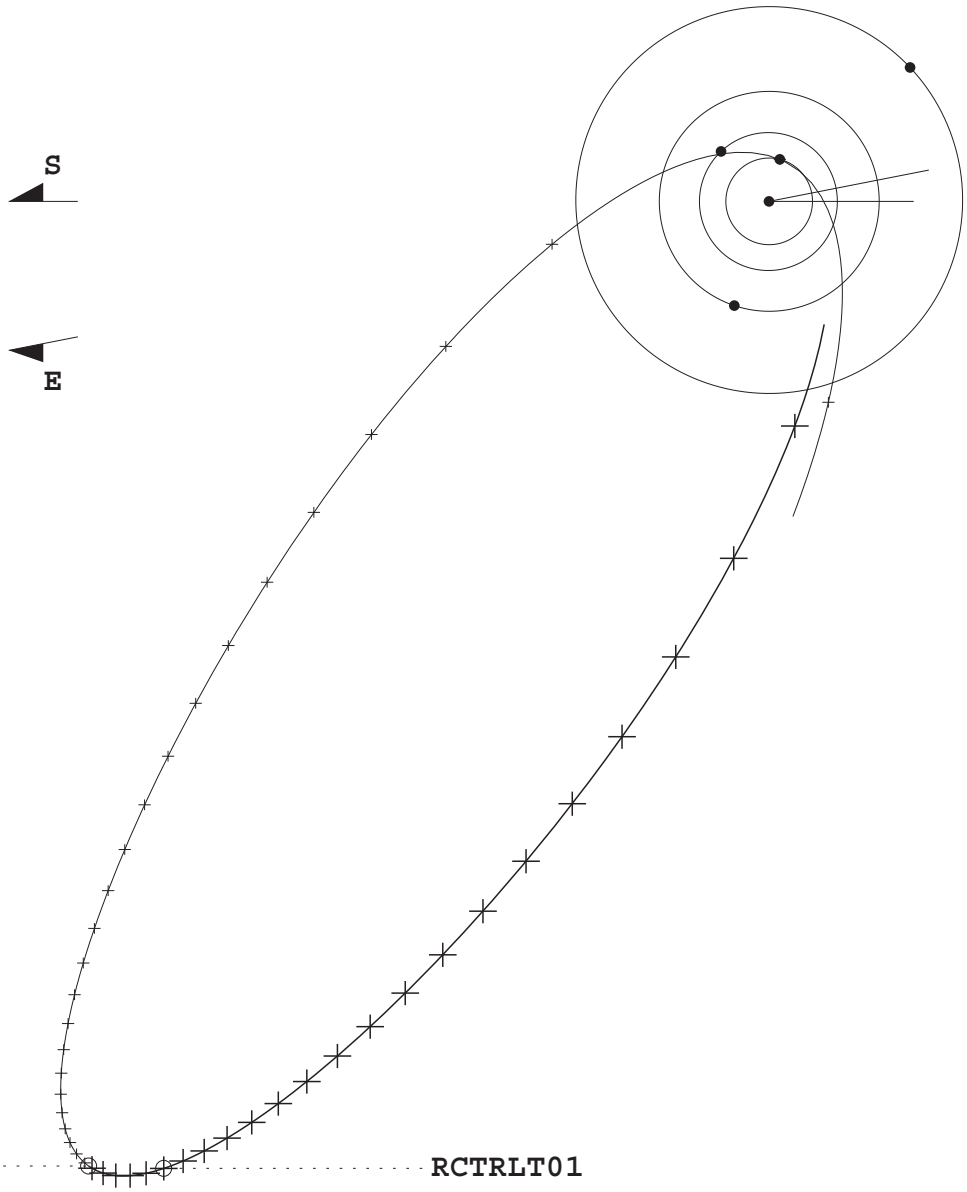
NIMS - FEL - 10/16/01

NIMS I32 IO FLYBY OBSERVATIONS



I32 North Trajectory Pole View, +/- 1 Hour NIMS - FEL - 10/02/01

NIMS I32 CALIBRATIONS



Time Ticks (Relative to I32)
Spacecraft - 2 Days

Io Flyby (I32): 16-OCT-2001 (D289) 01:24:24 UTC
Perijove (PJ32): 15-OCT-2001 (D288) 23:57:03 UTC
Apojove (A33): 01-DEC-2001 (D335) 21:36:02 UTC

I32 North Trajectory Pole View

NIMS - FEL - 10/31/01

I32 INPUTS

Activity ID	Obervation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
32INTHPELE01	Io Pele Map 01	I32ILM442	I32ILM144 A, B	LM	1	0	4	MPW	DA
32INTHLOKI01	Io Loki Map	I32ILM442	I32ILM144 A, B	LM	1	0	4	MPW	DB
32INTHPELE02	Io Pele Map 02	I32ILM442	I32ILM144 A, B	LM	1	0	4	MPW	DC
32INTHERML01	Io Thermal Map	I32ILM442	I32ILM144 A, B	LM	2	0	4	MPW	DD
32INEMAKNG01	Io Emakong Obs	I32ILM442	I32ILM144 A, B	LM	2	0	4	MPW	DE
32INITUPAN01	Io Tupan Obs	I32ILM442	I32ILM144 A, B	LM	2	0	4	MPW	DF
32INICHAAC01	Io Chaac Obs	I32ILM442	I32ILM144 A, B	LM	2	0	4	MPW	DG
32INHTSPOT01	Io Hot Spot Obs	I32ILM442	I32ILM144 A, B	LM	2	0	4	MPW	DH
32INREGION01	Io Regional Map 01	I32IFMFG120	I32IFMFG 36, 24	LM	2	0	4	LPU	DI
32INREGION02	Io Regional Map 02	I32ILMFG252	I32ILMFG72 A, B	LM	2	0	4	LPU	DJ
32JNGLOBAL01	Jupiter Global Obs 01	I32JXM10	I32JXMFG7	XM	2	0	4	LPU	DK
32JNGLOBAL02	Jupiter Global Obs 02	I32JXM10	I32JXMFG7	XM	2	0	4	LPU	DL

I32 RESOURCES

Activity ID	Mode	Record Format	Obs. Cost (tracks)	Obs. Cost (ticks)	Number Wavelengths Returned	Obs Record Time (sec.)	Obs PB Time (sec.	Selected Bits to Tape sBOT (MBITS)	Bits to Tape BOT (Mbit)	Mode Cycle time (sec)
32INTHPELE01	LM	MPW	0.0371	216	144	243	239	2.75	2.80	8.667
32INTHLOKI01	LM	MPW	0.0926	540	144	611	606	6.98	7.04	8.667
32INTHPELE02	LM	MPW	0.0547	319	144	360	356	4.10	4.15	8.667
32INTHERML01	LM	MPW	0.0285	166	144	186	182	2.10	2.14	8.667
32INEMAKNG01	LM	MPW	0.0659	384	144	434	430	4.95	5.00	8.667
32INITUPAN01	LM	MPW	0.0834	486	144	550	545	6.28	6.34	8.667
32INICHAAC01	LM	MPW	0.0846	493	144	558	553	6.37	6.43	8.667
32INHTSPOT01	LM	MPW	0.1108	646	144	732	728	8.39	8.43	8.667
32INREGION01	FM	LPU	0.1563	911	36	3876	3870	23.87	23.91	4.333
32INREGION02	LM	LPU	0.0785	457	72	1943	1935	11.94	11.98	8.667
32JNGLOBAL01	XM	LPU	0.0950	554	7	2354	1459	9.00	14.52	0.333
32JNGLOBAL02	XM	LPU	0.0864	504	7	2140	1269	7.83	13.20	0.333
32INTHPELE01	LM	MPW	0.0371	216	144	243	239	2.75	2.80	8.667
32INTHLOKI01	LM	MPW	0.0926	540	144	611	606	6.98	7.04	8.667
32INTHPELE02	LM	MPW	0.0547	319	144	360	356	4.10	4.15	8.667
32INTHERML01	LM	MPW	0.0285	166	144	186	182	2.10	2.14	8.667
32INEMAKNG01	LM	MPW	0.0659	384	144	434	430	4.95	5.00	8.667
32INITUPAN01	LM	MPW	0.0834	486	144	550	545	6.28	6.34	8.667
32INICHAAC01	LM	MPW	0.0846	493	144	558	553	6.37	6.43	8.667
32INHTSPOT01	LM	MPW	0.1108	646	144	732	728	8.39	8.43	8.667
32INREGION01	FM	LPU	0.1563	911	24	3876	3870	23.87	23.91	4.333
32INREGION02	LM	LPU	0.0785	457	72	1943	1935	11.94	11.98	8.667
32JNGLOBAL01	XM	LPU	0.0950	554	7	2354	887	5.47	14.52	0.333
32JNGLOBAL02	XM	LPU	0.0864	504	7	2140	857	5.29	13.20	0.333

I32 RESOURCES

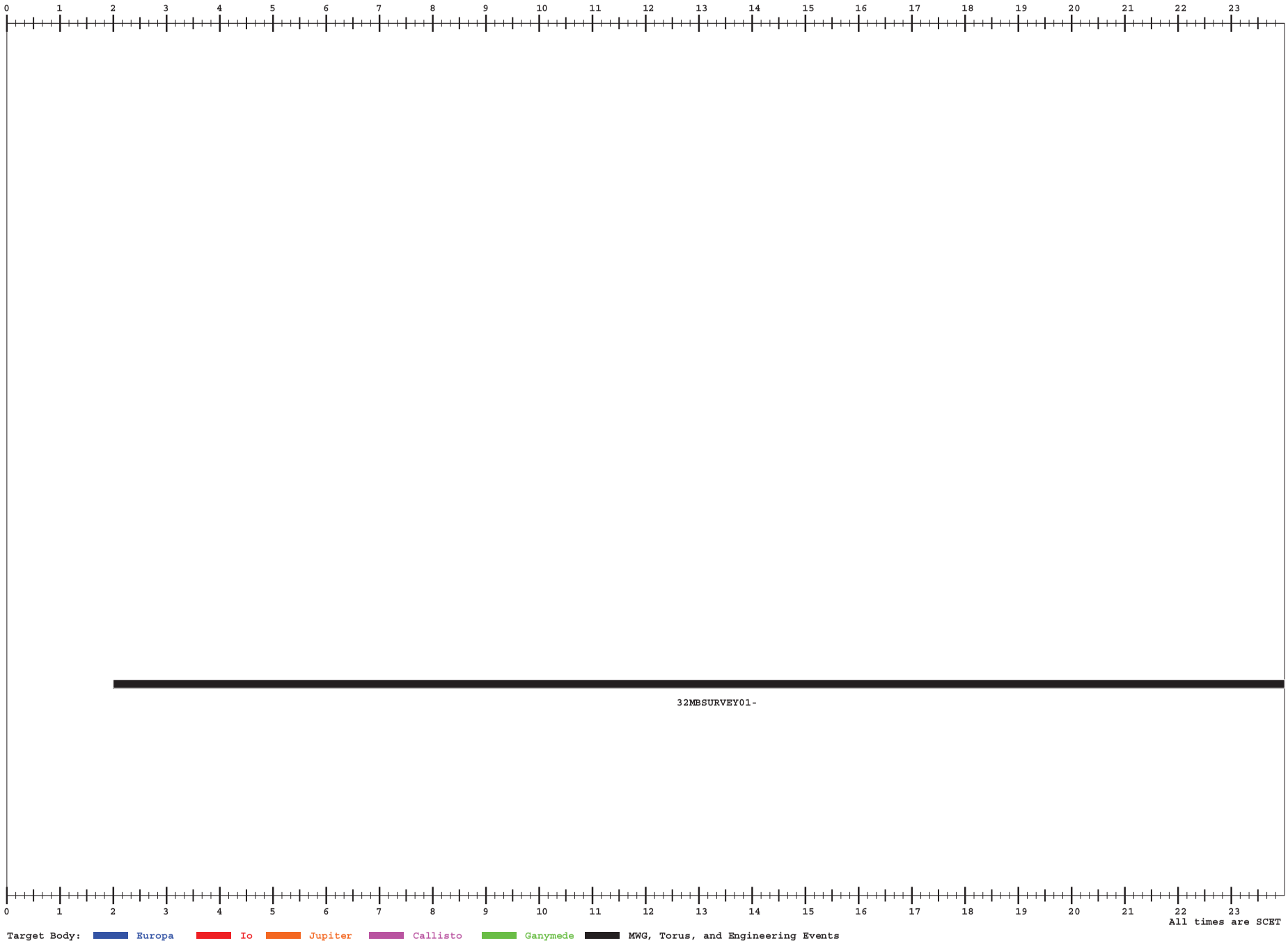
Activity ID	AACS Mbits c 2.5	Comp	Thold	RT BTG	Total BTG (Mbits) (w/4% o'head)	Data Reduction Factor (sBOT/BTG)	Pass
32INTHPELE01	0.01	1.25			0.661	4.17	2
32INTHLOKI01	0.03	1.25			1.675	4.17	2
32INTHPELE02	0.02	1.2			1.025	4.00	2
32INTHERML01	0.01	1.2			0.524	4.00	2
32INEMAKNG01	0.02	1.2			1.238	4.00	2
32INITUPAN01	0.03	1.2			1.570	4.00	2
32INICHAAC01	0.03	1.2			1.593	4.00	2
32INHTSPOT01	0.04	1.2			2.097	4.00	2
32INREGION01	0.22	1.25			5.350	4.46	2
32INREGION02	0.11	1.25			2.675	4.46	2
32JNGLOBAL01	0.08	1.4			4.557	1.97	2
32JNGLOBAL02	0.07	1.6			3.468	2.26	2
32INTHPELE01	0.01	1.25			0.661	4.17	3
32INTHLOKI01	0.03	1.25			1.675	4.17	3
32INTHPELE02	0.02	1.2			1.025	4.00	3
32INTHERML01	0.01	1.2			0.524	4.00	3
32INEMAKNG01	0.02	1.2			1.238	4.00	3
32INITUPAN01	0.03	1.2			1.570	4.00	3
32INICHAAC01	0.03	1.2			1.593	4.00	3
32INHTSPOT01	0.04	1.2			2.097	4.00	3
32INREGION01	0.22	1.25			3.567	6.69	3
32INREGION02	0.11	1.25			2.675	4.46	3
32JNGLOBAL01	0.05	1.4			2.770	1.97	3
32JNGLOBAL02	0.05	1.6			2.342	2.26	3
					48.169 TOTAL		
					47.338 ALLOCATION		
					0.831 OVER/UNDER		

NIMS I32 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
32INTHPELE01	-23 to -13	252 to 260	24K	55	160 to 163	38 to 46	135
32INTHLOKI01	9 to 13	307 to 313	7 to 11K	49	119 to 124	22 to 32	142
32INTHPELE02	-19 to -17	254 to 257	3 to 6K	61 to 69	163 to 164	50 to 53	120 to 128
32INTHERML01	-82 to -78	127 to 130	2 to 4K	120	85 to 86	73 to 76	48 to 52
32INEMAKNG01	-5 to -2	116 to 121	6 to 11K	123	36 to 42	11 to 14	47 to 49
32INITUPAN01	-21 to -15	137 to 146	14 to 18K	128	57 to 67	17 to 26	43
32INICHAAC01	9 to 17	137 to 163	19 to 24K	128	55 to 78	23 to 42	43
32INHTSPOT01	31 to 52	126 to 141	26 to 31K	126	53 to 66	47 to 57	44
32INREGION01	-90 to +90	47 to 193	48 to 78K	123 to 127	4 to 97	4 to 90	43
32INREGION02	-90 to +90	86 to 267	165 to 186K	120	1 to 139	2 to 90	49
32JNGLOBAL01	-90 to +90	75 to 255	1150K	154 to 163	0 to 98	1 to 92	8
32JNGLOBAL02	-90 to +90	270 to 90	1360K	162 to 169	2 to 92	2 to 91	2

GEM: I32

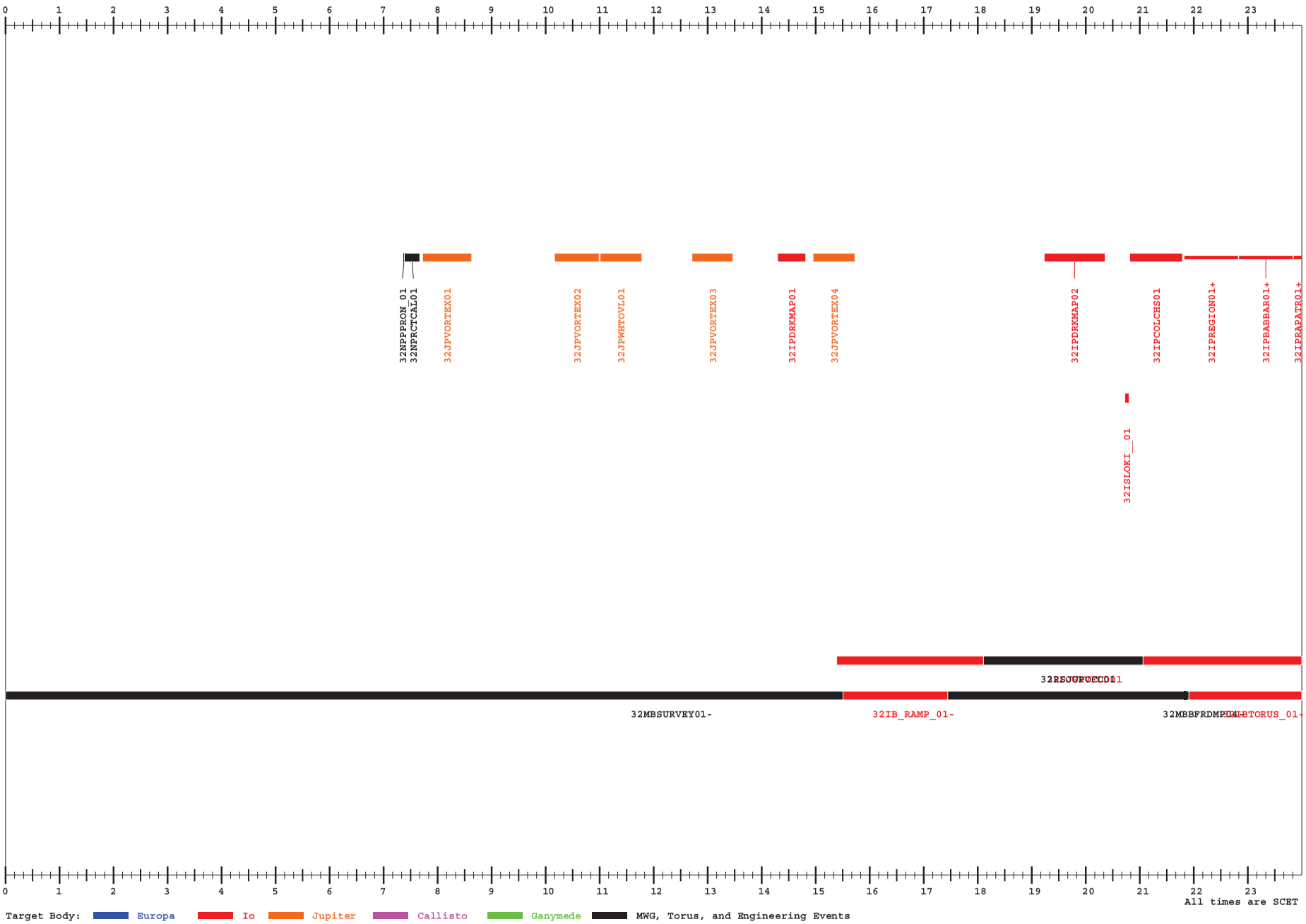
I32 ENCOUNTER
Plot Time: 01-287/00:00:00.000 to 01-288/00:00:00.000
Date of Plot: 26-Sep-101 13:59:34



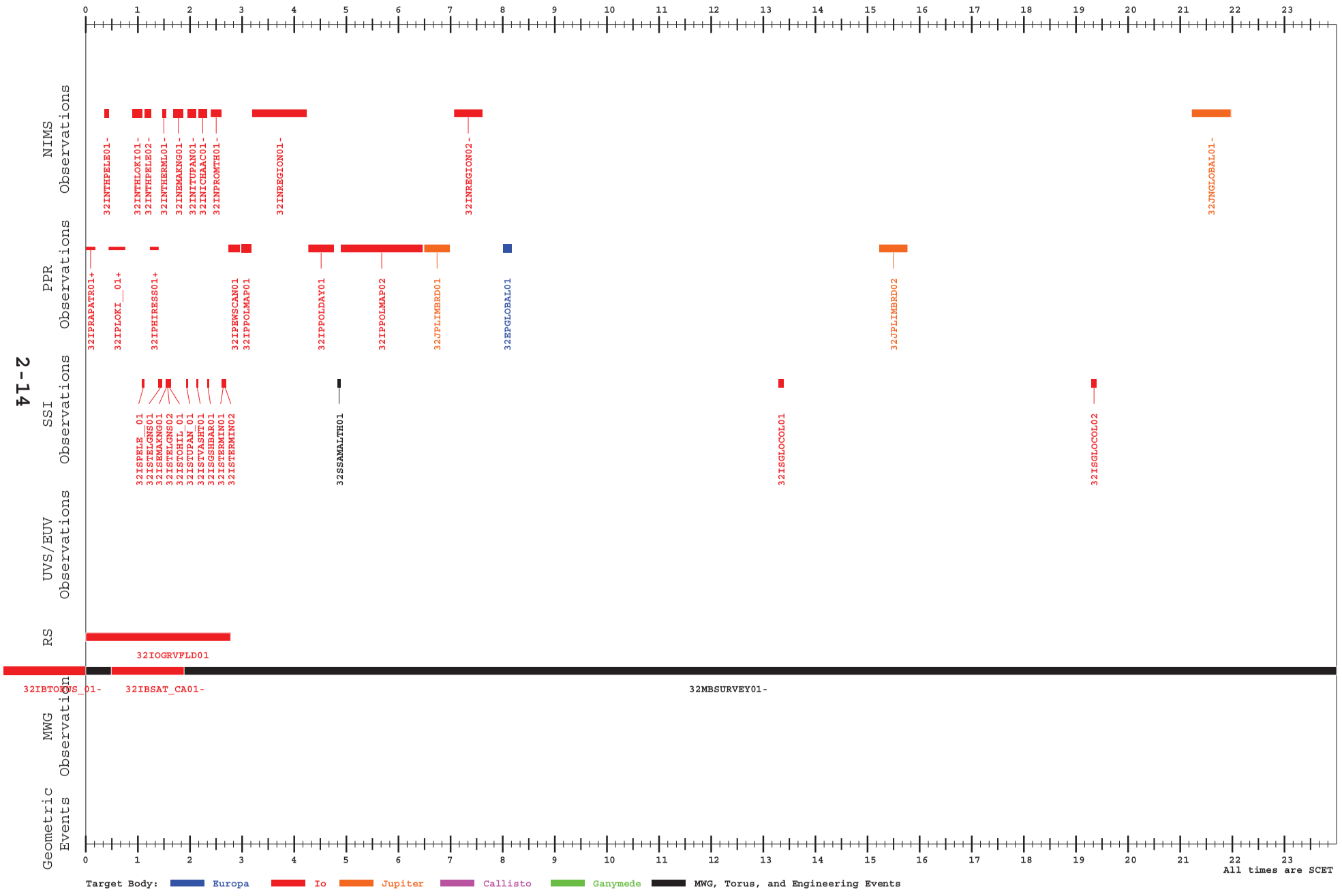
Target Body: Europa Io Jupiter Callisto Ganymede MWG, Torus, and Engineering Events

GEM: I32

I32 ENCOUNTER
Plot Time: 01-288/00:00:00.000 to 01-289/00:00:00.000
Date of Plot: 26-Sep-101 13:59:34



GEM: I32


I32 ENCOUNTER
Plot Time: 01-289/00:00:00.000 to 01-290/00:00:00.000
Date of Plot: 26-Sep-101 13:59:35
NIMS Observations
PPR Observations
SSI Observations
UVS/EUV Observations
RS Observations
MWG Observations
Geometric Events
32INTHPELE01-
32INTHLOKI01-
32INTHPELE02-
32INTHERML01-
32INEMAKNG01-
32INITUPAN01-
32INICHAAC01-
32INPROMTH01-
32INREGION01-
32INREGION02-
32JNGLOBAL01-
32IPRAPATR01+
32IPLOKI__01+
32IPHIRESS01+
32IPEWSCAN01
32IPPOLMAP01
32IPPOLDAY01
32IPPOLMAP02
32JPLIMBRD01
32EPGLOBAL01
32JPLIMBRD02
32ISPELE__01
32ISTELGNS01
32ISEMAKNG01
32ISTELGNS02
32ISTOHIL_01
32ISTUPAN_01
32ISTVASHT01
32ISGSHBAR01
32ISTERMIN01
32ISTERMIN02
32SSAMALTH01
32ISGLOCOL01
32ISGLOCOL02
32IOGRVFLD01
32IBTOURS_01-
32IBSAT_CA01-
32MBSURVEY01-
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
All times are SCET
Target Body: Europa Io Jupiter Callisto Ganymede MWG, Torus, and Engineering Events

GEM: I32

I32 ENCOUNTER
Plot Time: 01-290/00:00:00.000 to 01-291/00:00:00.000
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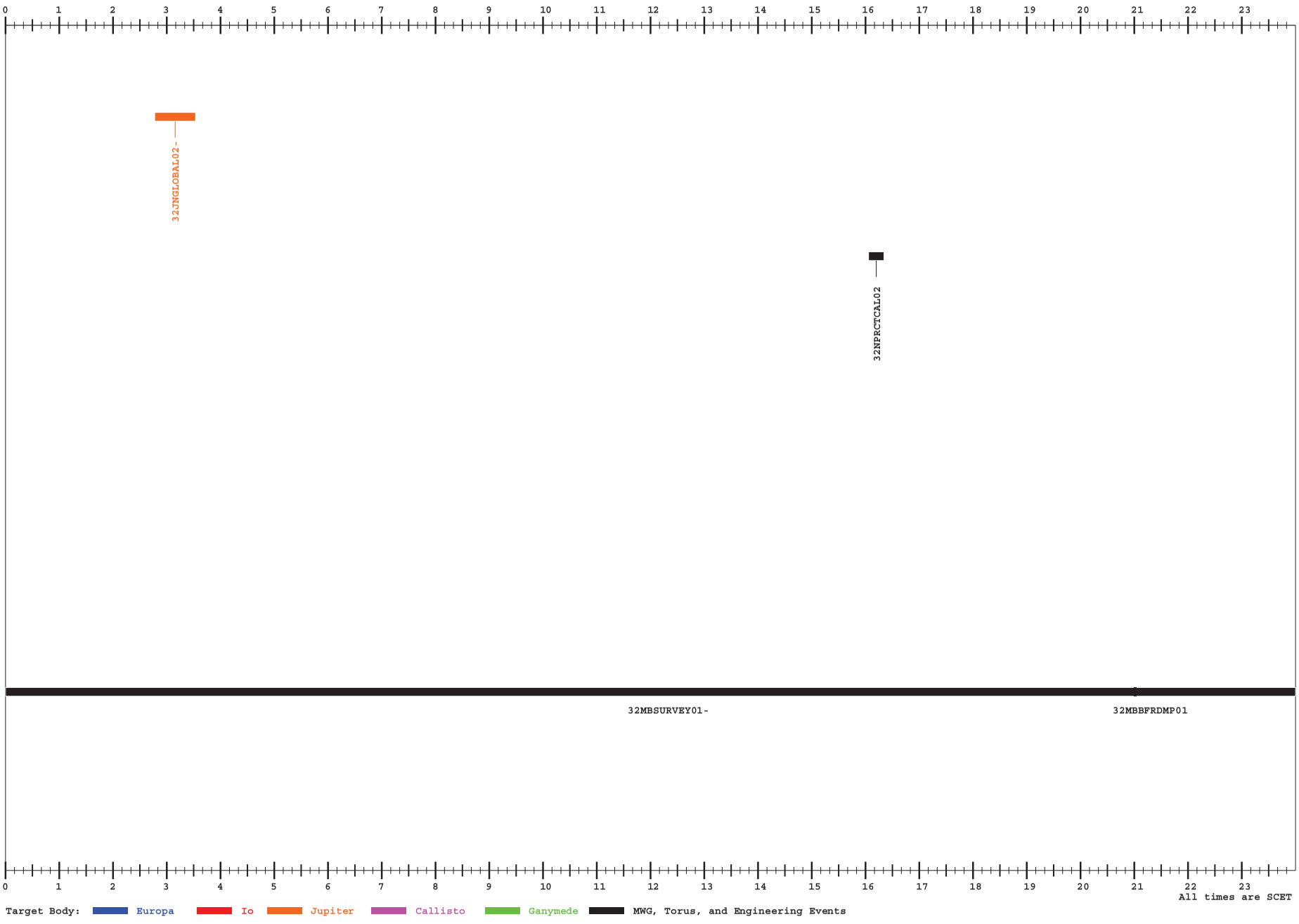

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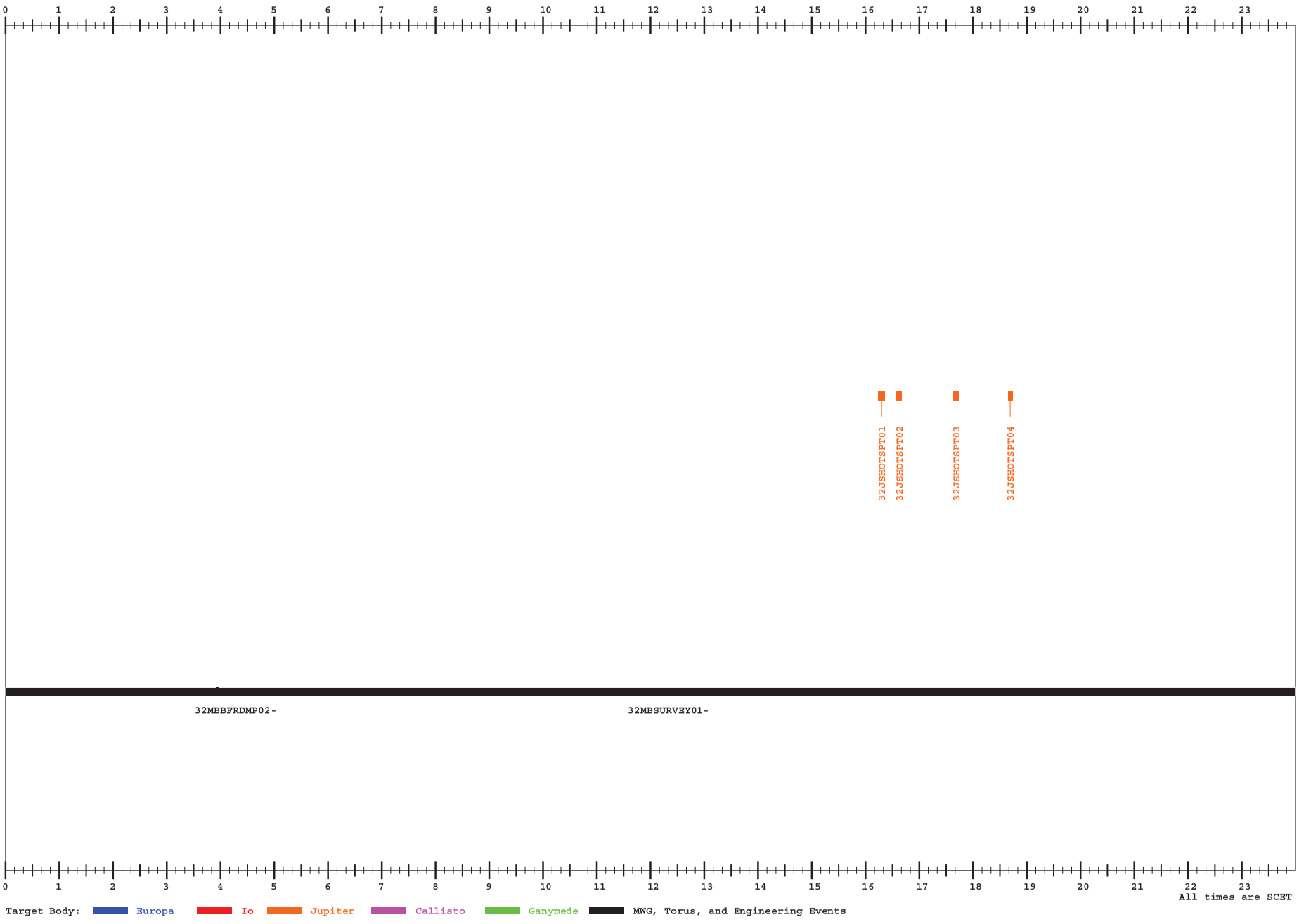

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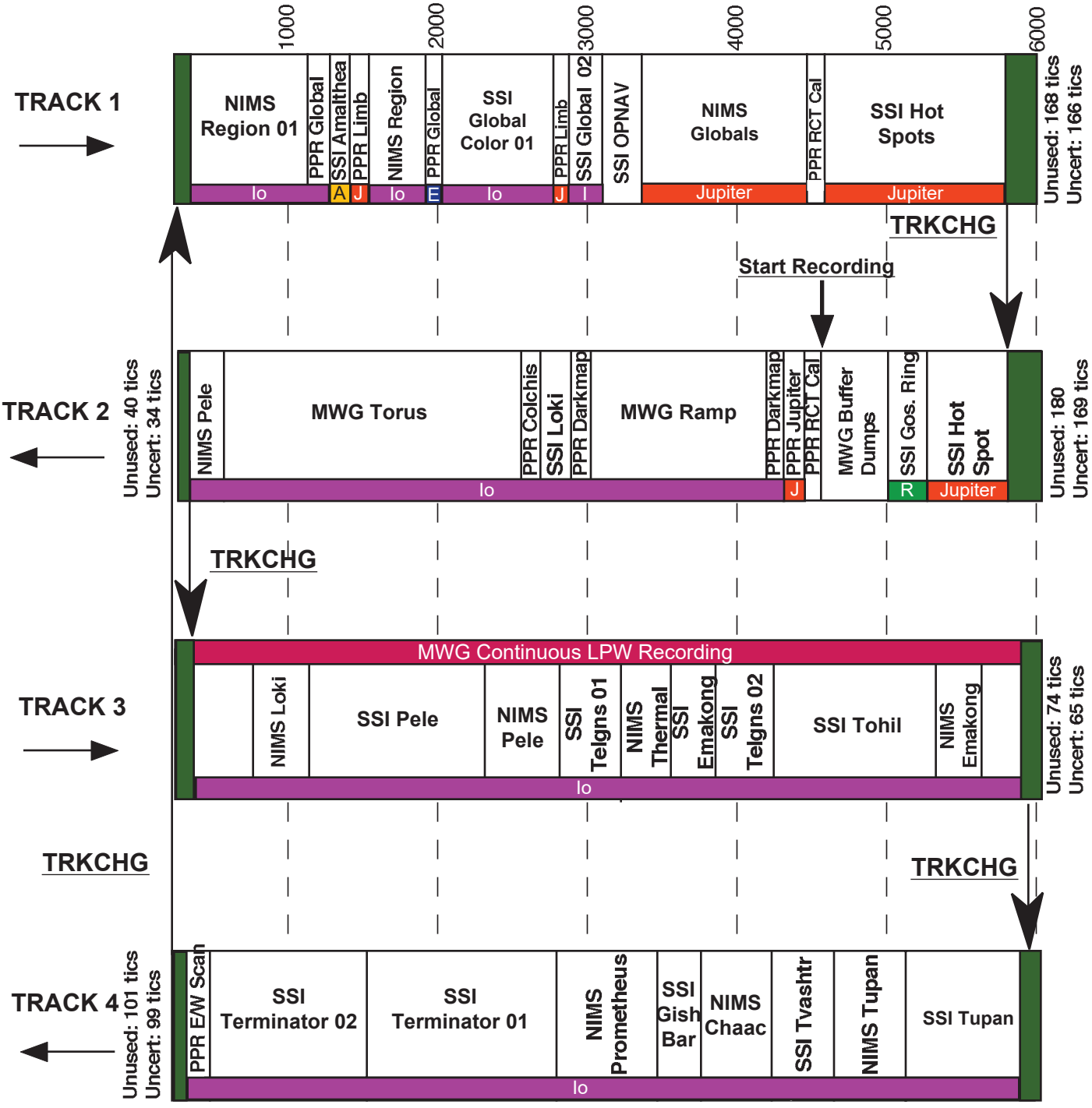

L. Barnard, 09/21/01

I32PBA

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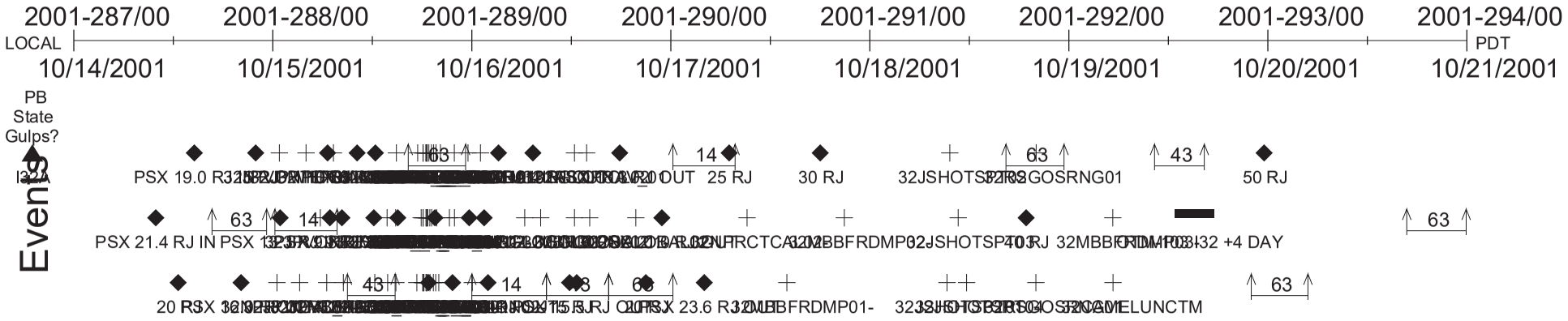

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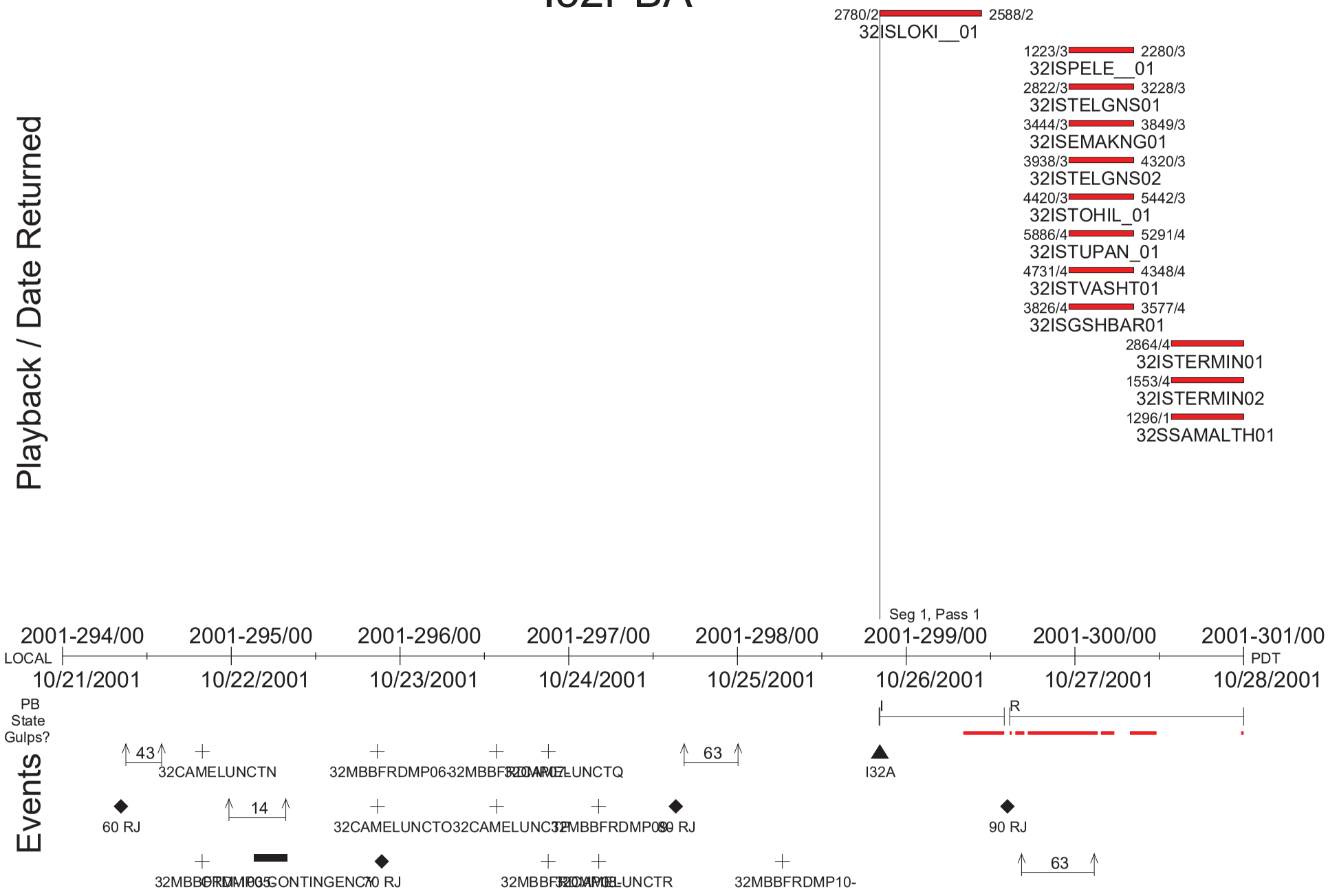
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3849/3
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3938/3
4320/3
32ISTELGNS02
4420/3
5442/3
32ISTOHIL_01
5886/4
5291/4
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4731/4
4348/4
32ISTVASHT01
3826/4
3577/4
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2864/4
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1553/4
32ISTERMIN02
1296/1
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10/27/2001
10/28/2001
PB
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60 RJ
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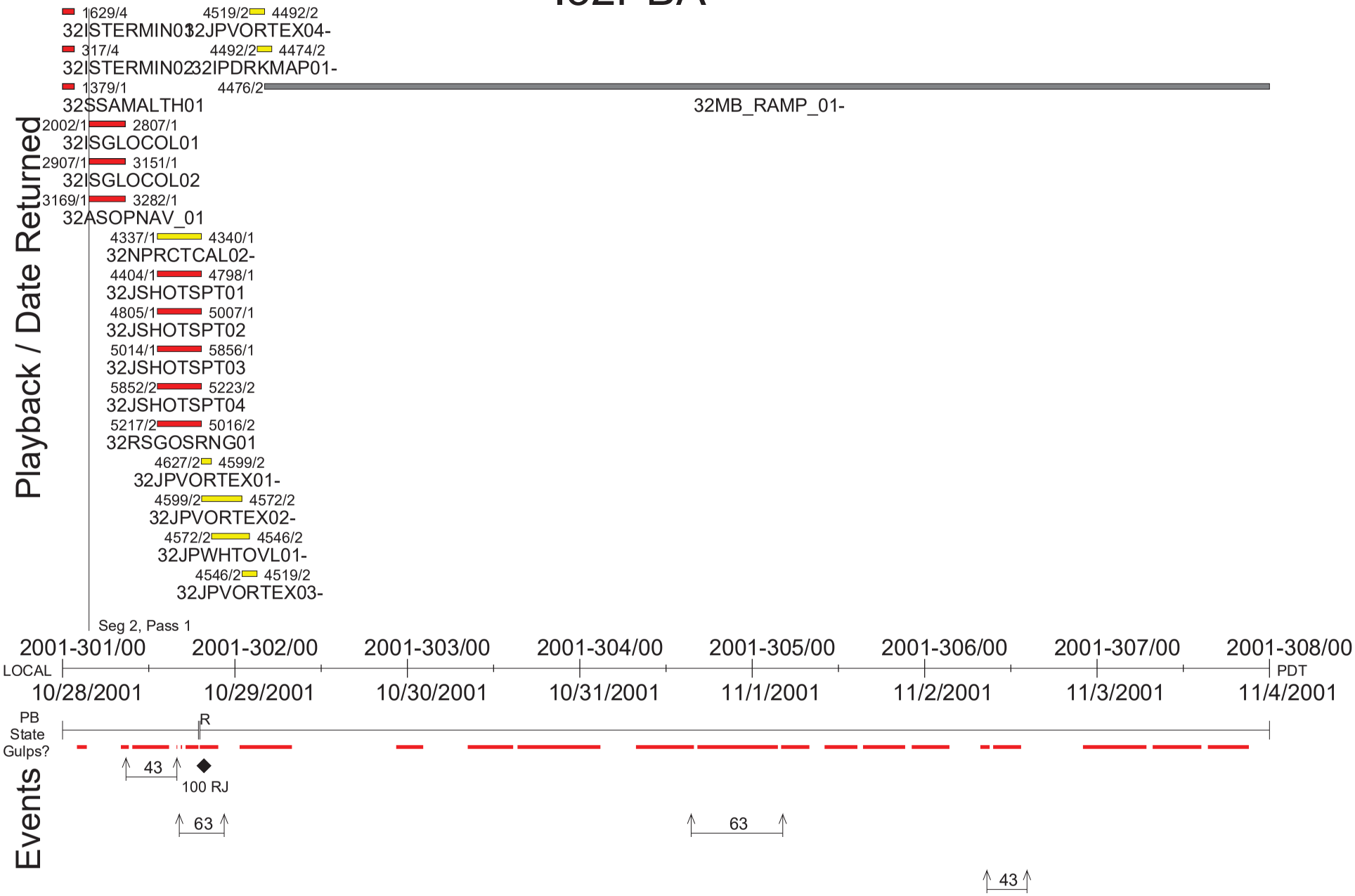
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5016/2
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4627/2
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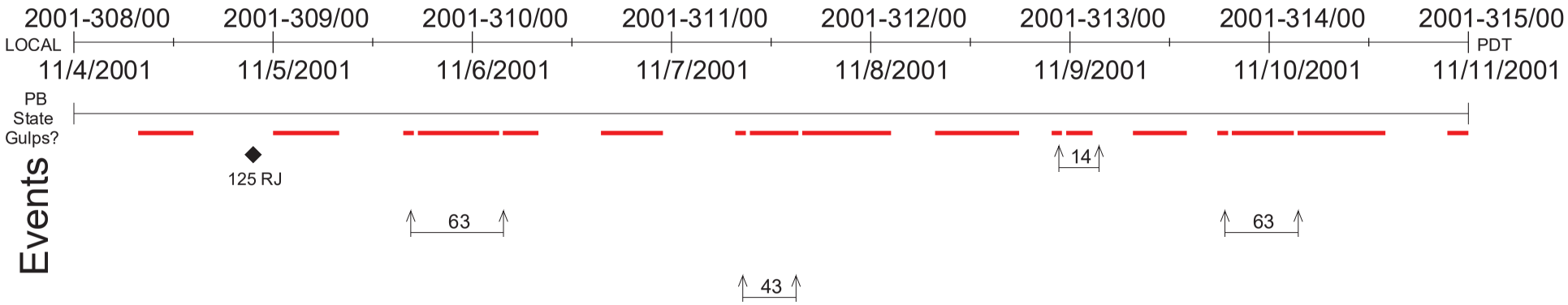

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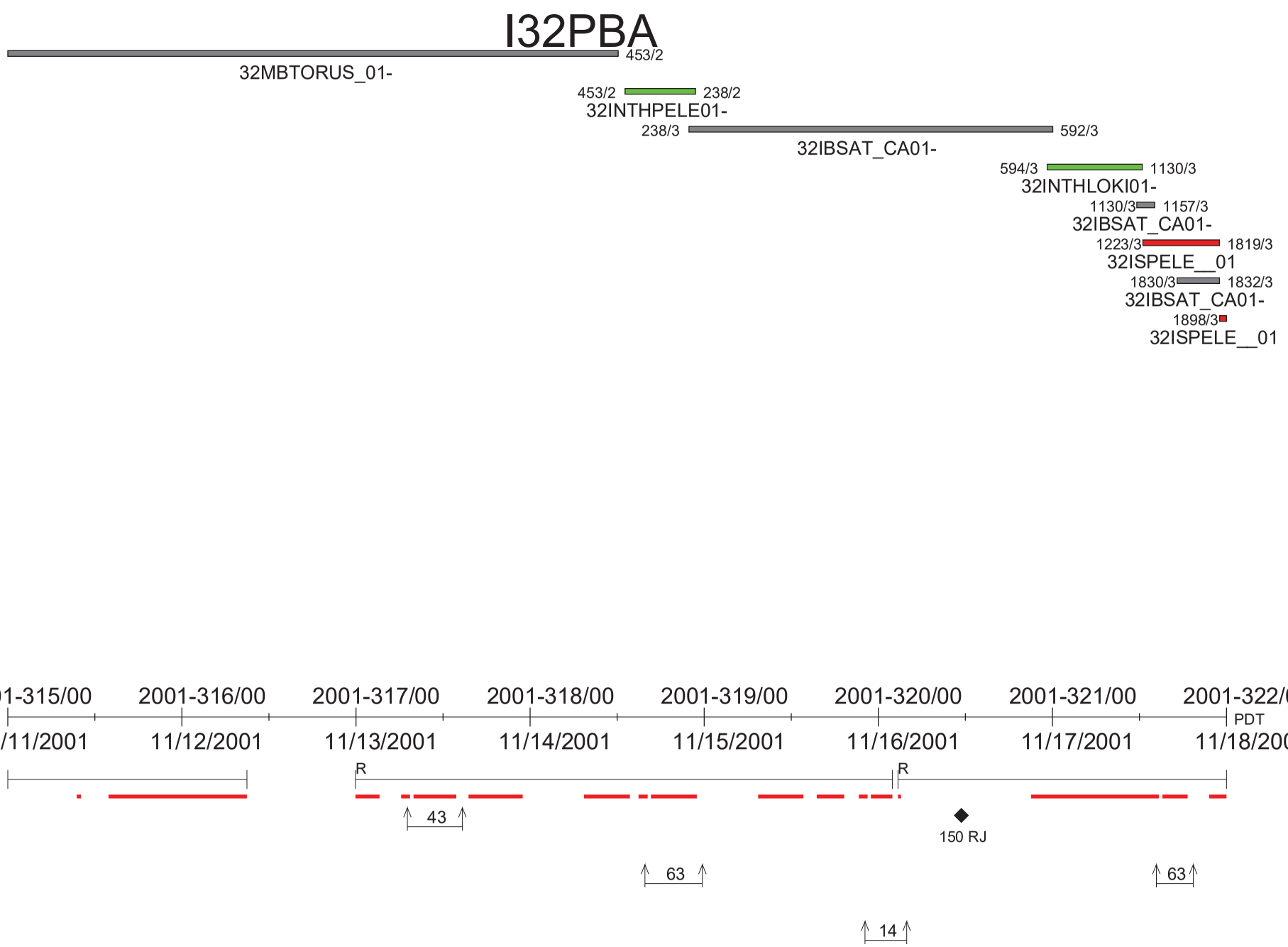
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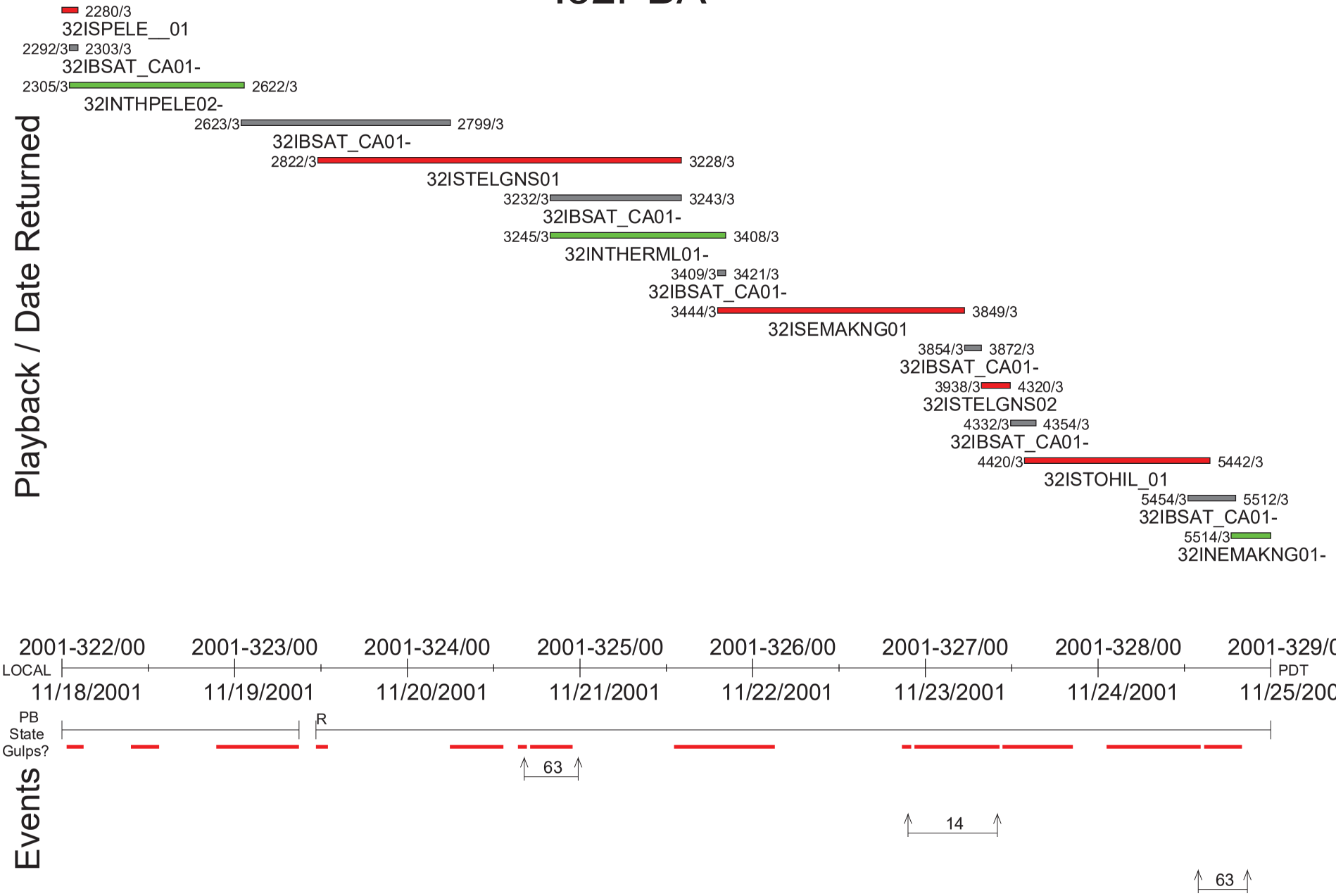
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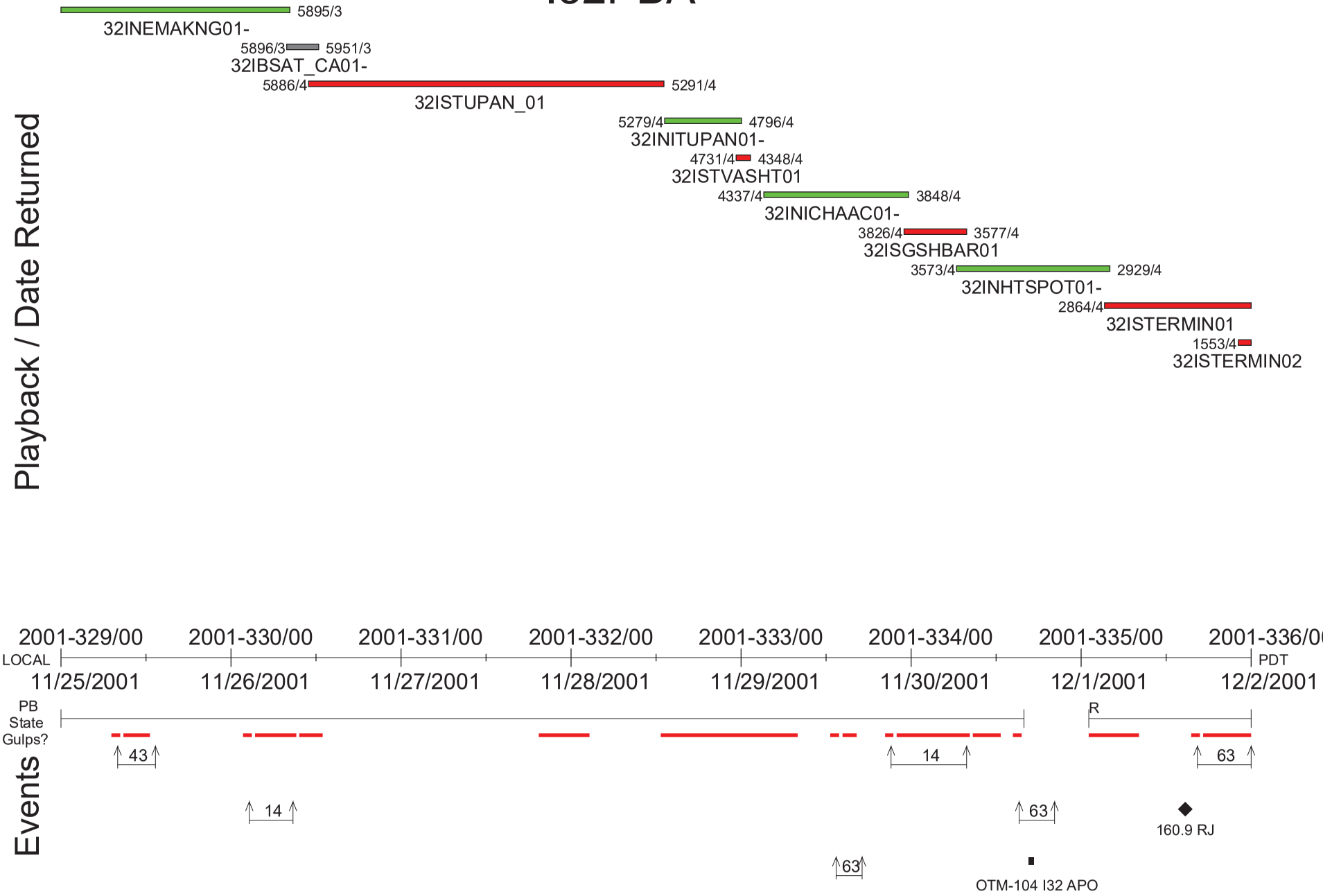
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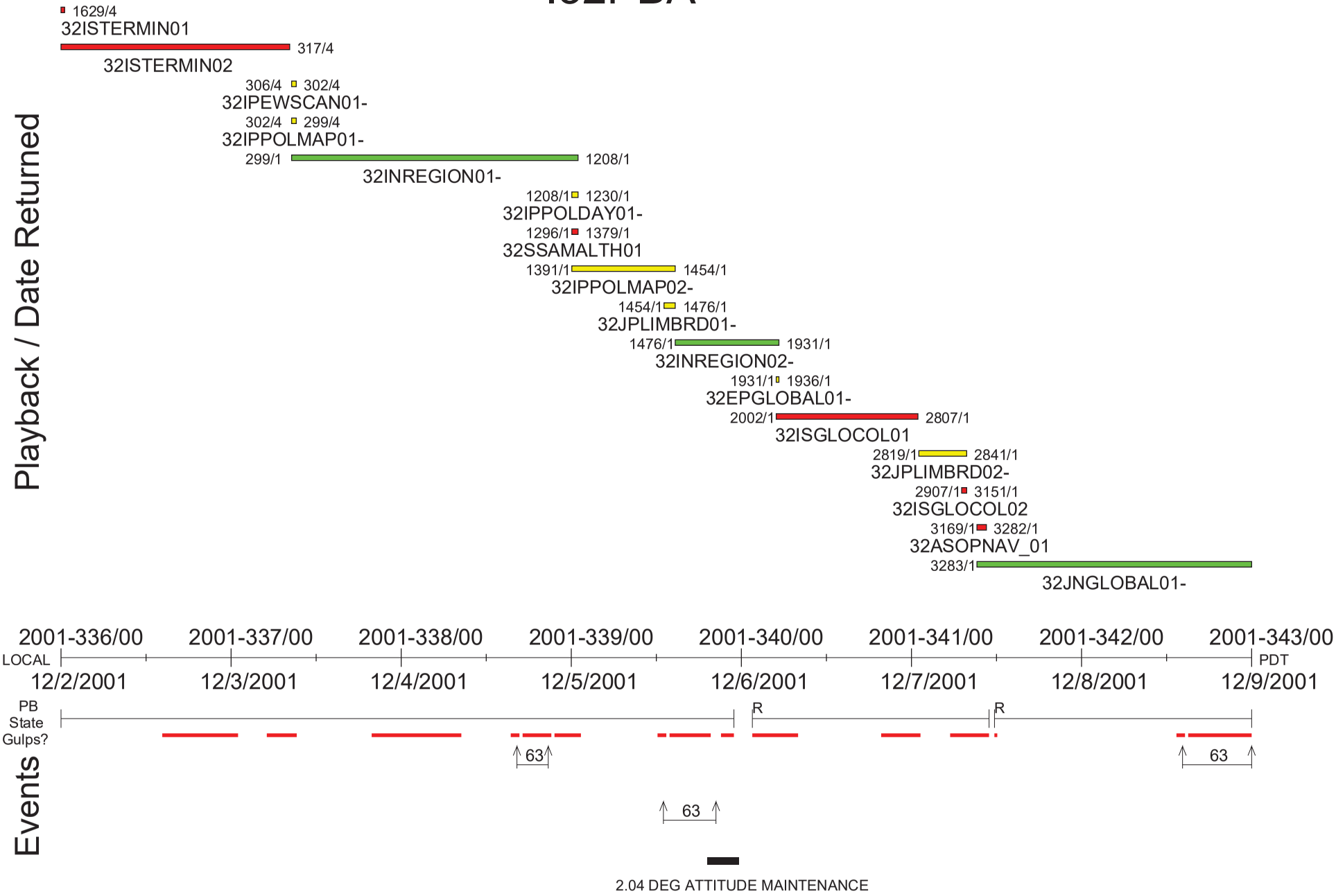
OTM-104 I32 APO

I32PBA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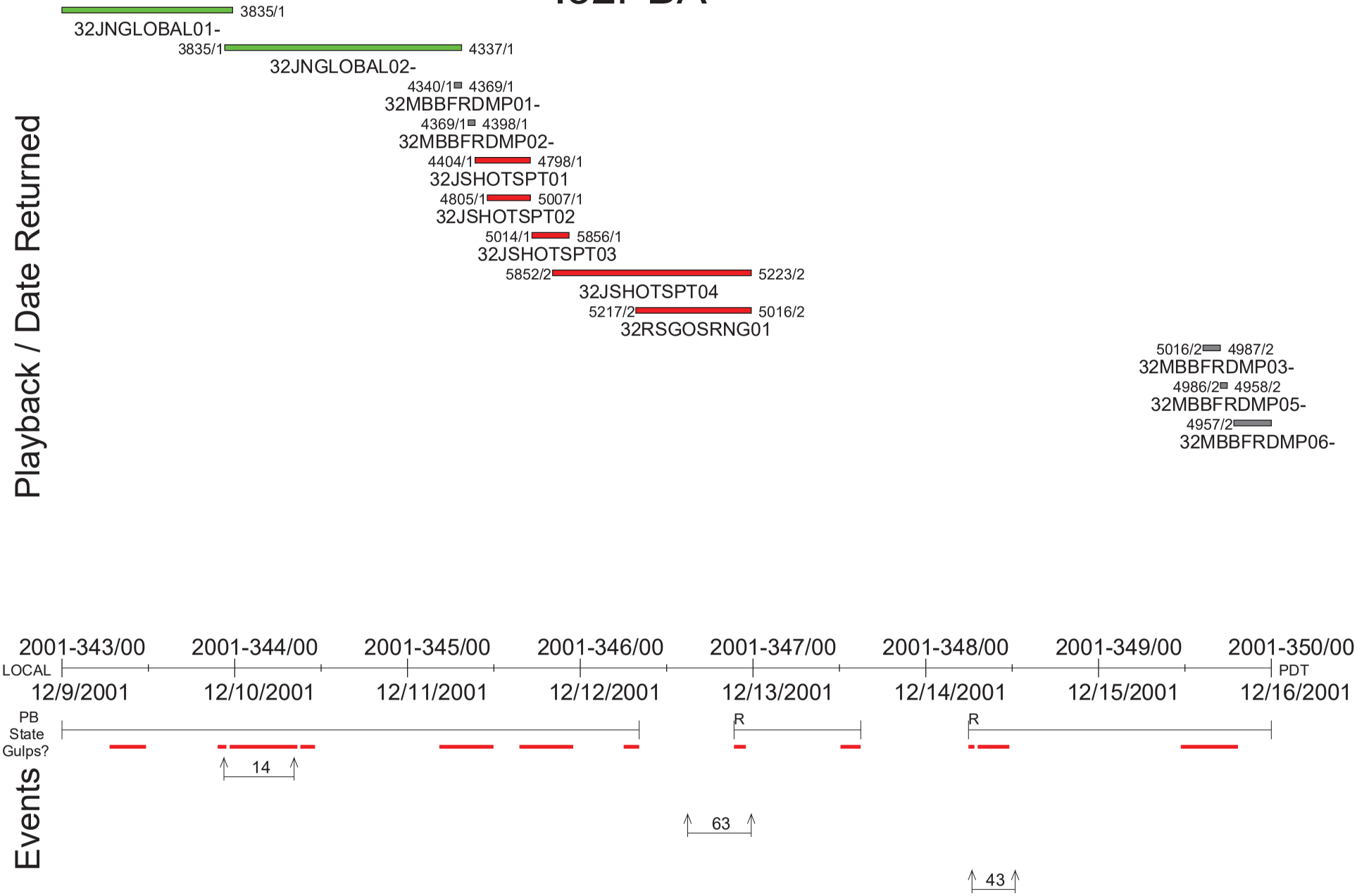
2.04 DEG ATTITUDE MAINTENANCE

I32PBA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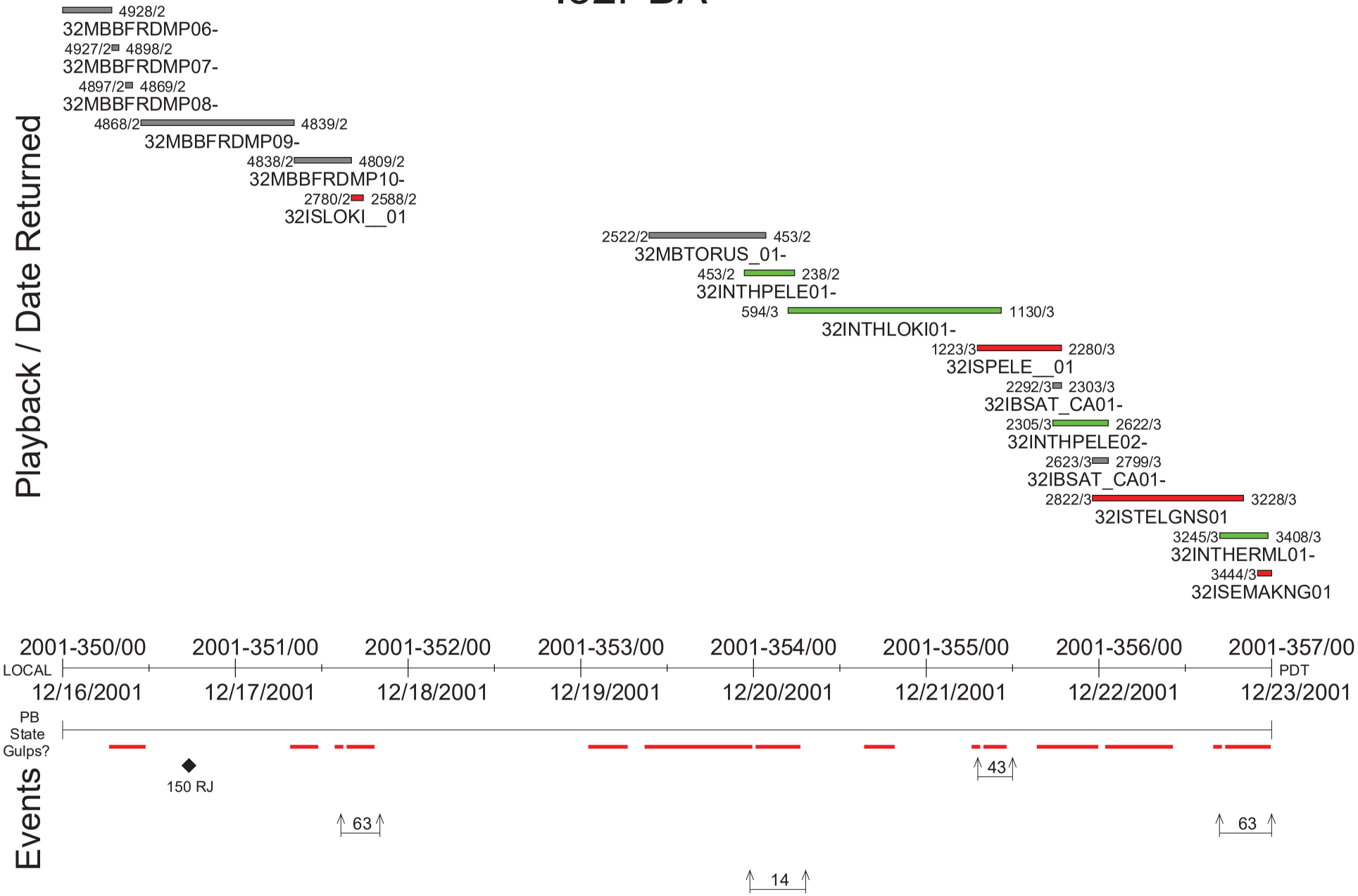
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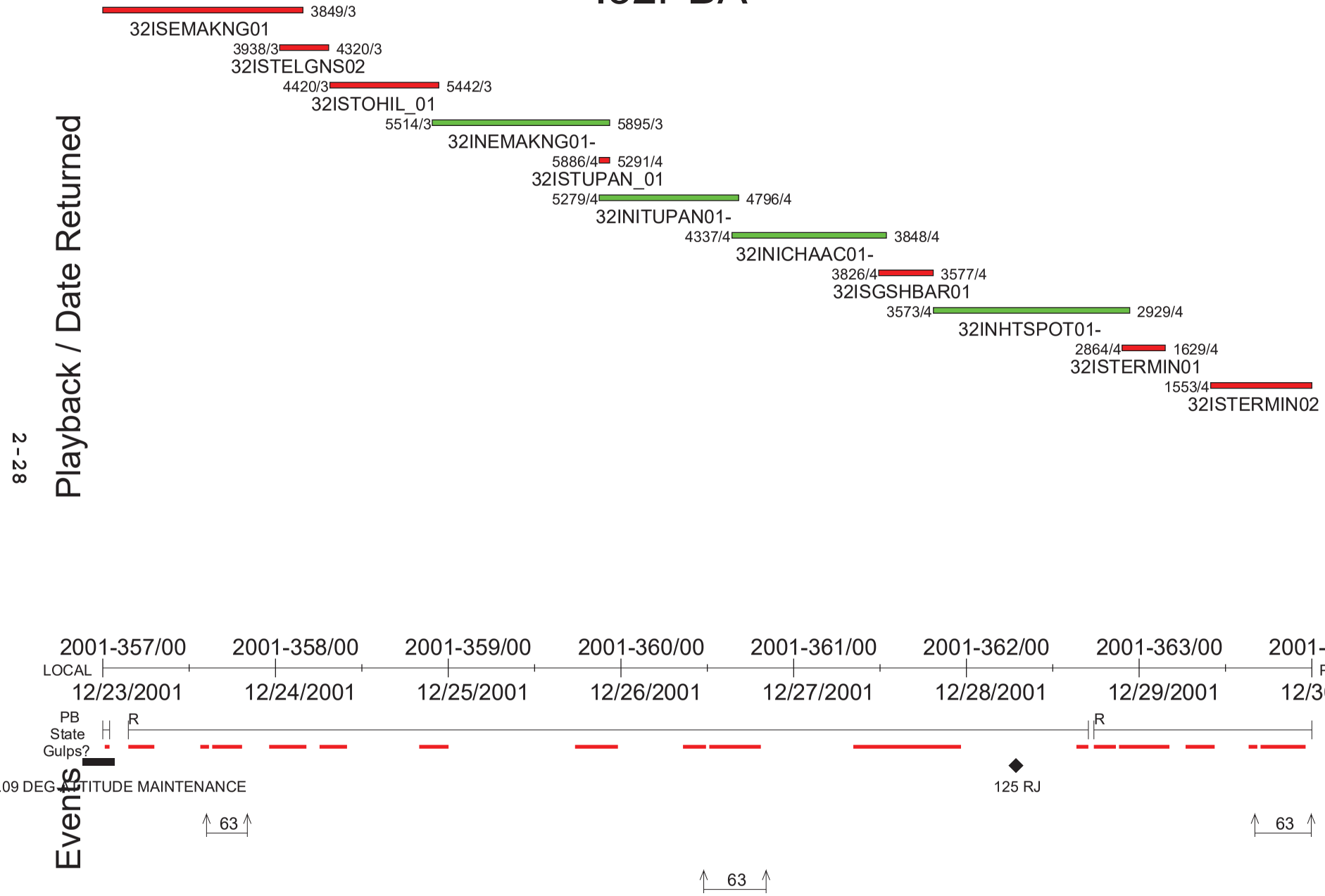
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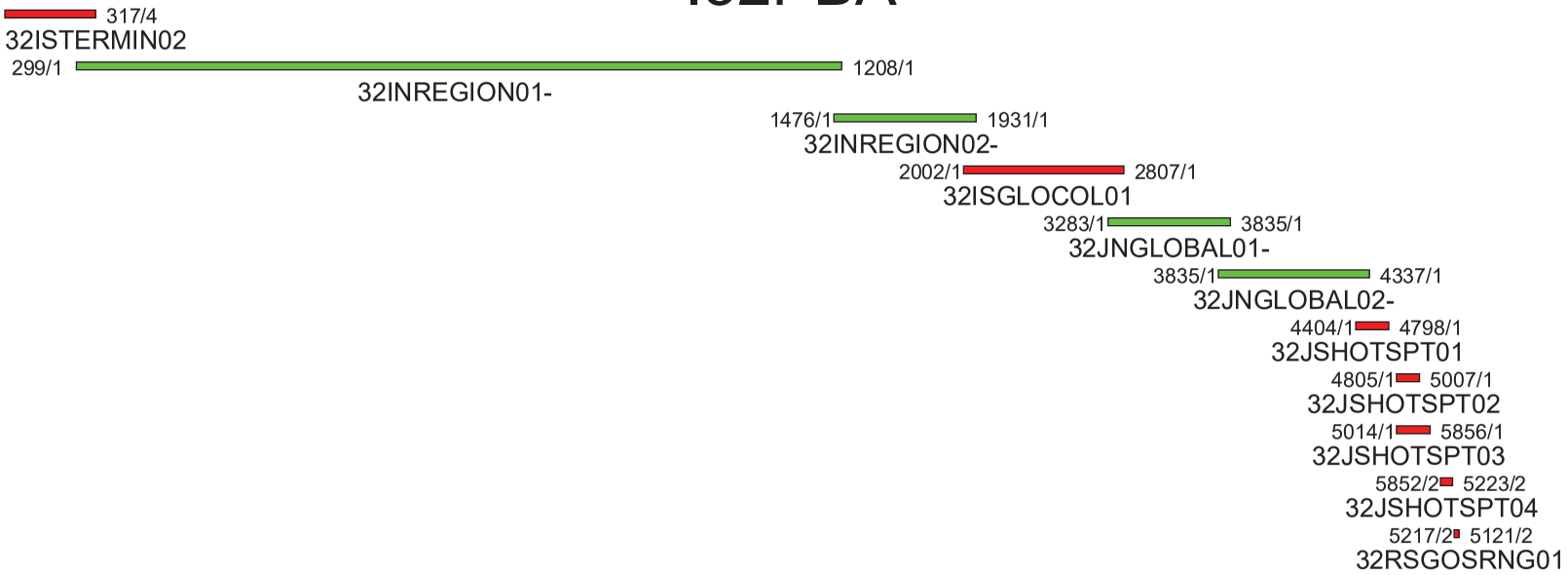
I32PBA



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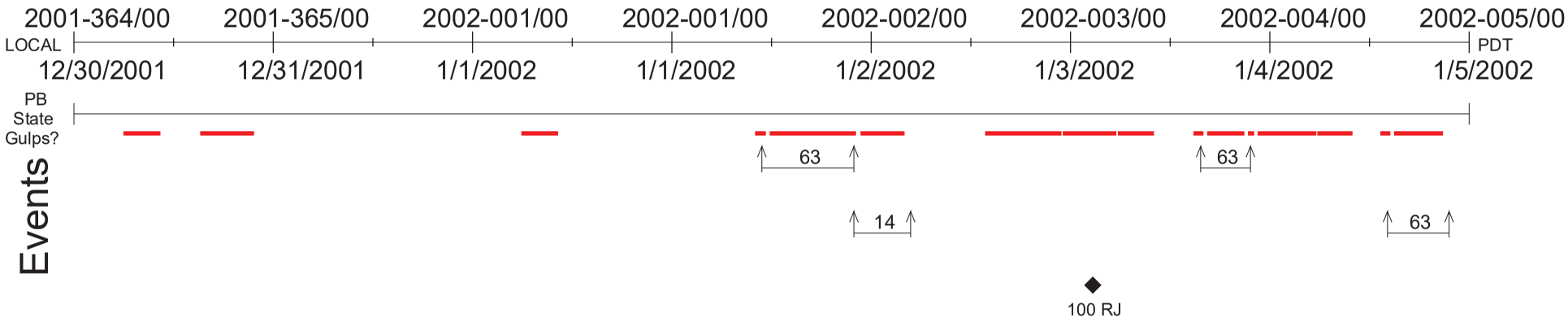

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Playback / Date Returned

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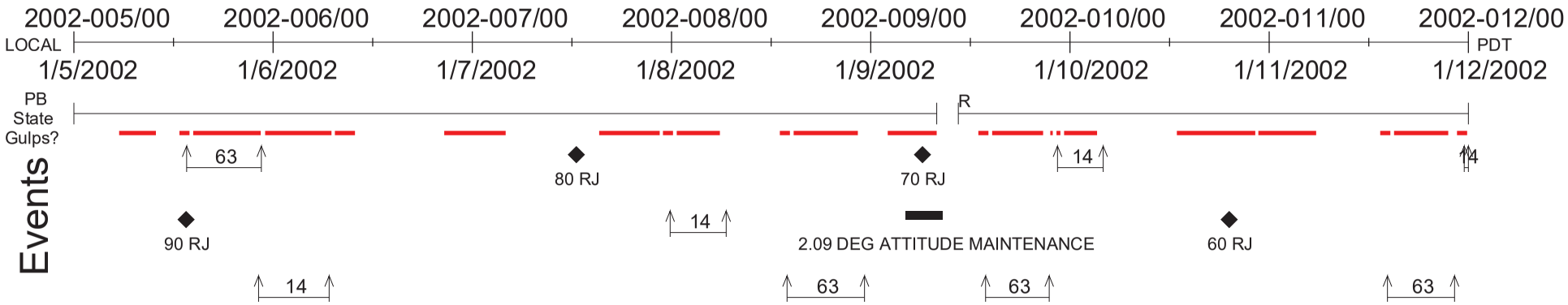

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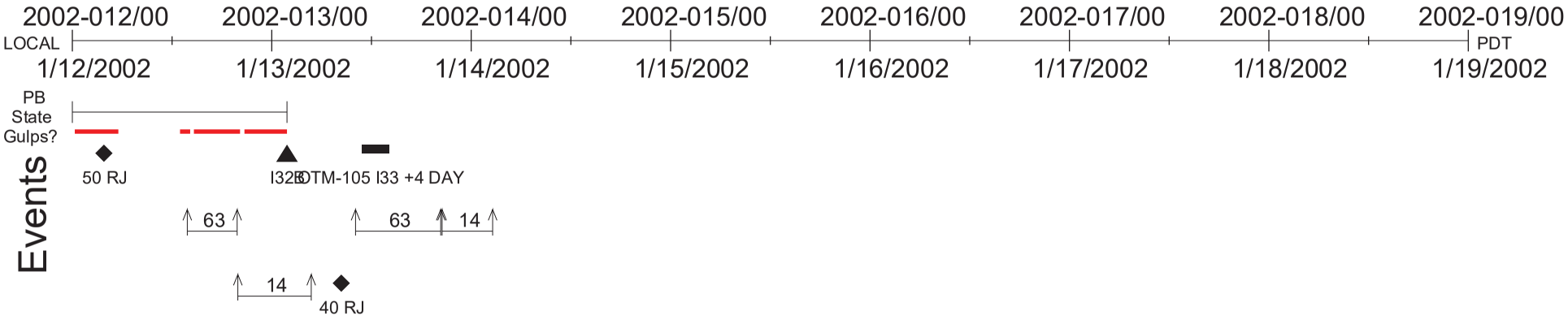

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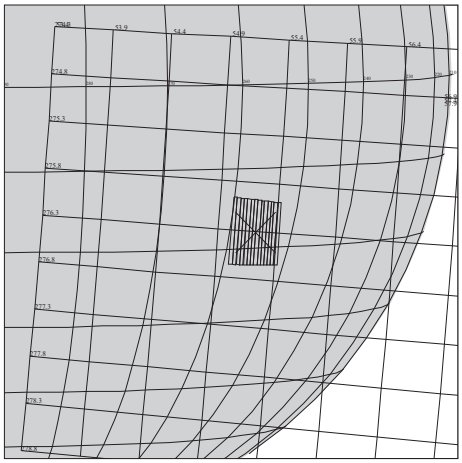

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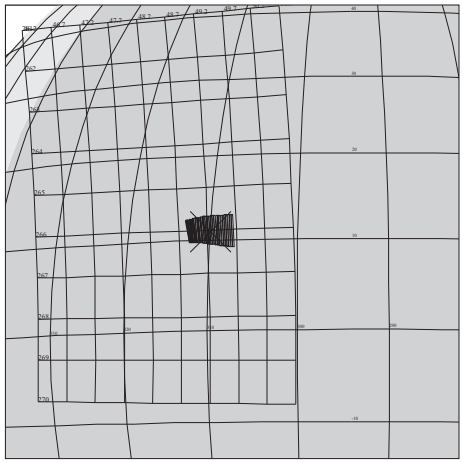

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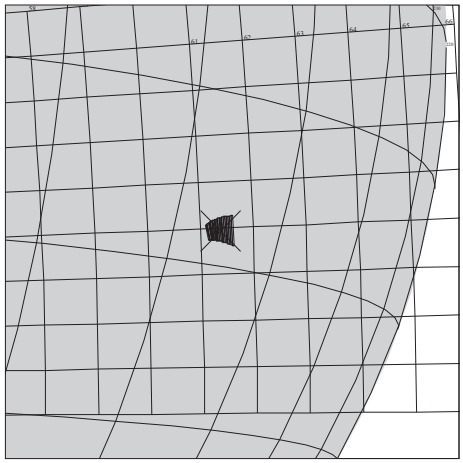
01-289/00:51:24



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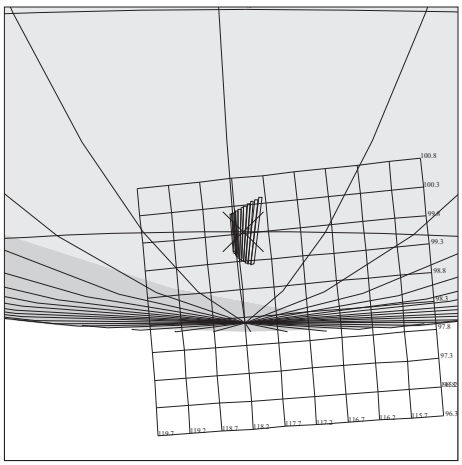

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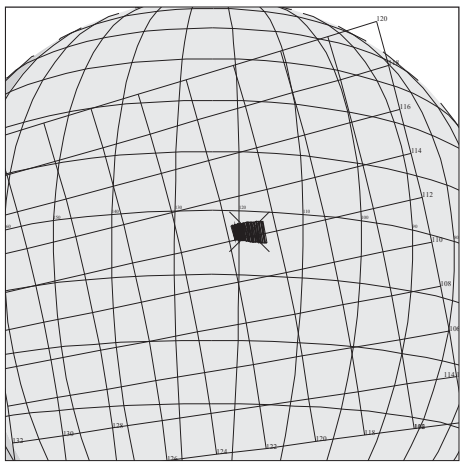

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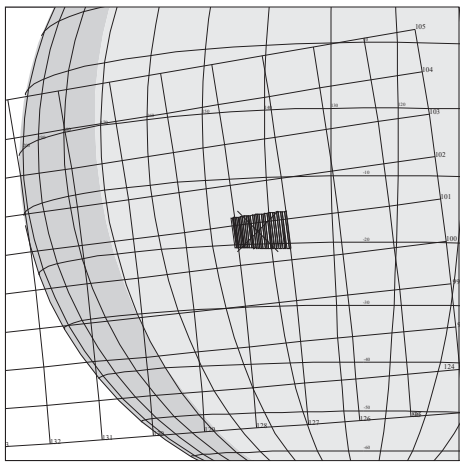

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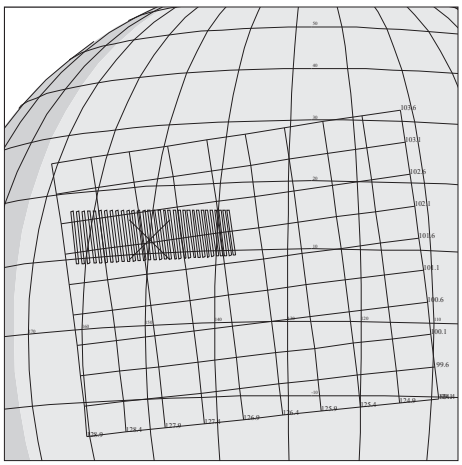

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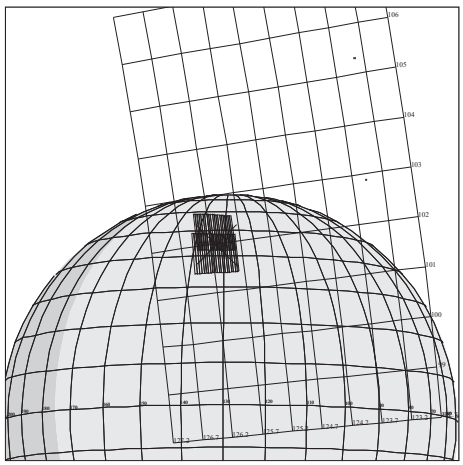

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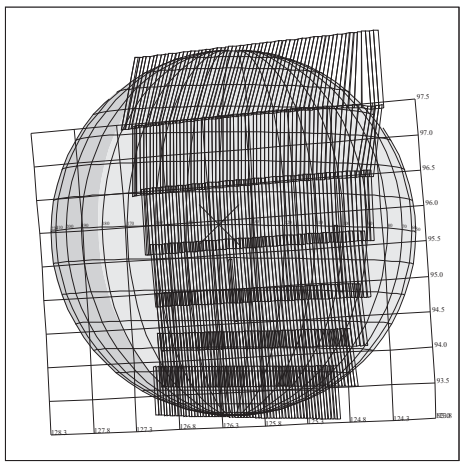

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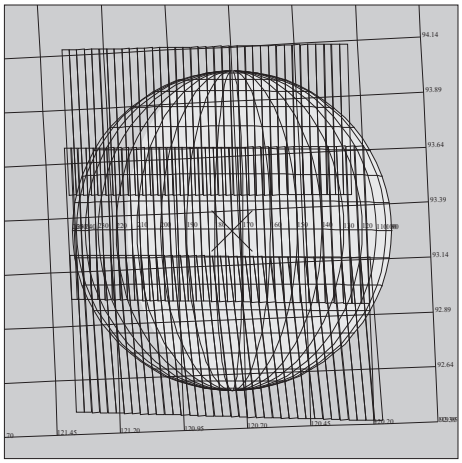
01-289/03:06:53

I32 NIMS B



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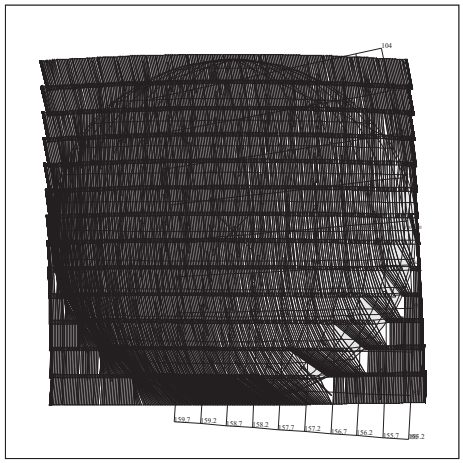

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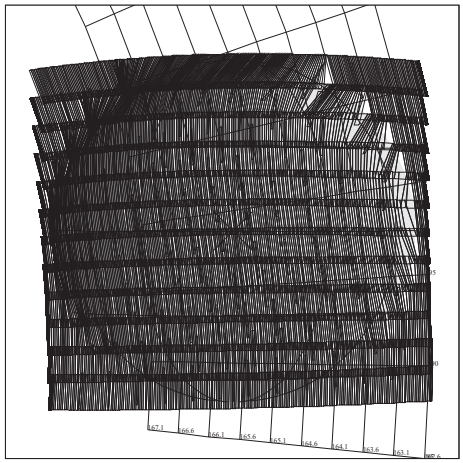

32JNGLOBAL02
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Chapter 3 - Orbit Geometries

Contents

Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the I32 Orbit.

The figure on page 3 is a North Trajectory Pole View of the I32 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the I32 Orbit from +/- 5 days of Jupiter closest approach.

The figure on page 5 is a North Trajectory Pole View of the I32 Orbit from +/- 2 days of Jupiter closest approach.

The figure on page 6 is a North Trajectory Pole View of the I32 Orbit from +/- 1 day of Jupiter closest approach.

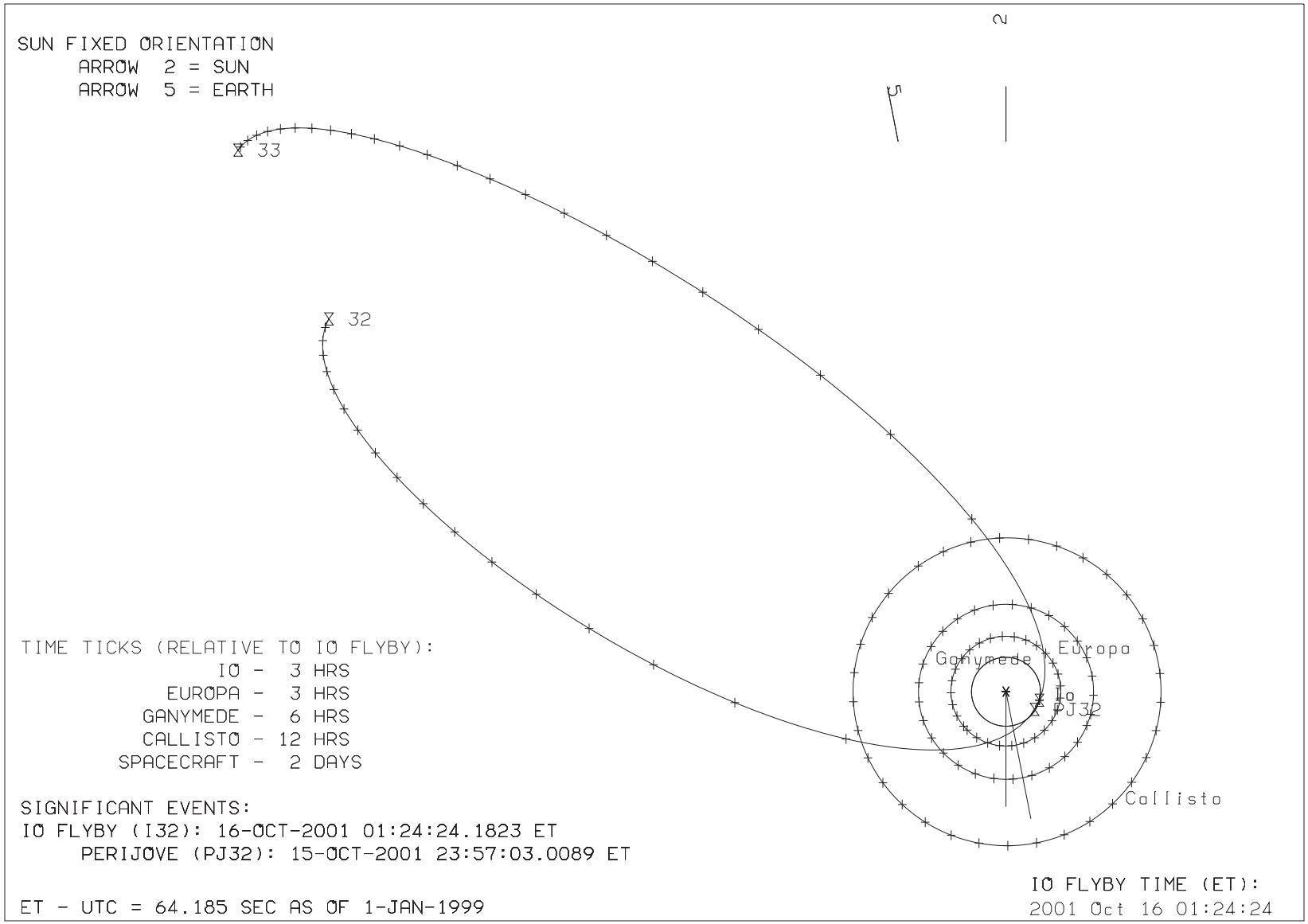
The figure on page 7 is a North Trajectory Pole View of the I32 Orbit from +/- 6 hours of Io closest approach.

The figure on page 8 is a North Trajectory Pole View of the I32 Orbit from +/- 1 hour of Io closest approach.

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

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

Jupiter 32: North Traj Pole View (Io 32 Apo to Apo)



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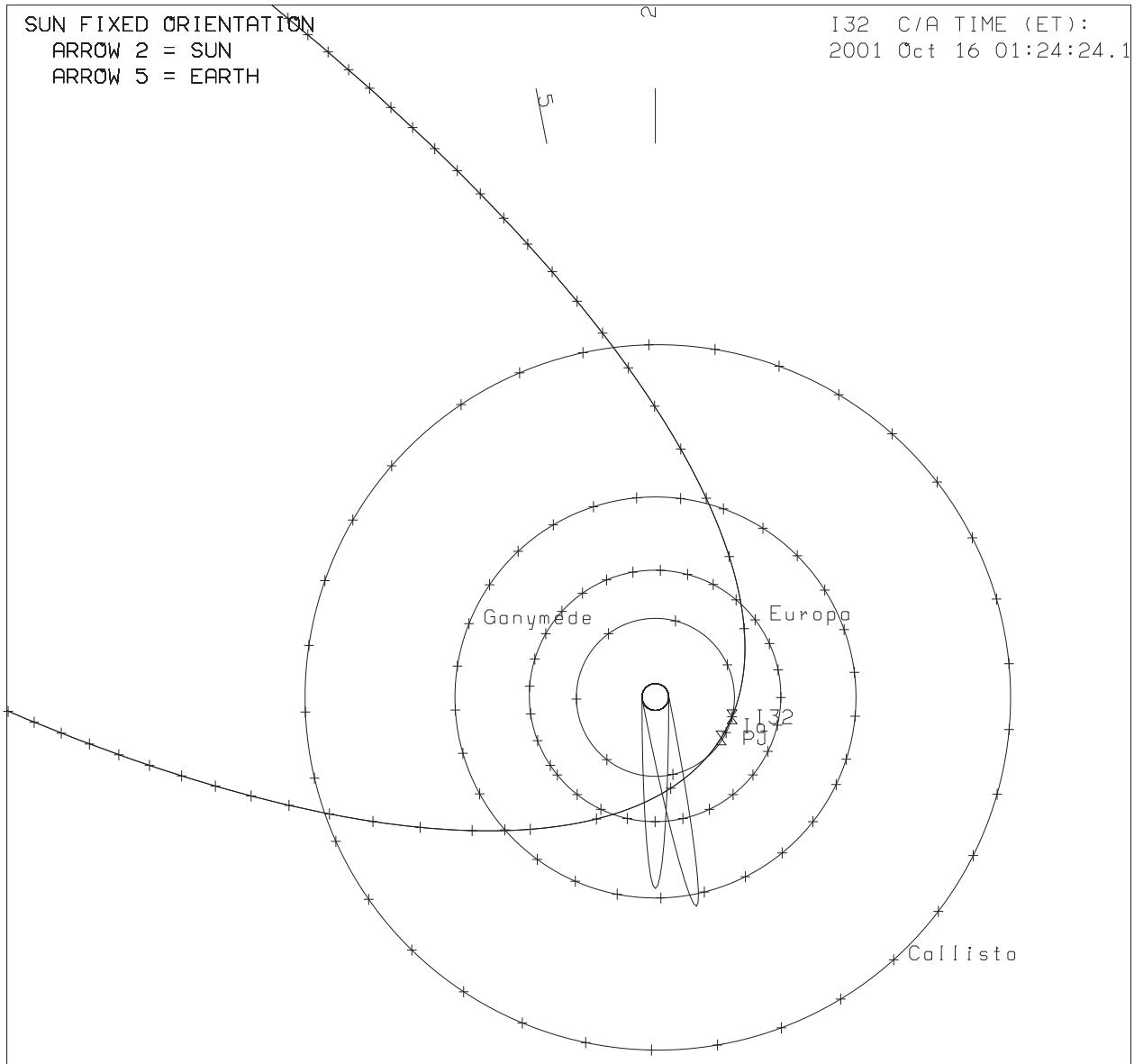
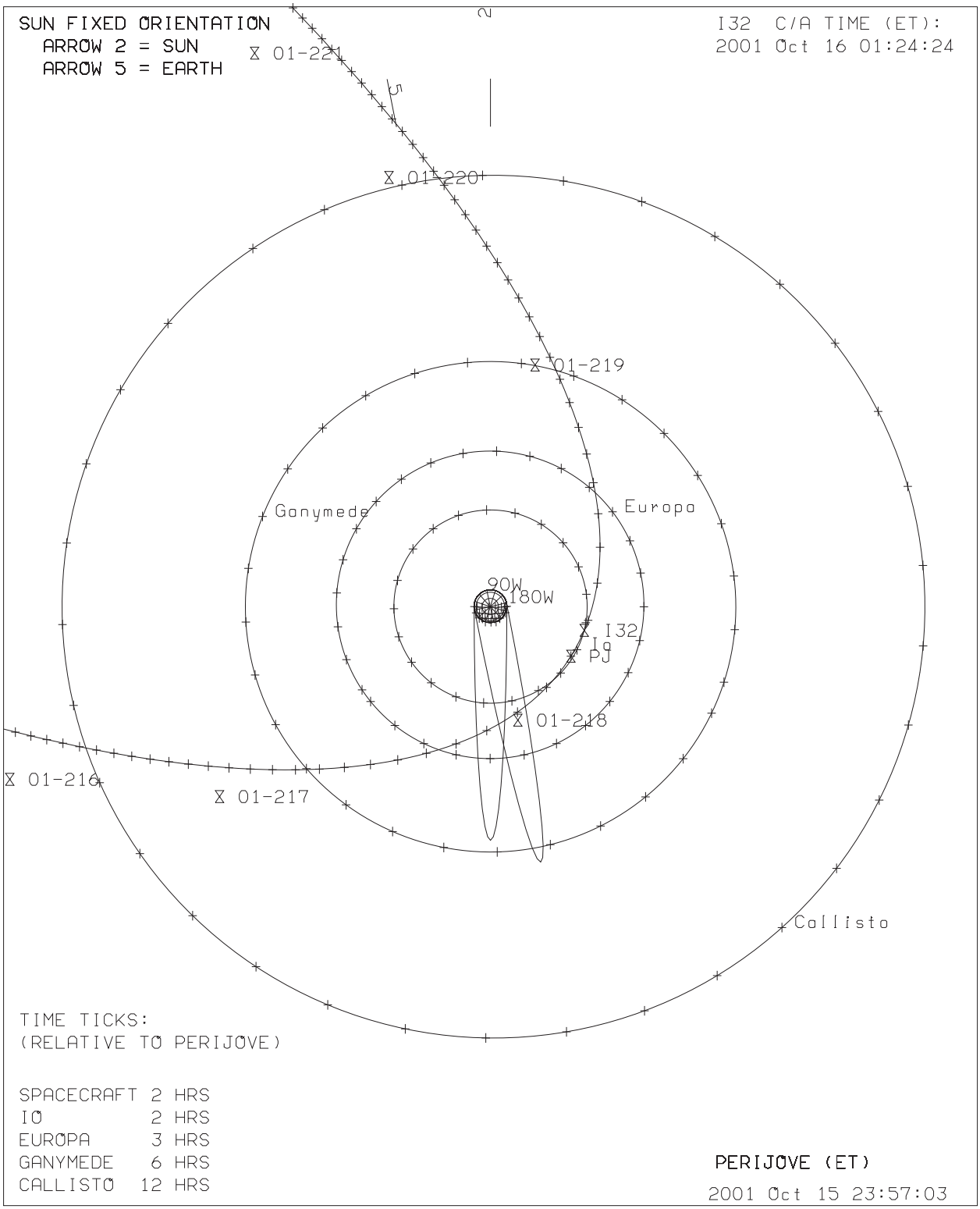
JUPITER 32: N. TRAJ. POLE VIEW (+/- 5 DAYS)



JUPITER 32: N. TRAJ. POLE VIEW (+/- 2 DAYS)



GMM-010810

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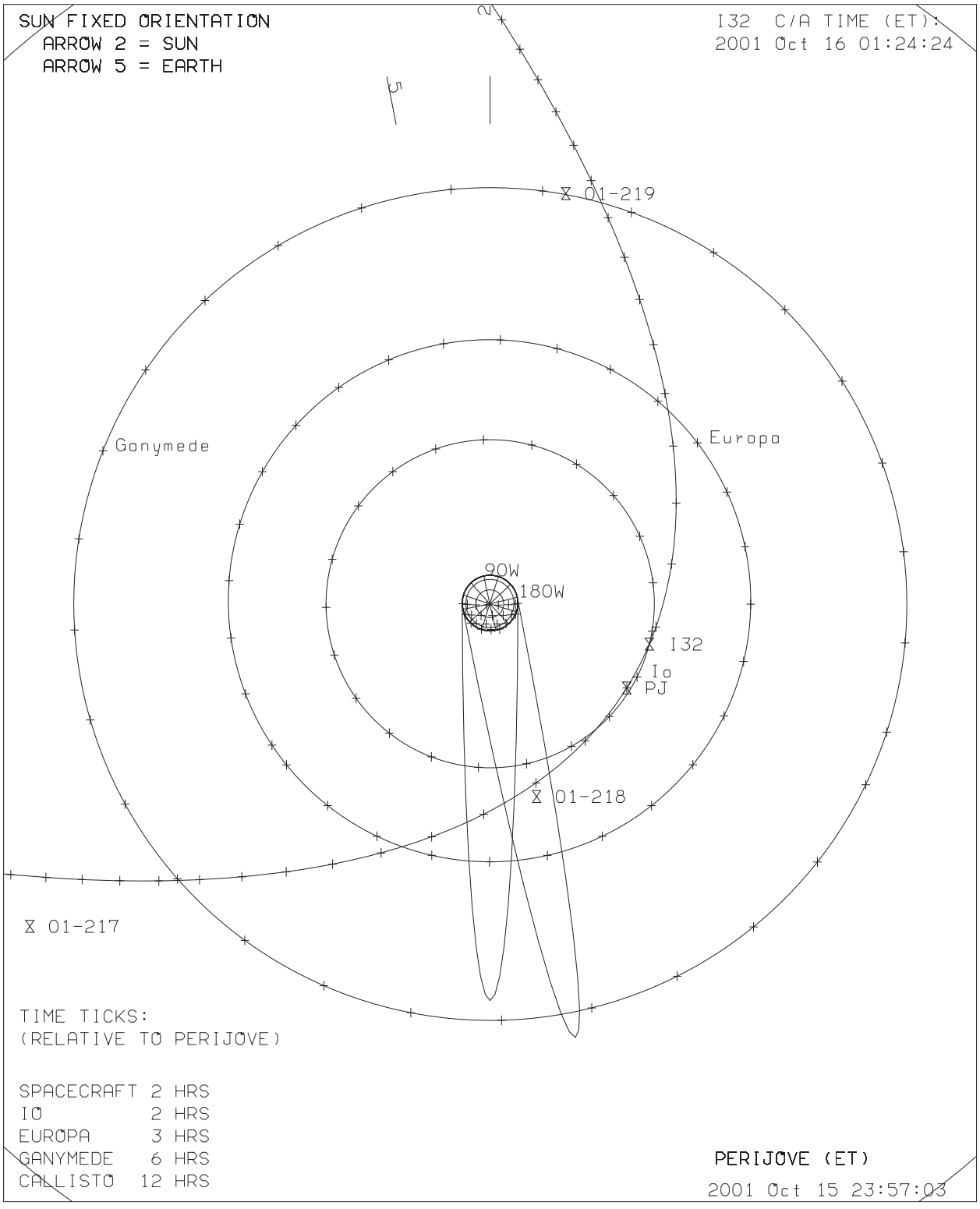
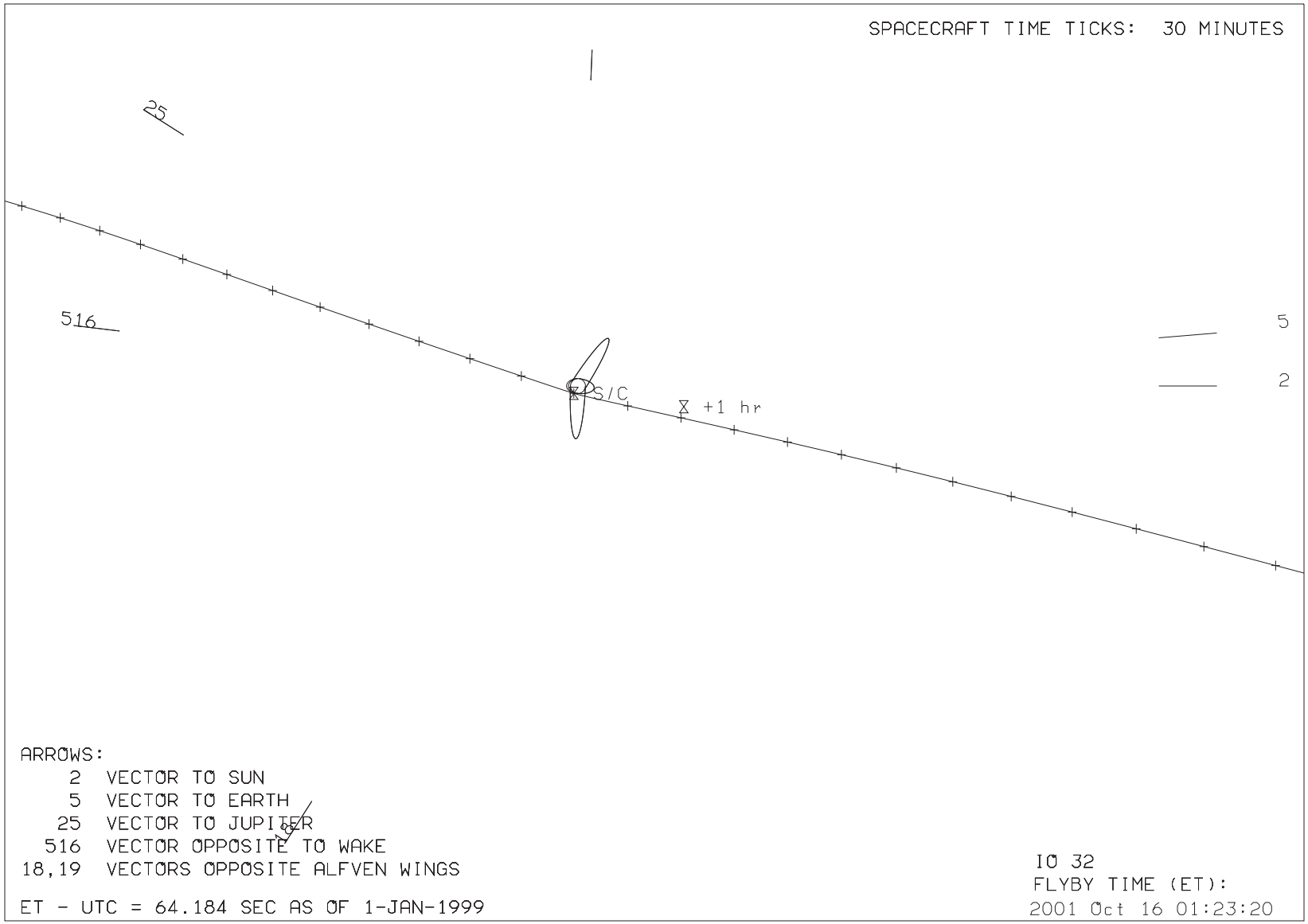
JUPITER 32: N. TRAJ. POLE VIEW (+/- 1 DAY)



IO 32: N. TRAJ. POLE VIEW (+/- 6 HRS)



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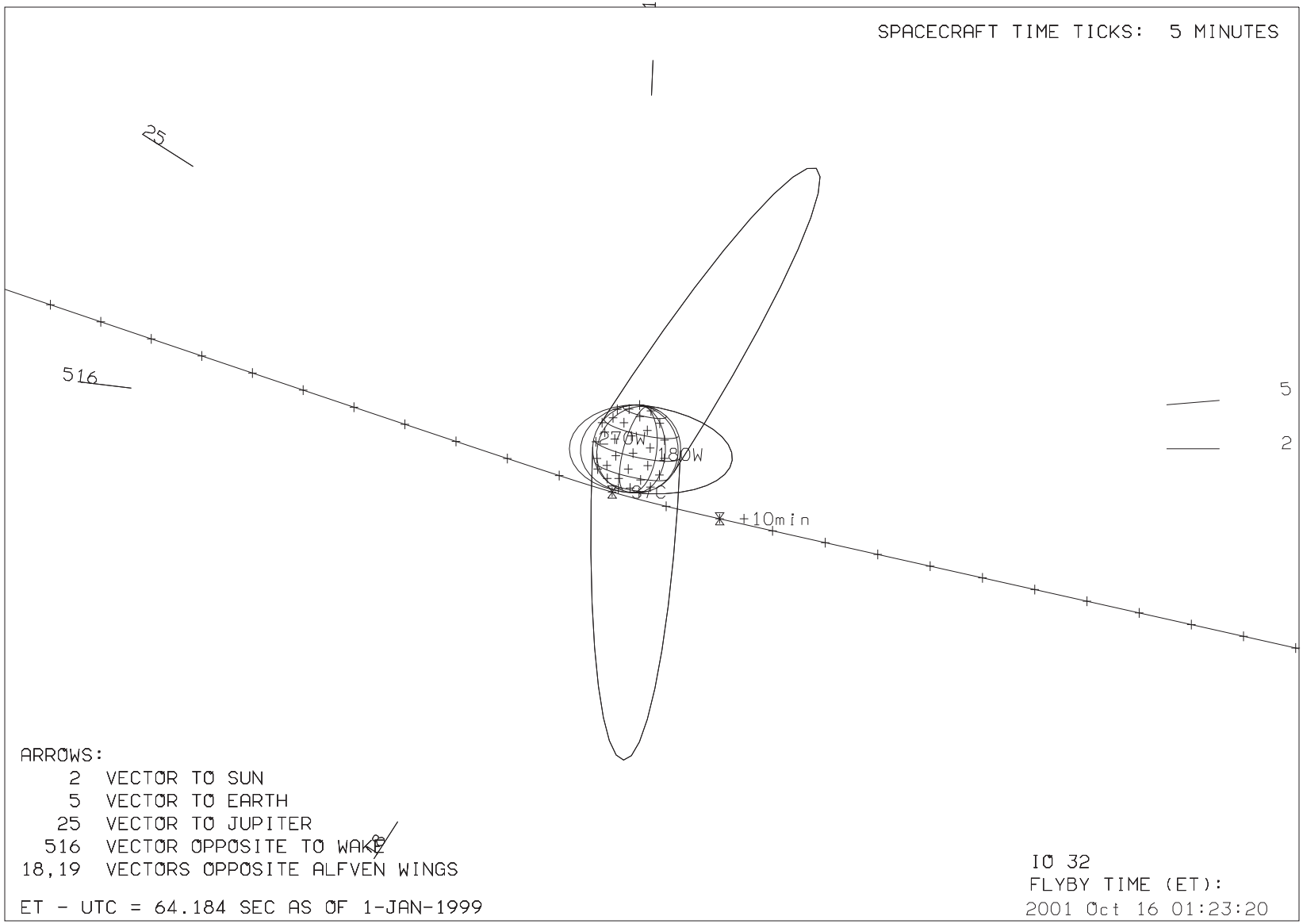
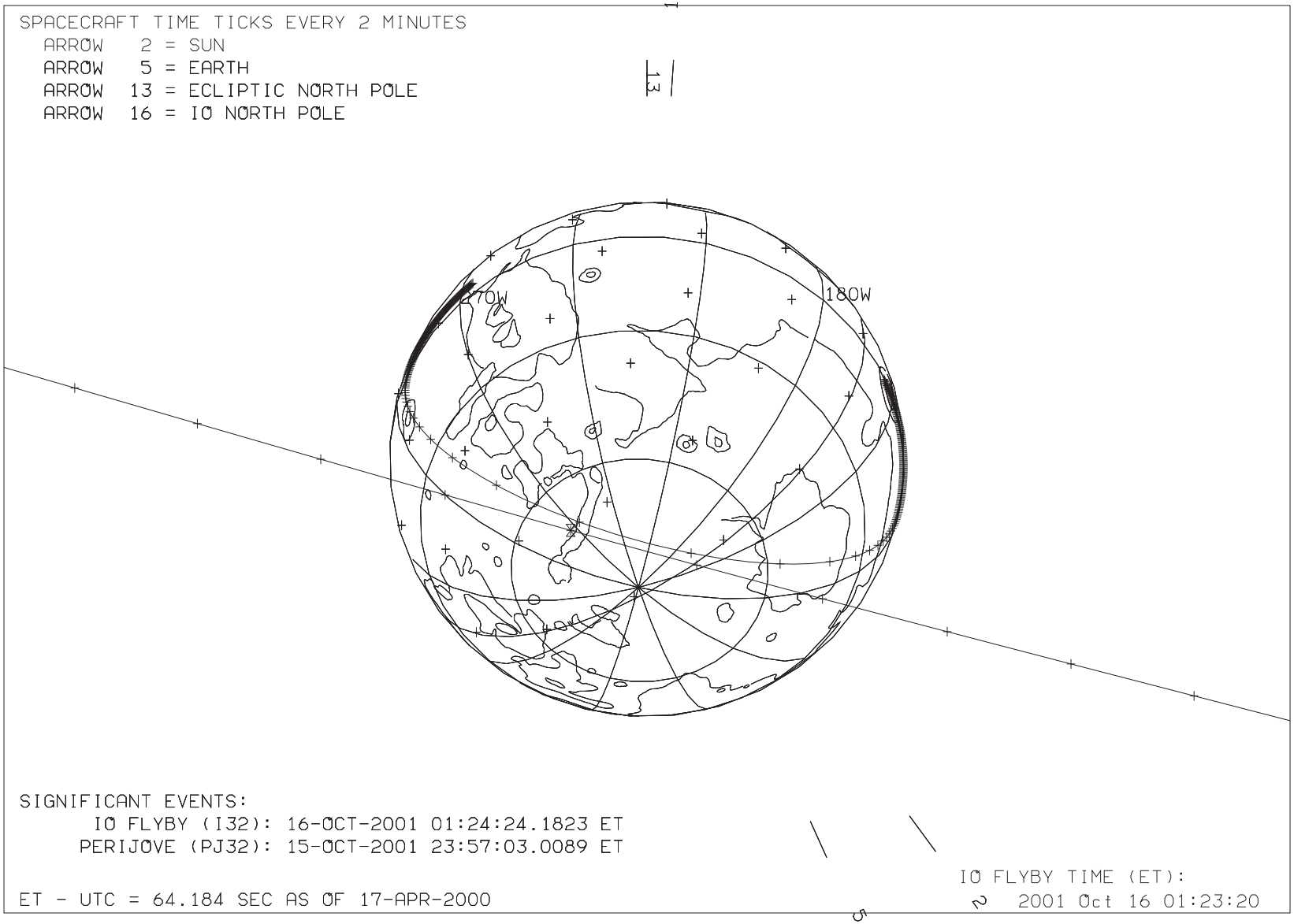
IO 32: N. TRAJ POLE VIEW (+/- 1 HR)



NAV 8/20/01

IO 32: GROUNDTRACK AT CLOSEST APPROACH



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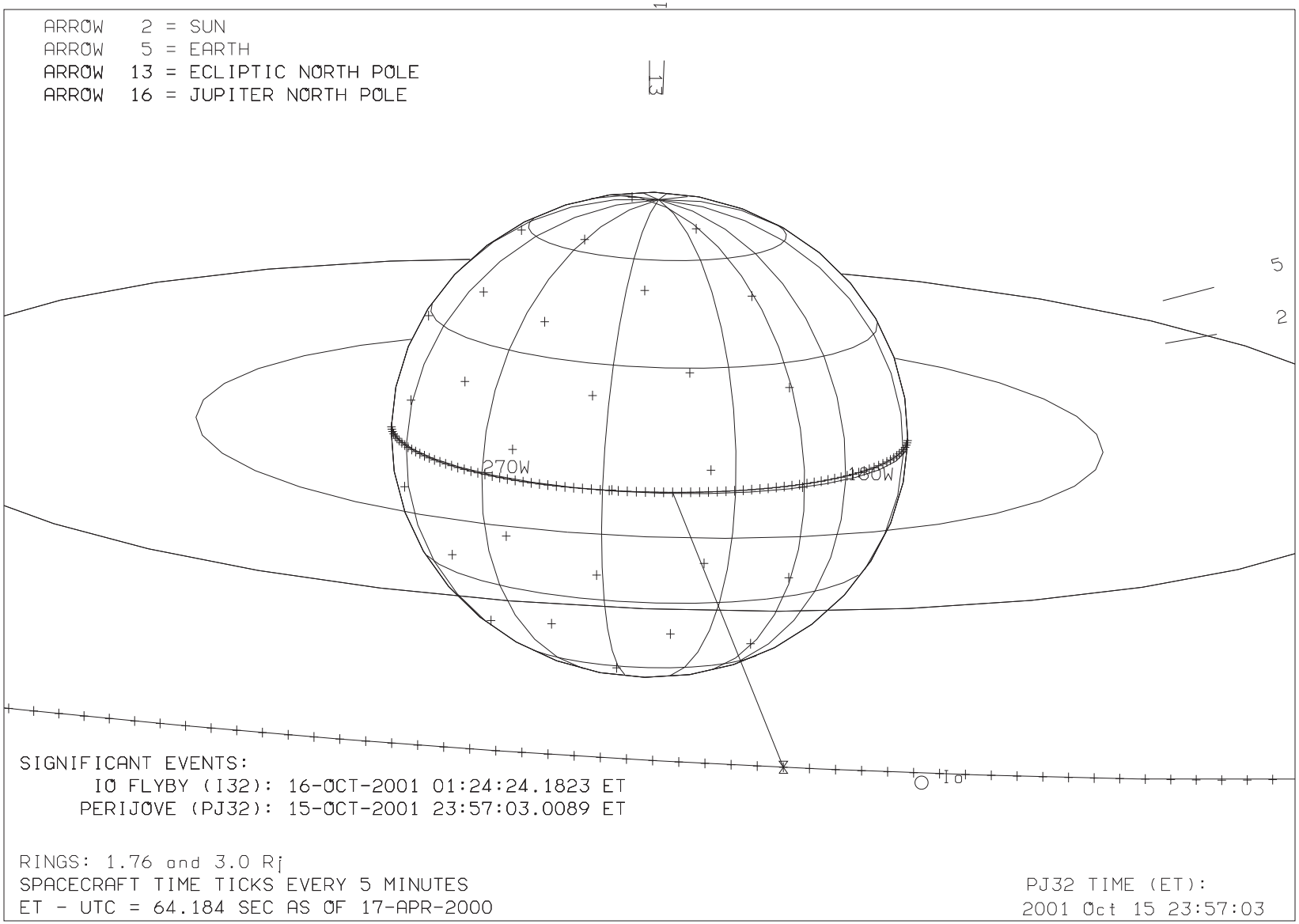
JUPITER 32: GROUNDTRACK AT CLOSEST APPROACH



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Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS I32 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 I32 Sequence. The information in this summary is derived from the I32 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 I32 data. It is also derived from the I32 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

			Sequence:	I32A-AR		Created: 12/17/01	Begin: 01-287/02:00:00 Finish: 01-302/02:00:00					
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	**1**	**287**	**02:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**6,253,125:37:6**	
2	**1**	**287**	**02:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,253,125:37:6**	
3	**1**	**287**	**02:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,253,125:37:6**	
4	**1**	**287**	**02:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**6,253,125:37:6**	
5	**1**	**287**	**02:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**6,253,125:37:6**	
6	**1**	**287**	**02:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**2O0**	**4**	**0**	**6,253,125:37:6**	
7	**1**	**287**	**02:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**6,253,125:37:6**	
8	**1**	**287**	**02:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**6,253,125:37:6**	
9	**1**	**287**	**02:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,253,125:37:6**	
10	1	287	02:00:00.266		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	6,253,125:38:0	
11	1	287	02:02:16.933	488AA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,253,127:61:0	
12	1	287	02:03:36.933	432JB431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	2O0	4	0	6,253,128:90:0	
13	**1**	**287**	**02:03:37.600**	**432JB6B**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**2O0**	**4**	**0**	**6,253,129:00:0**	
14	1	287	02:03:37.600	432JB6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,253,129:00:0	
15	1	287	02:05:42.933	20OB6A	6HICON			2O0	4	0	6,253,131:06:0	
16	1	287	02:46:16.866	432OR431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	6,253,171:17:0	
17	1	287	02:46:17.533	432OR6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,253,171:18:0	
18	1	287	02:59:36.866	488AA6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,253,184:34:0	
19	1	287	06:26:32.866	488AA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,253,389:03:0	
20	1	287	10:31:52.866	488AB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,253,631:61:0	
21	1	287	11:30:35.533	488AB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,253,689:67:0	
22	1	287	15:19:15.533	488AB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,253,915:81:0	
23	1	287	15:30:32.866	488AB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,253,927:05:0	
24	1	287	16:55:52.866	488AC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,254,011:41:0	
25	1	287	17:15:38.866	465KA6A	6DMST	4631	DMS Slew to TIC	2O0	4	0	6,254,031:00:0	
26	1	287	17:15:38.866		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	6,254,031:00:0	
27	1	287	17:15:38.866		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	6,254,031:00:0	
28	1	287	17:15:38.866		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	6,254,031:00:0	
29	1	287	17:15:45.533		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	6,254,031:10:0	
30	1	287	17:15:46.933		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	2O0	4	0	6,254,031:12:1	
31	1	287	18:50:00.200	488AC6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	6,254,124:29:0	
32	1	287	20:00:00.200	20TO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,254,193:50:0	
33	1	287	20:00:50.200	20TO4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,254,194:34:0	
34	1	287	20:00:56.200	20TO4E	7STAR	1,1307,23.9660,-	Star catalog update	2O0	4	0	6,254,194:43:0	
35	1	287	20:00:58.200	20TO4F	7STAR	2,9000,2.664,14.	Star catalog update	2O0	4	0	6,254,194:46:0	
36	1	287	20:01:00.200	20TO4G	7STAR	3,1307,23.9660,-	Star catalog update	2O0	4	0	6,254,194:49:0	
37	1	287	20:01:02.200	20TO4H	7STAR	4,9000,2.664,14.	Star catalog update	2O0	4	0	6,254,194:52:0	
38	1	287	20:01:04.200	20TO4I	7STAR	5,1307,23.9660,-	Star catalog update	2O0	4	0	6,254,194:55:0	
39	1	287	20:01:06.200	20TO4J	7STAR	6,9000,2.664,14.	Star catalog update	2O0	4	0	6,254,194:58:0	
40	1	287	20:05:02.866	432OE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	6,254,198:49:0	
41	1	287	20:05:03.533	432OE6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,254,198:50:0	
42	1	287	20:42:00.866	488AC6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,254,235:09:0	
43	1	287	22:22:16.866	488AC6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,334:24:0	
44	1	287	22:30:33.000		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *4628.94 +/-	2O0	4	0	6,254,342:40:2	
45	1	287	22:30:34.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4629.00 +/-	2O0	4	0	6,254,342:42:0	
46	1	287	22:37:12.866	488AC6E	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	2O0	4	0	6,254,349:03:0	
47	1	287	22:54:16.866	488AD6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,365:83:0	
48	1	288	00:02:43.533	488AD6B	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,433:55:0	
49	1	288	00:36:22.200	488AD6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,466:80:0	
50	1	288	03:20:56.866	488AD6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,254,629:59:0	
51	1	288	04:27:04.866	488AD6E	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,695:05:0	
52	1	288	05:20:18.200	488AE6A	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,747:63:0	
53	1	288	05:26:48.866	488AE6B	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	2O0	4	0	6,254,754:12:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	1	288	06:20:39.533	488AE6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	2O0	4	0	6,254,807	35:0
55	1	288	06:30:48.866	488AE6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,817	39:0
56	1	288	06:42:41.533	488AE6E	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,829	16:0
57	1	288	07:16:20.200	488AF6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,862	41:0
58	1	288	07:20:56.200		DMS:	: READY	RDY, TRACK *2, *REV, TIC 4629.00 +/-	2O0	4	0	6,254,867	00:0
59	1	288	07:20:56.200	465KB6A	6DMSC	RDY,2	DMS Control Tape stop	2O0	4	0	6,254,867	00:0
60	1	288	07:22:57.533	192GR4A	**7CONE**	**9.0,0.0**	Check S/P Position	2O0	4	0	6,254,869	00:0
61	1	288	07:30:02.200	176GR6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	6,254,876	00:0
62	1	288	07:32:16.866	176GR6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,254,878	20:0
63	1	288	07:32:18.866	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,254,878	23:0
64	1	288	07:32:18.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4629.00 +/-	2O0	4	0	6,254,878	23:0
65	1	288	07:32:20.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4629.12 +/-	2O0	4	0	6,254,878	25:1
66	1	288	07:32:25.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4630.35 +/-	2O0	4	0	6,254,878	33:0
67	1	288	07:32:26.733		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4630.41 +/-	2O0	4	0	6,254,878	34:8
68	1	288	07:32:28.133		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4630.29 +/-	2O0	4	0	6,254,878	36:9
69	1	288	07:32:28.866		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4630.12 +/-	2O0	4	0	6,254,878	38:0
70	1	288	07:32:40.200	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,254,878	55:0
71	1	288	07:32:40.200		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4627.47 +/-	2O0	4	0	6,254,878	55:0
72	1	288	07:32:41.400		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4627.41 +/-	2O0	4	0	6,254,878	56:8
73	1	288	07:35:05.533	192GR4B	**7CONE**	**9.0,90.0**	Check S/P Position	2O0	4	0	6,254,881	00:0
74	1	288	07:37:41.533	488AF6B	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,883	52:0
75	1	288	07:44:10.866	165GA4A	7SCAN	NORM,230.094999,	Check S/P Position	2O0	4	0	6,254,889	90:0
76	1	288	07:47:13.533	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	6,254,893	00:0
77	1	288	07:48:04.866	117GA	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,254,893	77:0
78	1	288	07:48:14.200	117GA105A106A4A	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,894	00:0
79	1	288	07:52:02.200	117GA105A106A4B	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,897	69:0
80	1	288	07:52:18.200	117GA105A106A4C	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,898	02:0
81	1	288	07:56:06.200	117GA105A106A4D	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,901	71:0
82	1	288	07:56:22.200	117GA105A106A4E	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,902	04:0
83	1	288	07:59:48.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,254,905	40:0
84	1	288	07:59:48.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4627.41 +/-	2O0	4	0	6,254,905	40:0
85	1	288	07:59:49.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4627.53 +/-	2O0	4	0	6,254,905	42:1
86	1	288	07:59:54.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4628.76 +/-	2O0	4	0	6,254,905	50:0
87	1	288	07:59:56.066		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4628.82 +/-	2O0	4	0	6,254,905	51:8
88	1	288	07:59:57.466		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4628.70 +/-	2O0	4	0	6,254,905	53:9
89	1	288	08:00:10.200	117GA105A106A4F	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,905	73:0
90	1	288	08:00:13.533		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4624.93 +/-	2O0	4	0	6,254,905	78:0
91	1	288	08:00:26.200	117GA105A106A4G	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,906	06:0
92	1	288	08:00:36.200		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4619.62 +/-	2O0	4	0	6,254,906	21:0
93	1	288	08:00:36.200	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,254,906	21:0
94	1	288	08:00:37.400		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4619.56 +/-	2O0	4	0	6,254,906	22:8
95	1	288	08:04:14.200	117GA105A106A4H	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,909	75:0
96	1	288	08:04:30.200	117GA105A106A4I	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,910	08:0
97	1	288	08:08:18.200	117GA105A106A4J	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,913	77:0
98	1	288	08:08:34.200	117GA105A106A4K	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,914	10:0
99	1	288	08:11:20.200	488AF6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,254,916	77:0
100	1	288	08:12:22.200	117GA105A106A4L	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,917	79:0
101	1	288	08:12:38.200	117GA105A106A4M	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,918	12:0
102	1	288	08:12:50.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4619.56 +/-	2O0	4	0	6,254,918	30:0
103	1	288	08:12:50.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,254,918	30:0
104	1	288	08:12:51.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4619.68 +/-	2O0	4	0	6,254,918	32:1
105	1	288	08:12:56.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4620.92 +/-	2O0	4	0	6,254,918	40:0
106	1	288	08:12:58.066		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4620.98 +/-	2O0	4	0	6,254,918	41:8
107	1	288	08:12:59.466		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4620.86 +/-	2O0	4	0	6,254,918	43:9
108	1	288	08:13:15.533		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4617.09 +/-	2O0	4	0	6,254,918	68:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	1	288	08:13:38.200	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,254,919:11:0	
110	1	288	08:13:38.200		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4611.78 +/-	2O0	4	0	6,254,919:11:0	
111	1	288	08:13:39.400		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4611.72 +/-	2O0	4	0	6,254,919:12:8	
112	1	288	08:16:26.200	117GA105A106A4N	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,921:81:0	
113	1	288	08:16:42.200	117GA105A106A4O	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,922:14:0	
114	1	288	08:20:30.200	117GA105A106A4P	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,925:83:0	
115	1	288	08:20:46.200	117GA105A106A4Q	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,926:16:0	
116	1	288	08:24:34.200	117GA105A106A4R	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,929:85:0	
117	1	288	08:24:50.200	117GA105A106A4S	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,930:18:0	
118	1	288	08:25:52.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4611.72 +/-	2O0	4	0	6,254,931:20:0	
119	1	288	08:25:52.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,254,931:20:0	
120	1	288	08:25:53.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4611.84 +/-	2O0	4	0	6,254,931:22:1	
121	1	288	08:25:58.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4613.07 +/-	2O0	4	0	6,254,931:30:0	
122	1	288	08:26:00.066		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4613.13 +/-	2O0	4	0	6,254,931:31:8	
123	1	288	08:26:01.466		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4613.01 +/-	2O0	4	0	6,254,931:33:9	
124	1	288	08:26:17.533		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4609.25 +/-	2O0	4	0	6,254,931:58:0	
125	1	288	08:26:40.200		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4603.93 +/-	2O0	4	0	6,254,932:01:0	
126	1	288	08:26:40.200	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,254,932:01:0	
127	1	288	08:26:41.400		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4603.88 +/-	2O0	4	0	6,254,932:02:8	
128	1	288	08:28:38.200	117GA105A106A4T	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,933:87:0	
129	1	288	08:28:54.200	117GA105A106A4U	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,934:20:0	
130	1	288	08:32:42.200	117GA105A106A4V	7STRP	-0.071924,-0.000	Slew =12.01	2O0	4	0	6,254,937:89:0	
131	1	288	08:32:58.200	117GA105A106A4W	7STRP	0.06911,-0.001,0	Slew =,0.31	2O0	4	0	6,254,938:22:0	
132	1	288	08:36:46.200	117GA11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	6,254,942:00:0	
133	1	288	08:37:16.200	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,254,942:45:0	
134	1	288	08:37:18.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4603.88 +/-	2O0	4	0	6,254,942:48:0	
135	1	288	08:37:18.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,254,942:48:0	
136	1	288	08:37:19.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4603.99 +/-	2O0	4	0	6,254,942:50:1	
137	1	288	08:37:24.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4605.23 +/-	2O0	4	0	6,254,942:58:0	
138	1	288	08:37:26.066		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4605.29 +/-	2O0	4	0	6,254,942:59:8	
139	1	288	08:37:27.466		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4605.17 +/-	2O0	4	0	6,254,942:61:9	
140	1	288	08:37:28.200		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4605.00 +/-	2O0	4	0	6,254,942:63:0	
141	1	288	08:37:48.200	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,254,943:02:0	
142	1	288	08:37:48.200		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4600.31 +/-	2O0	4	0	6,254,943:02:0	
143	1	288	08:37:49.400		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4600.25 +/-	2O0	4	0	6,254,943:03:8	
144	1	288	08:40:04.200	20WA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,254,945:24:0	
145	1	288	08:55:52.866	488AF6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,254,960:82:0	
146	1	288	09:00:00.200	480SA6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	2O0	4	0	6,254,964:89:0	
147	1	288	09:01:20.200	480SA6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	2O0	4	0	6,254,966:27:0	
148	1	288	10:10:47.533	165GB4A	7SCAN	NORM,236.643,-20	Check S/P Position	2O0	4	0	6,255,034:90:0	
149	1	288	10:13:50.200	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	6,255,038:00:0	
150	1	288	10:14:41.533	117GB	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,255,038:77:0	
151	1	288	10:14:50.866	117GB105A106A4A	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,039:00:0	
152	1	288	10:18:33.533	117GB105A106A4B	7STRP	-0.071019,0.0001	Slew =12.01	2O0	4	0	6,255,042:61:0	
153	1	288	10:18:49.533	117GB105A106A4C	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,042:85:0	
154	1	288	10:22:32.200	117GB105A106A4D	7STRP	-0.071019,0.0001	Slew =12.01	2O0	4	0	6,255,046:55:0	
155	1	288	10:22:48.200	117GB105A106A4E	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,046:79:0	
156	1	288	10:26:24.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4600.25 +/-	2O0	4	0	6,255,050:40:0	
157	1	288	10:26:24.866	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,050:40:0	
158	1	288	10:26:26.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4600.37 +/-	2O0	4	0	6,255,050:42:1	
159	1	288	10:26:30.866	117GB105A106A4F	7STRP	-0.071019,0.0001	Slew =12.01	2O0	4	0	6,255,050:49:0	
160	1	288	10:26:31.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4601.60 +/-	2O0	4	0	6,255,050:50:0	
161	1	288	10:26:32.733		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4601.66 +/-	2O0	4	0	6,255,050:51:8	
162	1	288	10:26:34.133		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4601.54 +/-	2O0	4	0	6,255,050:53:9	
163	1	288	10:26:46.866	117GB105A106A4G	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,050:73:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	1	288	10:26:50.200		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4597.78 +/-	2O0	4	0	6,255,050:78:0	
165	1	288	10:27:12.866	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,051:21:0	
166	1	288	10:27:12.866		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4592.47 +/-	2O0	4	0	6,255,051:21:0	
167	1	288	10:27:14.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4592.41 +/-	2O0	4	0	6,255,051:22:8	
168	1	288	10:30:29.533	117GB105A106A4H	7STRP	-0.071019,0.0001	Slew =12.01	2O0	4	0	6,255,054:43:0	
169	1	288	10:30:45.533	117GB105A106A4I	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,054:67:0	
170	1	288	10:34:28.200	117GB105A106A4J	7STRP	-0.071019,0.0001	Slew =12.01	2O0	4	0	6,255,058:37:0	
171	1	288	10:34:44.200	117GB105A106A4K	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,058:61:0	
172	1	288	10:38:26.866	117GB105A106A4L	7STRP	-0.071019,0.0001	Slew =12.01	2O0	4	0	6,255,062:31:0	
173	1	288	10:38:42.866	117GB105A106A4M	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,062:55:0	
174	1	288	10:39:26.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4592.41 +/-	2O0	4	0	6,255,063:30:0	
175	1	288	10:39:26.866	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,063:30:0	
176	1	288	10:39:28.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4592.53 +/-	2O0	4	0	6,255,063:32:1	
177	1	288	10:39:33.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4593.76 +/-	2O0	4	0	6,255,063:40:0	
178	1	288	10:39:34.733		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4593.82 +/-	2O0	4	0	6,255,063:41:8	
179	1	288	10:39:36.133		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4593.70 +/-	2O0	4	0	6,255,063:43:9	
180	1	288	10:39:52.200		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4589.93 +/-	2O0	4	0	6,255,063:68:0	
181	1	288	10:40:14.866		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4584.62 +/-	2O0	4	0	6,255,064:11:0	
182	1	288	10:40:14.866	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,064:11:0	
183	1	288	10:40:16.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4584.56 +/-	2O0	4	0	6,255,064:12:8	
184	1	288	10:42:25.533	117GB105A106A4N	7STRP	-0.071019,0.0001	Slew =12.01	2O0	4	0	6,255,066:25:0	
185	1	288	10:42:41.533	117GB105A106A4O	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,066:49:0	
186	1	288	10:46:24.200	117GB105A106A4P	7STRP	-0.071019,0.0001	Slew =12.01	2O0	4	0	6,255,070:19:0	
187	1	288	10:46:40.200	117GB105A106A4Q	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,070:43:0	
188	1	288	10:50:22.866	117GB105A106A4R	7STRP	-0.071019,0.0001	Slew =12.01	2O0	4	0	6,255,074:13:0	
189	1	288	10:50:38.866	117GB105A106A4S	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,074:37:0	
190	1	288	10:52:28.866	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,076:20:0	
191	1	288	10:52:28.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4584.56 +/-	2O0	4	0	6,255,076:20:0	
192	1	288	10:52:30.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4584.68 +/-	2O0	4	0	6,255,076:22:1	
193	1	288	10:52:35.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4585.92 +/-	2O0	4	0	6,255,076:30:0	
194	1	288	10:52:36.733		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4585.98 +/-	2O0	4	0	6,255,076:31:8	
195	1	288	10:52:38.133		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4585.86 +/-	2O0	4	0	6,255,076:33:9	
196	1	288	10:52:54.200		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4582.09 +/-	2O0	4	0	6,255,076:58:0	
197	1	288	10:53:16.866		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4576.78 +/-	2O0	4	0	6,255,077:01:0	
198	1	288	10:53:16.866	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,077:01:0	
199	1	288	10:53:18.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4576.72 +/-	2O0	4	0	6,255,077:02:8	
200	1	288	10:54:21.533	117GB105A106A4T	7STRP	-0.071019,0.0001	Slew =12.01	2O0	4	0	6,255,078:07:0	
201	1	288	10:54:37.533	117GB105A106A4U	7STRP	0.067502,-0.0015	Slew =,0.31	2O0	4	0	6,255,078:31:0	
202	1	288	10:58:20.200	117GB11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	6,255,082:01:0	
203	1	288	10:58:49.533	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,255,082:45:0	
204	1	288	10:58:51.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4576.72 +/-	2O0	4	0	6,255,082:48:0	
205	1	288	10:58:51.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,082:48:0	
206	1	288	10:58:52.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4576.84 +/-	2O0	4	0	6,255,082:50:1	
207	1	288	10:58:58.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4578.07 +/-	2O0	4	0	6,255,082:58:0	
208	1	288	10:58:59.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4578.13 +/-	2O0	4	0	6,255,082:59:8	
209	1	288	10:59:00.800		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4578.01 +/-	2O0	4	0	6,255,082:61:9	
210	1	288	10:59:01.533		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4577.84 +/-	2O0	4	0	6,255,082:63:0	
211	1	288	10:59:16.866	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,082:86:0	
212	1	288	10:59:16.866		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4574.25 +/-	2O0	4	0	6,255,082:86:0	
213	1	288	10:59:18.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4574.19 +/-	2O0	4	0	6,255,082:87:8	
214	1	288	11:00:20.200	165GC4A	7SCAN	NORM,235.689999,	Check S/P Position	2O0	4	0	6,255,083:90:0	
215	1	288	11:00:20.866	176GC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	6,255,084:00:0	
216	1	288	11:01:12.200	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,255,084:77:0	
217	1	288	11:01:21.533	117GC105A106A4A	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,085:00:0	
218	1	288	11:04:28.200	117GC105A106A4B	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,088:07:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	1	288	11:04:42.866	117GC105A106A4C	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,088:29:0	
220	1	288	11:07:49.533	117GC105A106A4D	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,091:36:0	
221	1	288	11:08:04.200	117GC105A106A4E	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,091:58:0	
222	1	288	11:11:10.866	117GC105A106A4F	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,094:65:0	
223	1	288	11:11:25.533	117GC105A106A4G	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,094:87:0	
224	1	288	11:12:55.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4574.19 +/-	2O0	4	0	6,255,096:40:0	
225	1	288	11:12:55.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,096:40:0	
226	1	288	11:12:56.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4574.31 +/-	2O0	4	0	6,255,096:42:1	
227	1	288	11:13:02.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4575.54 +/-	2O0	4	0	6,255,096:50:0	
228	1	288	11:13:03.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4575.60 +/-	2O0	4	0	6,255,096:51:8	
229	1	288	11:13:04.800		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4575.48 +/-	2O0	4	0	6,255,096:53:9	
230	1	288	11:13:20.866		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4571.72 +/-	2O0	4	0	6,255,096:78:0	
231	1	288	11:13:43.533		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4566.40 +/-	2O0	4	0	6,255,097:21:0	
232	1	288	11:13:43.533	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,097:21:0	
233	1	288	11:13:44.733		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4566.34 +/-	2O0	4	0	6,255,097:22:8	
234	1	288	11:14:32.200	117GC105A106A4H	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,098:03:0	
235	1	288	11:14:46.866	117GC105A106A4I	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,098:25:0	
236	1	288	11:17:53.533	117GC105A106A4J	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,101:32:0	
237	1	288	11:18:08.200	117GC105A106A4K	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,101:54:0	
238	1	288	11:21:14.866	117GC105A106A4L	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,104:61:0	
239	1	288	11:21:29.533	117GC105A106A4M	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,104:83:0	
240	1	288	11:24:36.200	117GC105A106A4N	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,107:90:0	
241	1	288	11:24:50.866	117GC105A106A4O	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,108:21:0	
242	1	288	11:25:57.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4566.34 +/-	2O0	4	0	6,255,109:30:0	
243	1	288	11:25:57.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,109:30:0	
244	1	288	11:25:58.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4566.46 +/-	2O0	4	0	6,255,109:32:1	
245	1	288	11:26:04.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4567.70 +/-	2O0	4	0	6,255,109:40:0	
246	1	288	11:26:05.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4567.76 +/-	2O0	4	0	6,255,109:41:8	
247	1	288	11:26:06.800		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4567.64 +/-	2O0	4	0	6,255,109:43:9	
248	1	288	11:26:22.866		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4563.87 +/-	2O0	4	0	6,255,109:68:0	
249	1	288	11:26:45.533	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,110:11:0	
250	1	288	11:26:45.533		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4558.56 +/-	2O0	4	0	6,255,110:11:0	
251	1	288	11:26:46.733		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4558.50 +/-	2O0	4	0	6,255,110:12:8	
252	1	288	11:27:57.533	117GC105A106A4P	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,111:28:0	
253	1	288	11:28:12.200	117GC105A106A4Q	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,111:50:0	
254	1	288	11:31:18.866	117GC105A106A4R	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,114:57:0	
255	1	288	11:31:33.533	117GC105A106A4S	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,114:79:0	
256	1	288	11:34:40.200	117GC105A106A4T	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,117:86:0	
257	1	288	11:34:54.866	117GC105A106A4U	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,118:17:0	
258	1	288	11:38:01.533	117GC105A106A4V	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,121:24:0	
259	1	288	11:38:16.200	117GC105A106A4W	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,121:46:0	
260	1	288	11:38:59.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,122:20:0	
261	1	288	11:38:59.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4558.50 +/-	2O0	4	0	6,255,122:20:0	
262	1	288	11:39:00.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4558.62 +/-	2O0	4	0	6,255,122:22:1	
263	1	288	11:39:06.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4559.85 +/-	2O0	4	0	6,255,122:30:0	
264	1	288	11:39:07.400		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4559.91 +/-	2O0	4	0	6,255,122:31:8	
265	1	288	11:39:08.800		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4559.79 +/-	2O0	4	0	6,255,122:33:9	
266	1	288	11:39:24.866		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4556.03 +/-	2O0	4	0	6,255,122:58:0	
267	1	288	11:39:47.533		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4550.72 +/-	2O0	4	0	6,255,123:01:0	
268	1	288	11:39:47.533	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,123:01:0	
269	1	288	11:39:48.733		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4550.66 +/-	2O0	4	0	6,255,123:02:8	
270	1	288	11:41:22.866	117GC105A106A4X	7STRP	-0.054053,0.0081	Slew =12.01	2O0	4	0	6,255,124:53:0	
271	1	288	11:41:37.533	117GC105A106A4Y	7STRP	0.052749,-0.009,	Slew =,0.29	2O0	4	0	6,255,124:75:0	
272	1	288	11:44:44.200	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	6,255,127:82:0	
273	1	288	11:45:04.200	20WB4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,255,128:21:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	1	288	11:45:20.200	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,255,128	45:0
275	1	288	11:45:22.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,128	48:0
276	1	288	11:45:22.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4550.66 +/-	2O0	4	0	6,255,128	48:0
277	1	288	11:45:23.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4550.78 +/-	2O0	4	0	6,255,128	50:1
278	1	288	11:45:28.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4552.01 +/-	2O0	4	0	6,255,128	58:0
279	1	288	11:45:30.066		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4552.07 +/-	2O0	4	0	6,255,128	59:8
280	1	288	11:45:31.466		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4551.95 +/-	2O0	4	0	6,255,128	61:9
281	1	288	11:45:32.200		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4551.78 +/-	2O0	4	0	6,255,128	63:0
282	1	288	11:45:47.533		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4548.18 +/-	2O0	4	0	6,255,128	86:0
283	1	288	11:45:47.533	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,128	86:0
284	1	288	11:45:48.733		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4548.13 +/-	2O0	4	0	6,255,128	87:8
285	1	288	12:40:26.133	165GD4A	7SCAN	NORM,245.591999,	Check S/P Position	2O0	4	0	6,255,182	90:0
286	1	288	12:43:28.800	176GD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	6,255,186	00:0
287	1	288	12:44:20.133	117GD	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,255,186	77:0
288	1	288	12:44:29.466	117GD105A106A4A	7STRP	0.074839,0.0,0,0	Slew =,0.31	2O0	4	0	6,255,187	00:0
289	1	288	12:48:35.466	117GD105A106A4B	7STRP	-0.079769,-0.001	Slew =12.01	2O0	4	0	6,255,191	05:0
290	1	288	12:48:52.133	117GD105A106A4C	7STRP	0.074839,0.0,0,0	Slew =,0.31	2O0	4	0	6,255,191	30:0
291	1	288	12:52:58.133	117GD105A106A4D	7STRP	-0.079769,-0.001	Slew =12.01	2O0	4	0	6,255,195	35:0
292	1	288	12:53:14.800	117GD105A106A4E	7STRP	0.074839,0.0,0,0	Slew =,0.31	2O0	4	0	6,255,195	60:0
293	1	288	12:56:03.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,198	40:0
294	1	288	12:56:03.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4548.13 +/-	2O0	4	0	6,255,198	40:0
295	1	288	12:56:04.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4548.24 +/-	2O0	4	0	6,255,198	42:1
296	1	288	12:56:10.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4549.48 +/-	2O0	4	0	6,255,198	50:0
297	1	288	12:56:11.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4549.54 +/-	2O0	4	0	6,255,198	51:8
298	1	288	12:56:12.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4549.42 +/-	2O0	4	0	6,255,198	53:9
299	1	288	12:56:28.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4545.65 +/-	2O0	4	0	6,255,198	78:0
300	1	288	12:56:51.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4540.34 +/-	2O0	4	0	6,255,199	21:0
301	1	288	12:56:51.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,199	21:0
302	1	288	12:56:52.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4540.28 +/-	2O0	4	0	6,255,199	22:8
303	1	288	12:57:20.800	117GD105A106A4F	7STRP	-0.079769,-0.001	Slew =12.01	2O0	4	0	6,255,199	65:0
304	1	288	12:57:37.466	117GD105A106A4G	7STRP	0.074839,0.0,0,0	Slew =,0.31	2O0	4	0	6,255,199	90:0
305	1	288	13:01:43.466	117GD105A106A4H	7STRP	-0.079769,-0.001	Slew =12.01	2O0	4	0	6,255,204	04:0
306	1	288	13:02:00.133	117GD105A106A4I	7STRP	0.074839,0.0,0,0	Slew =,0.31	2O0	4	0	6,255,204	29:0
307	1	288	13:06:06.133	117GD105A106A4J	7STRP	-0.079769,-0.001	Slew =12.01	2O0	4	0	6,255,208	34:0
308	1	288	13:06:22.800	117GD105A106A4K	7STRP	0.074839,0.0,0,0	Slew =,0.31	2O0	4	0	6,255,208	59:0
309	1	288	13:09:05.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4540.28 +/-	2O0	4	0	6,255,211	30:0
310	1	288	13:09:05.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,211	30:0
311	1	288	13:09:06.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4540.40 +/-	2O0	4	0	6,255,211	32:1
312	1	288	13:09:12.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4541.64 +/-	2O0	4	0	6,255,211	40:0
313	1	288	13:09:13.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4541.70 +/-	2O0	4	0	6,255,211	41:8
314	1	288	13:09:14.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4541.58 +/-	2O0	4	0	6,255,211	43:9
315	1	288	13:09:30.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4537.81 +/-	2O0	4	0	6,255,211	68:0
316	1	288	13:09:53.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,212	11:0
317	1	288	13:09:53.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4532.50 +/-	2O0	4	0	6,255,212	11:0
318	1	288	13:09:54.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4532.44 +/-	2O0	4	0	6,255,212	12:8
319	1	288	13:10:28.800	117GD105A106A4L	7STRP	-0.079769,-0.001	Slew =12.01	2O0	4	0	6,255,212	64:0
320	1	288	13:10:45.466	117GD105A106A4M	7STRP	0.074839,0.0,0,0	Slew =,0.31	2O0	4	0	6,255,212	89:0
321	1	288	13:14:51.466	117GD105A106A4N	7STRP	-0.079769,-0.001	Slew =12.01	2O0	4	0	6,255,217	03:0
322	1	288	13:15:08.133	117GD105A106A4O	7STRP	0.074839,0.0,0,0	Slew =,0.31	2O0	4	0	6,255,217	28:0
323	1	288	13:19:14.133	117GD105A106A4P	7STRP	-0.079769,-0.001	Slew =12.01	2O0	4	0	6,255,221	33:0
324	1	288	13:19:30.800	117GD105A106A4Q	7STRP	0.074839,0.0,0,0	Slew =,0.31	2O0	4	0	6,255,221	58:0
325	1	288	13:22:07.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4532.44 +/-	2O0	4	0	6,255,224	20:0
326	1	288	13:22:07.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,224	20:0
327	1	288	13:22:08.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4532.56 +/-	2O0	4	0	6,255,224	22:1
328	1	288	13:22:14.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4533.79 +/-	2O0	4	0	6,255,224	30:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	1	288	13:22:15.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4533.85 +/-	2O0	4	0	6,255,224:31:8	
330	1	288	13:22:16.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4533.73 +/-	2O0	4	0	6,255,224:33:9	
331	1	288	13:22:32.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4529.97 +/-	2O0	4	0	6,255,224:58:0	
332	1	288	13:22:55.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,225:01:0	
333	1	288	13:22:55.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4524.65 +/-	2O0	4	0	6,255,225:01:0	
334	1	288	13:22:56.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4524.59 +/-	2O0	4	0	6,255,225:02:8	
335	1	288	13:23:36.800	117GD105A106A4R	7STRP	-0.079769,-0.001	Slew =12.01	2O0	4	0	6,255,225:63:0	
336	1	288	13:23:53.466	117GD105A106A4S	7STRP	0.074839,0.0,0,0	Slew =,0.31	2O0	4	0	6,255,225:88:0	
337	1	288	13:27:59.466	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	6,255,230:02:0	
338	1	288	13:28:28.133	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,255,230:45:0	
339	1	288	13:28:30.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,230:48:0	
340	1	288	13:28:30.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4524.59 +/-	2O0	4	0	6,255,230:48:0	
341	1	288	13:28:31.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4524.71 +/-	2O0	4	0	6,255,230:50:1	
342	1	288	13:28:36.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4525.95 +/-	2O0	4	0	6,255,230:58:0	
343	1	288	13:28:38.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4526.01 +/-	2O0	4	0	6,255,230:59:8	
344	1	288	13:28:39.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4525.89 +/-	2O0	4	0	6,255,230:61:9	
345	1	288	13:28:40.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4525.72 +/-	2O0	4	0	6,255,230:63:0	
346	1	288	13:28:55.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4522.12 +/-	2O0	4	0	6,255,230:86:0	
347	1	288	13:28:55.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,230:86:0	
348	1	288	13:28:56.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4522.06 +/-	2O0	4	0	6,255,230:87:8	
349	1	288	13:29:58.800	165GF4A	7SCAN	NORM,248.776999,	Check S/P Position	2O0	4	0	6,255,231:90:0	
350	1	288	13:29:59.466	176GF6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	6,255,232:00:0	
351	1	288	13:30:50.800	117GF	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,255,232:77:0	
352	1	288	13:31:00.133	117GF105A106A4A	7STRP	0.074839,0.0007,	Slew =,0.31	2O0	4	0	6,255,233:00:0	
353	1	288	13:35:06.133	117GF105A106A4B	7STRP	-0.07997,-0.0023	Slew =12.01	2O0	4	0	6,255,237:05:0	
354	1	288	13:35:22.800	117GF105A106A4C	7STRP	0.074839,0.0007,	Slew =,0.31	2O0	4	0	6,255,237:30:0	
355	1	288	13:39:28.800	117GF105A106A4D	7STRP	-0.07997,-0.0023	Slew =12.01	2O0	4	0	6,255,241:35:0	
356	1	288	13:39:45.466	117GF105A106A4E	7STRP	0.074839,0.0007,	Slew =,0.31	2O0	4	0	6,255,241:60:0	
357	1	288	13:42:34.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4522.06 +/-	2O0	4	0	6,255,244:40:0	
358	1	288	13:42:34.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,244:40:0	
359	1	288	13:42:35.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4522.18 +/-	2O0	4	0	6,255,244:42:1	
360	1	288	13:42:40.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4523.42 +/-	2O0	4	0	6,255,244:50:0	
361	1	288	13:42:42.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4523.48 +/-	2O0	4	0	6,255,244:51:8	
362	1	288	13:42:43.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4523.36 +/-	2O0	4	0	6,255,244:53:9	
363	1	288	13:42:59.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4519.59 +/-	2O0	4	0	6,255,244:78:0	
364	1	288	13:43:22.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,245:21:0	
365	1	288	13:43:22.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4514.28 +/-	2O0	4	0	6,255,245:21:0	
366	1	288	13:43:23.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4514.22 +/-	2O0	4	0	6,255,245:22:8	
367	1	288	13:43:51.466	117GF105A106A4F	7STRP	-0.07997,-0.0023	Slew =12.01	2O0	4	0	6,255,245:65:0	
368	1	288	13:44:08.133	117GF105A106A4G	7STRP	0.074839,0.0007,	Slew =,0.31	2O0	4	0	6,255,245:90:0	
369	1	288	13:48:14.133	117GF105A106A4H	7STRP	-0.07997,-0.0023	Slew =12.01	2O0	4	0	6,255,250:04:0	
370	1	288	13:48:30.800	117GF105A106A4I	7STRP	0.074839,0.0007,	Slew =,0.31	2O0	4	0	6,255,250:29:0	
371	1	288	13:52:32.800	488AG6A	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,255,254:28:0	
372	1	288	13:52:36.800	117GF105A106A4J	7STRP	-0.07997,-0.0023	Slew =12.01	2O0	4	0	6,255,254:34:0	
373	1	288	13:52:53.466	117GF105A106A4K	7STRP	0.074839,0.0007,	Slew =,0.31	2O0	4	0	6,255,254:59:0	
374	1	288	13:55:36.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,257:30:0	
375	1	288	13:55:36.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4514.22 +/-	2O0	4	0	6,255,257:30:0	
376	1	288	13:55:37.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4514.34 +/-	2O0	4	0	6,255,257:32:1	
377	1	288	13:55:42.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4515.57 +/-	2O0	4	0	6,255,257:40:0	
378	1	288	13:55:44.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4515.63 +/-	2O0	4	0	6,255,257:41:8	
379	1	288	13:55:45.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4515.51 +/-	2O0	4	0	6,255,257:43:9	
380	1	288	13:56:01.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4511.75 +/-	2O0	4	0	6,255,257:68:0	
381	1	288	13:56:24.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4506.43 +/-	2O0	4	0	6,255,258:11:0	
382	1	288	13:56:24.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,258:11:0	
383	1	288	13:56:25.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4506.38 +/-	2O0	4	0	6,255,258:12:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	1	288	13:56:40.800	488AG6B	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	2O0	4	0	6,255,258:36:0	
385	1	288	13:56:59.466	117GF105A106A4L	7STRP	-0.07997,-0.0023	Slew =12.01	2O0	4	0	6,255,258:64:0	
386	1	288	13:57:16.133	117GF105A106A4M	7STRP	0.074839,0.0007,	Slew =,0.31	2O0	4	0	6,255,258:89:0	
387	1	288	14:01:22.133	117GF105A106A4N	7STRP	-0.07997,-0.0023	Slew =12.01	2O0	4	0	6,255,263:03:0	
388	1	288	14:01:38.800	117GF105A106A4O	7STRP	0.074839,0.0007,	Slew =,0.31	2O0	4	0	6,255,263:28:0	
389	1	288	14:05:44.800	117GF105A106A4P	7STRP	-0.07997,-0.0023	Slew =12.01	2O0	4	0	6,255,267:33:0	
390	1	288	14:06:01.466	117GF105A106A4Q	7STRP	0.074839,0.0007,	Slew =,0.31	2O0	4	0	6,255,267:58:0	
391	1	288	14:08:38.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4506.38 +/-	2O0	4	0	6,255,270:20:0	
392	1	288	14:08:38.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,270:20:0	
393	1	288	14:08:39.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4506.49 +/-	2O0	4	0	6,255,270:22:1	
394	1	288	14:08:44.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4507.73 +/-	2O0	4	0	6,255,270:30:0	
395	1	288	14:08:46.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4507.79 +/-	2O0	4	0	6,255,270:31:8	
396	1	288	14:08:47.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4507.67 +/-	2O0	4	0	6,255,270:33:9	
397	1	288	14:09:03.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4503.90 +/-	2O0	4	0	6,255,270:58:0	
398	1	288	14:09:26.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,271:01:0	
399	1	288	14:09:26.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4498.59 +/-	2O0	4	0	6,255,271:01:0	
400	1	288	14:09:27.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4498.53 +/-	2O0	4	0	6,255,271:02:8	
401	1	288	14:10:07.466	117GF105A106A4R	7STRP	-0.07997,-0.0023	Slew =12.01	2O0	4	0	6,255,271:63:0	
402	1	288	14:10:24.133	117GF105A106A4S	7STRP	0.074839,0.0007,	Slew =,0.31	2O0	4	0	6,255,271:88:0	
403	1	288	14:14:30.133	117GF11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	6,255,276:02:0	
404	1	288	14:14:58.800	176GF6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,255,276:45:0	
405	1	288	14:15:00.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4498.53 +/-	2O0	4	0	6,255,276:48:0	
406	1	288	14:15:00.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,276:48:0	
407	1	288	14:15:02.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4498.65 +/-	2O0	4	0	6,255,276:50:1	
408	1	288	14:15:07.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4499.89 +/-	2O0	4	0	6,255,276:58:0	
409	1	288	14:15:08.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4499.95 +/-	2O0	4	0	6,255,276:59:8	
410	1	288	14:15:10.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4499.83 +/-	2O0	4	0	6,255,276:61:9	
411	1	288	14:15:10.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4499.65 +/-	2O0	4	0	6,255,276:63:0	
412	1	288	14:15:26.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4496.06 +/-	2O0	4	0	6,255,276:86:0	
413	1	288	14:15:26.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,276:86:0	
414	1	288	14:15:27.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4496.00 +/-	2O0	4	0	6,255,276:87:8	
415	1	288	14:18:30.800	165GE4A	7SCAN	NORM,241.574999,	Check S/P Position	2O0	4	0	6,255,279:90:0	
416	1	288	14:18:31.466	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	6,255,280:00:0	
417	1	288	14:19:22.800	117GE	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,255,280:77:0	
418	1	288	14:19:32.133	117GE105A106A4A	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,281:00:0	
419	1	288	14:21:22.133	117GE105A106A4B	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,282:74:0	
420	1	288	14:21:34.133	117GE105A106A4C	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,283:01:0	
421	1	288	14:23:24.133	117GE105A106A4D	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,284:75:0	
422	1	288	14:23:36.133	117GE105A106A4E	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,285:02:0	
423	1	288	14:25:26.133	117GE105A106A4F	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,286:76:0	
424	1	288	14:25:38.133	117GE105A106A4G	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,287:03:0	
425	1	288	14:27:28.133	117GE105A106A4H	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,288:77:0	
426	1	288	14:27:40.133	117GE105A106A4I	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,289:04:0	
427	1	288	14:29:30.133	117GE105A106A4J	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,290:78:0	
428	1	288	14:29:42.133	117GE105A106A4K	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,291:05:0	
429	1	288	14:31:06.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,292:40:0	
430	1	288	14:31:06.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4496.00 +/-	2O0	4	0	6,255,292:40:0	
431	1	288	14:31:07.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4496.12 +/-	2O0	4	0	6,255,292:42:1	
432	1	288	14:31:12.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4497.35 +/-	2O0	4	0	6,255,292:50:0	
433	1	288	14:31:14.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4497.41 +/-	2O0	4	0	6,255,292:51:8	
434	1	288	14:31:15.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4497.29 +/-	2O0	4	0	6,255,292:53:9	
435	1	288	14:31:31.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4493.53 +/-	2O0	4	0	6,255,292:78:0	
436	1	288	14:31:32.133	117GE105A106A4L	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,292:79:0	
437	1	288	14:31:44.133	117GE105A106A4M	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,293:06:0	
438	1	288	14:31:54.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4488.22 +/-	2O0	4	0	6,255,293:21:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	1	288	14:31:54.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,293:21:0	
440	1	288	14:31:55.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4488.16 +/-	2O0	4	0	6,255,293:22:8	
441	1	288	14:33:34.133	117GE105A106A4N	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,294:80:0	
442	1	288	14:33:46.133	117GE105A106A4O	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,295:07:0	
443	1	288	14:35:36.133	117GE105A106A4P	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,296:81:0	
444	1	288	14:35:48.133	117GE105A106A4Q	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,297:08:0	
445	1	288	14:37:38.133	117GE105A106A4R	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,298:82:0	
446	1	288	14:37:50.133	117GE105A106A4S	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,299:09:0	
447	1	288	14:39:40.133	117GE105A106A4T	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,300:83:0	
448	1	288	14:39:52.133	117GE105A106A4U	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,301:10:0	
449	1	288	14:41:42.133	117GE105A106A4V	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,302:84:0	
450	1	288	14:41:54.133	117GE105A106A4W	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,303:11:0	
451	1	288	14:43:44.133	117GE105A106A4X	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,304:85:0	
452	1	288	14:43:56.133	117GE105A106A4Y	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,305:12:0	
453	1	288	14:44:08.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4488.16 +/-	2O0	4	0	6,255,305:30:0	
454	1	288	14:44:08.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,305:30:0	
455	1	288	14:44:09.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4488.28 +/-	2O0	4	0	6,255,305:32:1	
456	1	288	14:44:14.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4489.51 +/-	2O0	4	0	6,255,305:40:0	
457	1	288	14:44:16.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4489.57 +/-	2O0	4	0	6,255,305:41:8	
458	1	288	14:44:17.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4489.45 +/-	2O0	4	0	6,255,305:43:9	
459	1	288	14:44:33.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4485.68 +/-	2O0	4	0	6,255,305:68:0	
460	1	288	14:44:56.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4480.37 +/-	2O0	4	0	6,255,306:11:0	
461	1	288	14:44:56.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,306:11:0	
462	1	288	14:44:57.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4480.31 +/-	2O0	4	0	6,255,306:12:8	
463	1	288	14:45:46.133	117GE105A106A4Z	7STRP	-0.015381,0.0013	Slew =12.01	2O0	4	0	6,255,306:86:0	
464	1	288	14:45:58.133	117GE105A106A4AA	7STRP	0.017002,-0.0025	Slew =,0.16	2O0	4	0	6,255,307:13:0	
465	1	288	14:47:48.133	117GE11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	6,255,308:87:0	
466	1	288	14:48:20.800	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,255,309:45:0	
467	1	288	14:48:22.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,309:48:0	
468	1	288	14:48:22.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4480.31 +/-	2O0	4	0	6,255,309:48:0	
469	1	288	14:48:24.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4480.43 +/-	2O0	4	0	6,255,309:50:1	
470	1	288	14:48:29.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4481.67 +/-	2O0	4	0	6,255,309:58:0	
471	1	288	14:48:30.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4481.73 +/-	2O0	4	0	6,255,309:59:8	
472	1	288	14:48:32.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *4481.61 +/-	2O0	4	0	6,255,309:61:9	
473	1	288	14:48:32.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4481.43 +/-	2O0	4	0	6,255,309:63:0	
474	1	288	14:48:46.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4478.31 +/-	2O0	4	0	6,255,309:83:0	
475	1	288	14:48:46.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,309:83:0	
476	1	288	14:48:47.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4478.25 +/-	2O0	4	0	6,255,309:84:8	
477	1	288	14:50:04.133	20WC4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,255,311:18:0	
478	1	288	15:05:42.800	488AG6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	2O0	4	0	6,255,326:61:0	
479	1	288	15:11:50.133	488AG6D	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	2O0	4	0	6,255,332:66:0	
480	1	288	15:15:36.800	488AG6E	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,255,336:42:0	
481	1	288	15:30:09.466	175NA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,350:77:0	
482	1	288	15:30:09.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4478.25 +/-	2O0	4	0	6,255,350:77:0	
483	1	288	15:30:10.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4478.37 +/-	2O0	4	0	6,255,350:79:1	
484	1	288	15:30:16.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4479.60 +/-	2O0	4	0	6,255,350:87:0	
485	1	288	15:30:16.133	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	2O0	4	0	6,255,350:87:0	
486	1	288	15:30:17.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4479.66 +/-	2O0	4	0	6,255,350:88:8	
487	1	288	15:30:18.133	175NA176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	6,255,350:90:0	
488	1	288	15:30:18.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4479.54 +/-	2O0	4	0	6,255,350:90:9	
489	1	288	15:30:18.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4479.54 +/-	2O0	4	0	6,255,350:90:9	
490	1	288	15:30:18.800	431OA6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	6,255,351:00:0	
491	1	288	15:46:18.133	488AH6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,255,366:74:0	
492	1	288	16:22:38.133	488AH6B	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,255,402:68:0	
493	1	288	16:56:17.466	488AH6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,255,436:03:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	1	288	17:00:00.133	488AH6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,255,439	64:0
495	1	288	17:26:37.466	432OA431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	6,255,466	03:0
496	1	288	17:26:38.133	432OA6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,255,466	04:0
497	1	288	17:26:41.466	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2O0	4	0	6,255,466	09:0
498	1	288	17:26:45.466	175NA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,466	15:0
499	1	288	17:26:45.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2842.03 +/-	2O0	4	0	6,255,466	15:0
500	1	288	17:26:46.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2841.97 +/-	2O0	4	0	6,255,466	16:8
501	1	288	17:27:30.133	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2O0	4	0	6,255,466	82:0
502	1	288	17:27:30.800	282NB432A6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,255,466	83:0
503	1	288	17:57:35.466	488AH6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,255,496	60:0
504	1	288	19:14:46.133	165GG4A	7SCAN	NORM,225.636999,	Check S/P Position	2O0	4	0	6,255,572	90:0
505	1	288	19:17:48.800	176GG6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	6,255,576	00:0
506	1	288	19:18:40.133	117GG	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,255,576	77:0
507	1	288	19:18:49.466	117GG105A106A4A	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,577	00:0
508	1	288	19:21:05.466	117GG105A106A4B	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,579	22:0
509	1	288	19:21:17.466	117GG105A106A4C	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,579	40:0
510	1	288	19:23:33.466	117GG105A106A4D	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,581	62:0
511	1	288	19:23:45.466	117GG105A106A4E	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,581	80:0
512	1	288	19:26:01.466	117GG105A106A4F	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,584	11:0
513	1	288	19:26:13.466	117GG105A106A4G	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,584	29:0
514	1	288	19:28:29.466	117GG105A106A4H	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,586	51:0
515	1	288	19:28:41.466	117GG105A106A4I	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,586	69:0
516	1	288	19:30:23.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2841.97 +/-	2O0	4	0	6,255,588	40:0
517	1	288	19:30:23.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,588	40:0
518	1	288	19:30:24.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2842.09 +/-	2O0	4	0	6,255,588	42:1
519	1	288	19:30:30.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2843.32 +/-	2O0	4	0	6,255,588	50:0
520	1	288	19:30:31.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2843.38 +/-	2O0	4	0	6,255,588	51:8
521	1	288	19:30:32.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2843.26 +/-	2O0	4	0	6,255,588	53:9
522	1	288	19:30:48.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2839.50 +/-	2O0	4	0	6,255,588	78:0
523	1	288	19:30:57.466	117GG105A106A4J	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,589	00:0
524	1	288	19:31:09.466	117GG105A106A4K	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,589	18:0
525	1	288	19:31:11.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,589	21:0
526	1	288	19:31:11.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2834.18 +/-	2O0	4	0	6,255,589	21:0
527	1	288	19:31:12.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2834.13 +/-	2O0	4	0	6,255,589	22:8
528	1	288	19:33:25.466	117GG105A106A4L	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,591	40:0
529	1	288	19:33:37.466	117GG105A106A4M	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,591	58:0
530	1	288	19:35:53.466	117GG105A106A4N	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,593	80:0
531	1	288	19:36:05.466	117GG105A106A4O	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,594	07:0
532	1	288	19:38:21.466	117GG105A106A4P	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,596	29:0
533	1	288	19:38:33.466	117GG105A106A4Q	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,596	47:0
534	1	288	19:40:49.466	117GG105A106A4R	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,598	69:0
535	1	288	19:41:01.466	117GG105A106A4S	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,598	87:0
536	1	288	19:43:17.466	117GG105A106A4T	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,601	18:0
537	1	288	19:43:25.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2834.13 +/-	2O0	4	0	6,255,601	30:0
538	1	288	19:43:25.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,601	30:0
539	1	288	19:43:26.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2834.24 +/-	2O0	4	0	6,255,601	32:1
540	1	288	19:43:29.466	117GG105A106A4U	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,601	36:0
541	1	288	19:43:32.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2835.48 +/-	2O0	4	0	6,255,601	40:0
542	1	288	19:43:33.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2835.54 +/-	2O0	4	0	6,255,601	41:8
543	1	288	19:43:34.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2835.42 +/-	2O0	4	0	6,255,601	43:9
544	1	288	19:43:50.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2831.65 +/-	2O0	4	0	6,255,601	68:0
545	1	288	19:44:13.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,602	11:0
546	1	288	19:44:13.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2826.34 +/-	2O0	4	0	6,255,602	11:0
547	1	288	19:44:14.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2826.28 +/-	2O0	4	0	6,255,602	12:8
548	1	288	19:45:45.466	117GG105A106A4V	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,603	58:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	1	288	19:45:57.466	117GG105A106A4W	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,603:76:0	
550	1	288	19:48:13.466	117GG105A106A4X	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,606:07:0	
551	1	288	19:48:25.466	117GG105A106A4Y	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,606:25:0	
552	1	288	19:50:41.466	117GG105A106A4Z	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,608:47:0	
553	1	288	19:50:53.466	117GG105A106A4AA	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,608:65:0	
554	1	288	19:53:09.466	117GG105A106A4AB	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,610:87:0	
555	1	288	19:53:21.466	117GG105A106A4AC	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,611:14:0	
556	1	288	19:55:37.466	117GG105A106A4AD	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,613:36:0	
557	1	288	19:55:49.466	117GG105A106A4AE	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,613:54:0	
558	1	288	19:56:27.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2826.28 +/-	2O0	4	0	6,255,614:20:0	
559	1	288	19:56:27.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,614:20:0	
560	1	288	19:56:28.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2826.40 +/-	2O0	4	0	6,255,614:22:1	
561	1	288	19:56:34.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2827.64 +/-	2O0	4	0	6,255,614:30:0	
562	1	288	19:56:35.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2827.70 +/-	2O0	4	0	6,255,614:31:8	
563	1	288	19:56:36.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2827.58 +/-	2O0	4	0	6,255,614:33:9	
564	1	288	19:56:52.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2823.81 +/-	2O0	4	0	6,255,614:58:0	
565	1	288	19:57:15.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2818.50 +/-	2O0	4	0	6,255,615:01:0	
566	1	288	19:57:15.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,615:01:0	
567	1	288	19:57:16.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2818.44 +/-	2O0	4	0	6,255,615:02:8	
568	1	288	19:58:05.466	117GG105A106A4AF	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,615:76:0	
569	1	288	19:58:17.466	117GG105A106A4AG	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,616:03:0	
570	1	288	20:00:33.466	117GG105A106A4AH	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,618:25:0	
571	1	288	20:00:45.466	117GG105A106A4AI	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,618:43:0	
572	1	288	20:03:01.466	117GG105A106A4AJ	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,620:65:0	
573	1	288	20:03:13.466	117GG105A106A4AK	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,620:83:0	
574	1	288	20:05:29.466	117GG105A106A4AL	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,623:14:0	
575	1	288	20:05:41.466	117GG105A106A4AM	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,623:32:0	
576	1	288	20:07:57.466	117GG105A106A4AN	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,625:54:0	
577	1	288	20:08:09.466	117GG105A106A4AO	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,625:72:0	
578	1	288	20:09:30.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2818.44 +/-	2O0	4	0	6,255,627:11:0	
579	1	288	20:09:30.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,627:11:0	
580	1	288	20:09:31.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2818.56 +/-	2O0	4	0	6,255,627:13:1	
581	1	288	20:09:36.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2819.79 +/-	2O0	4	0	6,255,627:21:0	
582	1	288	20:09:38.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2819.85 +/-	2O0	4	0	6,255,627:22:8	
583	1	288	20:09:39.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2819.73 +/-	2O0	4	0	6,255,627:24:9	
584	1	288	20:09:54.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2816.12 +/-	2O0	4	0	6,255,627:48:0	
585	1	288	20:10:17.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,627:82:0	
586	1	288	20:10:17.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2810.81 +/-	2O0	4	0	6,255,627:82:0	
587	1	288	20:10:18.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2810.75 +/-	2O0	4	0	6,255,627:83:8	
588	1	288	20:10:25.466	117GG105A106A4AP	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,628:03:0	
589	1	288	20:10:37.466	117GG105A106A4AQ	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,628:21:0	
590	1	288	20:12:53.466	117GG105A106A4AR	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,630:43:0	
591	1	288	20:13:05.466	117GG105A106A4AS	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,630:61:0	
592	1	288	20:15:21.466	117GG105A106A4AT	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,632:83:0	
593	1	288	20:15:33.466	117GG105A106A4AU	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,633:10:0	
594	1	288	20:17:49.466	117GG105A106A4AV	7STRP	-0.021904,0.0017	Slew =12.01	2O0	4	0	6,255,635:32:0	
595	1	288	20:18:01.466	117GG105A106A4AW	7STRP	0.022604,-0.003,	Slew =,0.17	2O0	4	0	6,255,635:50:0	
596	1	288	20:20:17.466	117GG11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	6,255,637:72:0	
597	1	288	20:21:00.133	176GG6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,255,638:45:0	
598	1	288	20:21:02.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2810.75 +/-	2O0	4	0	6,255,638:48:0	
599	1	288	20:21:02.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,638:48:0	
600	1	288	20:21:03.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2810.87 +/-	2O0	4	0	6,255,638:50:1	
601	1	288	20:21:08.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2812.10 +/-	2O0	4	0	6,255,638:58:0	
602	1	288	20:21:10.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2812.16 +/-	2O0	4	0	6,255,638:59:8	
603	1	288	20:21:11.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2812.04 +/-	2O0	4	0	6,255,638:61:9	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	1	288	20:21:12.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2811.87 +/-	2O0	4	0	6,255,638:63:0	
605	1	288	20:21:32.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2807.18 +/-	2O0	4	0	6,255,639:02:0	
606	1	288	20:21:32.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,639:02:0	
607	1	288	20:21:33.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2807.13 +/-	2O0	4	0	6,255,639:03:8	
608	1	288	20:31:21.466	20IA6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,255,648:67:0	
609	1	288	20:43:44.800	165IA4A	7SCAN	NORM,224.898998,	Check S/P Position	2O0	4	0	6,255,660:90:0	
610	1	288	20:46:37.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2807.13 +/-	2O0	4	0	6,255,663:76:0	
611	1	288	20:46:37.466	175IA422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	2O0	4	0	6,255,663:76:0	
612	1	288	20:46:38.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2807.24 +/-	2O0	4	0	6,255,663:78:1	
613	1	288	20:46:39.466	118IA	**SMOS**	GS		2O0	4	0	6,255,663:79:0	
614	1	288	20:46:44.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2808.48 +/-	2O0	4	0	6,255,663:86:0	
615	1	288	20:46:45.333		DMS:	: *RUNUP	R403, TRACK *2, *REV, TIC *2808.54 +/-	2O0	4	0	6,255,663:87:8	
616	1	288	20:46:46.133	165IA4B	7VECT		Inert vect update UTC	2O0	4	0	6,255,663:89:0	
617	1	288	20:46:48.800	175IA176A6A	6TMREC	**IM4**	403.2 KBPS IMAGE RECORD Record Mode Chang	2O0	4	0	6,255,664:02:0	
618	1	288	20:46:49.200		DMS:	: *AT_SPD	R403, TRACK 2, REV, TIC 2785.54 +/-	2O0	4	0	6,255,664:02:6	
619	1	288	20:46:49.200		DMS:	**: *RECORD**	R403, TRACK 2, REV, TIC *2785.54 +/-	2O0	4	0	6,255,664:02:6	
620	1	288	20:46:49.466	118IA110A111A4A	7STRP	0.0,0.00068,26,0	Slew =,0.42	2O0	4	0	6,255,664:03:0	
621	1	288	20:46:58.133	118IA11A	**SMOS**	GE		2O0	4	0	6,255,664:16:0	
622	1	288	20:47:04.800	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,664:26:0	
623	1	288	20:47:04.800		DMS:	**: *RUNDOWN**	R403, TRACK 2, REV, TIC *2593.59 +/-	2O0	4	0	6,255,664:26:0	
624	1	288	20:47:07.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2589.59 +/-	2O0	4	0	6,255,664:30:1	
625	1	288	20:49:48.800	165GH4A	7SCAN	NORM,223.987999,	Check S/P Position	2O0	4	0	6,255,666:90:0	
626	1	288	20:50:50.133	176GH6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	6,255,668:00:0	
627	1	288	20:51:41.466	117GH	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,255,668:77:0	
628	1	288	20:51:50.800	117GH105A106A4A	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,669:00:0	
629	1	288	20:55:37.466	117GH105A106A4B	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,672:67:0	
630	1	288	20:55:48.800	117GH105A106A4C	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,672:84:0	
631	1	288	20:56:56.800	488AI6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,255,674:04:0	
632	1	288	20:59:35.466	117GH105A106A4D	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,676:60:0	
633	1	288	20:59:46.800	117GH105A106A4E	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,676:77:0	
634	1	288	21:03:24.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2589.59 +/-	2O0	4	0	6,255,680:40:0	
635	1	288	21:03:24.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,680:40:0	
636	1	288	21:03:26.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2589.71 +/-	2O0	4	0	6,255,680:42:1	
637	1	288	21:03:31.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2590.94 +/-	2O0	4	0	6,255,680:50:0	
638	1	288	21:03:32.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2591.00 +/-	2O0	4	0	6,255,680:51:8	
639	1	288	21:03:33.466	117GH105A106A4F	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,680:53:0	
640	1	288	21:03:34.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2590.88 +/-	2O0	4	0	6,255,680:53:9	
641	1	288	21:03:44.800	117GH105A106A4G	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,680:70:0	
642	1	288	21:03:50.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2587.11 +/-	2O0	4	0	6,255,680:78:0	
643	1	288	21:04:12.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2581.80 +/-	2O0	4	0	6,255,681:21:0	
644	1	288	21:04:12.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,681:21:0	
645	1	288	21:04:14.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2581.74 +/-	2O0	4	0	6,255,681:22:8	
646	1	288	21:07:31.466	117GH105A106A4H	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,684:46:0	
647	1	288	21:07:42.800	117GH105A106A4I	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,684:63:0	
648	1	288	21:11:29.466	117GH105A106A4J	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,688:39:0	
649	1	288	21:11:40.800	117GH105A106A4K	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,688:56:0	
650	1	288	21:15:27.466	117GH105A106A4L	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,692:32:0	
651	1	288	21:15:38.800	117GH105A106A4M	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,692:49:0	
652	1	288	21:16:26.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2581.74 +/-	2O0	4	0	6,255,693:30:0	
653	1	288	21:16:26.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,693:30:0	
654	1	288	21:16:28.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2581.86 +/-	2O0	4	0	6,255,693:32:1	
655	1	288	21:16:33.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2583.10 +/-	2O0	4	0	6,255,693:40:0	
656	1	288	21:16:34.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2583.16 +/-	2O0	4	0	6,255,693:41:8	
657	1	288	21:16:36.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2583.04 +/-	2O0	4	0	6,255,693:43:9	
658	1	288	21:16:52.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2579.27 +/-	2O0	4	0	6,255,693:68:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
659	1	288	21:17:14.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,694:11:0
660	1	288	21:17:14.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2573.96 +/-	2O0	4	0	6,255,694:11:0
661	1	288	21:17:16.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2573.90 +/-	2O0	4	0	6,255,694:12:8
662	1	288	21:19:25.466	117GH105A106A4N	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,696:25:0
663	1	288	21:19:36.800	117GH105A106A4O	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,696:42:0
664	1	288	21:23:23.466	117GH105A106A4P	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,700:18:0
665	1	288	21:23:34.800	117GH105A106A4Q	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,700:35:0
666	1	288	21:27:21.466	117GH105A106A4R	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,704:11:0
667	1	288	21:27:32.800	117GH105A106A4S	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,704:28:0
668	1	288	21:29:28.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2573.90 +/-	2O0	4	0	6,255,706:20:0
669	1	288	21:29:28.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,706:20:0
670	1	288	21:29:30.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2574.02 +/-	2O0	4	0	6,255,706:22:1
671	1	288	21:29:35.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2575.25 +/-	2O0	4	0	6,255,706:30:0
672	1	288	21:29:36.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2575.31 +/-	2O0	4	0	6,255,706:31:8
673	1	288	21:29:38.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2575.19 +/-	2O0	4	0	6,255,706:33:9
674	1	288	21:29:54.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2571.43 +/-	2O0	4	0	6,255,706:58:0
675	1	288	21:30:16.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,707:01:0
676	1	288	21:30:16.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2566.11 +/-	2O0	4	0	6,255,707:01:0
677	1	288	21:30:18.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2566.05 +/-	2O0	4	0	6,255,707:02:8
678	1	288	21:31:19.466	117GH105A106A4T	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,708:04:0
679	1	288	21:31:30.800	117GH105A106A4U	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,708:21:0
680	1	288	21:35:17.466	117GH105A106A4V	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,711:88:0
681	1	288	21:35:28.800	117GH105A106A4W	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,712:14:0
682	1	288	21:39:15.466	117GH105A106A4X	7STRP	-0.013201,0.0033	Slew =12.01	2O0	4	0	6,255,715:81:0
683	1	288	21:39:26.800	117GH105A106A4Y	7STRP	0.013401,-0.0025	Slew =,0.06	2O0	4	0	6,255,716:07:0
684	1	288	21:42:31.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,719:11:0
685	1	288	21:42:31.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2566.05 +/-	2O0	4	0	6,255,719:11:0
686	1	288	21:42:32.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2566.17 +/-	2O0	4	0	6,255,719:13:1
687	1	288	21:42:38.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2567.41 +/-	2O0	4	0	6,255,719:21:0
688	1	288	21:42:39.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2567.47 +/-	2O0	4	0	6,255,719:22:8
689	1	288	21:42:40.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2567.35 +/-	2O0	4	0	6,255,719:24:9
690	1	288	21:42:56.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2563.74 +/-	2O0	4	0	6,255,719:48:0
691	1	288	21:43:13.466	117GH105A106B4A	7STRP	0.005,0.004,0,0,	Slew =12.01	2O0	4	0	6,255,719:74:0
692	1	288	21:43:18.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2558.43 +/-	2O0	4	0	6,255,719:82:0
693	1	288	21:43:18.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,719:82:0
694	1	288	21:43:20.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2558.37 +/-	2O0	4	0	6,255,719:83:8
695	1	288	21:43:28.800	117GH105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.06	2O0	4	0	6,255,720:06:0
696	1	288	21:45:28.133	117GH11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	6,255,722:03:0
697	1	288	21:46:56.800	176GH6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,255,723:45:0
698	1	288	21:46:58.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,723:48:0
699	1	288	21:46:58.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2558.37 +/-	2O0	4	0	6,255,723:48:0
700	1	288	21:47:00.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2558.49 +/-	2O0	4	0	6,255,723:50:1
701	1	288	21:47:05.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2559.72 +/-	2O0	4	0	6,255,723:58:0
702	1	288	21:47:06.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2559.78 +/-	2O0	4	0	6,255,723:59:8
703	1	288	21:47:08.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2559.66 +/-	2O0	4	0	6,255,723:61:9
704	1	288	21:47:08.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2559.49 +/-	2O0	4	0	6,255,723:63:0
705	1	288	21:47:22.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,723:83:0
706	1	288	21:47:22.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2556.36 +/-	2O0	4	0	6,255,723:83:0
707	1	288	21:47:23.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2556.30 +/-	2O0	4	0	6,255,723:84:8
708	1	288	21:49:00.133	411JD6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,725:48:0
709	1	288	21:49:00.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2556.30 +/-	2O0	4	0	6,255,725:48:0
710	1	288	21:49:01.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2556.42 +/-	2O0	4	0	6,255,725:50:1
711	1	288	21:49:06.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2557.66 +/-	2O0	4	0	6,255,725:58:0
712	1	288	21:49:08.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2557.72 +/-	2O0	4	0	6,255,725:59:8
713	1	288	21:49:09.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2557.60 +/-	2O0	4	0	6,255,725:61:9

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	1	288	21:49:09.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 2557.60 +/-	2O0	4	0	6,255,725:61:9	
715	1	288	21:49:10.133	411JD6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,255,725:63:0	
716	1	288	21:50:28.800	165GI4A	7SCAN	NORM,224.424,-24	Check S/P Position	2O0	4	0	6,255,726:90:0	
717	1	288	21:51:11.466	411JD6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,255,727:63:0	
718	1	288	21:51:14.133	175TL176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	6,255,727:67:0	
719	1	288	21:51:14.800	175TL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,727:68:0	
720	1	288	21:51:20.800	117GI	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,255,727:77:0	
721	1	288	21:51:21.466	175TL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,255,727:78:0	
722	1	288	21:51:21.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2526.65 +/-	2O0	4	0	6,255,727:78:0	
723	1	288	21:51:22.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2526.59 +/-	2O0	4	0	6,255,727:79:8	
724	1	288	21:51:30.133	117GI105A106A4A	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,728:00:0	
725	1	288	21:53:22.133	175NB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,255,729:77:0	
726	1	288	21:53:22.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2526.59 +/-	2O0	4	0	6,255,729:77:0	
727	1	288	21:53:23.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2526.71 +/-	2O0	4	0	6,255,729:79:1	
728	1	288	21:53:28.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2527.94 +/-	2O0	4	0	6,255,729:87:0	
729	1	288	21:53:30.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2528.00 +/-	2O0	4	0	6,255,729:88:8	
730	1	288	21:53:30.800	175NB176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	6,255,729:90:0	
731	1	288	21:53:31.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2527.88 +/-	2O0	4	0	6,255,729:90:9	
732	1	288	21:53:31.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 2527.88 +/-	2O0	4	0	6,255,729:90:9	
733	1	288	21:54:00.133	117GI105A106A4B	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,730:43:0	
734	1	288	21:54:11.466	117GI105A106A4C	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,730:60:0	
735	1	288	21:54:25.466	282NC431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	2O0	4	0	6,255,730:81:0	
736	1	288	21:54:32.133	431OB6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	6,255,731:00:0	
737	1	288	21:56:41.466	117GI105A106A4D	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,733:12:0	
738	1	288	21:56:52.800	117GI105A106A4E	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,733:29:0	
739	1	288	21:59:22.800	117GI105A106A4F	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,735:72:0	
740	1	288	21:59:34.133	117GI105A106A4G	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,735:89:0	
741	1	288	22:02:04.133	117GI105A106A4H	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,738:41:0	
742	1	288	22:02:15.466	117GI105A106A4I	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,738:58:0	
743	1	288	22:04:45.466	117GI105A106A4J	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,741:10:0	
744	1	288	22:04:56.800	117GI105A106A4K	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,741:27:0	
745	1	288	22:07:26.800	117GI105A106A4L	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,743:70:0	
746	1	288	22:07:38.133	117GI105A106A4M	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,743:87:0	
747	1	288	22:10:08.133	117GI105A106A4N	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,746:39:0	
748	1	288	22:10:19.466	117GI105A106A4O	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,746:56:0	
749	1	288	22:12:49.466	117GI105A106A4P	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,749:08:0	
750	1	288	22:13:00.800	117GI105A106A4Q	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,749:25:0	
751	1	288	22:15:30.800	117GI105A106A4R	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,751:68:0	
752	1	288	22:15:42.133	117GI105A106A4S	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,751:85:0	
753	1	288	22:18:12.133	117GI105A106A4T	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,754:37:0	
754	1	288	22:18:23.466	117GI105A106A4U	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,754:54:0	
755	1	288	22:20:53.466	117GI105A106A4V	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,757:06:0	
756	1	288	22:21:04.800	117GI105A106A4W	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,757:23:0	
757	1	288	22:23:34.800	117GI105A106A4X	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,759:66:0	
758	1	288	22:23:46.133	117GI105A106A4Y	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,759:83:0	
759	1	288	22:26:16.133	117GI105A106A4Z	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,762:35:0	
760	1	288	22:26:27.466	117GI105A106A4AA	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,762:52:0	
761	1	288	22:28:57.466	117GI105A106A4AB	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,765:04:0	
762	1	288	22:29:08.800	117GI105A106A4AC	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,765:21:0	
763	1	288	22:31:38.800	117GI105A106A4AD	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,767:64:0	
764	1	288	22:31:50.133	117GI105A106A4AE	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,767:81:0	
765	1	288	22:34:20.133	117GI105A106A4AF	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,770:33:0	
766	1	288	22:34:31.466	117GI105A106A4AG	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,770:50:0	
767	1	288	22:37:01.466	117GI105A106A4AH	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,773:02:0	
768	1	288	22:37:12.800	117GI105A106A4AI	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,773:19:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	1	288	22:39:42.800	117GI105A106A4AJ	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,775:62:0	
770	1	288	22:39:54.133	117GI105A106A4AK	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,775:79:0	
771	1	288	22:42:24.133	117GI105A106A4AL	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,778:31:0	
772	1	288	22:42:35.466	117GI105A106A4AM	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,778:48:0	
773	1	288	22:44:46.133	488AI6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,255,780:62:0	
774	1	288	22:45:05.466	117GI105A106A4AN	7STRP	-0.021103,0.0015	Slew =12.01	2O0	4	0	6,255,781:00:0	
775	1	288	22:45:16.800	117GI105A106A4AO	7STRP	0.020603,-0.003,	Slew =,0.14	2O0	4	0	6,255,781:17:0	
776	1	288	22:47:46.800	117GI105A106B4A	7STRP	0.004,-0.004,0,0	Slew =12.01	2O0	4	0	6,255,783:60:0	
777	1	288	22:48:03.466	117GI105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.14	2O0	4	0	6,255,783:85:0	
778	1	288	22:50:04.800	117GI11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	6,255,785:85:0	
779	1	288	22:51:08.800	165GJ4A	7SCAN	NORM,225.389,-24	Check S/P Position	2O0	4	0	6,255,786:90:0	
780	1	288	22:52:00.800	117GJ	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,255,787:77:0	
781	1	288	22:52:10.133	117GJ105A106A4A	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,788:00:0	
782	1	288	22:54:28.800	117GJ105A106A4B	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,790:26:0	
783	1	288	22:54:40.133	117GJ105A106A4C	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,790:43:0	
784	1	288	22:56:58.800	117GJ105A106A4D	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,792:69:0	
785	1	288	22:57:10.133	117GJ105A106A4E	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,792:86:0	
786	1	288	22:59:28.800	117GJ105A106A4F	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,795:21:0	
787	1	288	22:59:40.133	117GJ105A106A4G	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,795:38:0	
788	1	288	23:01:58.800	117GJ105A106A4H	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,797:64:0	
789	1	288	23:02:10.133	117GJ105A106A4I	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,797:81:0	
790	1	288	23:04:28.800	117GJ105A106A4J	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,800:16:0	
791	1	288	23:04:40.133	117GJ105A106A4K	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,800:33:0	
792	1	288	23:06:58.800	117GJ105A106A4L	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,802:59:0	
793	1	288	23:07:10.133	117GJ105A106A4M	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,802:76:0	
794	1	288	23:09:28.800	117GJ105A106A4N	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,805:11:0	
795	1	288	23:09:40.133	117GJ105A106A4O	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,805:28:0	
796	1	288	23:11:58.800	117GJ105A106A4P	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,807:54:0	
797	1	288	23:12:10.133	117GJ105A106A4Q	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,807:71:0	
798	1	288	23:14:28.800	117GJ105A106A4R	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,810:06:0	
799	1	288	23:14:40.133	117GJ105A106A4S	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,810:23:0	
800	1	288	23:16:58.800	117GJ105A106A4T	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,812:49:0	
801	1	288	23:17:10.133	117GJ105A106A4U	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,812:66:0	
802	1	288	23:19:28.800	117GJ105A106A4V	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,815:01:0	
803	1	288	23:19:40.133	117GJ105A106A4W	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,815:18:0	
804	1	288	23:21:58.800	117GJ105A106A4X	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,817:44:0	
805	1	288	23:22:10.133	117GJ105A106A4Y	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,817:61:0	
806	1	288	23:24:28.800	117GJ105A106A4Z	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,819:87:0	
807	1	288	23:24:40.133	117GJ105A106A4AA	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,820:13:0	
808	1	288	23:26:58.800	117GJ105A106A4AB	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,822:39:0	
809	1	288	23:27:10.133	117GJ105A106A4AC	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,822:56:0	
810	1	288	23:29:28.800	117GJ105A106A4AD	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,824:82:0	
811	1	288	23:29:40.133	117GJ105A106A4AE	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,825:08:0	
812	1	288	23:31:58.800	117GJ105A106A4AF	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,827:34:0	
813	1	288	23:32:10.133	117GJ105A106A4AG	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,827:51:0	
814	1	288	23:34:28.800	117GJ105A106A4AH	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,829:77:0	
815	1	288	23:34:40.133	117GJ105A106A4AI	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,830:03:0	
816	1	288	23:36:58.800	117GJ105A106A4AJ	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,832:29:0	
817	1	288	23:37:10.133	117GJ105A106A4AK	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,832:46:0	
818	1	288	23:39:28.800	117GJ105A106A4AL	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,834:72:0	
819	1	288	23:39:40.133	117GJ105A106A4AM	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,834:89:0	
820	1	288	23:41:58.800	117GJ105A106A4AN	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,837:24:0	
821	1	288	23:42:10.133	117GJ105A106A4AO	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,837:41:0	
822	1	288	23:44:28.800	117GJ105A106A4AP	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,839:67:0	
823	1	288	23:44:40.133	117GJ105A106A4AQ	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,839:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	1	288	23:46:58.800	117GJ105A106A4AR	7STRP	-0.019402,0.0030	Slew =12.01	2O0	4	0	6,255,842:19:0	
825	1	288	23:47:10.133	117GJ105A106A4AS	7STRP	0.019002,-0.0024	Slew =,0.14	2O0	4	0	6,255,842:36:0	
826	1	288	23:49:28.800	117GJ105A106B4A	7STRP	0.006,0.002,0,0,	Slew =12.01	2O0	4	0	6,255,844:62:0	
827	1	288	23:49:41.466	117GJ105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.14	2O0	4	0	6,255,844:81:0	
828	1	288	23:50:42.133	117GJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	6,255,845:81:0	
829	1	288	23:51:48.800	165GK4A	7SCAN	NORM,228.000999,	Check S/P Position	2O0	4	0	6,255,846:90:0	
830	1	288	23:52:40.800	117GK	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	6,255,847:77:0	
831	1	288	23:52:50.133	117GK105A106A4A	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,848:00:0	
832	1	288	23:54:23.466	117GK105A106A4B	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,849:49:0	
833	1	288	23:54:35.466	117GK105A106A4C	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,849:67:0	
834	1	288	23:54:55.466	488AI6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,255,850:06:0	
835	1	288	23:56:08.800	117GK105A106A4D	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,851:25:0	
836	1	288	23:56:08.800	488AI6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	6,255,851:25:0	
837	1	288	23:56:20.800	117GK105A106A4E	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,851:43:0	
838	1	288	23:57:54.133	117GK105A106A4F	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,853:01:0	
839	1	288	23:58:06.133	117GK105A106A4G	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,853:19:0	
840	1	288	23:59:39.466	117GK105A106A4H	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,854:68:0	
841	1	288	23:59:51.466	117GK105A106A4I	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,854:86:0	
842	1	289	00:00:00.133	481UB4A	7VECT	BB1	Inert vect update UTC	2O0	4	0	6,255,855:08:0	
843	1	289	00:01:24.800	117GK105A106A4J	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,856:44:0	
844	1	289	00:01:36.800	117GK105A106A4K	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,856:62:0	
845	1	289	00:03:10.133	117GK105A106A4L	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,858:20:0	
846	1	289	00:03:22.133	117GK105A106A4M	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,858:38:0	
847	1	289	00:04:55.466	117GK105A106A4N	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,859:87:0	
848	1	289	00:05:07.466	117GK105A106A4O	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,860:14:0	
849	1	289	00:06:40.800	117GK105A106A4P	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,861:63:0	
850	1	289	00:06:52.800	117GK105A106A4Q	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,861:81:0	
851	1	289	00:08:26.133	117GK105A106A4R	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,863:39:0	
852	1	289	00:08:38.133	117GK105A106A4S	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,863:57:0	
853	1	289	00:10:11.466	117GK105A106A4T	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,865:15:0	
854	1	289	00:10:23.466	117GK105A106A4U	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,865:33:0	
855	1	289	00:11:56.800	117GK105A106A4V	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,866:82:0	
856	1	289	00:12:08.800	117GK105A106A4W	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,867:09:0	
857	1	289	00:13:42.133	117GK105A106A4X	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,868:58:0	
858	1	289	00:13:54.133	117GK105A106A4Y	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,868:76:0	
859	1	289	00:15:27.466	117GK105A106A4Z	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,870:34:0	
860	1	289	00:15:39.466	117GK105A106A4AA	7STRP	0.012601,-0.002,	Slew =,0.14	2O0	4	0	6,255,870:52:0	
861	**1**	**289**	**00:17:10.100**	**32NNTHPELE01-**		**-----START------**		**2O0**	**4**	**0**	**: :**	
862	1	289	00:17:12.800	117GK105A106A4AB	7STRP	-0.013851,0.0021	Slew =12.01	2O0	4	0	6,255,872:10:0	
863	**1**	**289**	**00:17:20.800**	**20DA5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,255,872:22:0**	
864	**1**	**289**	**00:17:22.133**	**20DA5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,255,872:24:0**	
865	**1**	**289**	**00:17:24.133**	**20DA6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,255,872:27:0**	
866	1	289	00:17:24.800	117GK105A106A4AC	7STRP	0.012601,-0.002,	Slew =,0.14		4	0	6,255,872:28:0	
867	**1**	**289**	**00:17:34.133**	**20DA6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,255,872:42:0**	
868	**1**	**289**	**00:17:47.466**	**20DA5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,255,872:62:0**	
869	**1**	**289**	**00:17:50.800**	**20DA5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,255,872:67:0**	
870	**1**	**289**	**00:18:22.133**	**20DA4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,255,873:23:0**	
871	1	289	00:18:58.133	117GK105A106B4A	7STRP	-0.025005,0.0300	Slew =12.01	2R0	4	0	6,255,873:77:0	
872	1	289	00:19:14.800	117GK105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.14	2R0	4	0	6,255,874:11:0	
873	**1**	**289**	**00:20:10.233**	**32NNTHPELE01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
874	1	289	00:20:38.133	175NB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	6,255,875:45:0	
875	1	289	00:20:38.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 459.11 +/-	2R0	4	0	6,255,875:45:0	
876	1	289	00:20:39.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 459.05 +/-	2R0	4	0	6,255,875:46:8	
877	**1**	**289**	**00:21:04.100**	**32INTHPELE01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
878	1	289	00:21:04.133	125DA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	6,255,875:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
879	**1**	**289**	**00:21:04.133**	**125DA4A**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**6,255,875:84:0**
880	1	289	00:21:06.133	117GK11A	**CSMOS**	GE	***** GROUP END CSMOS	1R0	4	0	6,255,875:87:0
881	1	289	00:22:04.800	125DA11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	6,255,876:84:0
882	**1**	**289**	**00:22:04.800**	**125DA4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**6,255,876:84:0**
883	1	289	00:22:08.800	165DA4A	**7SCAN**	**NORM,224.594999,**	**Check S/P Position**	1R0	4	0	6,255,876:90:0
884	1	289	00:22:55.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 459.05 +/-	1R0	4	0	6,255,877:69:0
885	1	289	00:22:55.466	175DA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	1R0	4	0	6,255,877:69:0
886	1	289	00:22:56.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 459.17 +/-	1R0	4	0	6,255,877:71:1
887	1	289	00:23:00.800	117DA	**CSMOS**	GS	***** GROUP START CSMOS	1R0	4	0	6,255,877:77:0
888	1	289	00:23:02.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 460.41 +/-	1R0	4	0	6,255,877:79:0
889	1	289	00:23:03.333		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC * 460.47 +/-	1R0	4	0	6,255,877:80:8
890	**1**	**289**	**00:23:05.466**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**6,255,877:84:0**
891	1	289	00:23:05.466	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	6,255,877:84:0
892	**1**	**289**	**00:23:06.133**	**127DA4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**6,255,877:85:0**
893	1	289	00:23:06.800	175DA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	1R3	4	0	6,255,877:86:0
894	1	289	00:23:07.333		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC * 458.97 +/-	1R3	4	0	6,255,877:86:8
895	1	289	00:23:07.333		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 458.97 +/-	1R3	4	0	6,255,877:86:8
896	1	289	00:23:08.800	165DA4B	7VECT		Inert vect update UTC	1R3	4	0	6,255,877:89:0
897	**1**	**289**	**00:23:09.466**	**32INTHPELE01-**	**NIMPBK**	**301DA**	**IO PELE OBSERVATION**	**1R3**	**4**	**0**	**: :**
898	**1**	**289**	**00:23:09.466**	**32INTHPELE01-**	**NIMPBK**	**301EA**	**IO PELE OBSERVATION**	**1R3**	**4**	**0**	**: :**
899	1	289	00:23:10.133	117DA105A106A4A	**7STRP**	**0.0071,0.0,0,0,0**	**Slew =,0.03**	1R3	4	0	6,255,878:00:0
900	1	289	00:23:14.133	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	6,255,878:06:0
901	**1**	**289**	**00:27:08.800**	**32INTHPELE01-**	**DESELC**	**300EA**	**IO PELE OBSERVATION**	**1R3**	**4**	**0**	**: :**
902	**1**	**289**	**00:27:08.800**	**32INTHPELE01-**	**DESELC**	**300DA**	**IO PELE OBSERVATION**	**1R3**	**4**	**0**	**: :**
903	1	289	00:27:10.133	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	1R3	4	0	6,255,881:87:0
904	1	289	00:27:11.466	175DA422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	4	0	6,255,881:89:0
905	1	289	00:27:11.466		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC * 244.40 +/-	1R3	4	0	6,255,881:89:0
906	1	289	00:27:12.133	165GL4A	7SCAN	NORM,228.674999,	Check S/P Position	1R3	4	0	6,255,881:90:0
907	1	289	00:27:12.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 244.10 +/-	1R3	4	0	6,255,881:90:8
908	**1**	**289**	**00:27:16.900**	**32INTHPELE01-**		**-----STOP-------**		**1R3**	**4**	**0**	**: :**
909	1	289	00:28:14.133	465KC6A	6DMSC	RDY,3	DMS Control Tape stop	1R3	4	0	6,255,883:01:0
910	1	289	00:28:14.133		DMS:	: READY	RDY, TRACK *3, *FWD, TIC 244.10 +/-	1R3	4	0	6,255,883:01:0
911	1	289	00:29:03.466	175TA422A6A	6DMSC	R7,3	DMS Control	1R3	4	0	6,255,883:75:0
912	1	289	00:29:03.466		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 244.10 +/-	1R3	4	0	6,255,883:75:0
913	1	289	00:29:04.800	117GL	**CSMOS**	GS	***** GROUP START CSMOS	1R3	4	0	6,255,883:77:0
914	1	289	00:29:10.133		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 244.10 +/-	1R3	4	0	6,255,883:85:0
915	1	289	00:29:11.466	175TA176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	1R3	4	0	6,255,883:87:0
916	1	289	00:29:11.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 244.22 +/-	1R3	4	0	6,255,883:87:1
917	1	289	00:29:11.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 244.22 +/-	1R3	4	0	6,255,883:87:1
918	1	289	00:29:14.133	117GL105A106A4A	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,884:00:0
919	1	289	00:29:52.133	117GL105A106A4B	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,884:57:0
920	1	289	00:30:08.133	117GL105A106A4C	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,884:81:0
921	1	289	00:30:46.133	117GL105A106A4D	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,885:47:0
922	1	289	00:31:02.133	117GL105A106A4E	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,885:71:0
923	1	289	00:31:40.133	117GL105A106A4F	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,886:37:0
924	1	289	00:31:56.133	117GL105A106A4G	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,886:61:0
925	1	289	00:32:34.133	117GL105A106A4H	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,887:27:0
926	1	289	00:32:34.800	488AI6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1R3	4	0	6,255,887:28:0
927	1	289	00:32:50.133	117GL105A106A4I	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,887:51:0
928	1	289	00:33:28.133	117GL105A106A4J	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,888:17:0
929	1	289	00:33:44.133	117GL105A106A4K	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,888:41:0
930	1	289	00:34:16.133	431OC6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	1R3	4	0	6,255,888:89:0
931	1	289	00:34:22.133	117GL105A106A4L	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,889:07:0
932	1	289	00:34:38.133	117GL105A106A4M	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,889:31:0
933	1	289	00:35:16.133	117GL105A106A4N	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,889:88:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	1	289	00:35:32.133	117GL105A106A4O	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,890:21:0	
935	1	289	00:36:10.133	117GL105A106A4P	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,890:78:0	
936	1	289	00:36:26.133	117GL105A106A4Q	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,891:11:0	
937	1	289	00:37:04.133	117GL105A106A4R	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,891:68:0	
938	1	289	00:37:20.133	117GL105A106A4S	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,892:01:0	
939	1	289	00:37:58.133	117GL105A106A4T	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,892:58:0	
940	1	289	00:38:14.133	117GL105A106A4U	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,892:82:0	
941	1	289	00:38:52.133	117GL105A106A4V	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,893:48:0	
942	1	289	00:39:08.133	117GL105A106A4W	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,893:72:0	
943	1	289	00:39:46.133	117GL105A106A4X	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,894:38:0	
944	1	289	00:40:02.133	117GL105A106A4Y	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,894:62:0	
945	1	289	00:40:40.133	117GL105A106A4Z	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,895:28:0	
946	1	289	00:40:56.133	117GL105A106A4AA	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,895:52:0	
947	1	289	00:41:34.133	117GL105A106A4AB	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,896:18:0	
948	1	289	00:41:50.133	117GL105A106A4AC	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,896:42:0	
949	1	289	00:42:28.133	117GL105A106A4AD	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,897:08:0	
950	1	289	00:42:44.133	117GL105A106A4AE	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,897:32:0	
951	1	289	00:43:22.133	117GL105A106A4AF	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,897:89:0	
952	1	289	00:43:38.133	117GL105A106A4AG	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,898:22:0	
953	1	289	00:44:16.133	117GL105A106A4AH	7STRP	-0.0015,-0.02210	Slew =12.01	1R3	4	0	6,255,898:79:0	
954	1	289	00:44:32.133	117GL105A106A4AI	7STRP	-0.0007,0.019704	Slew =,0.77	1R3	4	0	6,255,899:12:0	
955	1	289	00:45:10.133	117GL105A106B4A	7STRP	-0.070115,-0.020	Slew =12.01	1R3	4	0	6,255,899:69:0	
956	1	289	00:45:25.466	117GL105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.77	1R3	4	0	6,255,900:01:0	
957	1	289	00:46:24.800	117GL11A	**CSMOS**	GE	***** GROUP END CSMOS	1R3	4	0	6,255,900:90:0	
958	1	289	00:46:25.466	431OD6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	1R3	4	0	6,255,901:00:0	
959	1	289	00:47:29.466	428JA6A	6RCCLR			1R3	4	0	6,255,902:05:0	
960	**1**	**289**	**00:47:30.100**	**32NNTHLOKI01-**		**-----START------**		**1R3**	**4**	**0**	: :	
961	1	289	00:47:30.133	428JA6B	6RCSET	12		1R3	4	0	6,255,902:06:0	
962	**1**	**289**	**00:47:40.800**	**20DB5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,255,902:22:0**	
963	**1**	**289**	**00:47:42.133**	**20DB5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,255,902:24:0**	
964	**1**	**289**	**00:47:44.133**	**20DB6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,255,902:27:0**	
965	**1**	**289**	**00:47:54.133**	**20DB6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,255,902:42:0**	
966	**1**	**289**	**00:48:07.466**	**20DB5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,255,902:62:0**	
967	**1**	**289**	**00:48:10.800**	**20DB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,255,902:67:0**	
968	**1**	**289**	**00:48:42.133**	**20DB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,255,903:23:0**	
969	**1**	**289**	**00:50:30.233**	**32NNTHLOKI01-**		**-----STOP-------**		**2R0**	**4**	**0**	: :	
970	**1**	**289**	**00:51:24.100**	**32INTHLOKI01-**		**-----START------**		**2R0**	**4**	**0**	: :	
971	**1**	**289**	**00:51:24.133**	**125DB4A**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**6,255,905:84:0**	
972	1	289	00:51:24.133	125DB	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	6,255,905:84:0	
973	1	289	00:52:13.466	20IB6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	1R0	4	0	6,255,906:67:0	
974	1	289	00:52:24.800	125DB11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	6,255,906:84:0	
975	**1**	**289**	**00:52:24.800**	**125DB4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**6,255,906:84:0**	
976	1	289	00:53:25.466	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	6,255,907:84:0	
977	**1**	**289**	**00:53:25.466**	**127DB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**6,255,907:84:0**	
978	**1**	**289**	**00:53:26.133**	**127DB4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**6,255,907:85:0**	
979	1	289	00:53:29.466	165DB4A	**7SCAN**	**NORM,232.25,-15.**	**Check S/P Position**	1R3	4	0	6,255,907:90:0	
980	1	289	00:53:34.133	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	6,255,908:06:0	
981	1	289	00:54:21.466	117DB	**CSMOS**	GS	***** GROUP START CSMOS	1R3	4	0	6,255,908:77:0	
982	1	289	00:54:22.133		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 598.27 +/-	1R3	4	0	6,255,908:78:0	
983	1	289	00:54:22.133	175DB422A6A	6DMSC	R28,3	DMS Control	1R3	4	0	6,255,908:78:0	
984	1	289	00:54:23.333		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC * 598.33 +/-	1R3	4	0	6,255,908:79:8	
985	1	289	00:54:27.333		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 599.83 +/-	1R3	4	0	6,255,908:85:8	
986	1	289	00:54:27.333		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC * 599.83 +/-	1R3	4	0	6,255,908:85:8	
987	1	289	00:54:27.466	175DB176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	1R3	4	0	6,255,908:86:0	
988	1	289	00:54:29.466	165DB4B	7VECT		Inert vect update UTC	1R3	4	0	6,255,908:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	**1**	**289**	**00:54:29.466**	**32INTHLOKI01-**	**NIMPBK**	**301DB**	**IO LOKI OBSERVATION**	**1R3**	**4**	**0**	**: :**	
990	**1**	**289**	**00:54:29.466**	**32INTHLOKI01-**	**NIMPBK**	**301EB**	**IO LOKI OBSERVATION**	**1R3**	**4**	**0**	**: :**	
991	1	289	00:54:30.800	117DB105A106A4A	**7STRP**	**-0.018102,-0.002**	**Slew =,0.03**	1R3	4	0	6,255,909:00:0	
992	1	289	00:59:32.800	428JB6A	6RCCLR			1R3	4	0	6,255,913:89:0	
993	1	289	00:59:33.466	428JB6B	6RCSET	8		1R3	4	0	6,255,913:90:0	
994	1	289	01:00:00.133	481UC4A	7VECT	BB2	Inert vect update UTC	1R3	4	0	6,255,914:39:0	
995	1	289	01:02:30.133	488AJ6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1R3	4	0	6,255,916:82:0	
996	**1**	**289**	**01:04:34.800**	**32INTHLOKI01-**	**DESELC**	**300DB**	**IO LOKI OBSERVATION**	**1R3**	**4**	**0**	**: :**	
997	**1**	**289**	**01:04:34.800**	**32INTHLOKI01-**	**DESELC**	**300EB**	**IO LOKI OBSERVATION**	**1R3**	**4**	**0**	**: :**	
998	1	289	01:04:36.800	117DB11A	**CSMOS**	GE	***** GROUP END CSMOS	1R3	4	0	6,255,918:90:0	
999	1	289	01:04:37.466		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *1136.08 +/-	1R3	4	0	6,255,919:00:0	
1000	1	289	01:04:37.466	175TB422A6A	6DMSC	R7,3	DMS Control	1R3	4	0	6,255,919:00:0	
1001	1	289	01:04:38.666		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1136.38 +/-	1R3	4	0	6,255,919:01:8	
1002	1	289	01:04:40.066		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 1136.50 +/-	1R3	4	0	6,255,919:03:9	
1003	1	289	01:04:40.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *1136.50 +/-	1R3	4	0	6,255,919:03:9	
1004	1	289	01:04:40.133	175TB176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	1R3	4	0	6,255,919:04:0	
1005	**1**	**289**	**01:04:41.400**	**32NNTHPELE02-**		**-----START------**		**1R3**	**4**	**0**	**: :**	
1006	**1**	**289**	**01:04:42.900**	**32INTHLOKI01-**		**-----STOP-------**		**1R3**	**4**	**0**	**: :**	
1007	1	289	01:04:44.133	165IB4A	7SCAN	NORM,222.110998,	Check S/P Position	1R3	4	0	6,255,919:10:0	
1008	**1**	**289**	**01:04:45.466**	**20DC5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,255,919:12:0**	
1009	**1**	**289**	**01:04:52.133**	**20DC5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,255,919:22:0**	
1010	**1**	**289**	**01:05:05.466**	**20DC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,255,919:42:0**	
1011	**1**	**289**	**01:05:15.466**	**20DC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,255,919:57:0**	
1012	**1**	**289**	**01:05:25.466**	**20DC5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,255,919:72:0**	
1013	**1**	**289**	**01:05:28.800**	**20DC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,255,919:77:0**	
1014	1	289	01:05:39.466	428JC6A	6RCCLR			260	4	0	6,255,920:02:0	
1015	1	289	01:05:40.133	428JC6B	6RCSET	14		260	4	0	6,255,920:03:0	
1016	**1**	**289**	**01:05:53.466**	**20DC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,255,920:23:0**	
1017	1	289	01:06:34.133		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1163.23 +/-	2R0	4	0	6,255,920:84:0	
1018	1	289	01:06:34.133	175IB422A6A	6DMSC	R806,3	DMS Control	2R0	4	0	6,255,920:84:0	
1019	1	289	01:06:35.333		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *1163.29 +/-	2R0	4	0	6,255,920:85:8	
1020	1	289	01:06:37.466	165IB4B	7VECT		Inert vect update UTC	2R0	4	0	6,255,920:89:0	
1021	1	289	01:06:40.133	175IB176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	6,255,921:02:0	
1022	1	289	01:06:40.600		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *1229.29 +/-	2R0	4	0	6,255,921:02:7	
1023	1	289	01:06:40.600		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 1229.29 +/-	2R0	4	0	6,255,921:02:7	
1024	1	289	01:06:53.466	428JD6A	6RCCLR			2R0	4	0	6,255,921:22:0	
1025	**1**	**289**	**01:06:54.133**	**20DC4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**6,255,921:23:0**	
1026	1	289	01:06:54.133	428JD6B	6RCSET	11		2R3	4	0	6,255,921:23:0	
1027	**1**	**289**	**01:06:54.800**	**20DC4C**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**6,255,921:24:0**	
1028	1	289	01:07:04.800	175TC422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	6,255,921:39:0	
1029	1	289	01:07:04.800		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *1824.84 +/-	2R3	4	0	6,255,921:39:0	
1030	1	289	01:07:07.533		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1836.34 +/- 1	2R3	4	0	6,255,921:43:1	
1031	1	289	01:07:08.800	175TC176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	6,255,921:45:0	
1032	1	289	01:07:08.933		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 1836.46 +/- 1	2R3	4	0	6,255,921:45:2	
1033	1	289	01:07:08.933		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *1836.46 +/- 1	2R3	4	0	6,255,921:45:2	
1034	1	289	01:07:14.133	428JE6A	6RCCLR			2R3	4	0	6,255,921:53:0	
1035	1	289	01:07:14.800	428JE6B	6RCSET	14		2R3	4	0	6,255,921:54:0	
1036	1	289	01:07:17.466	175JB422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	6,255,921:58:0	
1037	1	289	01:07:17.466		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1838.46 +/- 1	2R3	4	0	6,255,921:58:0	
1038	1	289	01:07:18.666		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *1838.52 +/- 1	2R3	4	0	6,255,921:59:8	
1039	1	289	01:07:23.466	175JB176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,255,921:67:0	
1040	1	289	01:07:23.933		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 1904.52 +/- 1	2R3	4	0	6,255,921:67:7	
1041	1	289	01:07:23.933		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *1904.52 +/- 1	2R3	4	0	6,255,921:67:7	
1042	1	289	01:07:32.800	428JF6A	6RCCLR			2R3	4	0	6,255,921:81:0	
1043	1	289	01:07:33.466	428JF6B	6RCSET	11		2R3	4	0	6,255,921:82:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	**1**	**289**	**01:07:38.100**	**32INTHPELE02-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1045	1	289	01:07:38.800	165DC4A	**7SCAN**	**NORM,221.493999,**	**Check S/P Position**	2R3	4	0	6,255,921:90:0	
1046	1	289	01:07:39.466	175TD422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	6,255,922:00:0	
1047	1	289	01:07:39.466		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2286.78 +/- 1	2R3	4	0	6,255,922:00:0	
1048	1	289	01:07:42.200		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2298.28 +/- 1	2R3	4	0	6,255,922:04:1	
1049	1	289	01:07:43.466	175TD176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	6,255,922:06:0	
1050	1	289	01:07:43.600		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2298.40 +/- 1	2R3	4	0	6,255,922:06:2	
1051	1	289	01:07:43.600		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2298.40 +/- 1	2R3	4	0	6,255,922:06:2	
1052	**1**	**289**	**01:07:54.800**	**20DC4D**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R3**	**4**	**0**	**6,255,922:23:0**	
1053	1	289	01:08:09.466	428JG6A	6RCCLR			1R3	4	0	6,255,922:45:0	
1054	1	289	01:08:10.133	428JG6B	6RCSET	12		1R3	4	0	6,255,922:46:0	
1055	1	289	01:08:30.800	117DC	**CSMOS**	GS	***** GROUP START CSMOS	1R3	4	0	6,255,922:77:0	
1056	1	289	01:08:31.466		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2309.62 +/- 1	1R3	4	0	6,255,922:78:0	
1057	1	289	01:08:31.466	175DC422A6A	6DMSC	R28,3	DMS Control	1R3	4	0	6,255,922:78:0	
1058	1	289	01:08:32.666		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *2309.68 +/- 1	1R3	4	0	6,255,922:79:8	
1059	1	289	01:08:36.666		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 2311.18 +/- 1	1R3	4	0	6,255,922:85:8	
1060	1	289	01:08:36.666		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *2311.18 +/- 1	1R3	4	0	6,255,922:85:8	
1061	1	289	01:08:36.800	175DC176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	1R3	4	0	6,255,922:86:0	
1062	1	289	01:08:38.800	165DC4B	7VECT		Inert vect update UTC	1R3	4	0	6,255,922:89:0	
1063	**1**	**289**	**01:08:38.800**	**32INTHPELE02-**	**NIMPBK**	**301DC**	**IO PELE MAP OBSERVATION**	**1R3**	**4**	**0**	**: :**	
1064	**1**	**289**	**01:08:38.800**	**32INTHPELE02-**	**NIMPBK**	**301EC**	**IO PELE MAP OBSERVATION**	**1R3**	**4**	**0**	**: :**	
1065	1	289	01:08:40.133	117DC105A106A4A	**7STRP**	**-0.01075,-0.002,**	**Slew =,0.03**	1R3	4	0	6,255,923:00:0	
1066	**1**	**289**	**01:08:41.566**	**32NNTHPELE02-**		**-----STOP-------**		**1R3**	**4**	**0**	**: :**	
1067	1	289	01:11:26.133	20IC6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	1R3	4	0	6,255,925:67:0	
1068	1	289	01:11:37.466	428JH6A	6RCCLR			1R3	4	0	6,255,925:84:0	
1069	1	289	01:11:38.133	428JH6B	6RCSET	8		1R3	4	0	6,255,925:85:0	
1070	**1**	**289**	**01:14:35.466**	**32INTHPELE02-**	**DESELC**	**300EC**	**IO PELE MAP OBSERVATION**	**1R3**	**4**	**0**	**: :**	
1071	**1**	**289**	**01:14:35.466**	**32INTHPELE02-**	**DESELC**	**300DC**	**IO PELE MAP OBSERVATION**	**1R3**	**4**	**0**	**: :**	
1072	1	289	01:14:37.466		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *2628.29 +/- 1	1R3	4	0	6,255,928:81:0	
1073	1	289	01:14:37.466	175TE422A6A	6DMSC	R7,3	DMS Control	1R3	4	0	6,255,928:81:0	
1074	1	289	01:14:38.666		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2628.59 +/- 1	1R3	4	0	6,255,928:82:8	
1075	1	289	01:14:40.066		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2628.71 +/- 1	1R3	4	0	6,255,928:84:9	
1076	1	289	01:14:40.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2628.71 +/- 1	1R3	4	0	6,255,928:84:9	
1077	1	289	01:14:40.133	175TE176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	1R3	4	0	6,255,928:85:0	
1078	1	289	01:14:41.466	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	1R3	4	0	6,255,928:87:0	
1079	**1**	**289**	**01:14:42.900**	**32INTHPELE02-**		**-----STOP-------**		**1R3**	**4**	**0**	**: :**	
1080	1	289	01:14:43.466	165GM4A	7SCAN	NORM,243.147999,	Check S/P Position	1R3	4	0	6,255,928:90:0	
1081	1	289	01:16:36.133	117GM	**CSMOS**	GS	***** GROUP START CSMOS	1R3	4	0	6,255,930:77:0	
1082	1	289	01:16:45.466	117GM105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =0,9.0	1R3	4	0	6,255,931:00:0	
1083	1	289	01:17:31.466	117GM105A106B4A	7STRP	0.014001,0.0,0,0	Slew =12.01	1R3	4	0	6,255,931:69:0	
1084	1	289	01:17:42.133	117GM105A106B4B	7STRP	-0.142962,-0.317	Slew =0,9.0	1R3	4	0	6,255,931:85:0	
1085	1	289	01:20:17.466	117GM105A106C4A	7STRP	0.016001,0.0,0,0	Slew =12.01	1R3	4	0	6,255,934:45:0	
1086	1	289	01:20:28.133	117GM105A106C4B	7STRP	-0.142962,-0.261	Slew =0,9.0	1R3	4	0	6,255,934:61:0	
1087	1	289	01:20:58.800	428JI6A	6RCCLR			1R3	4	0	6,255,935:16:0	
1088	1	289	01:20:59.466	428JI6B	6RCSET	12		1R3	4	0	6,255,935:17:0	
1089	1	289	01:21:59.466	117GM105A106D4A	7STRP	0.140922,0.0,0,0	Slew =12.01	1R3	4	0	6,255,936:16:0	
1090	1	289	01:22:21.466	117GM105A106D4B	7STRP	-0.358244,-0.144	Slew =0,9.0	1R3	4	0	6,255,936:49:0	
1091	1	289	01:23:50.133	117GM11A	**CSMOS**	GE	***** GROUP END CSMOS	1R3	4	0	6,255,938:00:0	
1092	1	289	01:23:55.466	165IC4A	7SCAN	NORM,353.068996,	Check S/P Position	1R3	4	0	6,255,938:08:0	
1093	**1**	**289**	**01:24:06.100**	**32NNTHERML01-**		**-----START------**		**1R3**	**4**	**0**	**: :**	
1094	**1**	**289**	**01:24:10.800**	**20DD5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,255,938:31:0**	
1095	**1**	**289**	**01:24:14.133**	**20DD5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,255,938:36:0**	
1096	**1**	**289**	**01:24:17.466**	**20DD6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,255,938:41:0**	
1097	**1**	**289**	**01:24:27.466**	**20DD6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,255,938:56:0**	
1098	**1**	**289**	**01:24:37.466**	**20DD5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,255,938:71:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1099	**1**	**289**	**01:24:40.800**	**20DD5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,255,938:76:0**
1100	**1**	**289**	**01:25:44.800**	**20DD4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,255,939:81:0**
1101	**1**	**289**	**01:26:44.800**	**20DD4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**6,255,940:80:0**
1102	**1**	**289**	**01:26:45.466**	**20DD4C**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**6,255,940:81:0**
1103	1	289	01:26:56.133	118IC	**SMOS**	GS		2R3	4	0	6,255,941:06:0
1104	1	289	01:27:14.800	175IC422A6A	6DMSC	R403,3	DMS Control	2R3	4	0	6,255,941:34:0
1105	1	289	01:27:14.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2805.60 +/- 1	2R3	4	0	6,255,941:34:0
1106	1	289	01:27:16.000		DMS:	: *RUNUP	R403, TRACK 3, FWD, TIC *2805.66 +/- 1	2R3	4	0	6,255,941:35:8
1107	1	289	01:27:16.800	165IC4B	7VECT		Inert vect update UTC	2R3	4	0	6,255,941:37:0
1108	1	289	01:27:19.466	175IC176A6A	6TMREC	**IM4**	403.2 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,255,941:41:0
1109	1	289	01:27:19.866		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *2828.66 +/- 1	2R3	4	0	6,255,941:41:6
1110	1	289	01:27:19.866		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 2828.66 +/- 1	2R3	4	0	6,255,941:41:6
1111	1	289	01:27:20.133	118IC110A111A4A	7STRP	-0.0068,-0.0032,	Slew =,2.61	2R3	4	0	6,255,941:42:0
1112	1	289	01:27:37.466	428JJ6A	6RCCLR			2R3	4	0	6,255,941:68:0
1113	1	289	01:27:38.133	428JJ6B	6RCSET	11		2R3	4	0	6,255,941:69:0
1114	1	289	01:27:46.133	118IC11A	**SMOS**	GE		2R3	4	0	6,255,941:81:0
1115	**1**	**289**	**01:27:46.133**	**20DD4D**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**6,255,941:81:0**
1116	**1**	**289**	**01:27:51.400**	**32INTHERML01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1117	1	289	01:27:52.133	165DD4A	**7SCAN**	**NORM,36.802,23.3**	**Check S/P Position**	2R3	4	0	6,255,941:90:0
1118	1	289	01:27:52.800	175TF422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	6,255,942:00:0
1119	1	289	01:27:52.800		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *3233.90 +/- 1	2R3	4	0	6,255,942:00:0
1120	1	289	01:27:55.533		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3237.90 +/- 2	2R3	4	0	6,255,942:04:1
1121	1	289	01:27:56.800	175TF176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	6,255,942:06:0
1122	1	289	01:27:56.933		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3238.02 +/- 2	2R3	4	0	6,255,942:06:2
1123	1	289	01:27:56.933		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3238.02 +/- 2	2R3	4	0	6,255,942:06:2
1124	**1**	**289**	**01:28:06.233**	**32NNTHERML01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1125	1	289	01:28:22.800	428JK6A	6RCCLR			2R3	4	0	6,255,942:45:0
1126	1	289	01:28:23.466	428JK6B	6RCSET	12		2R3	4	0	6,255,942:46:0
1127	1	289	01:28:44.133	117DD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	6,255,942:77:0
1128	1	289	01:28:44.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3249.23 +/- 2	2R3	4	0	6,255,942:78:0
1129	1	289	01:28:44.800	175DD422A6A	6DMSC	R28,3	DMS Control	2R3	4	0	6,255,942:78:0
1130	1	289	01:28:46.000		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *3249.29 +/- 2	2R3	4	0	6,255,942:79:8
1131	1	289	01:28:50.000		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 3250.79 +/- 2	2R3	4	0	6,255,942:85:8
1132	1	289	01:28:50.000		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *3250.79 +/- 2	2R3	4	0	6,255,942:85:8
1133	1	289	01:28:50.133	175DD176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	6,255,942:86:0
1134	1	289	01:28:52.133	165DD4B	7VECT		Inert vect update UTC	2R3	4	0	6,255,942:89:0
1135	**1**	**289**	**01:28:52.133**	**32INTHERML01-**	**NIMPBK**	**301ED**	**IO THERMAL OBSERVATION**	**2R3**	**4**	**0**	**: :**
1136	**1**	**289**	**01:28:52.133**	**32INTHERML01-**	**NIMPBK**	**301DD**	**IO THERMAL OBSERVATION**	**2R3**	**4**	**0**	**: :**
1137	1	289	01:28:53.466	117DD105A106A4A	**7STRP**	**-0.00535,0.0,0,0**	**Slew =,0.03**	2R3	4	0	6,255,943:00:0
1138	1	289	01:30:23.466	428JL6A	6RCCLR			2R3	4	0	6,255,944:44:0
1139	1	289	01:30:24.133	428JL6B	6RCSET	8		2R3	4	0	6,255,944:45:0
1140	**1**	**289**	**01:31:54.133**	**32INTHERML01-**	**DESELC**	**300DD**	**IO THERMAL OBSERVATION**	**2R3**	**4**	**0**	**: :**
1141	**1**	**289**	**01:31:54.133**	**32INTHERML01-**	**DESELC**	**300ED**	**IO THERMAL OBSERVATION**	**2R3**	**4**	**0**	**: :**
1142	1	289	01:31:55.466	117DD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	6,255,946:00:0
1143	1	289	01:31:56.133	175TG422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	6,255,946:01:0
1144	1	289	01:31:56.133		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *3414.39 +/- 2	2R3	4	0	6,255,946:01:0
1145	1	289	01:31:57.333		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3414.69 +/- 2	2R3	4	0	6,255,946:02:8
1146	1	289	01:31:57.466	165ID4A	7SCAN	NORM,19.518,51.4	Check S/P Position	2R3	4	0	6,255,946:03:0
1147	1	289	01:31:58.733		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3414.81 +/- 2	2R3	4	0	6,255,946:04:9
1148	1	289	01:31:58.733		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3414.81 +/- 2	2R3	4	0	6,255,946:04:9
1149	1	289	01:31:58.800	175TG176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	6,255,946:05:0
1150	**1**	**289**	**01:32:01.566**	**32INTHERML01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1151	1	289	01:32:26.800	428JM6A	6RCCLR			2R3	4	0	6,255,946:47:0
1152	1	289	01:32:27.466	428JM6B	6RCSET	12		2R3	4	0	6,255,946:48:0
1153	1	289	01:32:48.133	118ID	**SMOS**	GS		2R3	4	0	6,255,946:79:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	1	289	01:32:52.800	175ID422A6A	6DMSC	R403,3	DMS Control	2R3	4	0	6,255,946	86:0
1155	1	289	01:32:52.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3427.48 +/- 2	2R3	4	0	6,255,946	86:0
1156	1	289	01:32:54.000		DMS:	: *RUNUP	R403, TRACK 3, FWD, TIC *3427.54 +/- 2	2R3	4	0	6,255,946	87:8
1157	1	289	01:32:54.800	165ID4B	7VECT		Inert vect update UTC	2R3	4	0	6,255,946	89:0
1158	1	289	01:32:57.466	175ID176A6A	6TMREC	**IM4**	403.2 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,255,947	02:0
1159	1	289	01:32:57.866		DMS:	: *AT_SPD	R403, TRACK 3, FWD, TIC 3450.54 +/- 2	2R3	4	0	6,255,947	02:6
1160	1	289	01:32:57.866		DMS:	**: *RECORD**	R403, TRACK 3, FWD, TIC *3450.54 +/- 2	2R3	4	0	6,255,947	02:6
1161	1	289	01:32:58.133	118ID110A111A4A	7STRP	-0.0068,-0.0043,	Slew =4,2.8	2R3	4	0	6,255,947	03:0
1162	1	289	01:33:15.466	428JN6A	6RCCLR			2R3	4	0	6,255,947	29:0
1163	1	289	01:33:16.133	428JN6B	6RCSET	11		2R3	4	0	6,255,947	30:0
1164	1	289	01:33:24.133	118ID11A	**SMOS**	GE		2R3	4	0	6,255,947	42:0
1165	1	289	01:33:26.133	165IE4A	7SCAN	NORM,38.387,26.5	Check S/P Position	2R3	4	0	6,255,947	45:0
1166	1	289	01:33:30.800		DMS:	**: *RUNDOWN**	R403, TRACK 3, FWD, TIC *3855.77 +/- 2	2R3	4	0	6,255,947	52:0
1167	1	289	01:33:30.800	175TH422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	6,255,947	52:0
1168	1	289	01:33:33.533		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3859.77 +/- 2	2R3	4	0	6,255,947	56:1
1169	1	289	01:33:34.800	175TH176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	6,255,947	58:0
1170	1	289	01:33:34.933		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3859.89 +/- 2	2R3	4	0	6,255,947	58:2
1171	1	289	01:33:34.933		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3859.89 +/- 2	2R3	4	0	6,255,947	58:2
1172	1	289	01:34:16.133	428JO6A	6RCCLR			2R3	4	0	6,255,948	29:0
1173	1	289	01:34:16.800	428JO6B	6RCSET	14		2R3	4	0	6,255,948	30:0
1174	1	289	01:34:49.466	118IE	**SMOS**	GS		2R3	4	0	6,255,948	79:0
1175	1	289	01:34:52.800	175IE422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	6,255,948	84:0
1176	1	289	01:34:52.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3878.14 +/- 2	2R3	4	0	6,255,948	84:0
1177	1	289	01:34:54.000		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *3878.20 +/- 2	2R3	4	0	6,255,948	85:8
1178	1	289	01:34:56.133	165IE4B	7VECT		Inert vect update UTC	2R3	4	0	6,255,948	89:0
1179	1	289	01:34:58.800	175IE176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,255,949	02:0
1180	1	289	01:34:59.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3944.20 +/- 2	2R3	4	0	6,255,949	02:7
1181	1	289	01:34:59.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3944.20 +/- 2	2R3	4	0	6,255,949	02:7
1182	1	289	01:34:59.466	118IE110A111A4A	7STRP	0.00647,-0.00083	Slew =2,2.8	2R3	4	0	6,255,949	03:0
1183	1	289	01:35:08.133	118IE11A	**SMOS**	GE		2R3	4	0	6,255,949	16:0
1184	1	289	01:35:08.133	428JP6A	6RCCLR			2R3	4	0	6,255,949	16:0
1185	1	289	01:35:08.800	428JP6B	6RCSET	11		2R3	4	0	6,255,949	17:0
1186	1	289	01:35:14.133	165IF4A	7SCAN	NORM,52.384,34.7	Check S/P Position	2R3	4	0	6,255,949	25:0
1187	1	289	01:35:14.800		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *4326.47 +/- 2	2R3	4	0	6,255,949	26:0
1188	1	289	01:35:14.800	175TI422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	6,255,949	26:0
1189	1	289	01:35:17.533		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4337.97 +/- 2	2R3	4	0	6,255,949	30:1
1190	1	289	01:35:18.800	175TI176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	6,255,949	32:0
1191	1	289	01:35:18.933		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4338.09 +/- 2	2R3	4	0	6,255,949	32:2
1192	1	289	01:35:18.933		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4338.09 +/- 2	2R3	4	0	6,255,949	32:2
1193	1	289	01:36:08.800	428JQ6A	6RCCLR			2R3	4	0	6,255,950	16:0
1194	1	289	01:36:09.466	428JQ6B	6RCSET	14		2R3	4	0	6,255,950	17:0
1195	1	289	01:36:50.800	118IF	**SMOS**	GS		2R3	4	0	6,255,950	79:0
1196	1	289	01:36:54.133	175IF422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	6,255,950	84:0
1197	1	289	01:36:54.133		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4360.40 +/- 2	2R3	4	0	6,255,950	84:0
1198	1	289	01:36:55.333		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *4360.46 +/- 2	2R3	4	0	6,255,950	85:8
1199	1	289	01:36:57.466	165IF4B	7VECT		Inert vect update UTC	2R3	4	0	6,255,950	89:0
1200	1	289	01:37:00.133	175IF176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,255,951	02:0
1201	1	289	01:37:00.600		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *4426.46 +/- 2	2R3	4	0	6,255,951	02:7
1202	1	289	01:37:00.600		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 4426.46 +/- 3	2R3	4	0	6,255,951	02:7
1203	1	289	01:37:00.800	118IF110A111A4A	7STRP	-0.00521,0.0053,	Slew =5,2.8	2R3	4	0	6,255,951	03:0
1204	1	289	01:37:22.133	428JR6A	6RCCLR			2R3	4	0	6,255,951	35:0
1205	1	289	01:37:22.800	428JR6B	6RCSET	11		2R3	4	0	6,255,951	36:0
1206	1	289	01:37:35.466	118IF11A	**SMOS**	GE		2R3	4	0	6,255,951	55:0
1207	1	289	01:37:42.133		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5448.57 +/- 3	2R3	4	0	6,255,951	65:0
1208	1	289	01:37:42.133	175TJ422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	6,255,951	65:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1209	1	289	01:37:44.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5460.07 +/- 3	2R3	4	0	6,255,951:69:1
1210	1	289	01:37:46.133	175TJ176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	6,255,951:71:0
1211	1	289	01:37:46.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5460.19 +/- 3	2R3	4	0	6,255,951:71:2
1212	1	289	01:37:46.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5460.19 +/- 3	2R3	4	0	6,255,951:71:2
1213	**1**	**289**	**01:39:16.100**	**32NNEMAKNG01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1214	**1**	**289**	**01:39:20.800**	**20DE5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,255,953:31:0**
1215	**1**	**289**	**01:39:24.133**	**20DE5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,255,953:36:0**
1216	**1**	**289**	**01:39:27.466**	**20DE6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,255,953:41:0**
1217	**1**	**289**	**01:39:37.466**	**20DE6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,255,953:56:0**
1218	**1**	**289**	**01:39:47.466**	**20DE5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,255,953:71:0**
1219	**1**	**289**	**01:39:50.800**	**20DE5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,255,953:76:0**
1220	1	289	01:39:51.466	428JS6A	6RCCLR			260	4	0	6,255,953:77:0
1221	1	289	01:39:52.133	428JS6B	6RCSET	12		260	4	0	6,255,953:78:0
1222	**1**	**289**	**01:40:54.800**	**20DE4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,255,954:81:0**
1223	**1**	**289**	**01:41:00.100**	**32INEMAKNG01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
1224	1	289	01:41:00.800	165DE4A	**7SCAN**	**NORM,38.447,34.7**	**Check S/P Position**	2R0	4	0	6,255,954:90:0
1225	1	289	01:41:46.133	20ID6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2R0	4	0	6,255,955:67:0
1226	1	289	01:41:52.800	117DE	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	6,255,955:77:0
1227	1	289	01:41:53.466	175DE422A6A	6DMSC	R28,3	DMS Control	2R0	4	0	6,255,955:78:0
1228	1	289	01:41:53.466		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5518.13 +/- 3	2R0	4	0	6,255,955:78:0
1229	1	289	01:41:54.666		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *5518.19 +/- 3	2R0	4	0	6,255,955:79:8
1230	1	289	01:41:57.466	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	6,255,955:84:0
1231	**1**	**289**	**01:41:57.466**	**127DE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**6,255,955:84:0**
1232	**1**	**289**	**01:41:58.133**	**127DE4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**6,255,955:85:0**
1233	1	289	01:41:58.666		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *5519.69 +/- 3	2R3	4	0	6,255,955:85:8
1234	1	289	01:41:58.666		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 5519.69 +/- 3	2R3	4	0	6,255,955:85:8
1235	1	289	01:41:58.800	175DE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	6,255,955:86:0
1236	1	289	01:42:00.800	165DE4B	7VECT		Inert vect update UTC	2R3	4	0	6,255,955:89:0
1237	**1**	**289**	**01:42:00.800**	**32INEMAKNG01-**	**NIMPBK**	**301DE**	**IO EMAKNG OBSERVATION**	**2R3**	**4**	**0**	**: :**
1238	**1**	**289**	**01:42:00.800**	**32INEMAKNG01-**	**NIMPBK**	**301EE**	**IO EMAKNG OBSERVATION**	**2R3**	**4**	**0**	**: :**
1239	1	289	01:42:02.133	117DE105A106A4A	**7STRP**	**-0.018102,-0.002**	**Slew =,0.03**	2R3	4	0	6,255,956:00:0
1240	1	289	01:42:06.133	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	6,255,956:06:0
1241	**1**	**289**	**01:42:16.233**	**32NNEMAKNG01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1242	1	289	01:43:39.466	428JT6A	6RCCLR			2R3	4	0	6,255,957:55:0
1243	1	289	01:43:40.133	428JT6B	6RCSET	8		2R3	4	0	6,255,957:56:0
1244	1	289	01:44:34.133	488AJ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	6,255,958:46:0
1245	**1**	**289**	**01:49:10.800**	**32INEMAKNG01-**	**DESELC**	**300EE**	**IO EMAKNG OBSERVATION**	**2R3**	**4**	**0**	**: :**
1246	**1**	**289**	**01:49:10.800**	**32INEMAKNG01-**	**DESELC**	**300DE**	**IO EMAKNG OBSERVATION**	**2R3**	**4**	**0**	**: :**
1247	1	289	01:49:12.800	175TK422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	6,255,963:09:0
1248	1	289	01:49:12.800		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *5901.25 +/- 3	2R3	4	0	6,255,963:09:0
1249	1	289	01:49:14.000		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5901.55 +/- 3	2R3	4	0	6,255,963:10:8
1250	1	289	01:49:15.400		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5901.67 +/- 3	2R3	4	0	6,255,963:12:9
1251	1	289	01:49:15.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5901.67 +/- 3	2R3	4	0	6,255,963:12:9
1252	1	289	01:49:15.466	175TK176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	6,255,963:13:0
1253	1	289	01:52:08.133	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	6,255,965:90:0
1254	**1**	**289**	**01:52:08.233**	**32INEMAKNG01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1255	1	289	01:53:11.466		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5957.00 +/- 3	2R3	4	0	6,255,967:03:0
1256	1	289	01:53:11.466	175TK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,255,967:03:0
1257	1	289	01:53:11.466	432OB431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	6,255,967:03:0
1258	1	289	01:53:12.133	432OB6A	6RTSL1		R/T Select of DDS and	2R3	4	0	6,255,967:04:0
1259	1	289	01:53:12.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5957.06 +/- 3	2R3	4	0	6,255,967:04:8
1260	1	289	01:53:13.466	428JU6A	6RCCLR			2R3	4	0	6,255,967:06:0
1261	1	289	01:53:15.466	282ND431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	6,255,967:09:0
1262	1	289	01:54:04.133	282ND432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	6,255,967:82:0
1263	1	289	01:54:04.800	282ND432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	6,255,967:83:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	1	289	01:54:10.133	465KD6A	6DMSC	RDY,4	DMS Control Tape stop	2R3	4	0	6,255,968	00:0
1265	1	289	01:54:10.133		DMS:	: READY	RDY, TRACK *4, *REV, TIC 5957.06 +/- 3	2R3	4	0	6,255,968	00:0
1266	1	289	01:55:17.466	165IG4A	7SCAN	NORM,46.52,26.43	Check S/P Position	2R3	4	0	6,255,969	10:0
1267	**1**	**289**	**01:55:26.790**	**32NNITUPAN01-**		**-----START------**		**2R3**	**4**	**0**	:	:
1268	**1**	**289**	**01:55:31.466**	**20DF5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,255,969**	**31:0**
1269	**1**	**289**	**01:55:34.800**	**20DF5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,255,969**	**36:0**
1270	**1**	**289**	**01:55:38.133**	**20DF6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,255,969**	**41:0**
1271	**1**	**289**	**01:55:48.133**	**20DF6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,255,969**	**56:0**
1272	**1**	**289**	**01:55:58.133**	**20DF5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,255,969**	**71:0**
1273	1	289	01:56:00.133	175IG422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb		4	0	6,255,969	74:0
1274	1	289	01:56:00.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5957.06 +/- 3		4	0	6,255,969	74:0
1275	**1**	**289**	**01:56:01.466**	**20DF5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,255,969**	**76:0**
1276	1	289	01:56:01.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5957.18 +/- 3	260	4	0	6,255,969	76:1
1277	1	289	01:56:06.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5958.41 +/- 3	260	4	0	6,255,969	84:0
1278	1	289	01:56:08.000		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5958.47 +/- 3	260	4	0	6,255,969	85:8
1279	1	289	01:56:10.133	165IG4B	7VECT		Inert vect update UTC	260	4	0	6,255,969	89:0
1280	1	289	01:56:12.800	175IG176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	260	4	0	6,255,970	02:0
1281	1	289	01:56:13.266		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 5892.47 +/- 3	260	4	0	6,255,970	02:7
1282	1	289	01:56:13.266		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *5892.47 +/- 3	260	4	0	6,255,970	02:7
1283	1	289	01:56:37.466		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *5296.93 +/- 3	260	4	0	6,255,970	39:0
1284	1	289	01:56:37.466	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	260	4	0	6,255,970	39:0
1285	1	289	01:56:40.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5285.43 +/- 3	260	4	0	6,255,970	43:1
1286	**1**	**289**	**01:57:05.466**	**20DF4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,255,970**	**81:0**
1287	**1**	**289**	**01:57:10.790**	**32INITUPAN01-**		**-----START------**		**2R0**	**4**	**0**	:	:
1288	1	289	01:57:11.466	165DF4A	**7SCAN**	**NORM,47.199,26.2**	**Check S/P Position**	2R0	4	0	6,255,970	90:0
1289	1	289	01:57:58.133	175DF422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R0	4	0	6,255,971	69:0
1290	1	289	01:57:58.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5285.43 +/- 3	2R0	4	0	6,255,971	69:0
1291	1	289	01:57:59.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5285.55 +/- 3	2R0	4	0	6,255,971	71:1
1292	1	289	01:58:03.466	117DF	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	6,255,971	77:0
1293	1	289	01:58:04.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5286.78 +/- 3	2R0	4	0	6,255,971	79:0
1294	1	289	01:58:06.000		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *5286.84 +/- 3	2R0	4	0	6,255,971	80:8
1295	1	289	01:58:08.133	127DF	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	6,255,971	84:0
1296	**1**	**289**	**01:58:08.133**	**127DF4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**6,255,971**	**84:0**
1297	**1**	**289**	**01:58:08.800**	**127DF4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**6,255,971**	**85:0**
1298	1	289	01:58:09.466	175DF176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	6,255,971	86:0
1299	1	289	01:58:10.000		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 5285.34 +/- 3	2R3	4	0	6,255,971	86:8
1300	1	289	01:58:10.000		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *5285.34 +/- 3	2R3	4	0	6,255,971	86:8
1301	**1**	**289**	**01:58:11.466**	**32INITUPAN01-**	**NIMPBK**	**301DF**	**IO TUPAN OBSERVATION**	**2R3**	**4**	**0**	:	:
1302	1	289	01:58:11.466	165DF4B	7VECT		Inert vect update UTC	2R3	4	0	6,255,971	89:0
1303	**1**	**289**	**01:58:11.466**	**32INITUPAN01-**	**NIMPBK**	**301EF**	**IO TUPAN OBSERVATION**	**2R3**	**4**	**0**	:	:
1304	1	289	01:58:12.800	117DF105A106A4A	**7STRP**	**-0.016301,-0.001**	**Slew =,0.03**	2R3	4	0	6,255,972	00:0
1305	1	289	01:58:16.800	127DF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	6,255,972	06:0
1306	**1**	**289**	**01:58:26.900**	**32NNITUPAN01-**		**-----STOP-------**		**2R3**	**4**	**0**	:	:
1307	**1**	**289**	**02:07:16.133**	**32INITUPAN01-**	**DESELC**	**300EF**	**IO TUPAN OBSERVATION**	**2R3**	**4**	**0**	:	:
1308	**1**	**289**	**02:07:16.133**	**32INITUPAN01-**	**DESELC**	**300DF**	**IO TUPAN OBSERVATION**	**2R3**	**4**	**0**	:	:
1309	1	289	02:07:18.800	117DF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	6,255,981	00:0
1310	1	289	02:07:20.133	175DF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,255,981	02:0
1311	1	289	02:07:20.133		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *4801.83 +/- 3	2R3	4	0	6,255,981	02:0
1312	1	289	02:07:21.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4801.53 +/- 3	2R3	4	0	6,255,981	03:8
1313	1	289	02:07:22.133	165IL4A	7SCAN	NORM,42.948,29.8	Check S/P Position	2R3	4	0	6,255,981	05:0
1314	**1**	**289**	**02:07:25.566**	**32INITUPAN01-**		**-----STOP-------**		**2R3**	**4**	**0**	:	:
1315	**1**	**289**	**02:07:34.790**	**32NNICHAAC01-**		**-----START------**		**2R3**	**4**	**0**	:	:
1316	**1**	**289**	**02:07:39.466**	**20DG5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,255,981**	**31:0**
1317	**1**	**289**	**02:07:42.800**	**20DG5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,255,981**	**36:0**
1318	**1**	**289**	**02:07:46.133**	**20DG6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,255,981**	**41:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	**1**	**289**	**02:07:56.133**	**20DG6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,255,981:56:0**	
1320	**1**	**289**	**02:08:06.133**	**20DG5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,255,981:71:0**	
1321	**1**	**289**	**02:08:09.466**	**20DG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,255,981:76:0**	
1322	1	289	02:08:23.466	118IL	**SMOS**	GS		260	4	0	6,255,982:06:0	
1323	1	289	02:08:25.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4801.53 +/- 3	260	4	0	6,255,982:09:0	
1324	1	289	02:08:25.466	175IL422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	260	4	0	6,255,982:09:0	
1325	1	289	02:08:26.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4801.65 +/- 3	260	4	0	6,255,982:11:1	
1326	1	289	02:08:32.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4802.88 +/- 3	260	4	0	6,255,982:19:0	
1327	1	289	02:08:33.333		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *4802.94 +/- 3	260	4	0	6,255,982:20:8	
1328	1	289	02:08:35.466	165IL4B	7VECT		Inert vect update UTC	260	4	0	6,255,982:24:0	
1329	1	289	02:08:38.133	175IL176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	260	4	0	6,255,982:28:0	
1330	1	289	02:08:38.600		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 4736.94 +/- 4	260	4	0	6,255,982:28:7	
1331	1	289	02:08:38.600		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *4736.94 +/- 3	260	4	0	6,255,982:28:7	
1332	1	289	02:08:38.800	118IL110A111A4A	7STRP	0.0065,0.00163,2	Slew =2,3.3	260	4	0	6,255,982:29:0	
1333	1	289	02:08:47.466	118IL11A	**SMOS**	GE		260	4	0	6,255,982:42:0	
1334	1	289	02:08:54.133		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *4354.67 +/- 4	260	4	0	6,255,982:52:0	
1335	1	289	02:08:54.133	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	260	4	0	6,255,982:52:0	
1336	1	289	02:08:56.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4343.17 +/- 4	260	4	0	6,255,982:56:1	
1337	**1**	**289**	**02:09:13.466**	**20DG4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,255,982:81:0**	
1338	**1**	**289**	**02:09:32.100**	**32INICHAAC01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1339	1	289	02:09:32.800	165DG4A	**7SCAN**	**NORM,45.543,26.9**	**Check S/P Position**	2R0	4	0	6,255,983:19:0	
1340	1	289	02:10:06.133	175DG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R0	4	0	6,255,983:69:0	
1341	1	289	02:10:06.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4343.17 +/- 4	2R0	4	0	6,255,983:69:0	
1342	1	289	02:10:07.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4343.29 +/- 4	2R0	4	0	6,255,983:71:1	
1343	1	289	02:10:11.466	117DG	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	6,255,983:77:0	
1344	1	289	02:10:12.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4344.53 +/- 4	2R0	4	0	6,255,983:79:0	
1345	1	289	02:10:14.000		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *4344.59 +/- 4	2R0	4	0	6,255,983:80:8	
1346	1	289	02:10:16.133	127DG	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	6,255,983:84:0	
1347	**1**	**289**	**02:10:16.133**	**127DG4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**6,255,983:84:0**	
1348	**1**	**289**	**02:10:16.800**	**127DG4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**6,255,983:85:0**	
1349	1	289	02:10:17.466	175DG176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	6,255,983:86:0	
1350	1	289	02:10:18.000		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 4343.09 +/- 4	2R3	4	0	6,255,983:86:8	
1351	1	289	02:10:18.000		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *4343.09 +/- 4	2R3	4	0	6,255,983:86:8	
1352	**1**	**289**	**02:10:19.466**	**32INICHAAC01-**	**NIMPBK**	**301DG**	**IO CHAAC OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1353	**1**	**289**	**02:10:19.466**	**32INICHAAC01-**	**NIMPBK**	**301EG**	**IO CHAAC OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1354	1	289	02:10:19.466	165DG4B	7VECT		Inert vect update UTC	2R3	4	0	6,255,983:89:0	
1355	1	289	02:10:20.800	117DG105A106A4A	**7STRP**	**0.032411,0.003,0**	**Slew =,0.06**	2R3	4	0	6,255,984:00:0	
1356	1	289	02:10:24.800	127DG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	6,255,984:06:0	
1357	**1**	**289**	**02:10:34.900**	**32NNICHAAC01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1358	1	289	02:19:26.133	117DG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	6,255,992:90:0	
1359	**1**	**289**	**02:19:33.466**	**32INICHAAC01-**	**DESELC**	**300EG**	**IO CHAAC OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1360	1	289	02:19:33.466	165IH4A	7SCAN	NORM,42.24,24.66	Check S/P Position	2R3	4	0	6,255,993:10:0	
1361	**1**	**289**	**02:19:33.466**	**32INICHAAC01-**	**DESELC**	**300DG**	**IO CHAAC OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1362	1	289	02:19:34.133	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,255,993:11:0	
1363	1	289	02:19:34.133		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *3854.30 +/- 4	2R3	4	0	6,255,993:11:0	
1364	1	289	02:19:35.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3854.00 +/- 4	2R3	4	0	6,255,993:12:8	
1365	**1**	**289**	**02:19:39.566**	**32INICHAAC01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1366	1	289	02:21:18.133	175IH422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	2R3	4	0	6,255,994:76:0	
1367	1	289	02:21:18.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3854.00 +/- 4	2R3	4	0	6,255,994:76:0	
1368	1	289	02:21:19.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3854.12 +/- 4	2R3	4	0	6,255,994:78:1	
1369	1	289	02:21:20.133	118IH	**SMOS**	GS		2R3	4	0	6,255,994:79:0	
1370	1	289	02:21:24.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3855.35 +/- 4	2R3	4	0	6,255,994:86:0	
1371	1	289	02:21:26.000		DMS:	: *RUNUP	R403, TRACK *4, *REV, TIC *3855.41 +/- 4	2R3	4	0	6,255,994:87:8	
1372	1	289	02:21:26.800	165IH4B	7VECT		Inert vect update UTC	2R3	4	0	6,255,994:89:0	
1373	1	289	02:21:29.466	175IH176A6A	6TMREC	**IM4**	403.2 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,255,995:02:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	1	289	02:21:29.866		DMS:	: *AT_SPD	R403, TRACK 4, REV, TIC 3832.41 +/- 4	2R3	4	0	6,255,995:02:6	
1375	1	289	02:21:29.866		DMS:	**: *RECORD**	R403, TRACK 4, REV, TIC *3832.41 +/- 4	2R3	4	0	6,255,995:02:6	
1376	1	289	02:21:30.133	118IH110A111A4A	7STRP	0.0073,0.0015,26	Slew =3,2.8	2R3	4	0	6,255,995:03:0	
1377	**1**	**289**	**02:21:44.100**	**32NNHTSPOT01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1378	1	289	02:21:47.466	118IH11A	**SMOS**	GE		2R3	4	0	6,255,995:29:0	
1379	**1**	**289**	**02:21:48.800**	**20DH5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,255,995:31:0**	
1380	1	289	02:21:50.133		DMS:	**: *RUNDOWN**	R403, TRACK 4, REV, TIC *3583.04 +/- 4		4	0	6,255,995:33:0	
1381	1	289	02:21:50.133	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop		4	0	6,255,995:33:0	
1382	**1**	**289**	**02:21:52.133**	**20DH5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,255,995:36:0**	
1383	1	289	02:21:52.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3579.04 +/- 4		4	0	6,255,995:37:1	
1384	**1**	**289**	**02:21:55.466**	**20DH6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,255,995:41:0**	
1385	**1**	**289**	**02:22:05.466**	**20DH6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,255,995:56:0**	
1386	**1**	**289**	**02:22:15.466**	**20DH5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,255,995:71:0**	
1387	**1**	**289**	**02:22:18.800**	**20DH5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,255,995:76:0**	
1388	**1**	**289**	**02:23:22.800**	**20DH4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,255,996:81:0**	
1389	**1**	**289**	**02:23:28.100**	**32INHTSPOT01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1390	1	289	02:23:28.800	165DH4A	**7SCAN**	**NORM,44.529,26.7**	**Check S/P Position**	2R0	4	0	6,255,996:90:0	
1391	1	289	02:24:14.133	20IE6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2R0	4	0	6,255,997:67:0	
1392	1	289	02:24:15.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3579.04 +/- 4	2R0	4	0	6,255,997:69:0	
1393	1	289	02:24:15.466	175DH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R0	4	0	6,255,997:69:0	
1394	1	289	02:24:16.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3579.16 +/- 4	2R0	4	0	6,255,997:71:1	
1395	1	289	02:24:20.800	117DH	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	6,255,997:77:0	
1396	1	289	02:24:22.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3580.39 +/- 4	2R0	4	0	6,255,997:79:0	
1397	1	289	02:24:23.333		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *3580.45 +/- 4	2R0	4	0	6,255,997:80:8	
1398	1	289	02:24:25.466	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	6,255,997:84:0	
1399	**1**	**289**	**02:24:25.466**	**127DH4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**6,255,997:84:0**	
1400	**1**	**289**	**02:24:26.133**	**127DH4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**6,255,997:85:0**	
1401	1	289	02:24:26.800	175DH176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	6,255,997:86:0	
1402	1	289	02:24:27.333		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 3578.95 +/- 4	2R3	4	0	6,255,997:86:8	
1403	1	289	02:24:27.333		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *3578.95 +/- 4	2R3	4	0	6,255,997:86:8	
1404	1	289	02:24:28.800	165DH4B	7VECT		Inert vect update UTC	2R3	4	0	6,255,997:89:0	
1405	**1**	**289**	**02:24:28.800**	**32INHTSPOT01-**	**NIMPBK**	**301EH**	**IO HOT SPOT OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1406	**1**	**289**	**02:24:28.800**	**32INHTSPOT01-**	**NIMPBK**	**301DH**	**IO HOT SPOT OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1407	1	289	02:24:30.133	117DH105A106A4A	**7STRP**	**0.0105,0.0013,0,**	**Slew =,0.03**	2R3	4	0	6,255,998:00:0	
1408	1	289	02:24:34.133	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	6,255,998:06:0	
1409	**1**	**289**	**02:24:44.233**	**32NNHTSPOT01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1410	1	289	02:30:24.800	117DH105A106A4B	**7STRP**	**-0.01,-0.007,0,0**	**Slew =12.01**	2R3	4	0	6,256,003:77:0	
1411	1	289	02:30:40.133	117DH105A106A4C	**7STRP**	**0.0105,0.0013,0,**	**Slew =,0.03**	2R3	4	0	6,256,004:09:0	
1412	1	289	02:36:34.800	117DH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	6,256,009:86:0	
1413	**1**	**289**	**02:36:38.800**	**32INHTSPOT01-**	**DESELC**	**300DH**	**IO HOT SPOT OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1414	**1**	**289**	**02:36:38.800**	**32INHTSPOT01-**	**DESELC**	**300EH**	**IO HOT SPOT OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1415	1	289	02:36:39.466		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *2935.48 +/- 4	2R3	4	0	6,256,010:02:0	
1416	1	289	02:36:39.466	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,010:02:0	
1417	1	289	02:36:40.666		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2935.18 +/- 4	2R3	4	0	6,256,010:03:8	
1418	1	289	02:36:44.800	165IJ4A	7SCAN	NORM,47.802,21.6	Check S/P Position	2R3	4	0	6,256,010:10:0	
1419	**1**	**289**	**02:36:44.900**	**32INHTSPOT01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1420	1	289	02:38:28.133	175IJ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	6,256,011:74:0	
1421	1	289	02:38:28.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2935.18 +/- 4	2R3	4	0	6,256,011:74:0	
1422	1	289	02:38:29.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2935.30 +/- 4	2R3	4	0	6,256,011:76:1	
1423	1	289	02:38:31.466	118IJ	**SMOS**	GS		2R3	4	0	6,256,011:79:0	
1424	1	289	02:38:34.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2936.53 +/- 4	2R3	4	0	6,256,011:84:0	
1425	1	289	02:38:36.000		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *2936.59 +/- 4	2R3	4	0	6,256,011:85:8	
1426	1	289	02:38:38.133	165IJ4B	7VECT		Inert vect update UTC	2R3	4	0	6,256,011:89:0	
1427	1	289	02:38:40.800	175IJ176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,256,012:02:0	
1428	1	289	02:38:41.266		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 2870.59 +/- 5	2R3	4	0	6,256,012:02:7	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	1	289	02:38:41.266		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *2870.59 +/- 4	2R3	4	0	6,256,012:02:7	
1430	1	289	02:38:41.466	118IJ110A111A4A	7STRP	0.00172,0.00731,	Slew =6,2.8	2R3	4	0	6,256,012:03:0	
1431	1	289	02:39:24.800	118IJ11A	**SMOS**	GE		2R3	4	0	6,256,012:68:0	
1432	1	289	02:39:31.466		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *1635.20 +/- 5	2R3	4	0	6,256,012:78:0	
1433	1	289	02:39:31.466	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,012:78:0	
1434	1	289	02:39:34.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1623.70 +/- 5	2R3	4	0	6,256,012:82:1	
1435	1	289	02:39:38.133	165IK4A	7SCAN	NORM,47.604,24.6	Check S/P Position	2R3	4	0	6,256,012:88:0	
1436	1	289	02:40:38.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1623.70 +/- 5	2R3	4	0	6,256,013:87:0	
1437	1	289	02:40:38.133	175IK422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	6,256,013:87:0	
1438	1	289	02:40:39.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1623.82 +/- 5	2R3	4	0	6,256,013:89:1	
1439	1	289	02:40:41.466	118IK	**SMOS**	GS		2R3	4	0	6,256,014:01:0	
1440	1	289	02:40:44.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1625.06 +/- 5	2R3	4	0	6,256,014:06:0	
1441	1	289	02:40:46.000		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *1625.12 +/- 5	2R3	4	0	6,256,014:07:8	
1442	1	289	02:40:48.133	165IK4B	7VECT		Inert vect update UTC	2R3	4	0	6,256,014:11:0	
1443	1	289	02:40:50.800	175IK176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,256,014:15:0	
1444	1	289	02:40:51.266		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 1559.12 +/- 5	2R3	4	0	6,256,014:15:7	
1445	1	289	02:40:51.266		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *1559.12 +/- 5	2R3	4	0	6,256,014:15:7	
1446	1	289	02:40:51.466	118IK110A111A4A	7STRP	-0.0059,0.0052,2	Slew =4,2.8	2R3	4	0	6,256,014:16:0	
1447	1	289	02:41:17.466	118IK11A	**SMOS**	GE		2R3	4	0	6,256,014:55:0	
1448	1	289	02:41:18.133	116IK4A	7STRP	-0.0073,-0.0004,	Slew =,3.71	2R3	4	0	6,256,014:56:0	
1449	1	289	02:41:26.800	116JK4A	7STRP	-0.0073,-0.0004,	Slew =,3.71	2R3	4	0	6,256,014:69:0	
1450	1	289	02:41:41.466		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC * 323.73 +/- 5	2R3	4	0	6,256,015:00:0	
1451	1	289	02:41:41.466	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,015:00:0	
1452	1	289	02:41:44.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 312.23 +/- 5	2R3	4	0	6,256,015:04:1	
1453	1	289	02:45:43.466	165GN4A	7SCAN	NORM,49.003,23.6	Check S/P Position	2R3	4	0	6,256,018:90:0	
1454	1	289	02:45:44.133	176GN6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	6,256,019:00:0	
1455	1	289	02:46:35.466	117GN	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	6,256,019:77:0	
1456	1	289	02:46:44.800	117GN105A106A4A	7STRP	-0.09882,-0.0160	Slew =,0.15	2R3	4	0	6,256,020:00:0	
1457	1	289	02:57:49.466	117GN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	6,256,030:87:0	
1458	1	289	02:58:18.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	6,256,031:40:0	
1459	1	289	02:58:18.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 312.23 +/- 5	2R3	4	0	6,256,031:40:0	
1460	1	289	02:58:20.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 312.35 +/- 5	2R3	4	0	6,256,031:42:1	
1461	1	289	02:58:22.133	176GN6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	6,256,031:45:0	
1462	1	289	02:58:25.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 313.58 +/- 5	2R3	4	0	6,256,031:50:0	
1463	1	289	02:58:26.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 313.64 +/- 5	2R3	4	0	6,256,031:51:8	
1464	1	289	02:58:28.066		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 313.52 +/- 5	2R3	4	0	6,256,031:53:9	
1465	1	289	02:58:44.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 309.75 +/- 5	2R3	4	0	6,256,031:78:0	
1466	1	289	02:59:06.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,032:20:0	
1467	1	289	02:59:06.133		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 304.60 +/- 5	2R3	4	0	6,256,032:20:0	
1468	1	289	02:59:07.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 304.54 +/- 5	2R3	4	0	6,256,032:21:8	
1469	1	289	03:00:53.466	165GO4A	7SCAN	NORM,46.323,22.5	Check S/P Position	2R3	4	0	6,256,033:90:0	
1470	1	289	03:00:54.133	176GO6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	6,256,034:00:0	
1471	1	289	03:01:45.466	117GO	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	6,256,034:77:0	
1472	1	289	03:01:54.800	117GO105A106A4A	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R3	4	0	6,256,035:00:0	
1473	1	289	03:02:16.133	117GO105A106A4B	7STRP	0.0054,-0.0007,0	Slew =12.01	2R3	4	0	6,256,035:32:0	
1474	1	289	03:02:27.466	117GO105A106A4C	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R3	4	0	6,256,035:49:0	
1475	1	289	03:02:48.800	117GO105A106A4D	7STRP	0.0054,-0.0007,0	Slew =12.01	2R3	4	0	6,256,035:81:0	
1476	1	289	03:03:00.133	117GO105A106A4E	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R3	4	0	6,256,036:07:0	
1477	1	289	03:03:21.466	117GO105A106A4F	7STRP	0.0054,-0.0007,0	Slew =12.01	2R3	4	0	6,256,036:39:0	
1478	1	289	03:03:32.800	117GO105A106A4G	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R3	4	0	6,256,036:56:0	
1479	1	289	03:03:54.133	117GO105A106A4H	7STRP	0.0054,-0.0007,0	Slew =12.01	2R3	4	0	6,256,036:88:0	
1480	**1**	**289**	**03:04:00.100**	**32NNREGION01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1481	**1**	**289**	**03:04:03.466**	**20DI5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,256,037:11:0**	
1482	1	289	03:04:05.466	117GO105A106A4I	7STRP	-0.0055,-0.0007,	Slew =,0.32		4	0	6,256,037:14:0	
1483	**1**	**289**	**03:04:13.466**	**20DI5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,256,037:26:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1484	**1**	**289**	**03:04:23.466**	**20DI6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,256,037:41:0**
1485	1	289	03:04:26.800	117GO105A106A4J	7STRP	0.0054,-0.0007,0	Slew =12.01		4	0	6,256,037:46:0
1486	**1**	**289**	**03:04:33.466**	**20DI6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,256,037:56:0**
1487	1	289	03:04:38.133	117GO105A106A4K	7STRP	-0.0055,-0.0007,	Slew =,0.32		4	0	6,256,037:63:0
1488	**1**	**289**	**03:04:43.466**	**20DI5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,256,037:71:0**
1489	**1**	**289**	**03:04:46.800**	**20DI5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,256,037:76:0**
1490	1	289	03:04:59.466	117GO105A106A4L	7STRP	0.0054,-0.0007,0	Slew =12.01	260	4	0	6,256,038:04:0
1491	1	289	03:05:10.800	117GO105A106A4M	7STRP	-0.0055,-0.0007,	Slew =,0.32	260	4	0	6,256,038:21:0
1492	1	289	03:05:32.133	117GO105A106A4N	7STRP	0.0054,-0.0007,0	Slew =12.01	260	4	0	6,256,038:53:0
1493	1	289	03:05:43.466	117GO105A106A4O	7STRP	-0.0055,-0.0007,	Slew =,0.32	260	4	0	6,256,038:70:0
1494	**1**	**289**	**03:05:50.800**	**20DI4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,256,038:81:0**
1495	1	289	03:06:04.800	117GO105A106A4P	7STRP	0.0054,-0.0007,0	Slew =12.01	2R0	4	0	6,256,039:11:0
1496	1	289	03:06:16.133	117GO105A106A4Q	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R0	4	0	6,256,039:28:0
1497	1	289	03:06:37.466	117GO105A106A4R	7STRP	0.0054,-0.0007,0	Slew =12.01	2R0	4	0	6,256,039:60:0
1498	1	289	03:06:48.800	117GO105A106A4S	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R0	4	0	6,256,039:77:0
1499	**1**	**289**	**03:06:53.400**	**32INREGION01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
1500	**1**	**289**	**03:06:53.466**	**127DI4A**	**37IOP**	**1,0**	**Full Map, Grating Start Position =00**	**2R1**	**4**	**0**	**6,256,039:84:0**
1501	1	289	03:06:53.466	127DI	NIMSTAB	GS	%%%%% GROUP START TAB	2R1	4	0	6,256,039:84:0
1502	**1**	**289**	**03:06:54.133**	**127DI4B**	**37ETB**		**Loads wavelength edit table**	**2R1**	**4**	**0**	**6,256,039:85:0**
1503	**1**	**289**	**03:07:00.233**	**32NNREGION01-**		**-----STOP-------**		**2R1**	**4**	**0**	**: :**
1504	1	289	03:07:02.133	127DI11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R1	4	0	6,256,040:06:0
1505	1	289	03:07:10.133	117GO105A106A4T	7STRP	0.0054,-0.0007,0	Slew =12.01	2R1	4	0	6,256,040:18:0
1506	1	289	03:07:21.466	117GO105A106A4U	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R1	4	0	6,256,040:35:0
1507	1	289	03:07:42.800	117GO105A106A4V	7STRP	0.0054,-0.0007,0	Slew =12.01	2R1	4	0	6,256,040:67:0
1508	1	289	03:07:54.133	117GO105A106A4W	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R1	4	0	6,256,040:84:0
1509	1	289	03:08:15.466	117GO105A106A4X	7STRP	0.0054,-0.0007,0	Slew =12.01	2R1	4	0	6,256,041:25:0
1510	1	289	03:08:26.800	117GO105A106A4Y	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R1	4	0	6,256,041:42:0
1511	1	289	03:08:48.133	117GO105A106A4Z	7STRP	0.0054,-0.0007,0	Slew =12.01	2R1	4	0	6,256,041:74:0
1512	1	289	03:08:59.466	117GO105A106A4AA	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R1	4	0	6,256,042:00:0
1513	1	289	03:09:20.800	117GO105A106A4AB	7STRP	0.0054,-0.0007,0	Slew =12.01	2R1	4	0	6,256,042:32:0
1514	1	289	03:09:32.133	117GO105A106A4AC	7STRP	-0.0055,-0.0007,	Slew =,0.32	2R1	4	0	6,256,042:49:0
1515	1	289	03:09:53.466	117GO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R1	4	0	6,256,042:81:0
1516	1	289	03:10:30.133	176GO6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R1	4	0	6,256,043:45:0
1517	1	289	03:10:32.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 304.54 +/- 5	2R1	4	0	6,256,043:48:0
1518	1	289	03:10:32.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,043:48:0
1519	1	289	03:10:33.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 304.66 +/- 5	2R1	4	0	6,256,043:50:1
1520	1	289	03:10:38.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 305.89 +/- 5	2R1	4	0	6,256,043:58:0
1521	1	289	03:10:40.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 305.95 +/- 5	2R1	4	0	6,256,043:59:8
1522	1	289	03:10:41.400		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 305.83 +/- 5	2R1	4	0	6,256,043:61:9
1523	1	289	03:10:42.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 305.66 +/- 5	2R1	4	0	6,256,043:63:0
1524	1	289	03:10:58.133		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 301.91 +/- 5	2R1	4	0	6,256,043:87:0
1525	1	289	03:10:58.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,043:87:0
1526	1	289	03:10:59.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 301.85 +/- 5	2R1	4	0	6,256,043:88:8
1527	1	289	03:11:44.133	465KE6A	6DMSC	RDY,1	DMS Control Tape stop	2R1	4	0	6,256,044:65:0
1528	1	289	03:11:44.133		DMS:	: READY	RDY, TRACK *1, *FWD, TIC 301.85 +/- 5	2R1	4	0	6,256,044:65:0
1529	1	289	03:12:00.800	165DI4A	**7SCAN**	**NORM,47.373,20.4**	**Check S/P Position**	2R1	4	0	6,256,044:90:0
1530	1	289	03:12:52.800	117DI	**CSMOS**	GS	***** GROUP START CSMOS	2R1	4	0	6,256,045:77:0
1531	1	289	03:12:54.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 301.85 +/- 5	2R1	4	0	6,256,045:79:0
1532	1	289	03:12:54.133	175DI422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R1	4	0	6,256,045:79:0
1533	1	289	03:13:00.800	165DI4B	7VECT		Inert vect update UTC	2R1	4	0	6,256,045:89:0
1534	1	289	03:13:00.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 301.85 +/- 5	2R1	4	0	6,256,045:89:0
1535	1	289	03:13:02.133	175DI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R1	4	0	6,256,046:00:0
1536	1	289	03:13:02.133	117DI105A106A4A	**7STRP**	**-0.032361,0.001,**	**Slew =,0.06**	2R1	4	0	6,256,046:00:0
1537	1	289	03:13:02.200		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 301.97 +/- 5	2R1	4	0	6,256,046:00:1
1538	1	289	03:13:02.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 301.97 +/- 5	2R1	4	0	6,256,046:00:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	**1**	**289**	**03:13:11.466**	**32INREGION01-**	**NIMPBK**	**301DI**	**IO REGIONAL OBSERVATION**	**2R1**	**4**	**0**	**: :**	
1540	**1**	**289**	**03:13:11.466**	**32INREGION01-**	**NIMPBK**	**301EI**	**IO REGIONAL OBSERVATION**	**2R1**	**4**	**0**	**: :**	
1541	1	289	03:22:04.800	117DI105A106A4B	**7STRP**	**0.032612,0.0076,**	**Slew =12.01**	2R1	4	0	6,256,054:86:0	
1542	1	289	03:22:18.133	117DI105A106A4C	**7STRP**	**-0.032361,0.001,**	**Slew =,0.06**	2R1	4	0	6,256,055:15:0	
1543	1	289	03:31:20.800	117DI105A106A4D	**7STRP**	**0.032612,0.0076,**	**Slew =12.01**	2R1	4	0	6,256,064:10:0	
1544	1	289	03:31:34.133	117DI105A106A4E	**7STRP**	**-0.032361,0.001,**	**Slew =,0.06**	2R1	4	0	6,256,064:30:0	
1545	1	289	03:40:36.800	117DI105A106A4F	**7STRP**	**0.032612,0.0076,**	**Slew =12.01**	2R1	4	0	6,256,073:25:0	
1546	1	289	03:40:50.133	117DI105A106A4G	**7STRP**	**-0.032361,0.001,**	**Slew =,0.06**	2R1	4	0	6,256,073:45:0	
1547	1	289	03:49:52.800	117DI105A106A4H	**7STRP**	**0.032612,0.0076,**	**Slew =12.01**	2R1	4	0	6,256,082:40:0	
1548	1	289	03:50:06.133	117DI105A106A4I	**7STRP**	**-0.032361,0.001,**	**Slew =,0.06**	2R1	4	0	6,256,082:60:0	
1549	1	289	03:59:08.800	117DI105A106A4J	**7STRP**	**0.032612,0.0076,**	**Slew =12.01**	2R1	4	0	6,256,091:55:0	
1550	1	289	03:59:22.133	117DI105A106A4K	**7STRP**	**-0.032361,0.001,**	**Slew =,0.06**	2R1	4	0	6,256,091:75:0	
1551	1	289	04:08:24.800	117DI105A106A4L	**7STRP**	**0.032612,0.0076,**	**Slew =12.01**	2R1	4	0	6,256,100:70:0	
1552	1	289	04:08:38.133	117DI105A106A4M	**7STRP**	**-0.032361,0.001,**	**Slew =,0.06**	2R1	4	0	6,256,100:90:0	
1553	**1**	**289**	**04:17:36.800**	**32INREGION01-**	**DESELC**	**300EI**	**IO REGIONAL OBSERVATION**	**2R1**	**4**	**0**	**: :**	
1554	**1**	**289**	**04:17:36.800**	**32INREGION01-**	**DESELC**	**300DI**	**IO REGIONAL OBSERVATION**	**2R1**	**4**	**0**	**: :**	
1555	1	289	04:17:38.800	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,109:82:0	
1556	1	289	04:17:38.800	175DI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R1	4	0	6,256,109:82:0	
1557	1	289	04:17:38.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1210.55 +/- 5	2R1	4	0	6,256,109:82:0	
1558	1	289	04:17:40.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1210.61 +/- 5	2R1	4	0	6,256,109:83:8	
1559	1	289	04:17:40.800	117DI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R1	4	0	6,256,109:85:0	
1560	1	289	04:17:44.133	165GT4A	7SCAN	NORM,45.272,22.0	Check S/P Position	2R1	4	0	6,256,109:90:0	
1561	**1**	**289**	**04:17:44.233**	**32INREGION01-**		**-----STOP-------**		**2R1**	**4**	**0**	**: :**	
1562	1	289	04:17:44.800	176GT6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R1	4	0	6,256,110:00:0	
1563	1	289	04:18:36.133	117GT	**CSMOS**	GS	***** GROUP START CSMOS	2R1	4	0	6,256,110:77:0	
1564	1	289	04:18:45.466	117GT105A106A4A	7STRP	-0.030509,-0.003	Slew =,0.16	2R1	4	0	6,256,111:00:0	
1565	1	289	04:21:59.466	117GT105A106A4B	7STRP	0.029108,0.0009,	Slew =12.01	2R1	4	0	6,256,114:18:0	
1566	1	289	04:22:11.466	117GT105A106A4C	7STRP	-0.030509,-0.003	Slew =,0.16	2R1	4	0	6,256,114:36:0	
1567	1	289	04:25:25.466	117GT105A106A4D	7STRP	0.029108,0.0009,	Slew =12.01	2R1	4	0	6,256,117:54:0	
1568	1	289	04:25:37.466	117GT105A106A4E	7STRP	-0.030509,-0.003	Slew =,0.16	2R1	4	0	6,256,117:72:0	
1569	1	289	04:28:51.466	117GT105A106A4F	7STRP	0.029108,0.0009,	Slew =12.01	2R1	4	0	6,256,120:90:0	
1570	1	289	04:29:03.466	117GT105A106A4G	7STRP	-0.030509,-0.003	Slew =,0.16	2R1	4	0	6,256,121:17:0	
1571	1	289	04:30:19.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,122:40:0	
1572	1	289	04:30:19.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1210.61 +/- 5	2R1	4	0	6,256,122:40:0	
1573	1	289	04:30:26.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1210.61 +/- 5	2R1	4	0	6,256,122:50:0	
1574	1	289	04:30:27.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1210.73 +/- 5	2R1	4	0	6,256,122:52:1	
1575	1	289	04:30:44.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1214.78 +/- 5	2R1	4	0	6,256,122:78:0	
1576	1	289	04:31:07.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,123:21:0	
1577	1	289	04:31:07.466		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1220.09 +/- 5	2R1	4	0	6,256,123:21:0	
1578	1	289	04:31:08.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1220.15 +/- 5	2R1	4	0	6,256,123:22:8	
1579	1	289	04:32:17.466	117GT105A106A4H	7STRP	0.029108,0.0009,	Slew =12.01	2R1	4	0	6,256,124:35:0	
1580	1	289	04:32:29.466	117GT105A106A4I	7STRP	-0.030509,-0.003	Slew =,0.16	2R1	4	0	6,256,124:53:0	
1581	1	289	04:35:43.466	117GT105A106A4J	7STRP	0.029108,0.0009,	Slew =12.01	2R1	4	0	6,256,127:71:0	
1582	1	289	04:35:55.466	117GT105A106A4K	7STRP	-0.030509,-0.003	Slew =,0.16	2R1	4	0	6,256,127:89:0	
1583	1	289	04:37:42.133	20IF6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2R1	4	0	6,256,129:67:0	
1584	1	289	04:39:09.466	117GT105A106A4L	7STRP	0.029108,0.0009,	Slew =12.01	2R1	4	0	6,256,131:16:0	
1585	1	289	04:39:21.466	117GT105A106A4M	7STRP	-0.030509,-0.003	Slew =,0.16	2R1	4	0	6,256,131:34:0	
1586	1	289	04:42:35.466	117GT105A106A4N	7STRP	0.029108,0.0009,	Slew =12.01	2R1	4	0	6,256,134:52:0	
1587	1	289	04:42:47.466	117GT105A106A4O	7STRP	-0.030509,-0.003	Slew =,0.16	2R1	4	0	6,256,134:70:0	
1588	1	289	04:43:21.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,135:30:0	
1589	1	289	04:43:21.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1220.15 +/- 5	2R1	4	0	6,256,135:30:0	
1590	1	289	04:43:28.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1220.15 +/- 5	2R1	4	0	6,256,135:40:0	
1591	1	289	04:43:29.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1220.27 +/- 5	2R1	4	0	6,256,135:42:1	
1592	1	289	04:43:46.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1224.31 +/- 5	2R1	4	0	6,256,135:68:0	
1593	1	289	04:44:09.466		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1229.63 +/- 5	2R1	4	0	6,256,136:11:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	1	289	04:44:09.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,136	11:0
1595	1	289	04:44:10.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1229.69 +/- 5	2R1	4	0	6,256,136	12:8
1596	1	289	04:46:01.466	117GT11A	**CSMOS**	GE	***** GROUP END CSMOS	2R1	4	0	6,256,137	88:0
1597	1	289	04:46:33.466	176GT6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R1	4	0	6,256,138	45:0
1598	1	289	04:46:35.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,138	48:0
1599	1	289	04:46:35.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1229.69 +/- 5	2R1	4	0	6,256,138	48:0
1600	1	289	04:46:42.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1229.69 +/- 5	2R1	4	0	6,256,138	58:0
1601	1	289	04:46:43.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1229.81 +/- 5	2R1	4	0	6,256,138	60:1
1602	1	289	04:46:45.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1230.26 +/- 5	2R1	4	0	6,256,138	63:0
1603	1	289	04:46:57.466		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1233.07 +/- 5	2R1	4	0	6,256,138	81:0
1604	1	289	04:46:57.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,138	81:0
1605	1	289	04:46:58.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1233.13 +/- 5	2R1	4	0	6,256,138	82:8
1606	1	289	04:50:05.466	165IN4A	7SCAN	NORM,40.814,18.3	Check S/P Position	2R1	4	0	6,256,141	90:0
1607	1	289	04:52:58.133	175IN422A6A	6DMSC	R806,1	DMS Control	2R1	4	0	6,256,144	76:0
1608	1	289	04:52:58.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1233.13 +/- 5	2R1	4	0	6,256,144	76:0
1609	1	289	04:53:04.800		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 1233.13 +/- 5	2R1	4	0	6,256,144	86:0
1610	1	289	04:53:06.800	165IN4B	7VECT		Inert vect update UTC	2R1	4	0	6,256,144	89:0
1611	1	289	04:53:09.466	175IN176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R1	4	0	6,256,145	02:0
1612	1	289	04:53:10.066		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *1299.13 +/- 5	2R1	4	0	6,256,145	02:9
1613	1	289	04:53:10.066		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 1299.13 +/- 6	2R1	4	0	6,256,145	02:9
1614	1	289	04:53:13.466		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *1382.80 +/- 6	2R1	4	0	6,256,145	08:0
1615	1	289	04:53:13.466	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,145	08:0
1616	1	289	04:53:16.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1394.30 +/- 6	2R1	4	0	6,256,145	12:1
1617	1	289	04:54:08.800	176GU6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R1	4	0	6,256,146	00:0
1618	1	289	04:54:18.800	165GU4A	7SCAN	NORM,45.386,19.3	Check S/P Position	2R1	4	0	6,256,146	15:0
1619	1	289	04:55:00.133	117GU	**CSMOS**	GS	***** GROUP START CSMOS	2R1	4	0	6,256,146	77:0
1620	1	289	04:55:09.466	117GU105A106A4A	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,147	00:0
1621	1	289	04:57:51.466	117GU105A106A4B	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,149	61:0
1622	1	289	04:58:04.133	117GU105A106A4C	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,149	80:0
1623	1	289	05:00:46.133	117GU105A106A4D	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,152	50:0
1624	1	289	05:00:58.800	117GU105A106A4E	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,152	69:0
1625	1	289	05:03:40.800	117GU105A106A4F	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,155	39:0
1626	1	289	05:03:53.466	117GU105A106A4G	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,155	58:0
1627	1	289	05:06:35.466	117GU105A106A4H	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,158	28:0
1628	1	289	05:06:48.133	117GU105A106A4I	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,158	47:0
1629	1	289	05:09:30.133	117GU105A106A4J	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,161	17:0
1630	1	289	05:09:42.800	117GU105A106A4K	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,161	36:0
1631	1	289	05:11:21.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1394.30 +/- 6	2R1	4	0	6,256,163	02:0
1632	1	289	05:11:21.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,163	02:0
1633	1	289	05:11:28.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1394.30 +/- 6	2R1	4	0	6,256,163	12:0
1634	1	289	05:11:29.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1394.42 +/- 6	2R1	4	0	6,256,163	14:1
1635	1	289	05:11:56.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1400.82 +/- 6	2R1	4	0	6,256,163	55:0
1636	1	289	05:12:19.466		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1406.13 +/- 6	2R1	4	0	6,256,163	89:0
1637	1	289	05:12:19.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,163	89:0
1638	1	289	05:12:20.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1406.19 +/- 6	2R1	4	0	6,256,163	90:8
1639	1	289	05:12:24.800	117GU105A106A4L	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,164	06:0
1640	1	289	05:12:37.466	117GU105A106A4M	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,164	25:0
1641	1	289	05:15:19.466	117GU105A106A4N	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,166	86:0
1642	1	289	05:15:32.133	117GU105A106A4O	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,167	14:0
1643	1	289	05:18:00.133	488AJ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R1	4	0	6,256,169	54:0
1644	1	289	05:18:14.133	117GU105A106A4P	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,169	75:0
1645	1	289	05:18:26.800	117GU105A106A4Q	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,170	03:0
1646	1	289	05:21:08.800	117GU105A106A4R	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,172	64:0
1647	1	289	05:21:21.466	117GU105A106A4S	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,172	83:0
1648	1	289	05:24:03.466	117GU105A106A4T	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,175	53:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	1	289	05:24:16.133	117GU105A106A4U	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,175:72:0	
1650	1	289	05:26:48.800	488AJ6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R1	4	0	6,256,178:28:0	
1651	1	289	05:26:58.133	117GU105A106A4V	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,178:42:0	
1652	1	289	05:27:10.800	117GU105A106A4W	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,178:61:0	
1653	1	289	05:29:12.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1406.19 +/- 6	2R1	4	0	6,256,180:62:0	
1654	1	289	05:29:12.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,180:62:0	
1655	1	289	05:29:19.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1406.19 +/- 6	2R1	4	0	6,256,180:72:0	
1656	1	289	05:29:20.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1406.31 +/- 6	2R1	4	0	6,256,180:74:1	
1657	1	289	05:29:47.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1412.54 +/- 6	2R1	4	0	6,256,181:23:0	
1658	1	289	05:29:52.800	117GU105A106A4X	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,181:31:0	
1659	1	289	05:30:05.466	117GU105A106A4Y	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,181:50:0	
1660	1	289	05:30:10.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,181:57:0	
1661	1	289	05:30:10.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1417.85 +/- 6	2R1	4	0	6,256,181:57:0	
1662	1	289	05:30:11.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1417.91 +/- 6	2R1	4	0	6,256,181:58:8	
1663	1	289	05:32:47.466	117GU105A106A4Z	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,184:20:0	
1664	1	289	05:33:00.133	117GU105A106A4AA	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,184:39:0	
1665	1	289	05:35:42.133	117GU105A106A4AB	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,187:09:0	
1666	1	289	05:35:54.800	117GU105A106A4AC	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,187:28:0	
1667	1	289	05:38:36.800	117GU105A106A4AD	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,189:89:0	
1668	1	289	05:38:49.466	117GU105A106A4AE	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,190:17:0	
1669	1	289	05:41:31.466	117GU105A106A4AF	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,192:78:0	
1670	1	289	05:41:44.133	117GU105A106A4AG	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,193:06:0	
1671	1	289	05:44:26.133	117GU105A106A4AH	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,195:67:0	
1672	1	289	05:44:38.800	117GU105A106A4AI	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,195:86:0	
1673	1	289	05:47:04.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,198:31:0	
1674	1	289	05:47:04.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1417.91 +/- 6	2R1	4	0	6,256,198:31:0	
1675	1	289	05:47:10.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1417.91 +/- 6	2R1	4	0	6,256,198:41:0	
1676	1	289	05:47:12.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1418.03 +/- 6	2R1	4	0	6,256,198:43:1	
1677	1	289	05:47:20.800	117GU105A106A4AJ	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,198:56:0	
1678	1	289	05:47:33.466	117GU105A106A4AK	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,198:75:0	
1679	1	289	05:47:38.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1424.27 +/- 6	2R1	4	0	6,256,198:83:0	
1680	1	289	05:48:01.466		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1429.58 +/- 6	2R1	4	0	6,256,199:26:0	
1681	1	289	05:48:01.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,199:26:0	
1682	1	289	05:48:02.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1429.64 +/- 6	2R1	4	0	6,256,199:27:8	
1683	1	289	05:50:15.466	117GU105A106A4AL	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,201:45:0	
1684	1	289	05:50:28.133	117GU105A106A4AM	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,201:64:0	
1685	1	289	05:53:10.133	117GU105A106A4AN	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,204:34:0	
1686	1	289	05:53:22.800	117GU105A106A4AO	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,204:53:0	
1687	1	289	05:56:04.800	117GU105A106A4AP	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,207:23:0	
1688	1	289	05:56:17.466	117GU105A106A4AQ	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,207:42:0	
1689	1	289	05:58:59.466	117GU105A106A4AR	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,210:12:0	
1690	1	289	05:59:12.133	117GU105A106A4AS	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,210:31:0	
1691	1	289	06:01:54.133	117GU105A106A4AT	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,213:01:0	
1692	1	289	06:02:06.800	117GU105A106A4AU	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,213:20:0	
1693	1	289	06:04:48.800	117GU105A106A4AV	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,215:81:0	
1694	1	289	06:04:55.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,216:00:0	
1695	1	289	06:04:55.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1429.64 +/- 6	2R1	4	0	6,256,216:00:0	
1696	1	289	06:05:01.466	117GU105A106A4AW	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,216:09:0	
1697	1	289	06:05:02.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1429.64 +/- 6	2R1	4	0	6,256,216:10:0	
1698	1	289	06:05:03.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1429.76 +/- 6	2R1	4	0	6,256,216:12:1	
1699	1	289	06:05:30.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1436.00 +/- 6	2R1	4	0	6,256,216:52:0	
1700	1	289	06:05:52.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1441.31 +/- 6	2R1	4	0	6,256,216:86:0	
1701	1	289	06:05:52.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,216:86:0	
1702	1	289	06:05:54.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1441.37 +/- 6	2R1	4	0	6,256,216:87:8	
1703	1	289	06:07:43.466	117GU105A106A4AX	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,218:70:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	1	289	06:07:56.133	117GU105A106A4AY	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,218	89:0
1705	1	289	06:09:50.133	488AJ6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R1	4	0	6,256,220	78:0
1706	1	289	06:10:38.133	117GU105A106A4AZ	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,221	59:0
1707	1	289	06:10:50.800	117GU105A106A4BA	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,221	78:0
1708	1	289	06:13:32.800	117GU105A106A4BB	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,224	48:0
1709	1	289	06:13:45.466	117GU105A106A4BC	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,224	67:0
1710	1	289	06:16:27.466	117GU105A106A4BD	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,227	37:0
1711	1	289	06:16:40.133	117GU105A106A4BE	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,227	56:0
1712	1	289	06:19:22.133	117GU105A106A4BF	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,230	26:0
1713	1	289	06:19:34.800	117GU105A106A4BG	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,230	45:0
1714	1	289	06:22:16.800	117GU105A106A4BH	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,233	15:0
1715	1	289	06:22:29.466	117GU105A106A4BI	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,233	34:0
1716	1	289	06:22:46.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1441.37 +/- 6	2R1	4	0	6,256,233	60:0
1717	1	289	06:22:46.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,233	60:0
1718	1	289	06:22:53.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1441.37 +/- 6	2R1	4	0	6,256,233	70:0
1719	1	289	06:22:54.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1441.49 +/- 6	2R1	4	0	6,256,233	72:1
1720	1	289	06:23:21.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1447.72 +/- 6	2R1	4	0	6,256,234	21:0
1721	1	289	06:23:44.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,234	55:0
1722	1	289	06:23:44.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1453.04 +/- 6	2R1	4	0	6,256,234	55:0
1723	1	289	06:23:45.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1453.10 +/- 6	2R1	4	0	6,256,234	56:8
1724	1	289	06:24:24.800	488AK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R1	4	0	6,256,235	25:0
1725	1	289	06:25:11.466	117GU105A106A4BJ	7STRP	0.032011,0.00229	Slew =12.01	2R1	4	0	6,256,236	04:0
1726	1	289	06:25:24.133	117GU105A106A4BK	7STRP	-0.033412,-0.001	Slew =,0.21	2R1	4	0	6,256,236	23:0
1727	1	289	06:28:06.133	117GU11A	**CSMOS**	GE	***** GROUP END CSMOS	2R1	4	0	6,256,238	84:0
1728	1	289	06:28:40.800	176GU6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R1	4	0	6,256,239	45:0
1729	1	289	06:28:42.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1453.10 +/- 6	2R1	4	0	6,256,239	48:0
1730	1	289	06:28:42.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,239	48:0
1731	1	289	06:28:49.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1453.10 +/- 6	2R1	4	0	6,256,239	58:0
1732	1	289	06:28:50.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1453.22 +/- 6	2R1	4	0	6,256,239	60:1
1733	1	289	06:28:52.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1453.67 +/- 6	2R1	4	0	6,256,239	63:0
1734	1	289	06:29:06.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1456.79 +/- 6	2R1	4	0	6,256,239	83:0
1735	1	289	06:29:06.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,239	83:0
1736	1	289	06:29:07.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1456.85 +/- 6	2R1	4	0	6,256,239	84:8
1737	1	289	06:31:12.133	165GP4A	7SCAN	NORM,25.904,14.4	Check S/P Position	2R1	4	0	6,256,241	90:0
1738	1	289	06:32:13.466	176GP6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R1	4	0	6,256,243	00:0
1739	1	289	06:33:04.800	117GP	**CSMOS**	GS	***** GROUP START CSMOS	2R1	4	0	6,256,243	77:0
1740	1	289	06:33:14.133	117GP105A106A4A	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,244	00:0
1741	1	289	06:33:53.466	117GP105A106A4B	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,244	59:0
1742	1	289	06:34:05.466	117GP105A106A4C	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,244	77:0
1743	1	289	06:34:44.800	117GP105A106A4D	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,245	45:0
1744	1	289	06:34:56.800	117GP105A106A4E	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,245	63:0
1745	1	289	06:35:36.133	117GP105A106A4F	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,246	31:0
1746	1	289	06:35:48.133	117GP105A106A4G	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,246	49:0
1747	1	289	06:36:27.466	117GP105A106A4H	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,247	17:0
1748	1	289	06:36:39.466	117GP105A106A4I	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,247	35:0
1749	1	289	06:37:18.800	117GP105A106A4J	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,248	03:0
1750	1	289	06:37:30.800	117GP105A106A4K	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,248	21:0
1751	1	289	06:38:10.133	117GP105A106A4L	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,248	80:0
1752	1	289	06:38:22.133	117GP105A106A4M	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,249	07:0
1753	1	289	06:39:01.466	117GP105A106A4N	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,249	66:0
1754	1	289	06:39:13.466	117GP105A106A4O	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,249	84:0
1755	1	289	06:39:52.800	117GP105A106A4P	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,250	52:0
1756	1	289	06:40:04.800	117GP105A106A4Q	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,250	70:0
1757	1	289	06:40:44.133	117GP105A106A4R	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,251	38:0
1758	1	289	06:40:56.133	117GP105A106A4S	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,251	56:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	1	289	06:41:35.466	117GP105A106A4T	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,252:24:0	
1760	1	289	06:41:47.466	117GP105A106A4U	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,252:42:0	
1761	1	289	06:42:26.800	117GP105A106A4V	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,253:10:0	
1762	1	289	06:42:31.466	488AK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R1	4	0	6,256,253:17:0	
1763	1	289	06:42:38.800	117GP105A106A4W	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,253:28:0	
1764	1	289	06:43:18.133	117GP105A106A4X	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,253:87:0	
1765	1	289	06:43:30.133	117GP105A106A4Y	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,254:14:0	
1766	1	289	06:44:09.466	117GP105A106A4Z	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,254:73:0	
1767	1	289	06:44:21.466	117GP105A106A4AA	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,255:00:0	
1768	1	289	06:44:48.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1456.85 +/- 6	2R1	4	0	6,256,255:40:0	
1769	1	289	06:44:48.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	6,256,255:40:0	
1770	1	289	06:44:54.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1456.85 +/- 6	2R1	4	0	6,256,255:50:0	
1771	1	289	06:44:56.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1456.97 +/- 6	2R1	4	0	6,256,255:52:1	
1772	1	289	06:45:00.800	117GP105A106A4AB	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,255:59:0	
1773	1	289	06:45:12.800	117GP105A106A4AC	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,255:77:0	
1774	1	289	06:45:13.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1461.02 +/- 6	2R1	4	0	6,256,255:78:0	
1775	1	289	06:45:36.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R1	4	0	6,256,256:21:0	
1776	1	289	06:45:36.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1466.33 +/- 6	2R1	4	0	6,256,256:21:0	
1777	1	289	06:45:37.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1466.39 +/- 6	2R1	4	0	6,256,256:22:8	
1778	1	289	06:45:52.133	117GP105A106A4AD	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,256:45:0	
1779	1	289	06:46:04.133	117GP105A106A4AE	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,256:63:0	
1780	1	289	06:46:43.466	117GP105A106A4AF	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,257:31:0	
1781	1	289	06:46:55.466	117GP105A106A4AG	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,257:49:0	
1782	1	289	06:47:34.800	117GP105A106A4AH	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,258:17:0	
1783	1	289	06:47:46.800	117GP105A106A4AI	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,258:35:0	
1784	1	289	06:48:26.133	117GP105A106A4AJ	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,259:03:0	
1785	1	289	06:48:38.133	117GP105A106A4AK	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,259:21:0	
1786	1	289	06:49:17.466	117GP105A106A4AL	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,259:80:0	
1787	1	289	06:49:29.466	117GP105A106A4AM	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,260:07:0	
1788	1	289	06:50:08.800	117GP105A106A4AN	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,260:66:0	
1789	1	289	06:50:20.800	117GP105A106A4AO	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,260:84:0	
1790	1	289	06:51:00.133	117GP105A106A4AP	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,261:52:0	
1791	1	289	06:51:12.133	117GP105A106A4AQ	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,261:70:0	
1792	1	289	06:51:51.466	117GP105A106A4AR	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,262:38:0	
1793	1	289	06:52:03.466	117GP105A106A4AS	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,262:56:0	
1794	1	289	06:52:42.800	117GP105A106A4AT	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,263:24:0	
1795	1	289	06:52:54.800	117GP105A106A4AU	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,263:42:0	
1796	1	289	06:53:34.133	117GP105A106A4AV	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,264:10:0	
1797	1	289	06:53:46.133	117GP105A106A4AW	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,264:28:0	
1798	1	289	06:54:25.466	117GP105A106A4AX	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,264:87:0	
1799	1	289	06:54:37.466	117GP105A106A4AY	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,265:14:0	
1800	1	289	06:55:16.800	117GP105A106A4AZ	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,265:73:0	
1801	1	289	06:55:28.800	117GP105A106A4BA	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,266:00:0	
1802	1	289	06:56:08.133	117GP105A106A4BB	7STRP	0.0095,-0.00109,	Slew =12.01	2R1	4	0	6,256,266:59:0	
1803	1	289	06:56:20.133	117GP105A106A4BC	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R1	4	0	6,256,266:77:0	
1804	**1**	**289**	**06:56:49.400**	**32NNREGION02-**		**-----START------**		**2R1**	**4**	**0**	**: :**	
1805	**1**	**289**	**06:56:53.466**	**20DJ5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,256,267:36:0**	
1806	**1**	**289**	**06:56:56.800**	**20DJ5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,256,267:41:0**	
1807	1	289	06:56:59.466	117GP105A106A4BD	7STRP	0.0095,-0.00109,	Slew =12.01		4	0	6,256,267:45:0	
1808	**1**	**289**	**06:57:00.133**	**20DJ6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,256,267:46:0**	
1809	**1**	**289**	**06:57:10.133**	**20DJ6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,256,267:61:0**	
1810	1	289	06:57:11.466	117GP105A106A4BE	7STRP	-0.008,0.0,0,0,0	Slew =,0.26		4	0	6,256,267:63:0	
1811	**1**	**289**	**06:57:20.133**	**20DJ5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,256,267:76:0**	
1812	**1**	**289**	**06:57:23.466**	**20DJ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,256,267:81:0**	
1813	1	289	06:57:50.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1466.39 +/- 6	260	4	0	6,256,268:30:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1814	1	289	06:57:50.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	260	4	0	6,256,268:30:0	
1815	1	289	06:57:50.800	117GP105A106A4BF	7STRP	0.0095,-0.00109,	Slew =12.01	260	4	0	6,256,268:31:0	
1816	1	289	06:57:56.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1466.39 +/- 6	260	4	0	6,256,268:40:0	
1817	1	289	06:57:58.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1466.51 +/- 6	260	4	0	6,256,268:42:1	
1818	1	289	06:58:02.800	117GP105A106A4BG	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	260	4	0	6,256,268:49:0	
1819	1	289	06:58:15.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1470.56 +/- 6	260	4	0	6,256,268:68:0	
1820	**1**	**289**	**06:58:24.133**	**20DJ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,256,268:81:0**	
1821	1	289	06:58:38.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1475.87 +/- 6	2R0	4	0	6,256,269:11:0	
1822	1	289	06:58:38.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	6,256,269:11:0	
1823	1	289	06:58:39.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1475.93 +/- 6	2R0	4	0	6,256,269:12:8	
1824	1	289	06:58:42.133	117GP105A106A4BH	7STRP	0.0095,-0.00109,	Slew =12.01	2R0	4	0	6,256,269:17:0	
1825	1	289	06:58:54.133	117GP105A106A4BI	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R0	4	0	6,256,269:35:0	
1826	**1**	**289**	**06:59:26.790**	**32INREGION02-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1827	**1**	**289**	**06:59:26.800**	**127DJ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**6,256,269:84:0**	
1828	1	289	06:59:26.800	127DJ	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	6,256,269:84:0	
1829	**1**	**289**	**06:59:27.466**	**127DJ4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**6,256,269:85:0**	
1830	1	289	06:59:33.466	117GP105A106A4BJ	7STRP	0.0095,-0.00109,	Slew =12.01	2R3	4	0	6,256,270:03:0	
1831	1	289	06:59:35.466	127DJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	6,256,270:06:0	
1832	1	289	06:59:45.466	117GP105A106A4BK	7STRP	-0.008,0.0,0,0,0	Slew =,0.26	2R3	4	0	6,256,270:21:0	
1833	**1**	**289**	**06:59:49.566**	**32NNREGION02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1834	1	289	07:00:24.800	117GP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	6,256,270:80:0	
1835	1	289	07:01:02.133	176GP6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	6,256,271:45:0	
1836	1	289	07:01:04.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1475.93 +/- 6	2R3	4	0	6,256,271:48:0	
1837	1	289	07:01:04.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	6,256,271:48:0	
1838	1	289	07:01:10.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1475.93 +/- 6	2R3	4	0	6,256,271:58:0	
1839	1	289	07:01:12.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1476.05 +/- 6	2R3	4	0	6,256,271:60:1	
1840	1	289	07:01:14.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1476.51 +/- 6	2R3	4	0	6,256,271:63:0	
1841	1	289	07:01:26.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,271:81:0	
1842	1	289	07:01:26.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1479.32 +/- 6	2R3	4	0	6,256,271:81:0	
1843	1	289	07:01:27.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1479.38 +/- 6	2R3	4	0	6,256,271:82:8	
1844	1	289	07:02:32.800	165DJ4A	**7SCAN**	**NORM,41.435,19.1**	**Check S/P Position**	2R3	4	0	6,256,272:90:0	
1845	1	289	07:03:24.800	117DJ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	6,256,273:77:0	
1846	1	289	07:03:26.800	175DJ422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R3	4	0	6,256,273:80:0	
1847	1	289	07:03:26.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1479.38 +/- 6	2R3	4	0	6,256,273:80:0	
1848	1	289	07:03:32.800	165DJ4B	7VECT		Inert vect update UTC	2R3	4	0	6,256,273:89:0	
1849	1	289	07:03:33.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1479.38 +/- 6	2R3	4	0	6,256,273:90:0	
1850	1	289	07:03:34.133	117DJ105A106A4A	**7STRP**	**-0.019052,-0.001**	**Slew =,0.03**	2R3	4	0	6,256,274:00:0	
1851	1	289	07:03:34.800	175DJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	6,256,274:01:0	
1852	1	289	07:03:34.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1479.50 +/- 6	2R3	4	0	6,256,274:01:1	
1853	1	289	07:03:34.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1479.50 +/- 6	2R3	4	0	6,256,274:01:1	
1854	**1**	**289**	**07:03:40.866**	**32INREGION02-**	**NIMPBK**	**301EJ**	**IO REGIONAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1855	**1**	**289**	**07:03:40.866**	**32INREGION02-**	**NIMPBK**	**301DJ**	**IO REGIONAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1856	1	289	07:14:12.800	117DJ105A106A4B	**7STRP**	**0.018752,-0.006,**	**Slew =12.01**	2R3	4	0	6,256,284:48:0	
1857	1	289	07:14:24.133	117DJ105A106A4C	**7STRP**	**-0.019052,-0.001**	**Slew =,0.03**	2R3	4	0	6,256,284:65:0	
1858	1	289	07:16:10.133	488AK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	6,256,286:42:0	
1859	1	289	07:25:02.800	117DJ105A106A4D	**7STRP**	**0.018752,-0.006,**	**Slew =12.01**	2R3	4	0	6,256,295:22:0	
1860	1	289	07:25:14.133	117DJ105A106A4E	**7STRP**	**-0.019052,-0.001**	**Slew =,0.03**	2R3	4	0	6,256,295:39:0	
1861	1	289	07:35:52.800	117DJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	6,256,305:87:0	
1862	**1**	**289**	**07:35:55.466**	**32INREGION02-**	**DESELC**	**300DJ**	**IO REGIONAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1863	**1**	**289**	**07:35:55.466**	**32INREGION02-**	**DESELC**	**300EJ**	**IO REGIONAL OBSERVATION**	**2R3**	**4**	**0**	**: :**	
1864	1	289	07:35:57.466		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1934.79 +/- 6	2R3	4	0	6,256,306:03:0	
1865	1	289	07:35:57.466	175DJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,306:03:0	
1866	1	289	07:35:57.466	175DJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	6,256,306:03:0	
1867	1	289	07:35:58.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1934.85 +/- 6	2R3	4	0	6,256,306:04:8	
1868	**1**	**289**	**07:36:02.900**	**32INREGION02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	1	289	07:37:31.466	488AK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R3	4	0	6,256,307:53:0	
1870	1	289	08:01:11.466	165GV4A	7SCAN	NORM,323.917999,	Check S/P Position	2R3	4	0	6,256,330:90:0	
1871	1	289	08:02:12.800	176GV6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	6,256,332:00:0	
1872	1	289	08:03:04.133	117GV	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	6,256,332:77:0	
1873	1	289	08:03:13.466	117GV105A106A4A	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,333:00:0	
1874	1	289	08:03:35.466	117GV105A106A4B	7STRP	0.01123,-0.0009,	Slew =12.01	2R3	4	0	6,256,333:33:0	
1875	1	289	08:03:47.466	117GV105A106A4C	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,333:51:0	
1876	1	289	08:04:09.466	117GV105A106A4D	7STRP	0.01123,-0.0009,	Slew =12.01	2R3	4	0	6,256,333:84:0	
1877	1	289	08:04:21.466	117GV105A106A4E	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,334:11:0	
1878	1	289	08:04:43.466	117GV105A106A4F	7STRP	0.01123,-0.0009,	Slew =12.01	2R3	4	0	6,256,334:44:0	
1879	1	289	08:04:55.466	117GV105A106A4G	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,334:62:0	
1880	1	289	08:05:17.466	117GV105A106A4H	7STRP	0.01123,-0.0009,	Slew =12.01	2R3	4	0	6,256,335:04:0	
1881	1	289	08:05:29.466	117GV105A106A4I	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,335:22:0	
1882	1	289	08:05:51.466	117GV105A106A4J	7STRP	0.01123,-0.0009,	Slew =12.01	2R3	4	0	6,256,335:55:0	
1883	1	289	08:06:03.466	117GV105A106A4K	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,335:73:0	
1884	1	289	08:06:25.466	117GV105A106A4L	7STRP	0.01123,-0.0009,	Slew =12.01	2R3	4	0	6,256,336:15:0	
1885	1	289	08:06:37.466	117GV105A106A4M	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,336:33:0	
1886	1	289	08:06:59.466	117GV105A106A4N	7STRP	0.01123,-0.0009,	Slew =12.01	2R3	4	0	6,256,336:66:0	
1887	1	289	08:07:11.466	117GV105A106A4O	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,336:84:0	
1888	1	289	08:07:33.466	117GV105A106A4P	7STRP	0.01123,-0.0009,	Slew =12.01	2R3	4	0	6,256,337:26:0	
1889	1	289	08:07:45.466	117GV105A106A4Q	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,337:44:0	
1890	1	289	08:08:07.466	117GV105A106A4R	7STRP	0.01123,-0.0009,	Slew =12.01	2R3	4	0	6,256,337:77:0	
1891	1	289	08:08:19.466	117GV105A106A4S	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,338:04:0	
1892	1	289	08:08:41.466	117GV105A106A4T	7STRP	0.01123,-0.0009,	Slew =12.01	2R3	4	0	6,256,338:37:0	
1893	1	289	08:08:53.466	117GV105A106A4U	7STRP	-0.0094,-0.0002,	Slew =,0.55	2R3	4	0	6,256,338:55:0	
1894	1	289	08:09:15.466	117GV11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	6,256,338:88:0	
1895	1	289	08:09:47.466	176GV6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	6,256,339:45:0	
1896	1	289	08:09:49.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1934.85 +/- 6	2R3	4	0	6,256,339:48:0	
1897	1	289	08:09:49.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	6,256,339:48:0	
1898	1	289	08:09:56.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1934.85 +/- 6	2R3	4	0	6,256,339:58:0	
1899	1	289	08:09:57.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *1934.97 +/- 6	2R3	4	0	6,256,339:60:1	
1900	1	289	08:09:59.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1935.43 +/- 6	2R3	4	0	6,256,339:63:0	
1901	1	289	08:10:16.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1939.33 +/- 6	2R3	4	0	6,256,339:88:0	
1902	1	289	08:10:16.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,339:88:0	
1903	1	289	08:10:17.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1939.39 +/- 6	2R3	4	0	6,256,339:89:8	
1904	1	289	08:11:10.133	488AK6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	6,256,340:78:0	
1905	1	289	08:12:04.133	20WD4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R3	4	0	6,256,341:68:0	
1906	1	289	08:55:52.800	488AL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	6,256,385:07:0	
1907	1	289	09:30:00.133	480SB6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	2R3	4	0	6,256,418:75:0	
1908	1	289	09:36:40.133	480SB6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	2R3	4	0	6,256,425:38:0	
1909	1	289	13:08:18.800	20IG6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2R3	4	0	6,256,634:67:0	
1910	1	289	13:15:00.133	488AL6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R3	4	0	6,256,641:32:0	
1911	1	289	13:18:40.800	165II4A	7SCAN	NORM,41.539,18.2	Check S/P Position	2R3	4	0	6,256,644:90:0	
1912	1	289	13:22:34.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1939.39 +/- 6	2R3	4	0	6,256,648:76:0	
1913	1	289	13:22:34.133	175II422A6A	6DMSC	R806,1	DMS Control	2R3	4	0	6,256,648:76:0	
1914	1	289	13:22:40.800		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 1939.39 +/- 6	2R3	4	0	6,256,648:86:0	
1915	1	289	13:22:42.800	165II4B	7VECT		Inert vect update UTC	2R3	4	0	6,256,648:89:0	
1916	1	289	13:22:45.466	175II176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,256,649:02:0	
1917	1	289	13:22:46.066		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2005.39 +/- 6	2R3	4	0	6,256,649:02:9	
1918	1	289	13:22:46.066		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *2005.39 +/- 6	2R3	4	0	6,256,649:02:9	
1919	1	289	13:23:18.800		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *2810.94 +/- 6	2R3	4	0	6,256,649:52:0	
1920	1	289	13:23:18.800	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,649:52:0	
1921	1	289	13:23:21.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2822.44 +/- 6	2R3	4	0	6,256,649:56:1	
1922	1	289	13:25:04.133	20WE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R3	4	0	6,256,651:28:0	
1923	1	289	15:02:48.800	488AM6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2R3	4	0	6,256,747:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1924	1	289	15:06:00.133	20MD6A	6CKSUM	MAG,4040,46F0		2R3	4	0	6,256,751:12:0	
1925	1	289	15:06:56.800	480MA6A	6MROH	12,2282,0,A10	read from LLM1A12,2282,0,A1	2R3	4	0	6,256,752:06:0	
1926	1	289	15:06:56.800	480MA6	6MROH	12	read from LLM1A12,2282,0,A1	2R3	4	0	6,256,752:06:0	
1927	1	289	15:14:49.466	165GQ4A	7SCAN	NORM,69.264,25.2	Check S/P Position	2R3	4	0	6,256,759:78:0	
1928	1	289	15:18:00.133	176GQ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	6,256,763:00:0	
1929	1	289	15:18:51.466	117GQ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	6,256,763:77:0	
1930	1	289	15:19:00.800	117GQ105A106A4A	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,764:00:0	
1931	1	289	15:20:10.800	117GQ105A106A4B	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,765:14:0	
1932	1	289	15:20:22.800	117GQ105A106A4C	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,765:32:0	
1933	1	289	15:21:32.800	117GQ105A106A4D	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,766:46:0	
1934	1	289	15:21:44.800	117GQ105A106A4E	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,766:64:0	
1935	1	289	15:22:54.800	117GQ105A106A4F	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,767:78:0	
1936	1	289	15:23:06.800	117GQ105A106A4G	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,768:05:0	
1937	1	289	15:24:16.800	117GQ105A106A4H	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,769:19:0	
1938	1	289	15:24:28.800	117GQ105A106A4I	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,769:37:0	
1939	1	289	15:25:38.800	117GQ105A106A4J	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,770:51:0	
1940	1	289	15:25:50.800	117GQ105A106A4K	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,770:69:0	
1941	1	289	15:27:00.800	117GQ105A106A4L	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,771:83:0	
1942	1	289	15:27:12.800	117GQ105A106A4M	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,772:10:0	
1943	1	289	15:28:22.800	117GQ105A106A4N	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,773:24:0	
1944	1	289	15:28:34.800	117GQ105A106A4O	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,773:42:0	
1945	1	289	15:29:44.800	117GQ105A106A4P	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,774:56:0	
1946	1	289	15:29:56.800	117GQ105A106A4Q	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,774:74:0	
1947	1	289	15:30:34.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2822.44 +/- 6	2R3	4	0	6,256,775:40:0	
1948	1	289	15:30:34.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	6,256,775:40:0	
1949	1	289	15:30:41.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2822.44 +/- 6	2R3	4	0	6,256,775:50:0	
1950	1	289	15:30:42.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2822.56 +/- 6	2R3	4	0	6,256,775:52:1	
1951	1	289	15:31:00.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2826.61 +/- 6	2R3	4	0	6,256,775:78:0	
1952	1	289	15:31:06.800	117GQ105A106A4R	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,775:88:0	
1953	1	289	15:31:18.800	117GQ105A106A4S	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,776:15:0	
1954	1	289	15:31:22.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,776:21:0	
1955	1	289	15:31:22.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2831.92 +/- 6	2R3	4	0	6,256,776:21:0	
1956	1	289	15:31:24.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2831.98 +/- 6	2R3	4	0	6,256,776:22:8	
1957	1	289	15:32:28.800	117GQ105A106A4T	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,777:29:0	
1958	1	289	15:32:40.800	117GQ105A106A4U	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,777:47:0	
1959	1	289	15:33:50.800	117GQ105A106A4V	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,778:61:0	
1960	1	289	15:34:02.800	117GQ105A106A4W	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,778:79:0	
1961	1	289	15:35:12.800	117GQ105A106A4X	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,780:02:0	
1962	1	289	15:35:24.800	117GQ105A106A4Y	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,780:20:0	
1963	1	289	15:36:34.800	117GQ105A106A4Z	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,781:34:0	
1964	1	289	15:36:46.800	117GQ105A106A4AA	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,781:52:0	
1965	1	289	15:37:56.800	117GQ105A106A4AB	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,782:66:0	
1966	1	289	15:38:08.800	117GQ105A106A4AC	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,782:84:0	
1967	1	289	15:39:18.800	117GQ105A106A4AD	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,784:07:0	
1968	1	289	15:39:30.800	117GQ105A106A4AE	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,784:25:0	
1969	1	289	15:40:40.800	117GQ105A106A4AF	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,785:39:0	
1970	1	289	15:40:52.800	117GQ105A106A4AG	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,785:57:0	
1971	1	289	15:42:02.800	117GQ105A106A4AH	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,786:71:0	
1972	1	289	15:42:14.800	117GQ105A106A4AI	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,786:89:0	
1973	1	289	15:43:24.800	117GQ105A106A4AJ	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,788:12:0	
1974	1	289	15:43:36.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	6,256,788:30:0	
1975	1	289	15:43:36.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2831.98 +/- 6	2R3	4	0	6,256,788:30:0	
1976	1	289	15:43:36.800	117GQ105A106A4AK	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,788:30:0	
1977	1	289	15:43:43.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2831.98 +/- 6	2R3	4	0	6,256,788:40:0	
1978	1	289	15:43:44.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2832.10 +/- 6	2R3	4	0	6,256,788:42:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1979	1	289	15:44:02.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2836.15 +/- 6	2R3	4	0	6,256,788	68:0
1980	1	289	15:44:24.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,789	11:0
1981	1	289	15:44:24.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2841.46 +/- 6	2R3	4	0	6,256,789	11:0
1982	1	289	15:44:26.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2841.52 +/- 6	2R3	4	0	6,256,789	12:8
1983	1	289	15:44:46.800	117GQ105A106A4AL	7STRP	0.019002,0.0008,	Slew =12.01	2R3	4	0	6,256,789	44:0
1984	1	289	15:44:58.800	117GQ105A106A4AM	7STRP	-0.019002,-0.002	Slew =,0.29	2R3	4	0	6,256,789	62:0
1985	1	289	15:46:08.800	117GQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	6,256,790	76:0
1986	1	289	15:46:48.800	176GQ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	6,256,791	45:0
1987	1	289	15:46:50.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	6,256,791	48:0
1988	1	289	15:46:50.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2841.52 +/- 6	2R3	4	0	6,256,791	48:0
1989	1	289	15:46:57.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2841.52 +/- 6	2R3	4	0	6,256,791	58:0
1990	1	289	15:46:58.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2841.64 +/- 6	2R3	4	0	6,256,791	60:1
1991	1	289	15:47:00.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2842.09 +/- 6	2R3	4	0	6,256,791	63:0
1992	1	289	15:47:12.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,256,791	81:0
1993	1	289	15:47:12.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2844.91 +/- 6	2R3	4	0	6,256,791	81:0
1994	1	289	15:47:14.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2844.97 +/- 6	2R3	4	0	6,256,791	82:8
1995	1	289	15:50:04.133	20WF4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R3	4	0	6,256,794	65:0
1996	1	289	16:27:26.133	488AM6B	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2R3	4	0	6,256,831	61:0
1997	1	289	17:11:05.466	488AM6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2R3	4	0	6,256,874	77:0
1998	1	289	18:48:00.133	20TS4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R3	4	0	6,256,970	63:0
1999	1	289	18:48:50.133	20TS4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	6,256,971	47:0
2000	1	289	18:48:58.133	20TS4F	7STAR	1,946,200.6382,-	Star catalog update	2R3	4	0	6,256,971	59:0
2001	1	289	18:49:00.133	20TS4G	7STAR	2,770,213.3312,1	Star catalog update	2R3	4	0	6,256,971	62:0
2002	1	289	18:49:02.133	20TS4H	7STAR	3,112,10.2729,-1	Star catalog update	2R3	4	0	6,256,971	65:0
2003	1	289	18:49:04.133	20TS4I	7STAR	4,0,0.0,0.0	Star catalog update	2R3	4	0	6,256,971	68:0
2004	1	289	18:49:06.133	20TS4J	7STAR	5,0,0.0,0.0	Star catalog update	2R3	4	0	6,256,971	71:0
2005	1	289	18:49:08.133	20TS4K	7STAR	6,0,0.0,0.0	Star catalog update	2R3	4	0	6,256,971	74:0
2006	1	289	18:53:02.800	432OZ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	6,256,975	62:0
2007	1	289	18:53:03.466	432OZ6A	6RTSL1		R/T Select of DDS and	2R3	4	0	6,256,975	63:0
2008	1	289	19:07:15.466	20IH6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2R3	4	0	6,256,989	67:0
2009	1	289	19:18:38.133	165IM4A	7SCAN	NORM,53.854,21.5	Check S/P Position	2R3	4	0	6,257,000	90:0
2010	1	289	19:22:33.466	118IM	**SMOS**	GS		2R3	4	0	6,257,004	79:0
2011	1	289	19:22:40.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2844.97 +/- 6	2R3	4	0	6,257,004	89:0
2012	1	289	19:22:40.133	165IM4B	7VECT		Inert vect update UTC	2R3	4	0	6,257,004	89:0
2013	1	289	19:22:40.133	175IM422A6A	6DMSC	R806,1	DMS Control	2R3	4	0	6,257,004	89:0
2014	1	289	19:22:43.466	118IM110A111A4A	7STRP	-0.004,0.0,26,0,	Slew =,2.01	2R3	4	0	6,257,005	03:0
2015	1	289	19:22:46.800		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 2844.97 +/- 6	2R3	4	0	6,257,005	08:0
2016	1	289	19:22:51.466	175IM176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,257,005	15:0
2017	1	289	19:22:52.066		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *2910.97 +/- 6	2R3	4	0	6,257,005	15:9
2018	1	289	19:22:52.066		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2910.97 +/- 7	2R3	4	0	6,257,005	15:9
2019	1	289	19:22:52.133	118IM110A111A4B	7STRP	0.004,0.0,0,0,0,	Slew =,2.01	2R3	4	0	6,257,005	16:0
2020	1	289	19:22:55.466	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,257,005	21:0
2021	1	289	19:22:55.466		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *2994.64 +/- 7	2R3	4	0	6,257,005	21:0
2022	1	289	19:22:58.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3006.14 +/- 7	2R3	4	0	6,257,005	25:1
2023	1	289	19:23:00.800	118IM110A111A4C	7STRP	-0.004,0.0,26,0,	Slew =,2.01	2R3	4	0	6,257,005	29:0
2024	1	289	19:23:06.133	175JM422A6A	6DMSC	R806,1	DMS Control	2R3	4	0	6,257,005	37:0
2025	1	289	19:23:06.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3006.14 +/- 7	2R3	4	0	6,257,005	37:0
2026	1	289	19:23:09.466	118IM110A111A4D	7STRP	0.004,0.0,0,0,0,	Slew =,2.01	2R3	4	0	6,257,005	42:0
2027	1	289	19:23:12.800		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 3006.14 +/- 7	2R3	4	0	6,257,005	47:0
2028	1	289	19:23:17.466	175JM176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	6,257,005	54:0
2029	1	289	19:23:18.066		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *3072.14 +/- 7	2R3	4	0	6,257,005	54:9
2030	1	289	19:23:18.066		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 3072.14 +/- 7	2R3	4	0	6,257,005	54:9
2031	1	289	19:23:18.133	118IM110A111A4E	7STRP	-0.004,0.0,26,0,	Slew =,2.01	2R3	4	0	6,257,005	55:0
2032	1	289	19:23:21.466		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *3155.81 +/- 7	2R3	4	0	6,257,005	60:0
2033	1	289	19:23:21.466	175JM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,257,005	60:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2034	1	289	19:23:24.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3167.31 +/- 7	2R3	4	0	6,257,005:64:1
2035	1	289	19:23:26.800	118IM11A	**SMOS**	GE		2R3	4	0	6,257,005:68:0
2036	1	289	20:47:36.800	165IT4A	7SCAN	NORM,85.101999,2	Check S/P Position	2R3	4	0	6,257,088:90:0
2037	1	289	20:50:36.133	175IT422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	6,257,091:86:0
2038	1	289	20:50:36.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3167.31 +/- 7	2R3	4	0	6,257,091:86:0
2039	1	289	20:50:38.133	165IT4B	7VECT		Inert vect update UTC	2R3	4	0	6,257,091:89:0
2040	1	289	20:50:42.800		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3167.31 +/- 7	2R3	4	0	6,257,092:05:0
2041	1	289	20:50:46.133	175IT176A6A	6TMREC	**HIM**	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	6,257,092:10:0
2042	1	289	20:50:46.800		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3173.61 +/- 7	2R3	4	0	6,257,092:11:0
2043	1	289	20:50:46.800		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3173.61 +/- 7	2R3	4	0	6,257,092:11:0
2044	1	289	20:51:18.800	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	6,257,092:59:0
2045	1	289	20:51:18.800		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3286.11 +/- 7	2R3	4	0	6,257,092:59:0
2046	1	289	20:51:20.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3287.11 +/- 7	2R3	4	0	6,257,092:60:8
2047	**1**	**289**	**21:00:05.400**	**32NNGLOBAL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2048	**1**	**289**	**21:00:09.466**	**20DK5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,257,101:36:0**
2049	**1**	**289**	**21:00:12.800**	**20DK5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,257,101:41:0**
2050	**1**	**289**	**21:00:16.133**	**20DK6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,257,101:46:0**
2051	**1**	**289**	**21:00:26.133**	**20DK6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,257,101:61:0**
2052	**1**	**289**	**21:00:36.133**	**20DK5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,257,101:76:0**
2053	**1**	**289**	**21:00:39.466**	**20DK5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,257,101:81:0**
2054	**1**	**289**	**21:02:40.800**	**20DK4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,257,103:81:0**
2055	**1**	**289**	**21:03:05.566**	**32NNGLOBAL01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
2056	**1**	**289**	**21:03:43.400**	**32JNGLOBAL01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
2057	**1**	**289**	**21:03:43.466**	**127DK4A**	**37IOP**	**7,0**	**Fixed Map, Grating Start Position =00**	**2R7**	**4**	**0**	**6,257,104:84:0**
2058	1	289	21:03:43.466	127DK	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	0	6,257,104:84:0
2059	**1**	**289**	**21:03:44.133**	**127DK4B**	**37ETB**	**07,C7,18,3C,D7,0**	**Loads wavelength edit table**	**2R7**	**4**	**0**	**6,257,104:85:0**
2060	1	289	21:03:52.133	127DK11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	0	6,257,105:06:0
2061	1	289	21:08:50.800	165DK4A	**7SCAN**	**NORM,77.304999,2**	**Check S/P Position**	2R7	4	0	6,257,109:90:0
2062	1	289	21:12:44.800	117DK	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	0	6,257,113:77:0
2063	1	289	21:12:54.133	117DK105A106A4A	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,114:00:0
2064	1	289	21:13:26.133	175DK422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R7	4	0	6,257,114:48:0
2065	1	289	21:13:26.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3287.11 +/- 7	2R7	4	0	6,257,114:48:0
2066	1	289	21:13:32.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3287.11 +/- 7	2R7	4	0	6,257,114:58:0
2067	1	289	21:13:34.133	175DK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	0	6,257,114:60:0
2068	1	289	21:13:34.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3287.23 +/- 7	2R7	4	0	6,257,114:60:1
2069	1	289	21:13:34.200		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3287.23 +/- 7	2R7	4	0	6,257,114:60:1
2070	**1**	**289**	**21:13:34.800**	**32JNGLOBAL01-**	**NIMPBK**	**301EK**	**JUPITER GLOBAL OBSERVATION**	**2R7**	**4**	**0**	**: :**
2071	1	289	21:15:00.133	480SC6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	2R7	4	0	6,257,116:07:0
2072	1	289	21:15:41.466	117DK105A106A4B	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,116:69:0
2073	1	289	21:16:02.133	117DK105A106A4C	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,117:09:0
2074	1	289	21:16:20.133	480SC6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	2R7	4	0	6,257,117:36:0
2075	1	289	21:18:49.466	117DK105A106A4D	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,119:78:0
2076	1	289	21:19:10.133	117DK105A106A4E	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,120:18:0
2077	1	289	21:21:57.466	117DK105A106A4F	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,122:87:0
2078	1	289	21:22:18.133	117DK105A106A4G	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,123:27:0
2079	1	289	21:25:05.466	117DK105A106A4H	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,126:05:0
2080	1	289	21:25:26.133	117DK105A106A4I	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,126:36:0
2081	1	289	21:28:13.466	117DK105A106A4J	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,129:14:0
2082	**1**	**289**	**21:28:22.133**	**32JNGLOBAL01-**	**DESELC**	**300EK**	**JUPITER GLOBAL OBSERVATION**	**2R7**	**4**	**0**	**: :**
2083	**1**	**289**	**21:28:28.133**	**32JNGLOBAL01-**	**NIMPBK**	**301DK**	**JUPITER GLOBAL OBSERVATION**	**2R7**	**4**	**0**	**: :**
2084	1	289	21:28:34.133	117DK105A106A4K	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,129:45:0
2085	1	289	21:31:21.466	117DK105A106A4L	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,132:23:0
2086	1	289	21:31:42.133	117DK105A106A4M	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,132:54:0
2087	1	289	21:34:29.466	117DK105A106A4N	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,135:32:0
2088	1	289	21:34:50.133	117DK105A106A4O	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,135:63:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2089	1	289	21:37:37.466	117DK105A106A4P	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,138:41:0	
2090	1	289	21:37:58.133	117DK105A106A4Q	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,138:72:0	
2091	1	289	21:40:45.466	117DK105A106A4R	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,141:50:0	
2092	1	289	21:41:06.133	117DK105A106A4S	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,141:81:0	
2093	1	289	21:43:53.466	117DK105A106A4T	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,144:59:0	
2094	1	289	21:44:14.133	117DK105A106A4U	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,144:90:0	
2095	1	289	21:47:01.466	117DK105A106A4V	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,147:68:0	
2096	1	289	21:47:22.133	117DK105A106A4W	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,148:08:0	
2097	1	289	21:50:09.466	117DK105A106A4X	**7STRP**	**-0.117435,-0.031**	**Slew =12.01**	2R7	4	0	6,257,150:77:0	
2098	1	289	21:50:30.133	117DK105A106A4Y	**7STRP**	**0.120072,0.02302**	**Slew =,0.76**	2R7	4	0	6,257,151:17:0	
2099	**1**	**289**	**21:52:46.800**	**32JNGLOBAL01-**	**DESELC**	**300DK**	**JUPITER GLOBAL OBSERVATION**	**2R7**	**4**	**0**	**: :**	
2100	1	289	21:52:48.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3839.09 +/- 7	2R7	4	0	6,257,153:43:0	
2101	1	289	21:52:48.800	175DK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	0	6,257,153:43:0	
2102	1	289	21:52:48.800	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	0	6,257,153:43:0	
2103	1	289	21:52:50.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3839.15 +/- 7	2R7	4	0	6,257,153:44:8	
2104	1	289	21:53:17.466	117DK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	0	6,257,153:86:0	
2105	**1**	**289**	**21:53:17.566**	**32JNGLOBAL01-**		**-----STOP-------**		**2R7**	**4**	**0**	**: :**	
2106	1	289	22:26:32.800	488AN6A	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	2R7	4	0	6,257,186:76:0	
2107	1	289	22:50:04.066	20WG4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R7	4	0	6,257,210:09:0	
2108	1	289	23:00:40.733	488AN6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2R7	4	0	6,257,220:54:0	
2109	1	289	23:47:22.066	488AN6C	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2R7	4	0	6,257,266:70:0	
2110	1	290	00:31:01.400	488AN6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2R7	4	0	6,257,309:86:0	
2111	1	290	01:00:00.066	481UA4A	7VECT		Inert vect update UTC	2R7	4	0	6,257,338:55:0	
2112	**1**	**290**	**02:42:30.000**	**32JNGLOBAL02-**		**-----START------**		**2R7**	**4**	**0**	**: :**	
2113	1	290	02:42:30.733	165DL4A	**7SCAN**	**NORM,85.658,22.8**	**Check S/P Position**	2R7	4	0	6,257,439:90:0	
2114	**1**	**290**	**02:43:52.000**	**32NNGLOBAL02-**		**-----START------**		**2R7**	**4**	**0**	**: :**	
2115	**1**	**290**	**02:43:56.066**	**20DL5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,257,441:36:0**	
2116	**1**	**290**	**02:43:59.400**	**20DL5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,257,441:41:0**	
2117	**1**	**290**	**02:44:02.733**	**20DL6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,257,441:46:0**	
2118	**1**	**290**	**02:44:12.733**	**20DL6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,257,441:61:0**	
2119	**1**	**290**	**02:44:22.733**	**20DL5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,257,441:76:0**	
2120	**1**	**290**	**02:44:26.066**	**20DL5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,257,441:81:0**	
2121	**1**	**290**	**02:45:26.733**	**20DL4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,257,442:81:0**	
2122	1	290	02:46:24.733	117DL	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	6,257,443:77:0	
2123	1	290	02:46:29.400	127DL	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	6,257,443:84:0	
2124	**1**	**290**	**02:46:29.400**	**127DL4A**	**37IOP**	**7,0**	**Fixed Map, Grating Start Position =00**	**2R7**	**4**	**0**	**6,257,443:84:0**	
2125	**1**	**290**	**02:46:30.066**	**127DL4B**	**37ETB**	**07,C7,18,3C,D7,0**	**Loads wavelength edit table**	**2R7**	**4**	**0**	**6,257,443:85:0**	
2126	1	290	02:46:34.066	117DL105A106A4A	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,444:00:0	
2127	1	290	02:46:38.066	127DL11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	0	6,257,444:06:0	
2128	**1**	**290**	**02:46:52.166**	**32NNGLOBAL02-**		**-----STOP-------**		**2R7**	**4**	**0**	**: :**	
2129	1	290	02:47:00.066	175DL422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R7	4	0	6,257,444:39:0	
2130	1	290	02:47:00.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3839.15 +/- 7	2R7	4	0	6,257,444:39:0	
2131	1	290	02:47:06.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3839.15 +/- 7	2R7	4	0	6,257,444:49:0	
2132	1	290	02:47:08.066	175DL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	0	6,257,444:51:0	
2133	1	290	02:47:08.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3839.27 +/- 7	2R7	4	0	6,257,444:51:1	
2134	1	290	02:47:08.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3839.27 +/- 7	2R7	4	0	6,257,444:51:1	
2135	**1**	**290**	**02:47:08.733**	**32JNGLOBAL02-**	**NIMPBK**	**301DL**	**JUPITER GLOBAL OBSERVATION**	**2R7**	**4**	**0**	**: :**	
2136	1	290	02:49:21.400	117DL105A106A4B	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,446:69:0	
2137	1	290	02:49:42.733	117DL105A106A4C	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,447:10:0	
2138	1	290	02:52:30.066	117DL105A106A4D	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,449:79:0	
2139	1	290	02:52:51.400	117DL105A106A4E	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,450:20:0	
2140	1	290	02:55:38.733	117DL105A106A4F	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,452:89:0	
2141	1	290	02:56:00.066	117DL105A106A4G	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,453:30:0	
2142	1	290	02:58:47.400	117DL105A106A4H	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,456:08:0	
2143	1	290	02:59:08.733	117DL105A106A4I	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,456:40:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2144	1	290	03:01:56.066	117DL105A106A4J	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,459:18:0	
2145	1	290	03:02:17.400	117DL105A106A4K	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,459:50:0	
2146	1	290	03:05:04.733	117DL105A106A4L	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,462:28:0	
2147	1	290	03:05:26.066	117DL105A106A4M	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,462:60:0	
2148	1	290	03:08:13.400	117DL105A106A4N	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,465:38:0	
2149	**1**	**290**	**03:08:17.400**	**32JNGLOBAL02-**	**DESELC**	**300DL**	**JUPITER GLOBAL OBSERVATION**	**2R7**	**4**	**0**	**: :**	
2150	**1**	**290**	**03:08:28.733**	**32JNGLOBAL02-**	**NIMPBK**	**301EL**	**JUPITER GLOBAL OBSERVATION**	**2R7**	**4**	**0**	**: :**	
2151	1	290	03:08:34.733	117DL105A106A4O	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,465:70:0	
2152	1	290	03:11:22.066	117DL105A106A4P	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,468:48:0	
2153	1	290	03:11:43.400	117DL105A106A4Q	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,468:80:0	
2154	1	290	03:14:30.733	117DL105A106A4R	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,471:58:0	
2155	1	290	03:14:52.066	117DL105A106A4S	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,471:90:0	
2156	1	290	03:17:39.400	117DL105A106A4T	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,474:68:0	
2157	1	290	03:18:00.733	117DL105A106A4U	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,475:09:0	
2158	1	290	03:20:48.066	117DL105A106A4V	**7STRP**	**-0.106399,0.0137**	**Slew =12.01**	2R7	4	0	6,257,477:78:0	
2159	1	290	03:21:09.400	117DL105A106A4W	**7STRP**	**0.107916,-0.0060**	**Slew =,0.76**	2R7	4	0	6,257,478:19:0	
2160	**1**	**290**	**03:22:46.066**	**32JNGLOBAL02-**	**DESELC**	**300EL**	**JUPITER GLOBAL OBSERVATION**	**2R7**	**4**	**0**	**: :**	
2161	1	290	03:22:48.066	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	0	6,257,479:76:0	
2162	1	290	03:22:48.066	175DL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	0	6,257,479:76:0	
2163	1	290	03:22:48.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4340.82 +/- 7	2R7	4	0	6,257,479:76:0	
2164	1	290	03:22:49.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4340.88 +/- 7	2R7	4	0	6,257,479:77:8	
2165	1	290	03:23:56.733	117DL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	0	6,257,480:88:0	
2166	**1**	**290**	**03:23:56.833**	**32JNGLOBAL02-**		**-----STOP-------**		**2R7**	**4**	**0**	**: :**	
2167	1	290	03:25:04.066	20WH4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R7	4	0	6,257,482:07:0	
2168	1	290	03:35:04.066	20UP4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R7	4	0	6,257,491:88:0	
2169	1	290	03:35:54.066	20UP4B	7SLEW	DIS,POS,0.0	Stator movement	2R7	4	0	6,257,492:72:0	
2170	1	290	04:07:00.066	20RM4I	**7MODE**	**INT**	AACS INERTIAL MODE	2R7	4	0	6,257,523:50:0	
2171	1	290	04:22:00.066	20RM4K	7SLEW	INIT,POS,17.45	Stator movement	2R7	4	0	6,257,538:35:0	
2172	1	290	04:34:00.066	20RM4L	7SLEW	DIS,POS,0.0	Stator movement	2R7	4	0	6,257,550:23:0	
2173	1	290	04:41:00.066	20RM4M	7SLEW	INIT,NEG,17.45	Stator movement	2R7	4	0	6,257,557:16:0	
2174	1	290	04:53:00.066	20RM4N	7SLEW	DIS,POS,0.0	Stator movement	2R7	4	0	6,257,569:04:0	
2175	1	290	05:05:00.066	20RM4AH	**7MODE**	**CRU**	AACS CRUISE MODE	2R7	4	0	6,257,580:83:0	
2176	1	290	07:42:19.400	488AO6A	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2R7	4	0	6,257,736:46:0	
2177	1	290	08:25:58.733	488AO6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2R7	4	0	6,257,779:62:0	
2178	1	290	09:04:24.733	488AO6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R7	4	0	6,257,817:63:0	
2179	1	290	09:10:56.733	432OV431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R7	4	0	6,257,824:14:0	
2180	1	290	09:10:57.400	432OV6A	6RTSL1		R/T Select of DDS and	2R7	4	0	6,257,824:15:0	
2181	1	290	13:10:00.066	488AO6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R7	4	0	6,258,060:53:0	
2182	1	290	13:52:45.400	488AP6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R7	4	0	6,258,102:79:0	
2183	1	290	13:56:40.733	488AP6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R7	4	0	6,258,106:68:0	
2184	1	290	16:04:20.066	192GS4A	**7CONE**	**9.0,0.0**	Check S/P Position	2R7	4	0	6,258,233:00:0	
2185	1	290	16:11:24.733	176GS6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R7	4	0	6,258,240:00:0	
2186	1	290	16:13:39.400	176GS6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	0	6,258,242:20:0	
2187	1	290	16:13:41.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4340.88 +/- 7	2R7	4	0	6,258,242:23:0	
2188	1	290	16:13:41.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	0	6,258,242:23:0	
2189	1	290	16:13:48.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4340.88 +/- 7	2R7	4	0	6,258,242:33:0	
2190	1	290	16:13:49.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4341.00 +/- 7	2R7	4	0	6,258,242:35:1	
2191	1	290	16:13:51.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4341.45 +/- 7	2R7	4	0	6,258,242:38:0	
2192	1	290	16:14:02.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	0	6,258,242:55:0	
2193	1	290	16:14:02.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4344.10 +/- 7	2R7	4	0	6,258,242:55:0	
2194	1	290	16:14:03.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4344.16 +/- 7	2R7	4	0	6,258,242:56:8	
2195	1	290	16:16:28.066	192GS4B	**7CONE**	**9.0,90.0**	Check S/P Position	2R7	4	0	6,258,245:00:0	
2196	1	290	16:25:04.066	20WI4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R7	4	0	6,258,253:46:0	
2197	1	290	20:59:34.733	411JA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	0	6,258,525:00:0	
2198	1	290	20:59:34.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4344.16 +/- 7	2R7	4	0	6,258,525:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2199	1	290	20:59:41.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4344.16 +/- 7	2R7	4	0	6,258,525:10:0
2200	1	290	20:59:42.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4344.28 +/- 7	2R7	4	0	6,258,525:12:1
2201	1	290	20:59:42.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4344.28 +/- 7	2R7	4	0	6,258,525:12:1
2202	1	290	20:59:44.733	411JA6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R7	4	0	6,258,525:15:0
2203	1	290	21:01:46.066	411JA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	0	6,258,527:15:0
2204	1	290	21:01:46.733	411JA6D	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	0	6,258,527:16:0
2205	1	290	21:01:46.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4373.33 +/- 7	2R7	4	0	6,258,527:16:0
2206	1	290	21:01:47.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4373.39 +/- 7	2R7	4	0	6,258,527:17:8
2207	**1**	**290**	**21:28:28.700**	**32NNRELOAD01-**		**-----START------**		**2R7**	**4**	**0**	**: :**
2208	**1**	**290**	**21:28:34.066**	**20FN5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**6,258,553:61:0**
2209	**1**	**290**	**21:28:37.400**	**20FN5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**6,258,553:66:0**
2210	**1**	**290**	**21:28:40.733**	**20FN6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**6,258,553:71:0**
2211	**1**	**290**	**21:28:50.733**	**20FN6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**6,258,553:86:0**
2212	**1**	**290**	**21:29:04.733**	**20FN5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**6,258,554:16:0**
2213	**1**	**290**	**21:29:08.066**	**20FN5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,258,554:21:0**
2214	**1**	**290**	**21:29:48.066**	**20FN4A**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R0**	**4**	**0**	**6,258,554:81:0**
2215	**1**	**290**	**21:30:50.733**	**127FN4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**6,258,555:84:0**
2216	1	290	21:30:50.733	127FN	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	6,258,555:84:0
2217	**1**	**290**	**21:30:51.400**	**127FN4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**6,258,555:85:0**
2218	1	290	21:30:59.400	127FN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	6,258,556:06:0
2219	**1**	**290**	**21:31:28.833**	**32NNRELOAD01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2220	**1**	**290**	**21:35:54.000**	**32NNCHOPOF01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2221	1	290	21:35:54.066	127FO	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	6,258,560:84:0
2222	**1**	**290**	**21:35:54.066**	**127FO4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**2R0**	**4**	**0**	**6,258,560:84:0**
2223	**1**	**290**	**21:35:54.733**	**127FO4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**2R0**	**4**	**0**	**6,258,560:85:0**
2224	1	290	21:36:02.733	127FO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R0	4	0	6,258,561:06:0
2225	1	290	21:38:56.066	125FN	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	6,258,563:84:0
2226	**1**	**290**	**21:38:56.066**	**125FN4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**6,258,563:84:0**
2227	**1**	**290**	**21:39:56.733**	**125FN4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O0**	**4**	**0**	**6,258,564:84:0**
2228	1	290	21:40:57.400	125FN11A	NIMSINIT	GE	##### GROUP END INIT	2O0	4	0	6,258,565:84:0
2229	**1**	**290**	**21:40:57.400**	**125FN4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2O0**	**4**	**0**	**6,258,565:84:0**
2230	**1**	**290**	**21:40:57.500**	**32NNCHOPOF01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
2231	1	291	03:55:08.733	411JB6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,258,936:00:0
2232	1	291	03:55:08.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4373.39 +/- 7	2O0	4	0	6,258,936:00:0
2233	1	291	03:55:15.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4373.39 +/- 7	2O0	4	0	6,258,936:10:0
2234	1	291	03:55:16.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4373.51 +/- 7	2O0	4	0	6,258,936:12:1
2235	1	291	03:55:16.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4373.51 +/- 7	2O0	4	0	6,258,936:12:1
2236	1	291	03:55:18.733	411JB6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,258,936:15:0
2237	1	291	03:57:20.066	411JB6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,258,938:15:0
2238	1	291	03:57:20.733	411JB6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,258,938:16:0
2239	1	291	03:57:20.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4402.56 +/- 7	2O0	4	0	6,258,938:16:0
2240	1	291	03:57:21.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4402.62 +/- 7	2O0	4	0	6,258,938:17:8
2241	1	291	04:40:00.066	488AQ6A	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	2O0	4	0	6,258,980:33:0
2242	1	291	06:01:12.733	488AQ6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	2O0	4	0	6,259,060:62:0
2243	1	291	06:11:36.733	488AQ6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,259,070:88:0
2244	1	291	07:11:20.733	488AQ6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,259,130:04:0
2245	1	291	09:00:00.000	480SD6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	2O0	4	0	6,259,237:46:0
2246	1	291	09:01:20.000	480SD6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	2O0	4	0	6,259,238:75:0
2247	1	291	13:53:54.000	488AR6A	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,259,528:16:0
2248	1	291	13:58:48.666	488AR6B	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,259,533:03:0
2249	1	291	14:54:55.333	488AR6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,259,588:48:0
2250	1	291	15:26:16.666	488AR6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,259,619:49:0
2251	1	291	16:02:52.666	20II6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,259,655:67:0
2252	1	291	16:14:45.333	165IO4A	7SCAN	NORM,113.752,23.	Check S/P Position	2O0	4	0	6,259,667:44:0
2253	1	291	16:18:42.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4402.62 +/- 7	2O0	4	0	6,259,671:35:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2254	1	291	16:18:42.000	175IO422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,259,671:35:0	
2255	1	291	16:18:47.333	165IO4B	7VECT		Inert vect update UTC	2O0	4	0	6,259,671:43:0	
2256	1	291	16:18:48.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4402.62 +/- 7	2O0	4	0	6,259,671:45:0	
2257	1	291	16:18:52.000	175IO176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,259,671:50:0	
2258	1	291	16:18:52.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4408.92 +/- 7	2O0	4	0	6,259,671:51:0	
2259	1	291	16:18:52.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4408.92 +/- 7	2O0	4	0	6,259,671:51:0	
2260	1	291	16:20:44.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4802.67 +/- 7	2O0	4	0	6,259,673:37:0	
2261	1	291	16:20:44.666	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,259,673:37:0	
2262	1	291	16:20:45.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4803.67 +/- 7	2O0	4	0	6,259,673:38:8	
2263	1	291	16:23:06.000	20IJ6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,259,675:67:0	
2264	1	291	16:34:58.666	165IP4A	7SCAN	NORM,113.855,23.	Check S/P Position	2O0	4	0	6,259,687:44:0	
2265	1	291	16:38:36.000	118IP	**SMOS**	GS		2O0	4	0	6,259,691:06:0	
2266	1	291	16:38:55.333	175IP422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,259,691:35:0	
2267	1	291	16:38:55.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4803.67 +/- 7	2O0	4	0	6,259,691:35:0	
2268	1	291	16:39:00.666	165IP4B	7VECT		Inert vect update UTC	2O0	4	0	6,259,691:43:0	
2269	1	291	16:39:02.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4803.67 +/- 7	2O0	4	0	6,259,691:45:0	
2270	1	291	16:39:05.333	175IP176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,259,691:50:0	
2271	1	291	16:39:06.000	118IP110A111A4A	7STRP	0.0061,-0.00104,	Slew =2,3.1	2O0	4	0	6,259,691:51:0	
2272	1	291	16:39:06.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4809.97 +/- 7	2O0	4	0	6,259,691:51:0	
2273	1	291	16:39:06.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4809.97 +/- 7	2O0	4	0	6,259,691:51:0	
2274	1	291	16:39:36.666	118IP11A	**SMOS**	GE		2O0	4	0	6,259,692:06:0	
2275	1	291	16:40:03.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5011.53 +/- 7	2O0	4	0	6,259,692:46:0	
2276	1	291	16:40:03.333	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,259,692:46:0	
2277	1	291	16:40:04.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5012.53 +/- 7	2O0	4	0	6,259,692:47:8	
2278	1	291	17:23:46.000	20IK6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,259,735:67:0	
2279	1	291	17:38:40.666	165IQ4A	7SCAN	NORM,113.278999,	Check S/P Position	2O0	4	0	6,259,750:44:0	
2280	1	291	17:39:16.000	118IQ	**SMOS**	GS		2O0	4	0	6,259,751:06:0	
2281	1	291	17:39:35.333	175IQ422A6A	6DMSC	R115,1	DMS Control	2O0	4	0	6,259,751:35:0	
2282	1	291	17:39:35.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5012.53 +/- 7	2O0	4	0	6,259,751:35:0	
2283	1	291	17:39:40.666	165IQ4B	7VECT		Inert vect update UTC	2O0	4	0	6,259,751:43:0	
2284	1	291	17:39:42.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5012.53 +/- 7	2O0	4	0	6,259,751:45:0	
2285	1	291	17:39:45.333	175IQ176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,259,751:50:0	
2286	1	291	17:39:46.000	118IQ110A111A4A	7STRP	0.0061,-0.00114,	Slew =2,3.3	2O0	4	0	6,259,751:51:0	
2287	1	291	17:39:46.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5018.83 +/- 7	2O0	4	0	6,259,751:51:0	
2288	1	291	17:39:46.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5018.83 +/- 7	2O0	4	0	6,259,751:51:0	
2289	1	291	17:40:16.666	118IQ110A111A4B	7STRP	-0.0061,0.00114,	Slew =0,3.3	2O0	4	0	6,259,752:06:0	
2290	1	291	17:40:47.333	118IQ110A111A4C	7STRP	0.0061,-0.00114,	Slew =2,3.3	2O0	4	0	6,259,752:52:0	
2291	1	291	17:41:18.000	118IQ110A111A4D	7STRP	-0.0061,0.00114,	Slew =0,3.3	2O0	4	0	6,259,753:07:0	
2292	1	291	17:41:48.666	118IQ110A111A4E	7STRP	0.0061,-0.00114,	Slew =2,3.3	2O0	4	0	6,259,753:53:0	
2293	1	291	17:42:19.333	118IQ110A111A4F	7STRP	-0.0061,0.00114,	Slew =0,3.3	2O0	4	0	6,259,754:08:0	
2294	1	291	17:42:50.000	118IQ110A111A4G	7STRP	0.0061,-0.00114,	Slew =2,3.3	2O0	4	0	6,259,754:54:0	
2295	1	291	17:43:20.666	118IQ11A	**SMOS**	GE		2O0	4	0	6,259,755:09:0	
2296	1	291	17:43:45.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5860.24 +/- 7	2O0	4	0	6,259,755:46:0	
2297	1	291	17:43:45.333	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,259,755:46:0	
2298	1	291	17:43:46.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5861.24 +/- 7	2O0	4	0	6,259,755:47:8	
2299	1	291	18:09:32.000	465KF6A	6DMSC	RDY,2	DMS Control Tape stop	2O0	4	0	6,259,781:00:0	
2300	1	291	18:09:32.000		DMS:	: READY	RDY, TRACK *2, *REV, TIC 5861.24 +/- 7	2O0	4	0	6,259,781:00:0	
2301	1	291	18:24:26.000	20IL6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,259,795:67:0	
2302	1	291	18:39:20.666	165IR4A	7SCAN	NORM,112.551,23.	Check S/P Position	2O0	4	0	6,259,810:44:0	
2303	1	291	18:39:56.000	118IR	**SMOS**	GS		2O0	4	0	6,259,811:06:0	
2304	1	291	18:40:14.000	175IR422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	6,259,811:33:0	
2305	1	291	18:40:14.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5861.24 +/- 7	2O0	4	0	6,259,811:33:0	
2306	1	291	18:40:15.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5861.36 +/- 7	2O0	4	0	6,259,811:35:1	
2307	1	291	18:40:20.666	165IR4B	7VECT		Inert vect update UTC	2O0	4	0	6,259,811:43:0	
2308	1	291	18:40:20.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5862.59 +/- 7	2O0	4	0	6,259,811:43:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2309	1	291	18:40:21.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5862.65 +/- 7	2O0	4	0	6,259,811:44:8	
2310	1	291	18:40:25.333	175IR176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,259,811:50:0	
2311	1	291	18:40:25.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5856.35 +/- 7	2O0	4	0	6,259,811:50:8	
2312	1	291	18:40:25.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5856.35 +/- 7	2O0	4	0	6,259,811:50:8	
2313	1	291	18:40:26.000	118IR110A111A4A	7STRP	0.0061,-0.00117,	Slew =2,3.6	2O0	4	0	6,259,811:51:0	
2314	1	291	18:40:56.666	118IR110A111A4B	7STRP	-0.0061,0.00117,	Slew =0,3.6	2O0	4	0	6,259,812:06:0	
2315	1	291	18:41:27.333	118IR110A111A4C	7STRP	0.0061,-0.00117,	Slew =2,3.6	2O0	4	0	6,259,812:52:0	
2316	1	291	18:41:58.000	118IR110A111A4D	7STRP	-0.0061,0.00117,	Slew =0,3.6	2O0	4	0	6,259,813:07:0	
2317	1	291	18:42:28.666	118IR110A111A4E	7STRP	0.0061,-0.00117,	Slew =2,3.6	2O0	4	0	6,259,813:53:0	
2318	1	291	18:42:59.333	118IR11A	**SMOS**	GE		2O0	4	0	6,259,814:08:0	
2319	1	291	18:43:24.666		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5227.76 +/- 7	2O0	4	0	6,259,814:46:0	
2320	1	291	18:43:24.666	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,259,814:46:0	
2321	1	291	18:43:25.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5226.76 +/- 7	2O0	4	0	6,259,814:47:8	
2322	1	291	18:45:04.000	20WJ4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,259,816:13:0	
2323	1	291	21:58:48.666	488AS6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,260,007:69:0	
2324	1	291	22:22:16.666	488AS6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	2O0	4	0	6,260,030:88:0	
2325	1	291	22:45:44.666	488AS6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,260,054:16:0	
2326	1	291	23:47:02.000	488AS6D	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,260,114:72:0	
2327	1	292	00:20:41.333	488AS6E	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,260,148:07:0	
2328	1	292	02:45:56.666	20IM6B	6MCOPY	HLM1A,E700,B1A1A	HLM1A,E700,B1A1A,5D2F,5DC	2O0	4	0	6,260,291:67:0	
2329	1	292	02:56:48.666	165IS4A	7SCAN	NORM,120.554,21.	Check S/P Position	2O0	4	0	6,260,302:44:0	
2330	1	292	03:00:50.666	165IS4B	7VECT		Inert vect update UTC	2O0	4	0	6,260,306:43:0	
2331	1	292	03:01:14.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5226.76 +/- 7	2O0	4	0	6,260,306:78:0	
2332	1	292	03:01:14.000	175IS422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	6,260,306:78:0	
2333	1	292	03:01:15.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5226.88 +/- 7	2O0	4	0	6,260,306:80:1	
2334	1	292	03:01:16.666	118IS	**SMOS**	GS		2O0	4	0	6,260,306:82:0	
2335	1	292	03:01:20.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5228.11 +/- 7	2O0	4	0	6,260,306:88:0	
2336	1	292	03:01:21.866		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5228.17 +/- 7	2O0	4	0	6,260,306:89:8	
2337	1	292	03:01:25.333	175IS176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,260,307:04:0	
2338	1	292	03:01:25.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5221.87 +/- 7	2O0	4	0	6,260,307:04:8	
2339	1	292	03:01:25.866		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5221.87 +/- 8	2O0	4	0	6,260,307:04:8	
2340	1	292	03:01:26.666	118IS110A111A4A	7STRP	0.0065,-0.0005,1	Slew =,3.01	2O0	4	0	6,260,307:06:0	
2341	1	292	03:01:53.333	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,260,307:46:0	
2342	1	292	03:01:53.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5125.31 +/- 8	2O0	4	0	6,260,307:46:0	
2343	1	292	03:01:54.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5124.31 +/- 8	2O0	4	0	6,260,307:47:8	
2344	1	292	03:02:27.333	118IS11A	**SMOS**	GE		2O0	4	0	6,260,308:06:0	
2345	1	292	03:03:15.333	175JS422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2O0	4	0	6,260,308:78:0	
2346	1	292	03:03:15.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5124.31 +/- 8	2O0	4	0	6,260,308:78:0	
2347	1	292	03:03:16.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5124.43 +/- 8	2O0	4	0	6,260,308:80:1	
2348	1	292	03:03:22.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5125.66 +/- 8	2O0	4	0	6,260,308:88:0	
2349	1	292	03:03:23.200		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5125.72 +/- 8	2O0	4	0	6,260,308:89:8	
2350	1	292	03:03:26.666	175JS176A6A	6TMREC	**HMA**	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2O0	4	0	6,260,309:04:0	
2351	1	292	03:03:27.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5119.42 +/- 8	2O0	4	0	6,260,309:04:8	
2352	1	292	03:03:27.200		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5119.42 +/- 8	2O0	4	0	6,260,309:04:8	
2353	1	292	03:03:55.333	175JS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,260,309:47:0	
2354	1	292	03:03:55.333		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5020.52 +/- 8	2O0	4	0	6,260,309:47:0	
2355	1	292	03:03:56.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5019.52 +/- 8	2O0	4	0	6,260,309:48:8	
2356	1	292	03:12:34.000	20KB4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,260,318:06:0	
2357	1	292	04:45:00.000	488AT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,260,409:44:0	
2358	1	292	05:31:22.000	488AT6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,260,455:31:0	
2359	1	292	12:17:29.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5019.52 +/- 8	2O0	4	0	6,260,857:00:0	
2360	1	292	12:17:29.333	411JC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,260,857:00:0	
2361	1	292	12:17:30.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5019.64 +/- 8	2O0	4	0	6,260,857:02:1	
2362	1	292	12:17:36.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5020.87 +/- 8	2O0	4	0	6,260,857:10:0	
2363	1	292	12:17:37.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5020.93 +/- 8	2O0	4	0	6,260,857:11:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2364	1	292	12:17:38.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5020.81 +/- 8	2O0	4	0	6,260,857:13:9	
2365	1	292	12:17:38.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5020.81 +/- 8	2O0	4	0	6,260,857:13:9	
2366	1	292	12:17:39.333	411JC6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,260,857:15:0	
2367	1	292	12:19:40.666	411JC6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,260,859:15:0	
2368	1	292	12:19:43.333	175TM176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	6,260,859:19:0	
2369	1	292	12:19:44.000	175TM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,260,859:20:0	
2370	1	292	12:19:50.666		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4989.86 +/- 8	2O0	4	0	6,260,859:30:0	
2371	1	292	12:19:50.666	175TM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,260,859:30:0	
2372	1	292	12:19:51.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4989.80 +/- 8	2O0	4	0	6,260,859:31:8	
2373	1	292	15:51:20.000	20RL4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,261,068:45:0	
2374	1	292	16:10:20.000	20RL4D	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	6,261,087:26:0	
2375	1	292	16:25:05.333	488AU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,261,101:80:0	
2376	1	292	17:41:55.333	488AU6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,261,177:79:0	
2377	1	292	18:15:34.666	488AU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,261,211:14:0	
2378	1	292	18:56:59.933	20RL4F	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,261,252:11:0	
2379	1	292	19:02:59.933	488AU6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,261,258:05:0	
2380	1	292	19:33:59.933	20AA4AA	7STAT	10.00,349.0027,4	Stator inertial point	2O0	4	0	6,261,288:65:0	
2381	1	292	19:34:11.933	20AA6AA	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	2O0	4	0	6,261,288:83:0	
2382	1	292	19:39:59.933	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	6,261,294:59:0	
2383	1	292	19:41:59.933	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,261,296:57:0	
2384	1	292	19:42:19.933	20AA4AD	7STAT	17.45,349.0027,4	Stator inertial point	2O0	4	0	6,261,296:87:0	
2385	1	292	19:46:13.933	474AA416A4E	7BURN	,349.002697,46.0	ALERT -- Thruster fire	2O0	4	0	6,261,300:74:0	
2386	1	292	20:21:37.266	20AA4AI	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,261,335:74:0	
2387	1	292	20:26:29.266	20AA4AJ	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,261,340:57:0	
2388	1	292	22:00:59.933	432AA431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	6,261,434:09:0	
2389	1	292	22:01:00.600	432AA6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,261,434:10:0	
2390	1	292	22:20:23.266	488AU6E	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,261,453:25:0	
2391	1	292	22:22:16.600	488AV6A	6TMSED	FILL,AH2	Sci, Eng, and D/L Chan	2O0	4	0	6,261,455:13:0	
2392	1	292	22:37:12.600	488AV6B	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,261,469:83:0	
2393	1	293	04:03:23.933	488AV6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,261,792:47:0	
2394	1	293	05:24:37.266	488AW6A	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,261,872:77:0	
2395	1	293	05:53:43.933	488AW6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,261,901:58:0	
2396	1	293	07:54:00.600	488AW6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,262,020:54:0	
2397	1	293	08:10:59.933	488AW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,262,037:36:0	
2398	1	293	08:13:35.933	432OM431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	6,262,039:88:0	
2399	1	293	08:13:36.600	432OM6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,262,039:89:0	
2400	1	293	08:13:59.933	444SA443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,262,040:33:0	
2401	1	293	08:19:03.933	20UF4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,262,045:34:0	
2402	1	293	08:19:53.933	20UF4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,262,046:18:0	
2403	1	293	10:57:28.600	488AW6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,262,202:04:0	
2404	1	293	11:25:57.933	488AX6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,262,230:20:0	
2405	1	293	11:52:47.266	488AX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,262,256:68:0	
2406	1	293	14:43:36.600	488AX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,262,425:63:0	
2407	1	293	15:04:56.600	488AX6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,262,446:72:0	
2408	1	293	16:40:56.600	488AX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,262,541:67:0	
2409	1	293	20:29:12.600	488AY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,262,767:45:0	
2410	1	293	22:03:04.600	488AY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,262,860:30:0	
2411	1	293	22:21:37.933	488AY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,262,878:62:0	
2412	1	293	22:50:17.266	488AY6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,262,907:02:0	
2413	1	294	00:06:43.933	488AY6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,262,982:57:0	
2414	1	294	00:40:23.266	488AZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,263,015:83:0	
2415	1	294	00:55:52.600	488AZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,263,031:21:0	
2416	1	294	06:04:27.200	488AZ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,263,336:38:0	
2417	1	294	06:38:33.866	488AZ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,263,370:14:0	
2418	1	294	07:24:27.200	488BA6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,263,415:49:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2419	1	294	07:53:33.866	488BA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,263,444:30:0	
2420	1	294	08:26:00.533	488BA6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,263,476:38:0	
2421	1	294	14:44:58.533	488BB6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,263,851:20:0	
2422	1	294	14:47:52.533	488BB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,263,854:08:0	
2423	1	294	15:05:23.200	488BB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,263,871:37:0	
2424	1	294	16:21:38.533	488BB6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,263,946:75:0	
2425	1	294	16:51:36.533	488BB6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,263,976:42:0	
2426	1	294	16:54:10.533	488BC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,263,979:00:0	
2427	1	294	20:11:59.200	488BC6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,264,174:58:0	
2428	1	294	20:14:16.533	488BC6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	6,264,176:82:0	
2429	1	295	02:50:43.866	411JE6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,264,569:00:0	
2430	1	295	02:50:43.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4989.80 +/- 8	2O0	4	0	6,264,569:00:0	
2431	1	295	02:50:45.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4989.92 +/- 8	2O0	4	0	6,264,569:02:1	
2432	1	295	02:50:50.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4991.15 +/- 8	2O0	4	0	6,264,569:10:0	
2433	1	295	02:50:51.733		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4991.21 +/- 8	2O0	4	0	6,264,569:11:8	
2434	1	295	02:50:53.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4991.09 +/- 8	2O0	4	0	6,264,569:13:9	
2435	1	295	02:50:53.133		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4991.09 +/- 8	2O0	4	0	6,264,569:13:9	
2436	1	295	02:50:53.866	411JE6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,264,569:15:0	
2437	1	295	02:52:55.200	411JE6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,264,571:15:0	
2438	1	295	02:52:57.866	175TN176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	6,264,571:19:0	
2439	1	295	02:52:58.533	175TN422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,264,571:20:0	
2440	1	295	02:53:05.200		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4960.14 +/- 8	2O0	4	0	6,264,571:30:0	
2441	1	295	02:53:05.200	175TN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,264,571:30:0	
2442	1	295	02:53:06.400		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4960.08 +/- 8	2O0	4	0	6,264,571:31:8	
2443	1	295	05:46:48.533	488BD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	6,264,743:13:0	
2444	1	295	05:56:40.533	488BD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,264,752:82:0	
2445	1	295	07:07:04.533	488BD6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,264,822:48:0	
2446	1	295	07:14:18.533	488BD6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,264,829:62:0	
2447	1	295	07:43:24.533	488BD6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,264,858:42:0	
2448	1	295	13:54:38.533	488BE6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,265,225:56:0	
2449	1	295	14:00:56.533	488BE6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,265,231:77:0	
2450	1	295	17:07:52.466	488BE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,265,416:66:0	
2451	1	295	20:56:04.466	488BF6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,265,642:38:0	
2452	1	296	03:45:09.133	411JF6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,266,047:00:0	
2453	1	296	03:45:09.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4960.08 +/- 8	2O0	4	0	6,266,047:00:0	
2454	1	296	03:45:10.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4960.20 +/- 8	2O0	4	0	6,266,047:02:1	
2455	1	296	03:45:15.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4961.43 +/- 8	2O0	4	0	6,266,047:10:0	
2456	1	296	03:45:17.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4961.49 +/- 8	2O0	4	0	6,266,047:11:8	
2457	1	296	03:45:18.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4961.37 +/- 8	2O0	4	0	6,266,047:13:9	
2458	1	296	03:45:18.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4961.37 +/- 8	2O0	4	0	6,266,047:13:9	
2459	1	296	03:45:19.133	411JF6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,266,047:15:0	
2460	1	296	03:47:20.466	411JF6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,266,049:15:0	
2461	1	296	03:47:23.133	175TO176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	6,266,049:19:0	
2462	1	296	03:47:23.800	175TO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,266,049:20:0	
2463	1	296	03:47:30.466	175TO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,266,049:30:0	
2464	1	296	03:47:30.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4930.42 +/- 8	2O0	4	0	6,266,049:30:0	
2465	1	296	03:47:31.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4930.36 +/- 8	2O0	4	0	6,266,049:31:8	
2466	1	296	08:32:58.466	488BG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,266,331:60:0	
2467	1	296	13:21:10.466	488BG6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,266,616:63:0	
2468	1	296	20:42:19.800	411JG6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,267,053:00:0	
2469	1	296	20:42:19.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4930.36 +/- 8	2O0	4	0	6,267,053:00:0	
2470	1	296	20:42:21.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4930.48 +/- 8	2O0	4	0	6,267,053:02:1	
2471	1	296	20:42:26.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4931.72 +/- 8	2O0	4	0	6,267,053:10:0	
2472	1	296	20:42:27.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4931.78 +/- 8	2O0	4	0	6,267,053:11:8	
2473	1	296	20:42:29.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4931.66 +/- 8	2O0	4	0	6,267,053:13:9	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2474	1	296	20:42:29.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4931.66 +/- 8	2O0	4	0	6,267,053:13:9	
2475	1	296	20:42:29.800	411JG6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,267,053:15:0	
2476	1	296	20:44:31.133	411JG6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,267,055:15:0	
2477	1	296	20:44:33.800	175TP176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	6,267,055:19:0	
2478	1	296	20:44:34.466	175TP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,267,055:20:0	
2479	1	296	20:44:41.133	175TP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,267,055:30:0	
2480	1	296	20:44:41.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4900.70 +/- 8	2O0	4	0	6,267,055:30:0	
2481	1	296	20:44:42.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4900.64 +/- 8	2O0	4	0	6,267,055:31:8	
2482	1	297	04:04:11.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4900.64 +/- 8	2O0	4	0	6,267,490:00:0	
2483	1	297	04:04:11.066	411JH6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,267,490:00:0	
2484	1	297	04:04:12.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4900.76 +/- 8	2O0	4	0	6,267,490:02:1	
2485	1	297	04:04:17.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4902.00 +/- 8	2O0	4	0	6,267,490:10:0	
2486	1	297	04:04:18.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4902.06 +/- 8	2O0	4	0	6,267,490:11:8	
2487	1	297	04:04:20.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4901.94 +/- 8	2O0	4	0	6,267,490:13:9	
2488	1	297	04:04:20.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4901.94 +/- 8	2O0	4	0	6,267,490:13:9	
2489	1	297	04:04:21.066	411JH6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,267,490:15:0	
2490	1	297	04:06:22.400	411JH6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,267,492:15:0	
2491	1	297	04:06:25.066	175TQ176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	6,267,492:19:0	
2492	1	297	04:06:25.733	175TQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,267,492:20:0	
2493	1	297	04:06:32.400	175TQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,267,492:30:0	
2494	1	297	04:06:32.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4870.98 +/- 8	2O0	4	0	6,267,492:30:0	
2495	1	297	04:06:33.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4870.92 +/- 8	2O0	4	0	6,267,492:31:8	
2496	1	297	11:13:54.400	411JI6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,267,915:00:0	
2497	1	297	11:13:54.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4870.92 +/- 8	2O0	4	0	6,267,915:00:0	
2498	1	297	11:13:55.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4871.04 +/- 8	2O0	4	0	6,267,915:02:1	
2499	1	297	11:14:01.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4872.28 +/- 8	2O0	4	0	6,267,915:10:0	
2500	1	297	11:14:02.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4872.34 +/- 8	2O0	4	0	6,267,915:11:8	
2501	1	297	11:14:03.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4872.22 +/- 8	2O0	4	0	6,267,915:13:9	
2502	1	297	11:14:03.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4872.22 +/- 8	2O0	4	0	6,267,915:13:9	
2503	1	297	11:14:04.400	411JI6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,267,915:15:0	
2504	1	297	11:16:05.733	411JI6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,267,917:15:0	
2505	1	297	11:16:08.400	175TR176A6A	6TMREC	**LPW**	7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	6,267,917:19:0	
2506	1	297	11:16:09.066	175TR422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,267,917:20:0	
2507	1	297	11:16:15.733	175TR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,267,917:30:0	
2508	1	297	11:16:15.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4841.27 +/- 8	2O0	4	0	6,267,917:30:0	
2509	1	297	11:16:16.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4841.21 +/- 8	2O0	4	0	6,267,917:31:8	
2510	1	297	17:13:09.066	488BH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,268,270:27:0	
2511	1	297	21:18:16.400	488BH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,268,512:66:0	
2512	1	297	22:09:28.400	488BH6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,268,563:33:0	
2513	1	297	22:09:29.733	488BH6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,268,563:35:0	
2514	1	297	22:36:11.733	488BH6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,268,589:72:0	
2515	1	297	22:41:28.400	488BI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,268,595:01:0	
2516	1	297	23:22:00.400	488BI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,268,635:09:0	
2517	1	297	23:48:55.733	488BI6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,268,661:66:0	
2518	1	298	00:18:01.733	488BI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,268,690:46:0	
2519	1	298	06:15:01.733	488BJ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,269,043:53:0	
2520	1	298	13:22:08.333	411JJ6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	6,269,466:00:0	
2521	1	298	13:22:08.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4841.21 +/- 8	2O0	4	0	6,269,466:00:0	
2522	1	298	13:22:09.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4841.33 +/- 8	2O0	4	0	6,269,466:02:1	
2523	1	298	13:22:15.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4842.56 +/- 8	2O0	4	0	6,269,466:10:0	
2524	1	298	13:22:16.200		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4842.62 +/- 8	2O0	4	0	6,269,466:11:8	
2525	1	298	13:22:17.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4842.50 +/- 8	2O0	4	0	6,269,466:13:9	
2526	1	298	13:22:17.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4842.50 +/- 8	2O0	4	0	6,269,466:13:9	
2527	1	298	13:22:18.333	411JJ6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2O0	4	0	6,269,466:15:0	
2528	1	298	13:24:19.666	411JJ6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	6,269,468:15:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2529	1	298	13:24:20.333		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4813.73 +/- 8	2O0	4	0	6,269,468:16:0
2530	1	298	13:24:20.333	411JJ6D	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	6,269,468:16:0
2531	1	298	13:24:21.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4813.67 +/- 8	2O0	4	0	6,269,468:17:8
2532	1	298	14:54:10.333	488BK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,269,557:02:0
2533	1	298	15:07:04.333	488BK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,269,569:71:0
2534	1	298	21:18:16.333	488BL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,269,936:82:0
2535	1	298	22:02:41.666	488BL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,269,980:76:0
2536	1	298	22:03:04.333	488BL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,269,981:19:0
2537	1	298	22:11:36.333	488BL6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,269,989:59:0
2538	1	299	03:09:04.333	20UD4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,270,283:77:0
2539	1	299	03:09:54.333	20UD4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,270,284:61:0
2540	1	299	03:14:17.000	176UA6A	6TMREC	**IPB**	INITIATE PLAYBACK (PB CONTROL) Record Mod	2O0	4	0	6,270,289:00:0
2541	1	299	14:54:18.333	488BM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,270,981:30:0
2542	1	299	15:07:04.333	488BM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,270,993:87:0
2543	1	299	20:56:57.666	176UW6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,271,340:00:0
2544	1	299	21:02:00.266	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,271,344:90:0
2545	1	299	21:03:00.266	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2O0	4	0	6,271,345:89:0
2546	1	299	21:05:00.266	20UQ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,271,347:87:0
2547	1	299	21:10:30.266	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2O0	4	0	6,271,353:36:0
2548	1	299	21:10:30.933	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2O0	4	0	6,271,353:37:0
2549	1	299	21:10:50.933	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2O0	4	0	6,271,353:67:0
2550	1	299	21:10:51.600	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2O0	4	0	6,271,353:68:0
2551	1	299	21:11:11.600	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	6,271,354:07:0
2552	1	299	21:11:12.266	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	6,271,354:08:0
2553	1	299	21:11:22.266	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	6,271,354:23:0
2554	1	299	21:11:22.933	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	6,271,354:24:0
2555	1	299	21:11:32.933	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2O0	4	0	6,271,354:39:0
2556	1	299	21:11:33.600	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2O0	4	0	6,271,354:40:0
2557	1	299	21:13:20.266	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2O0	4	0	6,271,356:18:0
2558	1	299	21:13:20.933	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2O0	4	0	6,271,356:19:0
2559	1	299	21:13:40.933	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2O0	4	0	6,271,356:49:0
2560	1	299	21:13:41.600	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2O0	4	0	6,271,356:50:0
2561	1	299	21:14:01.600	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	6,271,356:80:0
2562	1	299	21:14:02.266	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	6,271,356:81:0
2563	1	299	21:14:12.266	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	6,271,357:05:0
2564	1	299	21:14:12.933	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	6,271,357:06:0
2565	1	299	21:14:22.933	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2O0	4	0	6,271,357:21:0
2566	1	299	21:14:23.600	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2O0	4	0	6,271,357:22:0
2567	1	299	21:15:20.266	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,271,358:16:0
2568	1	299	21:18:16.266	488BN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,271,361:07:0
2569	1	299	21:40:04.266	20UW4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,271,382:58:0
2570	1	299	21:40:54.266	20UW4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,271,383:42:0
2571	1	299	21:42:27.600	176UX6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	6,271,385:00:0
2572	1	299	21:58:48.266	488BN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	6,271,401:15:0
2573	1	299	22:00:24.266	488BN6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	6,271,402:68:0
2574	1	299	22:20:08.266	488BN6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,271,422:24:0
2575	1	299	22:31:08.266	488BN6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,271,433:13:0
2576	1	299	23:22:00.266	488BO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,271,483:41:0
2577	1	299	23:48:39.600	488BO6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,271,509:74:0
2578	1	300	00:17:45.600	488BO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,271,538:54:0
2579	1	300	08:34:32.266	488BP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,272,029:83:0
2580	1	300	10:14:58.933	488BP6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,272,129:23:0
2581	1	300	10:41:48.266	488BP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,272,155:71:0
2582	1	300	12:36:32.933	488BP6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,272,269:24:0
2583	1	300	12:39:52.266	488BP6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,272,272:50:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2584	1	300	14:49:26.933	488BQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,272,400:64:0	
2585	1	300	15:02:48.266	488BQ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,272,413:83:0	
2586	1	300	18:36:44.933	488BQ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,272,625:46:0	
2587	1	301	06:38:38.266	488BR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,273,339:42:0	
2588	1	301	09:00:08.200	488BR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,273,479:37:0	
2589	1	301	10:19:04.200	488BR6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,273,557:43:0	
2590	1	301	10:22:41.533	488BR6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,273,561:05:0	
2591	1	301	14:56:21.533	488BS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,273,831:65:0	
2592	1	301	15:07:04.200	488BS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,273,842:28:0	
2593	1	301	16:13:25.533	488BS6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,273,907:85:0	
2594	1	301	16:42:31.533	488BS6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,273,936:65:0	
2595	1	301	21:03:20.200	488BT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,274,194:60:0	
2596	1	301	21:49:35.533	488BT6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,274,240:37:0	
2597	1	301	21:54:32.200	488BT6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2O0	4	0	6,274,245:27:0	
2598	1	301	22:42:46.200	488BT6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2O0	4	0	6,274,293:00:0	
2599	1	301	22:52:08.200	488BT6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,274,302:24:0	
2600	1	301	22:58:23.533	488BU6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,274,308:41:0	
2601	1	301	23:27:29.533	488BU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,274,337:21:0	
2602	1	301	23:38:23.533	488BU6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,274,348:01:0	
2603	1	301	23:59:35.533	432JF6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	2O0	4	0	6,274,368:89:0	
2604	1	302	00:02:38.866	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	6,274,372:00:0	
2605	1	302	00:07:29.533	488BU6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,274,376:72:0	
2606	1	302	01:54:52.866	176UB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,274,483:00:0	
2607	**1**	**302**	**02:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**6,274,488:05:7**	
2608	**1**	**302**	**02:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**	
2609	**1**	**302**	**02:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**	
2610	**1**	**302**	**02:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**	
2611	**1**	**302**	**02:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**	
2612	**1**	**302**	**02:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**	
2613	**1**	**302**	**02:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**	
2614	**1**	**302**	**02:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**6,274,488:05:7**	
2615	**1**	**302**	**02:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**2O0**	**4**	**0**	**6,274,488:05:7**	
2616	1	302	02:00:00.200		DMS:	: READY	RDY, TRACK 2, REV, TIC 4813.67 +/- 8	2O0	4	0	6,274,488:06:0	

Sequence:	I32B-AR	Created: 01/15/02	Begin: 01-302/02:00:00 Finish: 02-004/12:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	**1**	**302**	**02:00:00.000**	**20A3EZ**	**37C2PR**	**CMD,37C2PR,20A3E**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**
2	**1**	**302**	**02:00:00.000**	**20A3FA**	**37F1PR**	**CMD,37F1PR,20A3F**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**
3	**1**	**302**	**02:00:00.000**	**20A3FB**	**37F2PR**	**CMD,37F2PR,20A3F**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**
4	**1**	**302**	**02:00:00.000**	**20A3FD**	**40HRPR**	**CMD,40HRPR,20A3F**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**
5	**1**	**302**	**02:00:00.000**	**20A3FE**	**40T1PR**	**CMD,40T1PR,20A3F**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**
6	**1**	**302**	**02:00:00.000**	**20A3FF**	**40T2R**	**CMD,40T2R,20A3FF**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**6,274,488:05:7**
7	**1**	**302**	**02:00:00.000**	**20A3EY**	**37C1PR**	**CMD,37C1PR,20A3E**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**6,274,488:05:7**
8	**1**	**302**	**02:00:00.000**	**20A3EW**	**37A**	**CMD,37A,20A3EW,,**	**NIMS Power ON**	**2O0**	**4**	**0**	**6,274,488:05:7**
9	**1**	**302**	**02:00:00.000**	**20A3EX**	**37HR**	**CMD,37HR,20A3EX,**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**6,274,488:05:7**
10	1	302	02:00:00.200		DMS:	: READY	RDY, TRACK 2, REV, TIC 4813.67 +/- 8	2O0	4	0	6,274,488:06:0
11	**1**	**302**	**02:01:56.200**	**432JA6B**	**6RTDS2**	**NIMDSL,AACDSL,RT**	**NIMS R/T DESELECTAACS DESELECT**	**2O0**	**4**	**0**	**6,274,489:89:0**
12	1	302	02:02:00.200	488AA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,274,490:04:0
13	1	302	02:04:04.200	20SG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,274,492:08:0
14	1	302	02:04:54.200	20SG4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,274,492:83:0
15	1	302	02:06:00.200	176SA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	6,274,494:00:0
16	1	302	04:40:33.533	488AA6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,274,646:78:0
17	1	302	04:46:16.200	488AA6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,274,652:46:0
18	1	302	06:00:33.533	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	6,274,725:89:0
19	1	302	06:00:34.866	432ZL6A	6RTSL1		R/T Select of DDS and	2O0	4	0	6,274,726:00:0
20	1	302	06:04:41.533	20ZM6A	6EUVON			2O0	4	0	6,274,730:06:0
21	1	302	06:05:38.200	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	6,274,731:00:0
22	1	302	07:38:47.533	488AA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,274,823:12:0
23	1	302	14:55:50.866	488AB6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,275,255:35:0
24	1	302	14:58:32.200	488AB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,275,258:04:0
25	1	303	05:26:34.133	488AC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,276,116:49:0
26	1	303	05:37:28.133	488AC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,276,127:29:0
27	1	303	06:22:16.133	488AC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,276,171:57:0
28	1	303	09:12:05.466	488AC6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,276,339:53:0
29	1	303	15:23:57.466	488AD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,276,707:33:0
30	1	303	21:14:00.133	488AD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,277,053:51:0
31	1	303	21:43:24.133	488AE6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,277,082:58:0
32	1	303	21:43:52.133	488AE6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,277,083:09:0
33	1	303	21:52:24.133	488AE6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,277,091:49:0
34	1	303	22:19:52.800	488AE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,277,118:65:0
35	1	303	23:17:44.133	488AE6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,277,175:85:0
36	1	304	05:24:40.066	488AF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,277,538:76:0
37	1	304	06:18:00.066	488AF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,277,591:53:0
38	1	304	09:52:13.400	488AF6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,277,803:41:0
39	1	304	14:49:04.066	488AG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,278,097:03:0
40	1	304	21:09:44.066	488AH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,278,473:47:0
41	1	304	21:28:56.066	488AH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,278,492:46:0
42	1	304	22:47:52.066	488AH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,278,570:52:0
43	1	304	22:53:00.733	488AH6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,278,575:60:0
44	1	304	23:22:06.733	488AH6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,278,604:40:0
45	1	305	07:24:08.066	488AI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,279,081:15:0
46	1	305	10:34:19.400	488AI6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,279,269:24:0
47	1	305	11:01:09.400	488AI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,279,295:73:0
48	1	305	14:57:22.666	488AJ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,279,529:39:0
49	1	305	17:04:13.333	488AJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,279,654:80:0
50	1	305	21:09:44.000	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,279,897:63:0
51	1	305	21:35:20.000	488AK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,279,923:01:0
52	1	305	21:38:21.333	488AK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,279,926:00:0
53	1	305	21:43:52.000	488AK6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2O0	4	0	6,279,931:41:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	1	305	22:20:08.000	488AK6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,279,967:29:0	
55	1	305	22:25:07.333	488AL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,279,972:23:0	
56	1	305	23:02:48.000	488AL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,280,009:47:0	
57	1	306	04:17:08.666	488AL6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,280,320:37:0	
58	1	306	04:20:40.000	488AL6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,280,323:81:0	
59	1	306	05:11:56.666	488AM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,280,374:55:0	
60	1	306	05:22:32.000	488AM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,280,385:07:0	
61	1	306	06:07:20.000	488AM6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,280,429:35:0	
62	1	306	10:27:05.333	488AM6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,280,686:26:0	
63	1	306	10:29:44.000	488AM6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,280,688:82:0	
64	1	306	14:45:12.666	488AN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,280,941:52:0	
65	1	306	16:02:47.333	488AN6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,281,018:27:0	
66	1	306	16:31:53.333	488AN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,281,047:07:0	
67	1	306	20:25:25.333	488AN6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,281,278:04:0	
68	1	306	20:29:12.000	488AN6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,281,281:71:0	
69	1	307	05:02:04.600	488AO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,281,789:02:0	
70	1	307	05:11:51.933	488AO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,281,798:64:0	
71	1	307	05:58:47.933	488AO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,281,845:11:0	
72	1	307	13:52:37.933	488AP6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,282,313:68:0	
73	1	307	14:44:27.266	488AP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,282,365:00:0	
74	1	307	20:59:03.933	488AQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,282,735:45:0	
75	1	307	21:30:59.933	488AQ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,282,767:07:0	
76	1	307	21:31:03.933	488AQ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,282,767:13:0	
77	1	307	22:00:55.933	488AQ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,282,796:62:0	
78	1	307	22:25:22.600	488AQ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,282,820:78:0	
79	1	307	22:47:51.933	488AR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,282,843:09:0	
80	1	308	04:07:41.933	488AR6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,283,159:38:0	
81	1	308	14:44:34.533	488AS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,283,789:27:0	
82	1	308	21:01:11.866	488AT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,284,161:71:0	
83	1	308	21:24:04.533	488AT6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,284,184:37:0	
84	1	308	21:24:39.866	488AT6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,284,184:90:0	
85	1	308	21:33:11.866	488AT6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,284,193:39:0	
86	1	309	06:59:39.200	488AU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,284,753:60:0	
87	1	309	14:57:36.533	488AV6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,285,226:33:0	
88	1	309	15:00:39.866	488AV6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,285,229:35:0	
89	1	309	22:40:37.800	488AW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,285,684:27:0	
90	1	309	23:57:23.800	488AW6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,285,760:20:0	
91	1	310	00:26:29.800	488AW6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,285,789:00:0	
92	1	310	00:57:59.800	488AW6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,285,820:14:0	
93	1	310	06:30:47.800	488AX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,286,149:27:0	
94	1	310	09:25:43.800	488AX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,286,322:28:0	
95	1	310	09:42:47.800	488AX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,286,339:17:0	
96	1	310	10:13:43.800	488AX6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,286,369:71:0	
97	1	310	10:40:33.133	488AX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,286,396:28:0	
98	1	310	14:57:58.466	488AY6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,286,650:82:0	
99	1	310	22:29:51.133	488AZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,287,097:74:0	
100	1	311	05:57:49.066	488BA6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,287,540:78:0	
101	1	311	06:00:55.733	488BA6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,287,543:85:0	
102	1	311	14:40:48.400	488BB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,288,058:09:0	
103	1	311	15:57:11.733	488BB6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,288,133:59:0	
104	1	311	16:26:17.733	488BB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,288,162:39:0	
105	1	311	20:46:15.733	488BC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,288,419:49:0	
106	1	311	21:33:11.733	488BC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,288,465:87:0	
107	1	311	22:17:09.733	488BC6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,288,509:40:0	
108	1	311	22:39:19.733	488BC6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,288,531:33:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	1	311	22:44:36.400	488BC6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,288,536	53:0
110	1	312	08:51:35.733	488BD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,289,136	82:0
111	1	312	09:26:48.400	488BD6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,289,171	66:0
112	1	312	09:34:15.733	488BD6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,289,179	09:0
113	1	312	14:45:02.400	488BD6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,289,486	42:0
114	1	312	16:49:27.666	488BE6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,289,609	47:0
115	1	312	17:51:19.666	488BE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,289,670	64:0
116	1	312	20:50:31.666	488BE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,289,847	85:0
117	1	312	21:18:15.666	488BE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,289,875	33:0
118	1	312	22:17:59.666	488BE6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,289,934	40:0
119	1	313	00:52:39.000	488BF6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,290,087	36:0
120	1	313	00:55:51.666	488BF6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,290,090	52:0
121	1	313	04:47:46.333	488BF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,290,319	85:0
122	1	313	05:07:35.666	488BF6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,290,339	49:0
123	1	313	06:02:00.333	488BF6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,290,393	32:0
124	1	313	06:31:06.333	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,290,422	12:0
125	1	313	06:32:55.666	488BG6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,290,423	85:0
126	1	313	09:43:18.333	488BG6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,290,612	20:0
127	1	313	14:35:09.000	488BH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,290,900	78:0
128	1	313	16:34:31.666	488BH6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,291,018	84:0
129	1	313	17:59:51.666	488BH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,291,103	29:0
130	1	313	18:13:20.333	488BH6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,291,116	59:0
131	1	314	00:45:12.333	488BI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,291,504	19:0
132	1	314	02:03:18.933	488BI6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,291,581	42:0
133	1	314	02:30:08.266	488BI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,291,607	90:0
134	1	314	06:49:59.600	488BJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,291,864	90:0
135	1	314	09:15:03.600	488BJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,292,008	42:0
136	1	314	09:36:23.600	488BJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,292,029	51:0
137	1	314	09:58:15.600	488BJ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,292,051	17:0
138	1	314	10:25:04.933	488BJ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,292,077	65:0
139	1	314	16:19:35.600	488BK6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,292,428	30:0
140	1	314	18:06:15.600	488BK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,292,533	75:0
141	1	314	20:39:51.600	488BK6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,292,685	67:0
142	1	314	21:00:03.600	488BK6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,292,705	65:0
143	1	314	21:01:11.600	488BK6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,292,706	76:0
144	1	315	04:28:00.266	488BL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,293,148	67:0
145	1	315	04:37:43.600	488BL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,293,158	32:0
146	1	315	05:18:15.600	488BL6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,293,198	40:0
147	1	315	16:30:15.533	488BM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,293,863	05:0
148	1	315	17:05:13.533	488BM6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,293,897	58:0
149	1	315	17:06:31.533	488BM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,293,898	84:0
150	1	315	20:53:04.200	488BM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,294,122	89:0
151	1	315	21:03:19.533	488BM6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,294,133	11:0
152	1	315	21:58:47.533	488BN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,294,187	89:0
153	1	316	08:40:55.533	488BO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,294,823	05:0
154	1	316	09:25:43.533	488BO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,294,867	33:0
155	1	316	15:53:59.533	488BP6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,295,251	33:0
156	1	316	16:57:19.533	176TA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,295,314	00:0
157	1	316	18:10:31.533	488BP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,295,386	36:0
158	1	316	19:58:09.533	488BP6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,295,492	77:0
159	1	316	20:01:27.533	488BP6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,295,496	10:0
160	1	316	20:02:21.533	465WK6A	6DMST	5000	DMS Slew to TIC	2O0	4	0	6,295,497	00:0
161	1	316	20:02:21.533		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 4813.67 +/- 8	2O0	4	0	6,295,497	00:0
162	1	316	20:02:21.533		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4813.67 +/- 8	2O0	4	0	6,295,497	00:0
163	1	316	20:02:28.200		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 4813.67 +/- 8	2O0	4	0	6,295,497	10:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	1	316	20:02:29.600		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC *4813.79 +/- 8	2O0	4	0	6,295,497:12:1	
165	1	316	20:15:34.333		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/- 8	2O0	4	0	6,295,510:06:2	
166	1	316	20:15:35.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/- 8	2O0	4	0	6,295,510:08:0	
167	1	317	01:56:02.800		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/- 8	2O0	4	0	6,295,846:73:0	
168	1	317	01:56:02.800	465WL6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	2O0	4	0	6,295,846:73:0	
169	1	317	01:56:04.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/- 8	2O0	4	0	6,295,846:75:1	
170	1	317	01:56:09.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/- 8	2O0	4	0	6,295,846:83:0	
171	1	317	01:56:10.666		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/- 8	2O0	4	0	6,295,846:84:8	
172	1	317	01:56:14.533		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/- 8	2O0	4	0	6,295,846:90:6	
173	1	317	01:56:14.533		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/- 8	2O0	4	0	6,295,846:90:6	
174	1	317	02:21:54.800	465WL6B	6DMSC	RDY,4	DMS Control Tape stop	2O0	4	0	6,295,872:35:0	
175	1	317	02:21:54.800		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/- 8	2O0	4	0	6,295,872:35:0	
176	1	317	02:21:56.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/- 8	2O0	4	0	6,295,872:36:8	
177	1	317	04:21:44.133	465WM6A	6DTRN	CMD,6DTRN,465WM6	DMS TRACK TURNAROUND	2O0	4	0	6,295,990:81:0	
178	1	317	04:21:44.133		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/- 8	2O0	4	0	6,295,990:81:0	
179	1	317	04:21:44.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/- 8	2O0	4	0	6,295,990:81:0	
180	1	317	04:21:45.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/- 8	2O0	4	0	6,295,990:83:1	
181	1	317	04:21:50.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/- 8	2O0	4	0	6,295,991:00:0	
182	1	317	04:21:52.000		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/- 8	2O0	4	0	6,295,991:01:8	
183	1	317	04:21:53.400		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/- 8	2O0	4	0	6,295,991:03:9	
184	1	317	04:23:12.133	488BQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,295,992:31:0	
185	1	317	04:25:09.466	488BQ6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	6,295,994:25:0	
186	1	317	04:25:54.066		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 8	2O0	4	0	6,295,995:00:9	
187	1	317	04:25:55.266		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 8	2O0	4	0	6,295,995:02:7	
188	1	317	04:25:55.266		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 8	2O0	4	0	6,295,995:02:7	
189	1	317	04:25:56.666		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2O0	4	0	6,295,995:04:8	
190	1	317	04:26:08.666		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2O0	4	0	6,295,995:22:8	
191	1	317	04:26:09.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2O0	4	0	6,295,995:24:6	
192	1	317	04:31:46.800	465WN6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	2O0	4	0	6,296,000:75:0	
193	1	317	04:31:46.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	6,296,000:75:0	
194	1	317	04:31:53.466		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	6,296,000:85:0	
195	1	317	04:31:57.333		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	2O0	4	0	6,296,000:90:8	
196	1	317	04:31:57.333		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	2O0	4	0	6,296,000:90:8	
197	1	317	04:33:27.466	488BQ6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	6,296,002:44:0	
198	1	317	05:03:19.466	488BQ6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	6,296,032:02:0	
199	1	317	05:03:40.800	465WN6B	6DMSC	RDY,1	DMS Control Tape stop	2O0	4	0	6,296,032:34:0	
200	1	317	05:03:40.800		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	2O0	4	0	6,296,032:34:0	
201	1	317	05:03:42.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	2O0	4	0	6,296,032:35:8	
202	1	317	05:19:16.800	465WO6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	2O0	4	0	6,296,047:73:0	
203	1	317	05:19:16.800		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	2O0	4	0	6,296,047:73:0	
204	1	317	05:19:18.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	2O0	4	0	6,296,047:75:1	
205	1	317	05:19:23.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	2O0	4	0	6,296,047:83:0	
206	1	317	05:19:24.666		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	2O0	4	0	6,296,047:84:8	
207	1	317	05:19:28.533		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	2O0	4	0	6,296,047:90:6	
208	1	317	05:19:28.533		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	2O0	4	0	6,296,047:90:6	
209	1	317	05:51:24.800		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	2O0	4	0	6,296,079:53:0	
210	1	317	05:51:24.800	465WP6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	2O0	4	0	6,296,079:53:0	
211	1	317	05:51:26.000		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	2O0	4	0	6,296,079:54:8	
212	1	317	05:51:29.866		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	2O0	4	0	6,296,079:60:6	
213	1	317	05:51:29.866		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	2O0	4	0	6,296,079:60:6	
214	1	317	06:23:25.466	465WP6B	6DMSC	RDY,3	DMS Control Tape stop	2O0	4	0	6,296,111:22:0	
215	1	317	06:23:25.466		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	2O0	4	0	6,296,111:22:0	
216	1	317	06:23:26.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	2O0	4	0	6,296,111:23:8	
217	1	317	06:38:08.800	465WQ6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	2O0	4	0	6,296,125:73:0	
218	1	317	06:38:08.800		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	2O0	4	0	6,296,125:73:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	1	317	06:38:10.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	2O0	4	0	6,296,125:75:1	
220	1	317	06:38:15.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	2O0	4	0	6,296,125:83:0	
221	1	317	06:38:16.666		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	2O0	4	0	6,296,125:84:8	
222	1	317	06:38:20.533		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	2O0	4	0	6,296,125:90:6	
223	1	317	06:38:20.533		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	2O0	4	0	6,296,125:90:6	
224	1	317	07:10:16.133		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	2O0	4	0	6,296,157:52:0	
225	1	317	07:10:16.133	465WR6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	2O0	4	0	6,296,157:52:0	
226	1	317	07:10:17.333		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	2O0	4	0	6,296,157:53:8	
227	1	317	07:10:21.200		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	2O0	4	0	6,296,157:59:6	
228	1	317	07:10:21.200		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	2O0	4	0	6,296,157:59:6	
229	1	317	07:11:22.133	465WR6B	6DMSC	RDY,3	DMS Control Tape stop	2O0	4	0	6,296,158:60:0	
230	1	317	07:11:22.133		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	2O0	4	0	6,296,158:60:0	
231	1	317	07:11:23.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	2O0	4	0	6,296,158:61:8	
232	1	317	07:11:59.466	488BQ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,296,159:25:0	
233	1	317	07:25:52.133		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	2O0	4	0	6,296,173:00:0	
234	1	317	07:25:52.133	465WS6A	6DMSC	RDY,4	DMS Control Tape stop	2O0	4	0	6,296,173:00:0	
235	1	317	07:26:46.133		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	2O0	4	0	6,296,173:81:0	
236	1	317	07:26:46.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	2O0	4	0	6,296,173:81:0	
237	1	317	07:26:46.133	465WT6A	6DTRN	CMD,6DTRN,465WT6	DMS TRACK TURNAROUND	2O0	4	0	6,296,173:81:0	
238	1	317	07:26:47.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	2O0	4	0	6,296,173:83:1	
239	1	317	07:26:52.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	2O0	4	0	6,296,174:00:0	
240	1	317	07:26:54.000		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	2O0	4	0	6,296,174:01:8	
241	1	317	07:26:55.400		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	2O0	4	0	6,296,174:03:9	
242	1	317	07:38:21.200		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	2O0	4	0	6,296,185:31:6	
243	1	317	07:38:22.400		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	2O0	4	0	6,296,185:33:4	
244	1	317	07:38:22.400		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	2O0	4	0	6,296,185:33:4	
245	1	317	07:38:23.800		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2O0	4	0	6,296,185:35:5	
246	1	317	07:38:35.800		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2O0	4	0	6,296,185:53:5	
247	1	317	07:38:37.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2O0	4	0	6,296,185:55:3	
248	1	317	07:53:04.133	20UJ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,296,199:82:0	
249	1	317	07:53:54.133	20UJ4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,296,200:66:0	
250	1	317	07:55:11.466	176SD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	6,296,202:00:0	
251	1	317	09:38:31.466	488BR6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,296,304:18:0	
252	1	317	10:14:42.133	488BR6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,296,339:89:0	
253	1	317	10:16:55.466	488BR6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,296,342:16:0	
254	1	317	13:28:15.466	488BR6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,296,531:37:0	
255	1	317	13:39:35.466	488BR6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,296,542:56:0	
256	1	317	14:41:32.800	488BS6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,296,603:81:0	
257	1	317	15:10:38.800	488BS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,296,632:61:0	
258	1	317	15:58:15.466	488BS6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,296,679:69:0	
259	1	317	18:01:59.466	488BS6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,296,802:12:0	
260	1	317	20:31:19.466	488BS6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,296,949:75:0	
261	1	317	20:49:30.133	488BT6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,296,967:73:0	
262	1	317	20:56:55.466	488BT6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	6,296,975:13:0	
263	1	317	21:07:35.466	488BT6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,296,985:63:0	
264	1	317	22:30:37.466	488BT6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,297,067:74:0	
265	1	318	05:58:49.466	488BU6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,297,511:08:0	
266	1	318	14:25:41.400	488BV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,298,012:35:0	
267	1	318	15:39:03.400	488BV6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,298,084:86:0	
268	1	318	18:16:55.400	488BV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,298,241:07:0	
269	1	318	20:31:19.400	488BW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,298,374:00:0	
270	1	318	20:45:21.400	488BW6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,298,387:80:0	
271	1	318	20:46:15.400	488BW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,298,388:70:0	
272	1	318	20:54:47.400	488BW6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,298,397:19:0	
273	1	318	21:56:36.733	488BW6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,298,458:32:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	1	318	23:12:26.066	488BX6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,298,533:31:0	
275	1	318	23:13:27.400	488BX6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,298,534:32:0	
276	1	318	23:39:36.066	488BX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,298,560:19:0	
277	1	319	01:40:52.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	6,298,680:14:0	
278	1	319	01:40:59.400		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	6,298,680:24:0	
279	1	319	01:41:00.800		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	2O0	4	0	6,298,680:26:1	
280	1	319	01:41:00.800		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	2O0	4	0	6,298,680:26:1	
281	1	319	01:41:06.066		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC * 203.48 +/-	2O0	4	0	6,298,680:34:0	
282	1	319	01:41:07.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 203.54 +/-	2O0	4	0	6,298,680:35:8	
283	1	319	05:58:55.400	488BY6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,298,935:33:0	
284	1	319	14:25:48.066	488BZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,299,436:61:0	
285	1	319	15:28:23.400	488BZ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,299,498:52:0	
286	1	319	18:16:55.333	488BZ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,299,665:23:0	
287	1	319	20:06:56.000		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 203.54 +/-	2O0	4	0	6,299,774:05:0	
288	1	319	20:06:57.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 203.66 +/-	2O0	4	0	6,299,774:07:1	
289	1	319	20:07:02.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 204.89 +/-	2O0	4	0	6,299,774:15:0	
290	1	319	20:07:03.866		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC * 204.95 +/-	2O0	4	0	6,299,774:16:8	
291	1	319	20:07:05.266		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC 204.83 +/-	2O0	4	0	6,299,774:18:9	
292	1	319	20:07:05.266		DMS:	: *P_SLEW	P7, TRACK 2, REV, TIC * 204.83 +/-	2O0	4	0	6,299,774:18:9	
293	1	319	20:07:26.400		DMS:	: *REVERSE	P7, TRACK 2, REV, TIC * 199.87 +/-	2O0	4	0	6,299,774:50:6	
294	1	319	20:07:26.400		DMS:	: *RUNDOWN	P7, TRACK 2, REV, TIC 199.87 +/-	2O0	4	0	6,299,774:50:6	
295	1	319	20:07:27.600		DMS:	: *RUNUP	P7, TRACK 3, FWD, TIC 199.81 +/-	2O0	4	0	6,299,774:52:4	
296	1	319	20:07:27.600		DMS:	: *TURNARND	P7, TRACK *3, *FWD, TIC * 199.81 +/-	2O0	4	0	6,299,774:52:4	
297	1	319	20:07:29.000		DMS:	: *RESUME	P7, TRACK 3, FWD, TIC * 199.93 +/-	2O0	4	0	6,299,774:54:5	
298	1	319	20:07:29.000		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC 199.93 +/-	2O0	4	0	6,299,774:54:5	
299	1	319	20:27:03.333	488CA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,299,793:87:0	
300	1	319	20:39:42.666		DMS:	: *RUNDOWN	P7, TRACK *1, FWD, TIC * 653.14 +/-	2O0	4	0	6,299,806:43:0	
301	1	319	20:39:43.866		DMS:	: *READY	RDY, TRACK *2, *REV, TIC * 653.20 +/-	2O0	4	0	6,299,806:44:8	
302	1	319	20:40:40.000	488CA6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,299,807:38:0	
303	1	319	20:41:59.333	488CA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,299,808:66:0	
304	1	319	20:50:31.333	488CA6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,299,817:15:0	
305	1	319	22:30:50.000	488CA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,299,916:34:0	
306	1	320	02:18:12.000	488CB6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,300,141:22:0	
307	1	320	02:21:11.333	488CB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,300,144:18:0	
308	1	320	04:18:31.333	488CB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,300,260:22:0	
309	1	320	04:29:11.333	488CB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,300,270:72:0	
310	1	320	05:31:15.333	488CB6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,300,332:16:0	
311	1	320	05:52:23.333	488CC6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,300,353:07:0	
312	1	320	05:58:27.333	488CC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,300,359:07:0	
313	1	320	08:56:20.000	176UP6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,300,535:00:0	
314	1	320	09:02:00.000	20UE4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,300,540:55:0	
315	1	320	09:03:00.000	20UE4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2O0	4	0	6,300,541:54:0	
316	1	320	09:05:00.000	20UE4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,300,543:52:0	
317	1	320	09:10:30.000	20UE4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2O0	4	0	6,300,549:01:0	
318	1	320	09:10:30.666	20UE4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2O0	4	0	6,300,549:02:0	
319	1	320	09:10:50.666	20UE4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2O0	4	0	6,300,549:32:0	
320	1	320	09:10:51.333	20UE4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2O0	4	0	6,300,549:33:0	
321	1	320	09:11:11.333	20UE4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	6,300,549:63:0	
322	1	320	09:11:12.000	20UE4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	6,300,549:64:0	
323	1	320	09:11:22.000	20UE4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	6,300,549:79:0	
324	1	320	09:11:22.666	20UE4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	6,300,549:80:0	
325	1	320	09:11:32.666	20UE4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2O0	4	0	6,300,550:04:0	
326	1	320	09:11:33.333	20UE4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2O0	4	0	6,300,550:05:0	
327	1	320	09:13:20.000	20UE4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2O0	4	0	6,300,551:74:0	
328	1	320	09:13:20.666	20UE4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2O0	4	0	6,300,551:75:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	1	320	09:13:40.666	20UE4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2O0	4	0	6,300,552:14:0	
330	1	320	09:13:41.333	20UE4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2O0	4	0	6,300,552:15:0	
331	1	320	09:14:01.333	20UE4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	6,300,552:45:0	
332	1	320	09:14:02.000	20UE4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	6,300,552:46:0	
333	1	320	09:14:12.000	20UE4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	6,300,552:61:0	
334	1	320	09:14:12.666	20UE4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	6,300,552:62:0	
335	1	320	09:14:22.666	20UE4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2O0	4	0	6,300,552:77:0	
336	1	320	09:14:23.333	20UE4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2O0	4	0	6,300,552:78:0	
337	1	320	09:15:20.000	20UE4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,300,553:72:0	
338	1	320	09:40:04.000	20UF4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,300,578:23:0	
339	1	320	09:40:54.000	20UF4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,300,579:07:0	
340	1	320	09:42:50.666	176US6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	6,300,581:00:0	
341	1	320	10:07:52.666	488CC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,300,605:69:0	
342	1	320	10:10:31.333	488CC6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,300,608:34:0	
343	1	321	04:03:37.266	488CD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,301,669:62:0	
344	1	321	04:14:15.266	488CD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,301,680:18:0	
345	1	321	04:44:07.266	488CD6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,301,709:67:0	
346	1	321	07:53:59.266	488CD6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,301,897:47:0	
347	1	321	13:07:35.266	488CE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,302,207:61:0	
348	1	321	15:09:11.266	488CE6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,302,327:85:0	
349	1	321	18:16:55.266	488CE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,302,513:55:0	
350	1	321	20:20:39.266	488CF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,302,635:89:0	
351	1	321	20:59:03.266	488CF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,302,673:87:0	
352	1	321	21:41:05.266	488CF6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,302,715:48:0	
353	1	321	22:10:11.933	488CF6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,302,744:29:0	
354	1	321	22:49:59.266	488CF6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,302,783:61:0	
355	1	322	01:38:36.600	488CG6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,302,950:40:0	
356	1	322	01:40:39.266	488CG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,302,952:42:0	
357	1	322	04:36:56.600	488CG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,303,126:74:0	
358	1	322	04:48:23.266	488CG6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,303,138:12:0	
359	1	322	07:39:03.266	488CH6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,303,306:84:0	
360	1	322	10:00:37.933	488CH6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,303,446:86:0	
361	1	322	16:35:12.533	488CI6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,303,837:17:0	
362	1	322	18:16:55.200	488CI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,303,937:71:0	
363	1	322	20:16:23.200	488CI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,304,055:85:0	
364	1	322	20:30:38.533	488CI6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,304,070:03:0	
365	1	322	20:31:19.200	488CI6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,304,070:64:0	
366	1	322	20:39:51.200	488CJ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,304,079:13:0	
367	1	323	04:27:02.533	488CK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,304,541:18:0	
368	1	323	04:39:51.200	488CK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,304,553:79:0	
369	1	323	07:24:07.200	488CK6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,304,716:30:0	
370	1	323	13:16:07.200	488CL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,305,064:42:0	
371	1	323	15:09:11.200	488CL6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,305,176:26:0	
372	1	323	15:52:59.866	488CL6C	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	2O0	4	0	6,305,219:56:0	
373	1	323	15:56:25.200	176UE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,305,223:00:0	
374	1	323	16:23:29.866	20RN4I	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	6,305,249:71:0	
375	1	323	16:38:29.866	20RN4K	7SLEW	INIT,POS,17.45	Stator movement	2O0	4	0	6,305,264:56:0	
376	1	323	16:50:29.866	20RN4L	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,305,276:44:0	
377	1	323	16:57:29.866	20RN4M	7SLEW	INIT,NEG,17.45	Stator movement	2O0	4	0	6,305,283:37:0	
378	1	323	17:09:29.866	20RN4N	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,305,295:25:0	
379	1	323	17:16:29.866	20RN4O	7SLEW	INIT,POS,4.36	Stator movement	2O0	4	0	6,305,302:18:0	
380	1	323	17:28:29.866	20RN4P	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,305,314:06:0	
381	1	323	17:35:29.866	20RN4Q	7SLEW	INIT,NEG,4.36	Stator movement	2O0	4	0	6,305,320:90:0	
382	1	323	17:47:29.866	20RN4R	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,305,332:78:0	
383	1	323	17:59:29.866	20RN4AH	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,305,344:66:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	1	323	18:15:03.866	20UM4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,305,360	11:0
385	1	323	18:15:53.866	20UM4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,305,360	86:0
386	1	323	18:15:59.866	488CL6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,305,361	04:0
387	1	323	18:16:55.200	488CL6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,305,361	87:0
388	1	323	18:17:58.533	176UF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	6,305,363	00:0
389	1	323	19:58:03.866	488CM6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,305,461	90:0
390	1	323	20:01:27.200	488CM6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,305,465	31:0
391	1	324	12:49:17.133	488CN6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	6,306,462	09:0
392	1	324	12:54:47.133	488CN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,306,467	49:0
393	1	324	14:49:59.133	488CN6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,306,581	43:0
394	1	324	18:16:55.133	488CN6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,306,786	12:0
395	1	324	20:07:51.133	488CO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,306,895	77:0
396	1	324	20:21:15.133	488CO6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,306,909	09:0
397	1	324	20:22:47.133	488CO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,306,910	56:0
398	1	324	20:31:19.133	488CO6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,306,919	05:0
399	1	324	22:22:12.466	488CO6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,307,028	66:0
400	1	324	22:35:03.133	488CP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,307,041	39:0
401	1	324	23:37:11.800	488CP6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,307,102	81:0
402	1	325	00:04:01.133	488CP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,307,129	38:0
403	1	325	05:58:18.466	488CQ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,307,479	74:0
404	1	325	06:00:55.133	488CQ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,307,482	36:0
405	1	325	20:04:03.733	488CR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,308,316	25:0
406	1	325	20:14:15.066	488CR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,308,326	32:0
407	1	325	21:05:27.066	488CR6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,308,376	90:0
408	1	326	07:09:11.066	488CS6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,308,974	08:0
409	1	326	10:04:33.066	488CS6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,309,147	48:0
410	1	326	10:06:15.066	488CS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,309,149	19:0
411	1	327	03:44:10.333	488CT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,310,195	46:0
412	1	327	03:55:03.000	488CT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,310,206	24:0
413	1	327	04:59:03.000	488CT6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,310,269	51:0
414	1	327	05:01:59.666	488CT6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,310,272	43:0
415	1	327	05:28:49.000	488CT6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,310,299	00:0
416	1	327	15:07:03.000	488CU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,310,870	80:0
417	1	327	16:04:39.000	488CU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,310,927	77:0
418	1	327	16:13:11.000	488CU6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,310,936	26:0
419	1	327	17:18:19.666	488CU6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,311,000	65:0
420	1	327	17:42:53.000	488CU6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,311,025	00:0
421	1	327	18:12:39.000	488CV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,311,054	40:0
422	1	327	19:57:11.000	488CV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,311,157	75:0
423	1	327	20:50:31.000	488CV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,311,210	52:0
424	1	328	03:29:46.333	488CW6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,311,605	40:0
425	1	328	03:35:51.000	488CW6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,311,611	41:0
426	1	328	08:10:43.600	488CW6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,311,883	28:0
427	1	328	13:22:30.933	488CX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,312,191	61:0
428	1	328	15:47:34.933	488CX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,312,335	13:0
429	1	328	16:04:38.933	488CX6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,312,352	02:0
430	1	328	18:06:14.933	488CX6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,312,472	26:0
431	1	328	19:52:54.933	488CY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,312,577	71:0
432	1	328	20:20:38.933	488CY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,312,605	19:0
433	1	328	21:15:27.600	488CY6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,312,659	38:0
434	1	328	21:44:33.600	488CY6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,312,688	18:0
435	1	328	21:54:30.933	488CY6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,312,698	04:0
436	1	329	02:59:50.933	488CZ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,313,000	02:0
437	1	329	14:06:42.933	488DA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,313,659	51:0
438	1	329	15:21:47.600	488DA6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,313,733	74:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	1	329	15:48:37.533	488DA6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,313,760:32:0	
440	1	329	18:16:54.866	488DA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,313,907:01:0	
441	1	329	19:33:31.533	488DA6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,313,982:71:0	
442	1	329	19:40:06.866	488DB6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,313,989:27:0	
443	1	330	08:41:46.200	488DC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,314,762:33:0	
444	1	330	09:56:43.533	488DC6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,314,836:45:0	
445	1	330	10:23:33.533	488DC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,314,863:03:0	
446	1	330	14:52:06.866	488DD6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,315,128:58:0	
447	1	330	16:13:05.533	488DD6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,315,208:66:0	
448	1	330	16:37:38.866	488DD6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,315,233:01:0	
449	1	330	18:08:22.866	488DD6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,315,322:68:0	
450	1	330	19:46:30.866	488DD6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,315,419:73:0	
451	1	330	19:56:23.533	488DE6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,315,429:52:0	
452	1	330	19:57:10.866	488DE6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,315,430:32:0	
453	1	330	20:05:42.866	488DE6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,315,438:72:0	
454	1	332	02:26:55.466	488DF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,317,239:90:0	
455	1	332	06:07:18.800	488DF6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,317,457:87:0	
456	1	332	09:36:12.800	488DG6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,317,664:51:0	
457	1	332	09:38:30.800	488DG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,317,666:76:0	
458	1	332	19:39:38.733	488DH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,318,261:33:0	
459	1	332	19:50:46.733	488DH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,318,272:34:0	
460	1	332	20:24:54.733	488DH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,318,306:12:0	
461	1	333	06:05:10.733	488DI6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,318,880:02:0	
462	1	333	13:18:14.733	488DJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,319,308:30:0	
463	1	333	14:59:34.733	488DJ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,319,408:50:0	
464	1	333	15:02:46.733	488DJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,319,411:65:0	
465	1	333	19:34:42.733	488DK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,319,680:60:0	
466	1	333	19:55:02.733	488DK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,319,700:70:0	
467	1	333	20:50:04.733	488DK6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,319,755:18:0	
468	1	333	21:19:10.733	488DK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,319,783:89:0	
469	1	333	21:20:22.733	488DK6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,319,785:15:0	
470	1	333	23:19:11.333	488DL6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,319,902:61:0	
471	1	333	23:21:58.666	488DL6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,319,905:39:0	
472	1	334	03:19:44.666	488DL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,320,140:53:0	
473	1	334	03:29:26.666	488DL6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,320,150:16:0	
474	1	334	04:30:03.333	488DL6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,320,210:11:0	
475	1	334	04:52:38.666	488DM6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,320,232:42:0	
476	1	334	04:57:36.666	488DM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,320,237:34:0	
477	1	334	13:56:38.666	488DN6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,320,770:44:0	
478	1	334	15:17:48.000	488DN6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,320,850:68:0	
479	1	334	15:42:20.666	488DN6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,320,875:02:0	
480	1	334	17:57:42.666	488DN6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,321,008:82:0	
481	1	334	19:33:42.666	488DN6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,321,103:77:0	
482	1	334	19:38:54.666	488DO6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,321,108:90:0	
483	1	334	19:46:30.666	488DO6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,321,116:46:0	
484	1	334	21:22:07.333	488DO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,321,211:06:0	
485	1	334	22:36:23.333	488DO6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,321,284:47:0	
486	1	334	22:53:00.000	488DO6E	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	2O0	4	0	6,321,300:86:0	
487	1	334	22:55:04.666	176SG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,321,303:00:0	
488	1	334	23:03:13.333	488DP6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	6,321,311:05:0	
489	1	334	23:24:01.333	20AA4AA	7STAT	10.00,217.9742,4	Stator inertial point	2O0	4	0	6,321,331:57:0	
490	1	334	23:24:13.333	20AA6AA	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	2O0	4	0	6,321,331:75:0	
491	1	334	23:30:00.000	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	6,321,337:49:0	
492	1	334	23:32:00.000	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,321,339:47:0	
493	1	334	23:32:21.333	20AA4AD	7STAT	17.45,217.9742,4	Stator inertial point	2O0	4	0	6,321,339:79:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	1	334	23:36:14.000	474AA416A4E	7BURN	,217.974199,43.6	ALERT -- Thruster fire	2O0	4	0	6,321,343:64:0	
495	1	334	23:44:43.333	20AA4AF	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,321,352:09:0	
496	1	334	23:50:35.333	20AA4AG	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,321,357:82:0	
497	1	335	00:11:51.333	20AA4AJ	7STAT	10.00,217.9742,4	Stator inertial point	2O0	4	0	6,321,378:85:0	
498	1	335	00:12:03.333	20AA6AB	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	2O0	4	0	6,321,379:12:0	
499	1	335	00:17:51.333	20AA4AK	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	6,321,384:79:0	
500	1	335	00:19:50.000	474AA416A4G	7BURN	217.974199,43.68	ALERT -- Thruster fire	2O0	4	0	6,321,386:75:0	
501	1	335	00:29:05.333	20AA4AM	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,321,395:89:0	
502	1	335	00:33:57.333	20AA4AN	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,321,400:72:0	
503	1	335	01:41:29.333	20AB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,321,467:53:0	
504	1	335	01:42:19.333	20AB4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,321,468:37:0	
505	1	335	01:43:56.000	176AA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	6,321,470:00:0	
506	1	335	02:30:18.666	488DP6B	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	2O0	4	0	6,321,515:79:0	
507	1	335	04:01:00.000	488DP6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,321,605:51:0	
508	1	335	04:04:28.666	176SH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	6,321,609:00:0	
509	1	335	05:27:08.000	488DQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,321,690:68:0	
510	1	335	05:39:34.666	488DQ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,321,703:05:0	
511	1	335	13:18:14.600	488DR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,322,156:62:0	
512	1	335	15:10:20.600	488DR6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,322,267:50:0	
513	1	335	22:32:11.266	488DS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,322,704:49:0	
514	1	335	23:46:18.600	488DS6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,322,777:77:0	
515	1	336	00:13:07.933	488DS6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,322,804:34:0	
516	1	336	06:43:34.600	488DT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,323,190:48:0	
517	1	336	08:06:31.933	488DT6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,323,272:52:0	
518	1	336	08:06:46.600	488DT6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,323,272:74:0	
519	1	336	08:15:18.600	488DT6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,323,281:23:0	
520	1	336	21:17:15.200	488DU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,324,054:55:0	
521	1	337	07:36:54.533	488DV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,324,667:41:0	
522	1	337	07:59:04.533	488DV6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,324,689:34:0	
523	1	337	08:04:38.533	488DV6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,324,694:80:0	
524	1	337	12:02:17.200	488DV6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,324,929:83:0	
525	1	337	13:20:22.533	488DV6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,325,007:13:0	
526	1	337	16:15:37.200	488DW6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,325,180:42:0	
527	1	337	16:17:26.533	488DW6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,325,182:24:0	
528	1	338	02:50:00.533	488DX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,325,807:80:0	
529	1	338	03:01:42.533	488DX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,325,819:41:0	
530	1	338	03:20:54.533	488DX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,325,838:40:0	
531	1	338	05:20:22.466	488DX6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,325,956:54:0	
532	1	338	13:13:58.466	488DY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,326,424:90:0	
533	1	338	15:13:26.466	488DY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,326,543:13:0	
534	1	338	15:29:09.800	488DY6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,326,558:63:0	
535	1	338	15:34:46.466	488DY6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,326,564:22:0	
536	1	338	22:27:23.133	488DZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,326,972:29:0	
537	1	338	23:41:07.800	488DZ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,327,045:23:0	
538	1	339	00:07:57.133	488DZ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,327,071:71:0	
539	1	339	02:48:54.466	488DZ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,327,230:88:0	
540	1	339	03:16:38.466	488DZ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,327,258:36:0	
541	1	339	04:11:06.466	488EA6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,327,312:24:0	
542	1	339	04:37:56.466	488EA6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,327,338:73:0	
543	1	339	05:16:06.466	488EA6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,327,376:50:0	
544	1	339	08:21:35.133	488EA6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,327,559:90:0	
545	1	339	08:23:50.466	488EA6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,327,562:20:0	
546	1	339	19:10:06.400	488EB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,328,201:35:0	
547	1	339	19:25:10.400	488EB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,328,216:26:0	
548	1	339	20:24:41.733	488EB6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,328,275:14:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	1	339	20:46:14.400	488EB6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,328,296	42:0
550	1	339	20:51:59.066	488EB6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,328,302	13:0
551	1	340	02:40:37.733	488EC6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,328,646	87:0
552	1	340	04:07:27.066	488EC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,328,732	75:0
553	1	340	05:11:50.400	488EC6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,328,796	46:0
554	1	340	05:52:59.733	488EC6D	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	2O0	4	0	6,328,837	19:0
555	1	340	05:56:49.733	176SE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,328,841	00:0
556	1	340	06:05:59.733	20RA4C	7STAT	5.00,282.37,-22.	Stator inertial point	2O0	4	0	6,328,850	06:0
557	1	340	06:06:11.733	20RA6D	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	2O0	4	0	6,328,850	24:0
558	1	340	06:25:01.733	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	6,328,868	81:0
559	1	340	06:29:59.733	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,328,873	73:0
560	1	340	06:30:19.733	20RA4D	7STAT	17.45,282.37,-22	Stator inertial point	2O0	4	0	6,328,874	12:0
561	1	340	06:34:09.733	490UA412A4E	7VECT		Inert vect update UTC	2O0	4	0	6,328,877	84:0
562	1	340	06:34:13.733	490UA412A4F	7TURN	2,RTH	ALERT Thruster	2O0	4	0	6,328,877	90:0
563	1	340	06:38:01.733	490UA412A406A4A	7STAR	1,1307,23.966,-5	Star catalog update	2O0	4	0	6,328,881	68:0
564	1	340	06:38:03.733	490UA412A406A4B	7STAR	2,333,138.16	Star catalog update	2O0	4	0	6,328,881	71:0
565	1	340	06:38:05.733	490UA412A406A4C	7STAR	3,946,200.64	Star catalog update	2O0	4	0	6,328,881	74:0
566	1	340	06:38:07.733	490UA412A406A4D	7STAR	4,770,213.3312,1	Star catalog update	2O0	4	0	6,328,881	77:0
567	1	340	06:38:09.733	490UA412A406A4E	7STAR	5,112,10.2729,-1	Star catalog update	2O0	4	0	6,328,881	80:0
568	1	340	06:38:11.733	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	2O0	4	0	6,328,881	83:0
569	1	340	06:48:05.733	20RA4F	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,328,891	64:0
570	1	340	06:56:09.733	490UA412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,328,899	62:0
571	1	340	08:30:03.733	20UA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,328,992	50:0
572	1	340	08:30:53.733	20UA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,328,993	34:0
573	1	340	08:30:59.733	488EC6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,328,993	43:0
574	1	340	08:32:32.400	176SK6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	6,328,995	00:0
575	1	340	13:07:34.400	488ED6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,329,267	01:0
576	1	340	15:00:13.066	488ED6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,329,378	38:0
577	1	340	15:02:46.400	488ED6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,329,380	86:0
578	1	341	02:43:23.666	488EE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,330,073	79:0
579	1	341	03:05:58.333	488EE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,330,096	18:0
580	1	341	05:01:10.333	488EE6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,330,210	12:0
581	1	341	08:16:23.000	488EE6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,330,403	18:0
582	1	341	08:17:26.333	488EE6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,330,404	22:0
583	1	341	12:27:31.000	488EF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,330,651	52:0
584	1	341	13:01:10.333	488EF6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,330,684	78:0
585	1	341	17:38:30.333	488EF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,330,959	13:0
586	1	341	17:56:33.666	176UG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,330,977	00:0
587	1	341	18:02:00.333	20UU4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,330,982	35:0
588	1	341	18:03:00.333	20UU4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2O0	4	0	6,330,983	34:0
589	1	341	18:05:00.333	20UU4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,330,985	32:0
590	1	341	18:10:30.333	20UU4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2O0	4	0	6,330,990	72:0
591	1	341	18:10:31.000	20UU4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2O0	4	0	6,330,990	73:0
592	1	341	18:10:51.000	20UU4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2O0	4	0	6,330,991	12:0
593	1	341	18:10:51.666	20UU4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2O0	4	0	6,330,991	13:0
594	1	341	18:11:11.666	20UU4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	6,330,991	43:0
595	1	341	18:11:12.333	20UU4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	6,330,991	44:0
596	1	341	18:11:22.333	20UU4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	6,330,991	59:0
597	1	341	18:11:23.000	20UU4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	6,330,991	60:0
598	1	341	18:11:33.000	20UU4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2O0	4	0	6,330,991	75:0
599	1	341	18:11:33.666	20UU4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2O0	4	0	6,330,991	76:0
600	1	341	18:13:20.333	20UU4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2O0	4	0	6,330,993	54:0
601	1	341	18:13:21.000	20UU4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2O0	4	0	6,330,993	55:0
602	1	341	18:13:41.000	20UU4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2O0	4	0	6,330,993	85:0
603	1	341	18:13:41.666	20UU4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2O0	4	0	6,330,993	86:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
604	1	341	18:14:01.666	20UU4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	6,330,994:25:0
605	1	341	18:14:02.333	20UU4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	6,330,994:26:0
606	1	341	18:14:12.333	20UU4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	6,330,994:41:0
607	1	341	18:14:13.000	20UU4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	6,330,994:42:0
608	1	341	18:14:23.000	20UU4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2O0	4	0	6,330,994:57:0
609	1	341	18:14:23.666	20UU4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2O0	4	0	6,330,994:58:0
610	1	341	18:15:20.333	20UU4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	6,330,995:52:0
611	1	341	18:40:04.333	20UG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,331,020:03:0
612	1	341	18:40:54.333	20UG4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,331,020:78:0
613	1	341	18:42:03.666	176UH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	6,331,022:00:0
614	1	341	19:03:50.333	488EG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,331,043:49:0
615	1	341	19:06:33.000	488EG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,331,046:20:0
616	1	341	19:20:54.333	488EG6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,331,060:38:0
617	1	342	20:23:28.933	488EH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,332,546:44:0
618	1	342	20:35:34.266	488EH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,332,558:40:0
619	1	342	21:35:54.933	488EH6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,332,618:11:0
620	1	342	22:02:44.266	488EH6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,332,644:59:0
621	1	343	06:28:38.266	488EI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,333,144:90:0
622	1	343	07:37:32.933	488EI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,333,213:13:0
623	1	343	07:39:02.266	488EI6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,333,214:56:0
624	1	343	07:47:34.266	488EI6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,333,223:05:0
625	1	343	13:36:44.933	488EJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,333,568:36:0
626	1	343	17:34:14.266	488EJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,333,803:25:0
627	1	343	18:40:48.933	488EJ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,333,869:11:0
628	1	344	04:37:39.533	488EK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,334,459:37:0
629	1	344	05:50:50.866	488EK6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,334,531:72:0
630	1	344	06:17:40.200	488EK6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,334,558:29:0
631	1	344	14:13:42.200	488EL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,335,029:11:0
632	1	344	14:30:46.200	488EL6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,335,046:00:0
633	1	344	15:42:12.866	488EL6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,335,116:60:0
634	1	344	16:06:45.533	488EL6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,335,140:85:0
635	1	344	17:27:50.200	488EL6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,335,221:11:0
636	1	344	18:09:38.200	488EM6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,335,262:42:0
637	1	344	18:12:38.200	488EM6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	6,335,265:39:0
638	1	345	11:16:43.466	488EN6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	6,336,278:24:0
639	1	345	11:25:10.133	488EN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,336,286:56:0
640	1	345	12:35:34.133	488EN6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,336,356:22:0
641	1	345	17:23:34.133	488EO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,336,641:07:0
642	1	345	18:48:54.133	488EO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,336,725:43:0
643	1	345	18:56:45.466	488EO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	6,336,733:22:0
644	1	345	19:05:58.133	488EO6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,336,742:32:0
645	1	345	22:32:44.133	488EO6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,336,946:77:0
646	1	345	23:07:02.133	488EP6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,336,980:70:0
647	1	346	03:18:46.133	488EP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,337,229:67:0
648	1	346	06:00:55.466	488EQ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,337,390:10:0
649	1	346	06:05:10.133	488EQ6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,337,394:28:0
650	1	346	12:46:52.133	488ER6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	6,337,791:54:0
651	**1**	**346**	**15:10:51.400**	**32NNRCTRLT01-**		**-----START------**		**2O0**	**4**	**0**	**: :**
652	1	346	15:10:51.466	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	6,337,934:00:0
653	1	346	15:14:09.466	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	6,337,937:24:0
654	1	346	15:18:16.133	20DA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	6,337,941:30:0
655	1	346	15:19:06.133	20DA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	6,337,942:14:0
656	**1**	**346**	**15:21:58.800**	**185XE10A3A**	**40HRP**		**1 RCT Heater ON (primary relay)**	**2O0**	**4**	**0**	**6,337,945:00:0**
657	**1**	**346**	**15:22:04.133**	**185XE10B3A**	**40HRP**		**2 RCT Heater ON (primary relay)**	**2O0**	**4**	**0**	**6,337,945:08:0**
658	1	346	17:23:34.066	488ER6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,338,065:23:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
659	1	346	18:40:22.733	488ER6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,338,141:20:0
660	1	346	18:42:30.066	488ER6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	6,338,143:29:0
661	1	346	18:48:54.066	488ES6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,338,149:59:0
662	1	346	21:02:46.066	488ES6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,338,282:04:0
663	1	346	22:15:43.400	488ES6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,338,354:18:0
664	1	346	22:42:33.400	488ES6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	6,338,380:67:0
665	**1**	**347**	**03:13:45.400**	**20DC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**260**	**4**	**0**	**6,338,648:87:0**
666	**1**	**347**	**03:13:52.733**	**20DC5B**	**37MRL**		**Memory Realocate (software operates from R**	**260**	**4**	**0**	**6,338,649:07:0**
667	**1**	**347**	**03:14:00.733**	**20DC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**260**	**4**	**0**	**6,338,649:19:0**
668	**1**	**347**	**03:14:10.733**	**20DC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**260**	**4**	**0**	**6,338,649:34:0**
669	**1**	**347**	**03:14:20.733**	**20DC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**6,338,649:49:0**
670	**1**	**347**	**03:14:22.066**	**20DC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**6,338,649:51:0**
671	**1**	**347**	**03:16:45.400**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**6,338,651:84:0**
672	1	347	03:16:45.400	125XE	NIMSINIT	GS	##### GROUP START INIT	260	4	0	6,338,651:84:0
673	**1**	**347**	**03:17:46.066**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**6,338,652:84:0**
674	**1**	**347**	**03:18:46.733**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**6,338,653:84:0**
675	1	347	03:19:47.400	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	6,338,654:84:0
676	**1**	**347**	**03:19:47.400**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**6,338,654:84:0**
677	**1**	**347**	**03:21:48.733**	**127XE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**6,338,656:84:0**
678	1	347	03:21:48.733	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	6,338,656:84:0
679	**1**	**347**	**03:21:49.400**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**6,338,656:85:0**
680	1	347	03:22:09.400	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	6,338,657:24:0
681	**1**	**347**	**03:27:34.066**	**185XE10C3A**	**40HRPR**	**1**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**6,338,662:56:0**
682	**1**	**347**	**03:27:39.400**	**185XE10D3A**	**40HRPR**	**2**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**6,338,662:64:0**
683	1	347	03:32:00.066	192XE4A	**7CONE**	**17.0,0.0**	Check S/P Position	1R3	4	0	6,338,667:00:0
684	**1**	**347**	**03:32:20.066**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**6,338,667:30:0**
685	**1**	**347**	**03:40:24.066**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**6,338,675:28:0**
686	1	347	03:44:08.066	192XE4B	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	6,338,679:00:0
687	**1**	**347**	**03:46:29.400**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**6,338,681:30:0**
688	**1**	**347**	**03:48:29.400**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**6,338,683:28:0**
689	1	347	03:50:12.066	192XE4C	**7CONE**	**17.0,153.0**	Check S/P Position	1R3	4	0	6,338,685:00:0
690	1	347	03:57:12.066	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	6,338,691:84:0
691	**1**	**347**	**03:57:12.066**	**127XF4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**1R0**	**4**	**0**	**6,338,691:84:0**
692	**1**	**347**	**03:57:12.733**	**127XF4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**1R0**	**4**	**0**	**6,338,691:85:0**
693	1	347	03:57:32.733	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R0	4	0	6,338,692:24:0
694	1	347	04:00:14.066	125XF	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	6,338,694:84:0
695	**1**	**347**	**04:00:14.066**	**125XF4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**6,338,694:84:0**
696	**1**	**347**	**04:01:14.733**	**125XF4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**6,338,695:84:0**
697	**1**	**347**	**04:02:15.400**	**125XF4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**1O0**	**4**	**0**	**6,338,696:84:0**
698	1	347	04:02:15.400	125XF11A	NIMSINIT	GE	##### GROUP END INIT	1O0	4	0	6,338,696:84:0
699	1	347	04:18:50.733	20DB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	6,338,713:30:0
700	1	347	04:19:40.733	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,338,714:14:0
701	1	347	04:21:32.733	176XF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	6,338,716:00:0
702	**1**	**347**	**04:21:33.500**	**32NNRCTRLT01-**		**-----STOP-------**		**1O0**	**4**	**0**	**: :**
703	1	347	06:00:31.400	488ET6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,338,813:81:0
704	1	347	06:03:02.066	488ET6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,338,816:34:0
705	1	347	11:57:33.400	176TC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	6,339,167:00:0
706	1	347	15:02:35.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 653.20 +/-	1O0	4	0	6,339,350:00:0
707	1	347	15:02:35.400		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 653.20 +/-	1O0	4	0	6,339,350:00:0
708	1	347	15:02:35.400	465VA6A	6DMST	5000	DMS Slew to TIC	1O0	4	0	6,339,350:00:0
709	1	347	15:02:42.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 653.20 +/-	1O0	4	0	6,339,350:10:0
710	1	347	15:02:43.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 653.32 +/-	1O0	4	0	6,339,350:12:1
711	1	347	18:53:41.400	488EU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,339,578:51:0
712	1	347	19:10:14.066	488EU6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,339,594:84:0
713	1	347	20:11:39.533		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/-	1O0	4	0	6,339,655:61:2

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	1	347	20:11:40.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	1O0	4	0	6,339,655:63:0	
715	1	347	20:56:16.733	465VB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,339,699:73:0	
716	1	347	20:56:16.733		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	1O0	4	0	6,339,699:73:0	
717	1	347	20:56:18.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	1O0	4	0	6,339,699:75:1	
718	1	347	20:56:23.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	1O0	4	0	6,339,699:83:0	
719	1	347	20:56:24.600		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	1O0	4	0	6,339,699:84:8	
720	1	347	20:56:28.466		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	1O0	4	0	6,339,699:90:6	
721	1	347	20:56:28.466		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	1O0	4	0	6,339,699:90:6	
722	1	347	21:22:08.733		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/-	1O0	4	0	6,339,725:35:0	
723	1	347	21:22:08.733	465VB6B	6DMSC	RDY,4	DMS Control Tape stop	1O0	4	0	6,339,725:35:0	
724	1	347	21:22:09.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	1O0	4	0	6,339,725:36:8	
725	1	347	22:45:42.066	488EU6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,339,808:02:0	
726	1	347	23:20:57.400	465VC6A	6DTRN	CMD,6DTRN,465VC6	DMS TRACK TURNAROUND	1O0	4	0	6,339,842:81:0	
727	1	347	23:20:57.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	1O0	4	0	6,339,842:81:0	
728	1	347	23:20:57.400		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	1O0	4	0	6,339,842:81:0	
729	1	347	23:20:58.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	1O0	4	0	6,339,842:83:1	
730	1	347	23:21:04.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	1O0	4	0	6,339,843:00:0	
731	1	347	23:21:05.266		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	1O0	4	0	6,339,843:01:8	
732	1	347	23:21:06.666		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	1O0	4	0	6,339,843:03:9	
733	1	347	23:25:07.333		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	1O0	4	0	6,339,847:00:9	
734	1	347	23:25:08.533		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	1O0	4	0	6,339,847:02:7	
735	1	347	23:25:08.533		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	1O0	4	0	6,339,847:02:7	
736	1	347	23:25:09.400	488EU6D	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	1O0	4	0	6,339,847:04:0	
737	1	347	23:25:09.933		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	1O0	4	0	6,339,847:04:8	
738	1	347	23:25:21.933		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	1O0	4	0	6,339,847:22:8	
739	1	347	23:25:23.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	1O0	4	0	6,339,847:24:6	
740	1	347	23:32:00.733	465VD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,339,853:75:0	
741	1	347	23:32:00.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,339,853:75:0	
742	1	347	23:32:07.400		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,339,853:85:0	
743	1	347	23:32:11.266		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	1O0	4	0	6,339,853:90:8	
744	1	347	23:32:11.266		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	1O0	4	0	6,339,853:90:8	
745	1	348	00:03:54.733		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	1O0	4	0	6,339,885:34:0	
746	1	348	00:03:54.733	465VD6B	6DMSC	RDY,1	DMS Control Tape stop	1O0	4	0	6,339,885:34:0	
747	1	348	00:03:55.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	1O0	4	0	6,339,885:35:8	
748	1	348	00:19:30.733	465VE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,339,900:73:0	
749	1	348	00:19:30.733		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	1O0	4	0	6,339,900:73:0	
750	1	348	00:19:32.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	1O0	4	0	6,339,900:75:1	
751	1	348	00:19:37.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	1O0	4	0	6,339,900:83:0	
752	1	348	00:19:38.600		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	1O0	4	0	6,339,900:84:8	
753	1	348	00:19:42.466		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	1O0	4	0	6,339,900:90:6	
754	1	348	00:19:42.466		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	1O0	4	0	6,339,900:90:6	
755	1	348	00:51:38.733	465VF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,339,932:53:0	
756	1	348	00:51:38.733		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	1O0	4	0	6,339,932:53:0	
757	1	348	00:51:39.933		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	1O0	4	0	6,339,932:54:8	
758	1	348	00:51:43.800		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	1O0	4	0	6,339,932:60:6	
759	1	348	00:51:43.800		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	1O0	4	0	6,339,932:60:6	
760	1	348	01:23:39.400		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	1O0	4	0	6,339,964:22:0	
761	1	348	01:23:39.400	465VF6B	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	6,339,964:22:0	
762	1	348	01:23:40.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	1O0	4	0	6,339,964:23:8	
763	1	348	01:38:22.733	465VG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,339,978:73:0	
764	1	348	01:38:22.733		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	1O0	4	0	6,339,978:73:0	
765	1	348	01:38:24.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	1O0	4	0	6,339,978:75:1	
766	1	348	01:38:29.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	1O0	4	0	6,339,978:83:0	
767	1	348	01:38:30.600		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	1O0	4	0	6,339,978:84:8	
768	1	348	01:38:34.466		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	1O0	4	0	6,339,978:90:6	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
769	1	348	01:38:34.466		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	1O0	4	0	6,339,978:90:6
770	1	348	02:10:30.066		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	1O0	4	0	6,340,010:52:0
771	1	348	02:10:30.066	465VH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,340,010:52:0
772	1	348	02:10:31.266		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	1O0	4	0	6,340,010:53:8
773	1	348	02:10:35.133		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	1O0	4	0	6,340,010:59:6
774	1	348	02:10:35.133		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	1O0	4	0	6,340,010:59:6
775	1	348	02:11:36.066		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	1O0	4	0	6,340,011:60:0
776	1	348	02:11:36.066	465VH6B	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	6,340,011:60:0
777	1	348	02:11:37.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	1O0	4	0	6,340,011:61:8
778	1	348	02:11:39.400	488EV6A	6TMSED	FILL,AH7	Sci, Eng, and D/L Chan	1O0	4	0	6,340,011:65:0
779	1	348	02:11:59.400	488EV6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,340,012:04:0
780	1	348	02:12:38.066	488EV6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,340,012:62:0
781	1	348	02:26:06.000	465VI6A	6DMSC	RDY,4	DMS Control Tape stop	1O0	4	0	6,340,026:00:0
782	1	348	02:26:06.000		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	1O0	4	0	6,340,026:00:0
783	1	348	02:27:00.000		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	1O0	4	0	6,340,026:81:0
784	1	348	02:27:00.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	1O0	4	0	6,340,026:81:0
785	1	348	02:27:00.000	465VJ6A	6DTRN	CMD,6DTRN,465VJ6	DMS TRACK TURNAROUND	1O0	4	0	6,340,026:81:0
786	1	348	02:27:01.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	1O0	4	0	6,340,026:83:1
787	1	348	02:27:06.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	1O0	4	0	6,340,027:00:0
788	1	348	02:27:07.866		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	1O0	4	0	6,340,027:01:8
789	1	348	02:27:09.266		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	1O0	4	0	6,340,027:03:9
790	1	348	02:38:35.066		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	1O0	4	0	6,340,038:31:6
791	1	348	02:38:36.266		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	1O0	4	0	6,340,038:33:4
792	1	348	02:38:36.266		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	1O0	4	0	6,340,038:33:4
793	1	348	02:38:37.666		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	1O0	4	0	6,340,038:35:5
794	1	348	02:38:49.666		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	1O0	4	0	6,340,038:53:5
795	1	348	02:38:50.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	1O0	4	0	6,340,038:55:3
796	1	348	02:53:04.000	20UI4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	6,340,052:61:0
797	1	348	02:53:54.000	20UI4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,340,053:45:0
798	1	348	02:55:25.333	176TB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	6,340,055:00:0
799	1	348	20:52:51.333	488EW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,341,120:54:0
800	1	348	22:05:39.333	488EW6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,341,192:54:0
801	1	348	22:32:29.333	488EW6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,341,219:12:0
802	1	349	02:45:33.333	488EW6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,341,469:38:0
803	1	349	02:48:54.000	488EW6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,341,472:66:0
804	1	349	18:25:32.600	488EX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,342,399:07:0
805	1	349	18:36:05.933	488EX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,342,409:47:0
806	1	349	19:01:41.933	488EX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,342,434:76:0
807	1	349	22:26:29.933	488EX6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,342,637:35:0
808	1	350	02:22:26.600	488EY6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,342,870:67:0
809	1	350	13:27:00.600	488EZ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,343,528:00:0
810	1	350	17:08:37.933	488EZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,343,747:17:0
811	1	350	18:27:33.933	488EZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,343,825:23:0
812	1	350	18:31:35.266	488EZ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,343,829:21:0
813	1	350	18:38:13.933	488EZ6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	6,343,835:73:0
814	1	350	19:14:29.933	488FA6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,343,871:61:0
815	1	351	14:37:02.533	488FB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,345,021:40:0
816	1	351	17:04:21.866	488FB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,345,167:13:0
817	1	351	18:23:17.866	488FB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,345,245:19:0
818	1	351	18:30:19.866	488FB6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,345,252:15:0
819	1	351	18:31:49.866	488FB6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	6,345,253:59:0
820	1	351	18:42:29.866	488FC6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,345,264:18:0
821	1	351	20:47:56.533	488FC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,345,388:24:0
822	1	351	22:00:33.866	488FC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,345,460:08:0
823	1	351	22:27:23.200	488FC6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,345,486:56:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	1	352	02:21:06.533	488FD6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,345,717:70:0	
825	1	352	02:25:25.866	488FD6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,345,722:04:0	
826	1	353	08:02:05.133	488FE6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,347,479:16:0	
827	1	353	12:29:09.800	488FE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,347,743:29:0	
828	1	353	13:31:09.800	488FE6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,347,804:58:0	
829	1	353	13:37:25.800	488FE6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,347,810:76:0	
830	1	353	15:52:05.800	488FF6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,347,944:02:0	
831	1	353	16:53:41.800	488FF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,348,004:86:0	
832	1	353	18:04:05.800	488FF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,348,074:52:0	
833	1	353	18:40:21.733	488FF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,348,110:40:0	
834	1	353	21:56:37.733	488FG6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,348,304:50:0	
835	1	354	03:18:45.733	488FG6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,348,623:13:0	
836	1	354	06:50:30.400	488FH6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,348,832:51:0	
837	1	354	07:17:20.400	488FH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,348,859:09:0	
838	1	354	13:31:10.400	488FI6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,349,228:75:0	
839	1	354	13:37:25.733	488FI6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,349,235:01:0	
840	1	354	22:22:07.066	488FJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,349,753:85:0	
841	1	355	02:36:58.400	488FJ6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,350,005:90:0	
842	1	355	02:38:13.733	488FJ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,350,007:21:0	
843	1	355	13:18:01.000	488FK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,350,639:90:0	
844	1	355	14:30:29.666	488FK6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,350,711:61:0	
845	1	355	14:57:19.000	488FK6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,350,738:18:0	
846	1	355	17:04:21.666	488FK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,350,863:77:0	
847	1	355	18:04:05.666	488FK6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,350,922:84:0	
848	1	355	18:10:33.666	488FL6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,350,929:29:0	
849	1	355	18:12:37.666	488FL6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	6,350,931:33:0	
850	1	355	18:23:17.666	488FL6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,350,941:83:0	
851	1	355	22:22:07.666	488FL6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,351,178:11:0	
852	1	355	22:22:09.666	20TA6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,351,178:14:0	
853	1	356	00:35:00.333	20TA6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,351,309:49:0	
854	1	356	03:14:29.666	488FM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,351,467:25:0	
855	1	356	06:24:21.666	488FM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,351,655:05:0	
856	1	356	06:54:48.333	488FM6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,351,685:15:0	
857	1	356	07:00:37.666	488FM6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,351,690:84:0	
858	1	356	07:52:07.666	488FM6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,351,741:78:0	
859	1	356	07:52:09.666	20TB6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,351,741:81:0	
860	1	356	12:14:13.666	488FN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,352,001:07:0	
861	1	356	12:14:15.666	20TB6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,352,001:10:0	
862	1	356	13:18:13.666	488FN6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,352,064:34:0	
863	1	356	16:43:01.600	488FN6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,352,266:84:0	
864	1	356	17:16:12.933	488FN6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,352,299:68:0	
865	1	356	22:53:02.266	488FO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,352,632:79:0	
866	1	357	00:05:28.933	488FO6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,352,704:47:0	
867	1	357	00:32:18.266	488FO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,352,731:04:0	
868	1	357	05:33:09.600	488FP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,353,028:54:0	
869	1	357	06:32:53.600	488FP6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,353,087:61:0	
870	1	357	06:51:50.933	488FP6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,353,106:38:0	
871	1	357	07:16:23.600	488FP6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,353,130:63:0	
872	1	357	07:53:00.266	488FP6E	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	1O0	4	0	6,353,166:82:0	
873	1	357	07:56:08.266	176UQ6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	6,353,170:00:0	
874	1	357	08:06:00.266	20RB4C	7STAT	5.00,280.11,-23.	Stator inertial point	1O0	4	0	6,353,179:69:0	
875	1	357	08:06:12.266	20RB6D	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	1O0	4	0	6,353,179:87:0	
876	1	357	08:25:02.266	490UB412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	1O0	4	0	6,353,198:53:0	
877	1	357	08:30:00.266	490UB412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	6,353,203:45:0	
878	1	357	08:30:20.266	20RB4D	7STAT	17.45,280.11,-23	Stator inertial point	1O0	4	0	6,353,203:75:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	1	357	08:34:10.266	490UB412A4E	7VECT		Inert vect update UTC	1O0	4	0	6,353,207:56:0	
880	1	357	08:34:14.266	490UB412A4F	7TURN	2,RTH	ALERT Thruster	1O0	4	0	6,353,207:62:0	
881	1	357	08:38:02.266	490UB412A406A4A	7STAR	1,1307,23.966,-5	Star catalog update	1O0	4	0	6,353,211:40:0	
882	1	357	08:38:04.266	490UB412A406A4B	7STAR	2,333,138.16	Star catalog update	1O0	4	0	6,353,211:43:0	
883	1	357	08:38:06.266	490UB412A406A4C	7STAR	3,205,181.44	Star catalog update	1O0	4	0	6,353,211:46:0	
884	1	357	08:38:08.266	490UB412A406A4D	7STAR	4,770,213.3312,1	Star catalog update	1O0	4	0	6,353,211:49:0	
885	1	357	08:38:10.266	490UB412A406A4E	7STAR	5,112,10.2729,-1	Star catalog update	1O0	4	0	6,353,211:52:0	
886	1	357	08:38:12.266	490UB412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	1O0	4	0	6,353,211:55:0	
887	1	357	08:48:06.266	20RB4F	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,353,221:36:0	
888	1	357	08:56:10.266	490UB412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	6,353,229:34:0	
889	1	357	10:30:04.266	20UH4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	6,353,322:22:0	
890	1	357	10:30:54.266	20UH4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,353,323:06:0	
891	1	357	10:31:00.266	488FQ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,353,323:15:0	
892	1	357	10:32:51.600	176UB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	6,353,325:00:0	
893	1	357	12:14:13.600	488FQ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,353,425:23:0	
894	1	357	13:54:29.600	488FQ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,353,524:38:0	
895	1	357	14:09:49.600	488FQ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,353,539:53:0	
896	1	357	14:15:49.600	488FQ6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,353,545:47:0	
897	1	357	20:33:02.266	488FR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,353,918:53:0	
898	1	357	21:45:27.600	488FR6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,353,990:19:0	
899	1	357	22:12:16.933	488FR6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,354,016:67:0	
900	1	358	02:21:13.533	488FR6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,354,262:86:0	
901	1	358	02:25:25.533	488FR6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,354,267:09:0	
902	1	358	06:07:09.533	488FS6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,354,486:36:0	
903	1	358	11:07:36.866	20TC6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,354,783:50:0	
904	1	358	11:17:36.866	488FS6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,354,793:40:0	
905	1	358	13:07:09.533	488FT6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,354,901:71:0	
906	1	358	16:34:29.533	488FT6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,355,106:76:0	
907	1	358	16:56:13.533	488FT6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,355,128:30:0	
908	1	359	02:58:03.533	488FU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,355,723:50:0	
909	1	359	03:27:17.533	488FU6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,355,752:42:0	
910	1	359	07:02:36.866	488FU6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,355,965:38:0	
911	1	360	00:37:10.133	488FV6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,357,008:35:0	
912	1	360	02:59:33.466	488FV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,357,149:19:0	
913	1	360	06:09:25.466	488FV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,357,336:90:0	
914	1	360	06:34:50.800	488FV6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,357,362:12:0	
915	1	360	06:41:25.466	488FW6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,357,368:58:0	
916	1	360	15:37:10.133	488FX6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,357,898:45:0	
917	1	360	16:23:49.466	488FX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,357,944:58:0	
918	1	360	17:34:13.466	488FX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,358,014:24:0	
919	1	360	17:51:17.466	488FX6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,358,031:13:0	
920	1	360	18:49:03.466	488FX6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,358,088:25:0	
921	1	360	19:10:13.466	488FY6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,358,109:19:0	
922	1	360	19:16:15.466	488FY6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,358,115:16:0	
923	1	361	02:26:13.400	488FZ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,358,540:38:0	
924	1	361	02:31:49.400	488FZ6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,358,545:87:0	
925	1	361	15:17:10.066	488GA6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,359,302:81:0	
926	1	361	16:19:33.400	488GA6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,359,364:54:0	
927	1	361	17:27:49.400	488GA6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,359,432:10:0	
928	1	361	18:06:13.400	488GA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,359,470:08:0	
929	1	361	21:11:49.400	488GA6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,359,653:59:0	
930	1	362	02:53:09.400	488GB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,359,991:21:0	
931	1	362	05:58:45.400	488GB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,360,174:72:0	
932	1	362	06:14:50.733	488GB6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,360,190:64:0	
933	1	362	06:22:13.400	488GB6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,360,198:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	1	362	21:03:03.333	488GC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,361,069:14:0	
935	1	362	21:16:05.333	488GC6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,361,082:04:0	
936	1	362	23:56:48.666	176UT6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	6,361,241:00:0	
937	1	363	00:02:00.000	20UV4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,361,246:12:0	
938	1	363	00:03:00.000	20UV4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	1O0	4	0	6,361,247:11:0	
939	1	363	00:05:00.000	20UV4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	6,361,249:09:0	
940	1	363	00:10:30.000	20UV4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	1O0	4	0	6,361,254:49:0	
941	1	363	00:10:30.666	20UV4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	1O0	4	0	6,361,254:50:0	
942	1	363	00:10:50.666	20UV4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	1O0	4	0	6,361,254:80:0	
943	1	363	00:10:51.333	20UV4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	1O0	4	0	6,361,254:81:0	
944	1	363	00:11:11.333	20UV4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	6,361,255:20:0	
945	1	363	00:11:12.000	20UV4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	6,361,255:21:0	
946	1	363	00:11:22.000	20UV4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	6,361,255:36:0	
947	1	363	00:11:22.666	20UV4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	6,361,255:37:0	
948	1	363	00:11:32.666	20UV4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	1O0	4	0	6,361,255:52:0	
949	1	363	00:11:33.333	20UV4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	1O0	4	0	6,361,255:53:0	
950	1	363	00:13:20.000	20UV4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	1O0	4	0	6,361,257:31:0	
951	1	363	00:13:20.666	20UV4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	1O0	4	0	6,361,257:32:0	
952	1	363	00:13:40.666	20UV4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	1O0	4	0	6,361,257:62:0	
953	1	363	00:13:41.333	20UV4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	1O0	4	0	6,361,257:63:0	
954	1	363	00:14:01.333	20UV4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	6,361,258:02:0	
955	1	363	00:14:02.000	20UV4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	6,361,258:03:0	
956	1	363	00:14:12.000	20UV4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	6,361,258:18:0	
957	1	363	00:14:12.666	20UV4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	6,361,258:19:0	
958	1	363	00:14:22.666	20UV4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	1O0	4	0	6,361,258:34:0	
959	1	363	00:14:23.333	20UV4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	1O0	4	0	6,361,258:35:0	
960	1	363	00:15:20.000	20UV4Z	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	6,361,259:29:0	
961	1	363	00:40:04.000	20UX4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	6,361,283:71:0	
962	1	363	00:40:54.000	20UX4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,361,284:55:0	
963	1	363	00:42:18.666	176UU6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	6,361,286:00:0	
964	1	363	02:48:53.333	488GC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,361,411:17:0	
965	1	363	04:14:13.333	488GD6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,361,495:53:0	
966	1	363	11:12:36.666	488GE6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,361,909:34:0	
967	1	363	13:27:10.000	488GE6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,362,042:41:0	
968	1	363	16:08:53.333	488GE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,362,202:36:0	
969	1	363	17:27:49.266	488GF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,362,280:42:0	
970	1	363	17:29:50.600	488GF6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,362,282:42:0	
971	1	363	17:36:21.266	488GF6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,362,288:82:0	
972	1	363	22:13:03.266	488GF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,362,562:51:0	
973	1	363	23:25:27.933	488GF6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,362,634:16:0	
974	1	363	23:52:17.266	488GG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,362,660:64:0	
975	1	364	00:59:59.933	481UA4A	7VECT		Inert vect update UTC	1O0	4	0	6,362,727:61:0	
976	1	364	05:03:17.266	488GG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,362,968:26:0	
977	1	364	06:07:57.266	488GH6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,363,032:22:0	
978	1	364	06:09:25.266	488GH6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,363,033:63:0	
979	1	364	06:17:57.266	488GH6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,363,042:12:0	
980	1	364	12:57:08.600	488GI6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,363,436:85:0	
981	1	364	16:04:37.266	488GI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,363,622:32:0	
982	1	364	17:23:33.266	488GI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,363,700:38:0	
983	1	364	17:24:49.266	488GI6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,363,701:61:0	
984	1	364	17:32:05.266	488GI6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,363,708:78:0	
985	1	364	22:12:08.600	488GJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,363,985:76:0	
986	1	365	02:33:57.266	488GJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,364,244:70:0	
987	1	365	04:41:12.533	488GK6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,364,370:57:0	
988	1	365	04:46:13.200	488GK6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,364,375:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	1	365	12:57:08.533	488GL6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,364,861:10:0	
990	1	365	15:58:13.200	488GL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,365,040:18:0	
991	1	365	17:19:17.200	488GL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,365,120:34:0	
992	1	365	17:22:02.533	488GL6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,365,123:09:0	
993	1	365	17:36:21.200	488GL6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,365,137:23:0	
994	2	1	12:52:07.800	488GM6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,366,280:30:0	
995	2	1	15:53:57.133	488GM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,366,460:14:0	
996	2	1	17:12:53.133	488GM6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,366,538:20:0	
997	2	1	17:17:53.133	488GM6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,366,543:15:0	
998	2	1	17:19:17.133	488GM6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,366,544:50:0	
999	2	2	17:00:39.133	488GN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,367,950:27:0	
1000	2	2	17:17:09.133	488GN6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,367,966:56:0	
1001	2	2	18:19:07.800	488GN6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,368,027:83:0	
1002	2	2	18:40:21.133	488GN6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,368,048:82:0	
1003	2	2	18:46:20.466	488GN6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,368,054:75:0	
1004	2	3	05:10:31.733	488GO6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,368,672:14:0	
1005	2	3	05:42:21.066	488GO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,368,703:57:0	
1006	2	3	11:01:09.733	488GO6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,369,018:85:0	
1007	2	3	20:42:58.400	488GP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,369,594:32:0	
1008	2	3	20:56:53.066	488GP6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,369,608:10:0	
1009	2	4	02:08:21.066	488GP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,369,916:14:0	
1010	2	4	05:28:53.066	488GQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,370,114:44:0	
1011	2	4	05:54:43.733	488GQ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,370,140:04:0	
1012	2	4	06:03:50.400	488GQ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,370,149:05:0	
1013	2	4	06:15:49.066	488GQ6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,370,160:82:0	
1014	2	4	11:14:29.000	488GQ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,370,456:26:0	
1015	**2**	**4**	**12:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**1O0**	**4**	**0**	**6,370,501:27:5**	
1016	**2**	**4**	**12:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**1O0**	**4**	**0**	**6,370,501:27:5**	
1017	**2**	**4**	**12:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**	
1018	**2**	**4**	**12:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**	
1019	**2**	**4**	**12:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**	
1020	**2**	**4**	**12:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**	
1021	**2**	**4**	**12:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**	
1022	**2**	**4**	**12:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**	
1023	**2**	**4**	**12:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**6,370,501:27:5**	
1024	2	4	12:00:00.333		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,370,501:28:0	

			Sequence:	I32C-AR		Created: 3/13/02	Begin: 02-004/12:00:00 Finish: 02-015/02:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	**2**	**4**	**12:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**1O0**	**4**	**0**	**6,370,501:27:5**
2	**2**	**4**	**12:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**6,370,501:27:5**
3	**2**	**4**	**12:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**1O0**	**4**	**0**	**6,370,501:27:5**
4	**2**	**4**	**12:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**
5	**2**	**4**	**12:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**
6	**2**	**4**	**12:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**
7	**2**	**4**	**12:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**
8	**2**	**4**	**12:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**
9	**2**	**4**	**12:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**6,370,501:27:5**
10	2	4	12:00:00.333		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,370,501:28:0
11	2	4	12:01:25.000	488AA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,370,502:64:0
12	2	4	12:02:43.000	432JA431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	1O0	4	0	6,370,503:90:0
13	2	4	12:02:43.666	432JA6A	6RTSL1		R/T Select of DDS and	1O0	4	0	6,370,504:00:0
14	2	4	12:02:43.666	432JA6B	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	1O0	4	0	6,370,504:00:0
15	2	4	12:31:07.666	488AA6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,370,532:08:0
16	2	4	12:35:33.000	488AA6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,370,536:42:0
17	2	4	12:42:03.666	488AA6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,370,542:82:0
18	2	4	15:39:01.000	488AA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,370,717:83:0
19	2	4	16:57:57.000	488AB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,370,795:89:0
20	2	4	17:02:52.333	488AB6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,370,800:77:0
21	2	4	17:04:21.000	488AB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,370,802:28:0
22	2	4	17:12:53.000	488AB6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,370,810:68:0
23	2	4	21:47:56.333	488AB6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,371,082:71:0
24	2	4	23:00:33.666	488AC6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,371,154:55:0
25	2	4	23:27:23.000	488AC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,371,181:12:0
26	2	5	03:48:37.000	488AC6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,371,439:45:0
27	2	5	05:06:57.000	488AD6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,371,516:88:0
28	2	5	05:31:29.666	488AD6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,371,541:22:0
29	2	5	11:02:29.666	488AD6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,371,868:55:0
30	2	5	12:42:01.666	488AE6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,371,967:04:0
31	2	5	15:32:37.000	488AE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,372,135:69:0
32	2	5	16:57:36.333	488AE6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,372,219:74:0
33	2	5	16:57:57.000	488AE6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,372,220:14:0
34	2	5	17:06:29.000	488AE6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,372,228:54:0
35	2	5	20:17:54.933	488AF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,372,417:84:0
36	2	5	21:30:35.600	488AF6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,372,489:73:0
37	2	5	21:57:24.933	488AF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,372,516:30:0
38	2	6	02:46:04.933	488AG6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,372,801:75:0
39	2	6	02:51:00.933	488AG6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,372,806:64:0
40	2	6	04:12:00.933	488AG6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,372,886:74:0
41	2	6	11:03:48.933	488AH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,373,294:08:0
42	2	6	12:29:08.933	488AH6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,373,378:44:0
43	2	6	15:28:20.933	488AH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,373,555:65:0
44	2	6	16:52:57.600	488AH6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,373,639:36:0
45	2	6	16:53:40.933	488AH6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,373,640:10:0
46	2	6	17:02:12.933	488AI6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,373,648:50:0
47	2	6	19:57:52.933	488AI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,373,822:26:0
48	2	6	21:10:36.933	488AI6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,373,894:20:0
49	2	6	21:37:26.266	488AI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,373,920:68:0
50	2	7	05:30:37.533	488AJ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,374,388:67:0
51	2	7	06:02:27.533	488AJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,374,420:20:0
52	2	7	12:12:04.866	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,374,785:71:0
53	2	7	12:18:28.866	488AK6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,374,792:10:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	2	7	14:02:01.533	488AK6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,374,894	47:0
55	2	7	14:26:34.866	488AK6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,374,918	73:0
56	2	7	15:24:04.866	488AK6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,374,975	61:0
57	2	7	16:49:24.866	488AL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,375,060	06:0
58	2	7	16:51:52.200	488AL6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,375,062	45:0
59	2	7	17:06:28.866	488AL6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,375,076	86:0
60	2	8	00:28:44.866	488AM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,375,514	32:0
61	2	8	00:40:52.866	488AM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,375,526	32:0
62	2	8	02:25:24.866	488AM6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,375,629	67:0
63	2	8	10:53:08.866	488AN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,376,131	81:0
64	2	8	10:56:00.866	488AN6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,376,134	66:0
65	2	8	11:01:40.866	488AN6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,376,140	30:0
66	2	8	22:16:56.133	488AO6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,376,808	15:0
67	2	9	01:27:48.800	488AO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,376,996	86:0
68	2	9	05:03:16.800	488AP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,377,210	04:0
69	2	9	05:34:35.466	488AP6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,377,241	01:0
70	2	9	05:41:40.800	488AP6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,377,248	02:0
71	2	9	05:57:48.133	488AP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,377,263	88:0
72	2	9	07:10:41.466	488AP6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,377,336	05:0
73	2	9	07:37:31.466	488AQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,377,362	54:0
74	2	9	12:03:32.800	488AQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,377,625	63:0
75	2	9	12:48:50.800	488AQ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,377,670	45:0
76	2	9	12:52:36.800	488AQ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,377,674	20:0
77	2	9	16:25:27.466	488AR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,377,884	66:0
78	2	9	16:45:08.800	488AR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,377,904	18:0
79	2	9	17:44:19.466	488AR6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,377,962	66:0
80	2	9	18:06:12.800	488AR6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,377,984	34:0
81	2	9	18:11:42.133	488AR6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,377,989	73:0
82	2	10	04:07:48.733	488AS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,378,579	33:0
83	2	10	05:18:12.733	488AS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,378,648	90:0
84	2	10	05:26:35.400	488AS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,378,657	25:0
85	2	10	05:50:12.733	488AS6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,378,680	58:0
86	2	10	09:02:45.400	488AS6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,378,871	06:0
87	2	10	09:53:00.066	488AT6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	6,378,920	69:0
88	2	10	09:56:16.733	176UR6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	6,378,924	00:0
89	2	10	10:06:00.066	20RC4C	7STAT	5.00,277.83,-23.	Stator inertial point	1O0	4	0	6,378,933	56:0
90	2	10	10:06:12.066	20RC6D	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	1O0	4	0	6,378,933	74:0
91	2	10	10:25:02.066	490UC412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	1O0	4	0	6,378,952	40:0
92	2	10	10:25:24.733	488AT6B	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	1O0	4	0	6,378,952	74:0
93	2	10	10:30:00.066	490UC412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	6,378,957	32:0
94	2	10	10:30:20.066	20RC4D	7STAT	17.45,277.83,-23	Stator inertial point	1O0	4	0	6,378,957	62:0
95	2	10	10:34:10.066	490UC412A4E	7VECT		Inert vect update UTC	1O0	4	0	6,378,961	43:0
96	2	10	10:34:14.066	490UC412A4F	7TURN	2,RTH	ALERT Thruster	1O0	4	0	6,378,961	49:0
97	2	10	10:38:02.066	490UC412A406A4A	7STAR	1,1235,23.966,-5	Star catalog update	1O0	4	0	6,378,965	27:0
98	2	10	10:38:04.066	490UC412A406A4B	7STAR	2,333,138.16	Star catalog update	1O0	4	0	6,378,965	30:0
99	2	10	10:38:06.066	490UC412A406A4C	7STAR	3,110,186.82	Star catalog update	1O0	4	0	6,378,965	33:0
100	2	10	10:38:08.066	490UC412A406A4D	7STAR	4,185,345.57	Star catalog update	1O0	4	0	6,378,965	36:0
101	2	10	10:38:10.066	490UC412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	1O0	4	0	6,378,965	39:0
102	2	10	10:38:12.066	490UC412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	1O0	4	0	6,378,965	42:0
103	2	10	10:48:06.066	20RC4F	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,378,975	23:0
104	2	10	10:56:10.066	490UC412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	6,378,983	21:0
105	2	10	12:30:04.066	20UK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	6,379,076	09:0
106	2	10	12:30:54.066	20UK4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	6,379,076	84:0
107	2	10	12:31:00.066	488AT6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,379,077	02:0
108	2	10	12:33:00.066	176UC6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	6,379,079	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	2	10	15:09:08.733	488AT6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,379,233:39:0	
110	2	10	16:32:20.733	488AU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,379,315:65:0	
111	2	10	16:51:32.733	488AU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,379,334:64:0	
112	2	10	17:44:22.733	488AU6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,379,386:87:0	
113	2	10	18:06:12.733	488AU6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,379,408:50:0	
114	2	10	18:11:44.733	488AU6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,379,414:02:0	
115	2	11	04:03:32.733	488AV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,379,999:29:0	
116	2	11	04:37:40.733	488AV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,380,033:07:0	
117	2	11	05:25:46.733	488AV6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,380,080:59:0	
118	2	11	06:17:36.066	488AV6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,380,131:82:0	
119	2	11	10:00:00.066	481UB4A	7VECT	BB1	Inert vect update UTC	1O0	4	0	6,380,351:78:0	
120	2	11	10:15:53.400	488AW6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,380,367:52:0	
121	2	11	19:52:42.000	488AX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,380,938:04:0	
122	2	11	20:56:52.666	488AX6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,381,001:47:0	
123	2	12	00:47:16.666	488AX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,381,229:35:0	
124	2	12	04:48:20.666	488AY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,381,467:73:0	
125	2	12	05:13:56.666	488AY6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,381,493:11:0	
126	2	12	10:33:56.666	488AY6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,381,809:55:0	
127	2	12	11:00:50.666	488AZ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,381,836:19:0	
128	2	12	20:22:39.333	488BA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,382,391:77:0	
129	2	12	21:35:51.933	488BA6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,382,464:23:0	
130	2	12	22:02:41.266	488BA6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,382,490:71:0	
131	2	13	03:20:52.600	488BB6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,382,805:43:0	
132	2	13	03:52:41.933	488BB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,382,836:86:0	
133	2	13	11:42:12.600	488BC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,383,301:27:0	
134	2	13	12:32:20.600	488BC6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,383,350:80:0	
135	2	13	12:33:24.600	488BC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,383,351:85:0	
136	2	13	12:41:56.600	488BC6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,383,360:34:0	
137	2	13	19:57:35.933	488BD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,383,791:22:0	
138	2	13	21:10:54.600	488BD6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,383,863:68:0	
139	2	13	21:37:43.933	488BD6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,383,890:25:0	
140	2	14	01:49:13.266	176SJ6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	1O0	4	0	6,384,139:00:0	
141	2	14	03:48:36.600	488BE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,384,257:07:0	
142	2	14	04:05:40.600	488BE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,384,273:87:0	
143	2	14	05:10:55.933	488BE6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,384,338:45:0	
144	2	14	05:42:45.266	488BE6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,384,369:88:0	
145	2	14	06:03:59.933	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	1O0	4	0	6,384,390:89:0	
146	2	14	06:07:11.266	20YC6A	6HICON			1O0	4	0	6,384,394:12:0	
147	2	14	06:08:03.933	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	1O0	4	0	6,384,395:00:0	
148	2	14	08:24:33.866		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,384,530:00:0	
149	2	14	08:24:33.866		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,384,530:00:0	
150	2	14	08:24:33.866		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,384,530:00:0	
151	2	14	08:24:33.866	465WA6A	6DMST	5050	DMS Slew to TIC	1O0	4	0	6,384,530:00:0	
152	2	14	08:24:40.533		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,384,530:10:0	
153	2	14	08:24:41.933		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	1O0	4	0	6,384,530:12:1	
154	2	14	11:00:44.533	488BF6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,384,684:42:0	
155	2	14	11:05:56.533	488BF6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,384,689:55:0	
156	2	14	12:21:40.533	488BF6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	6,384,764:46:0	
157	2	14	14:09:16.000		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *5047.94 +/-	1O0	4	0	6,384,870:83:2	
158	2	14	14:09:17.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5048.00 +/-	1O0	4	0	6,384,870:85:0	
159	2	14	14:22:17.866		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 5048.00 +/-	1O0	4	0	6,384,883:73:0	
160	2	14	14:22:17.866	465WB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,384,883:73:0	
161	2	14	14:22:19.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5048.12 +/-	1O0	4	0	6,384,883:75:1	
162	2	14	14:22:24.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5049.35 +/-	1O0	4	0	6,384,883:83:0	
163	2	14	14:22:25.733		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *5049.41 +/-	1O0	4	0	6,384,883:84:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	2	14	14:22:29.600		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *5043.91 +/-	1O0	4	0	6,384,883:90:6	
165	2	14	14:22:29.600		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 5043.91 +/-	1O0	4	0	6,384,883:90:6	
166	2	14	14:43:32.533	488BF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,384,904:74:0	
167	2	14	14:48:09.866		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 305.79 +/-	1O0	4	0	6,384,909:35:0	
168	2	14	14:48:09.866	465WB6B	6DMSC	RDY,4	DMS Control Tape stop	1O0	4	0	6,384,909:35:0	
169	2	14	14:48:11.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 304.99 +/-	1O0	4	0	6,384,909:36:8	
170	2	14	16:08:52.533	488BF6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	6,384,989:19:0	
171	2	14	16:25:56.533	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	6,385,006:08:0	
172	2	14	16:46:58.533	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	1O0	4	0	6,385,026:81:0	
173	2	14	16:46:58.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 304.99 +/-	1O0	4	0	6,385,026:81:0	
174	2	14	16:46:58.533		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 304.99 +/-	1O0	4	0	6,385,026:81:0	
175	2	14	16:46:59.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 305.11 +/-	1O0	4	0	6,385,026:83:1	
176	2	14	16:47:05.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 306.34 +/-	1O0	4	0	6,385,027:00:0	
177	2	14	16:47:06.400		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 306.40 +/-	1O0	4	0	6,385,027:01:8	
178	2	14	16:47:07.800		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 306.28 +/-	1O0	4	0	6,385,027:03:9	
179	2	14	16:54:41.800		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	1O0	4	0	6,385,034:47:9	
180	2	14	16:54:43.000		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	1O0	4	0	6,385,034:49:7	
181	2	14	16:54:43.000		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	1O0	4	0	6,385,034:49:7	
182	2	14	16:54:44.400		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	1O0	4	0	6,385,034:51:8	
183	2	14	16:54:56.400		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	1O0	4	0	6,385,034:69:8	
184	2	14	16:54:57.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	1O0	4	0	6,385,034:71:6	
185	2	14	16:55:09.200	488BG6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	1O0	4	0	6,385,034:89:0	
186	2	14	17:01:03.866		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,385,040:75:0	
187	2	14	17:01:03.866	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,385,040:75:0	
188	2	14	17:01:10.533		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,385,040:85:0	
189	2	14	17:01:14.400		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	1O0	4	0	6,385,040:90:8	
190	2	14	17:01:14.400		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	1O0	4	0	6,385,040:90:8	
191	2	14	17:24:33.200	488BG6C	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	1O0	4	0	6,385,064:05:0	
192	2	14	17:32:57.866		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	1O0	4	0	6,385,072:34:0	
193	2	14	17:32:57.866	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	1O0	4	0	6,385,072:34:0	
194	2	14	17:32:59.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	1O0	4	0	6,385,072:35:8	
195	2	14	17:47:00.533	488BG6D	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	1O0	4	0	6,385,086:24:0	
196	2	14	17:48:33.866	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,385,087:73:0	
197	2	14	17:48:33.866		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	1O0	4	0	6,385,087:73:0	
198	2	14	17:48:35.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	1O0	4	0	6,385,087:75:1	
199	2	14	17:48:40.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	1O0	4	0	6,385,087:83:0	
200	2	14	17:48:41.733		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	1O0	4	0	6,385,087:84:8	
201	2	14	17:48:45.600		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	1O0	4	0	6,385,087:90:6	
202	2	14	17:48:45.600		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	1O0	4	0	6,385,087:90:6	
203	2	14	17:52:04.533	488BG6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	6,385,091:25:0	
204	2	14	18:20:41.866		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	1O0	4	0	6,385,119:53:0	
205	2	14	18:20:41.866	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,385,119:53:0	
206	2	14	18:20:43.066		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	1O0	4	0	6,385,119:54:8	
207	2	14	18:20:46.933		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	1O0	4	0	6,385,119:60:6	
208	2	14	18:20:46.933		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	1O0	4	0	6,385,119:60:6	
209	2	14	18:52:42.533	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	6,385,151:22:0	
210	2	14	18:52:42.533		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	1O0	4	0	6,385,151:22:0	
211	2	14	18:52:43.733		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	1O0	4	0	6,385,151:23:8	
212	2	14	19:07:25.866		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	1O0	4	0	6,385,165:73:0	
213	2	14	19:07:25.866	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,385,165:73:0	
214	2	14	19:07:27.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	1O0	4	0	6,385,165:75:1	
215	2	14	19:07:32.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	1O0	4	0	6,385,165:83:0	
216	2	14	19:07:33.733		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	1O0	4	0	6,385,165:84:8	
217	2	14	19:07:37.600		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	1O0	4	0	6,385,165:90:6	
218	2	14	19:07:37.600		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	1O0	4	0	6,385,165:90:6	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	2	14	19:39:33.200	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	1O0	4	0	6,385,197:52:0	
220	2	14	19:39:33.200		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	1O0	4	0	6,385,197:52:0	
221	2	14	19:39:34.400		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	1O0	4	0	6,385,197:53:8	
222	2	14	19:39:38.266		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	1O0	4	0	6,385,197:59:6	
223	2	14	19:39:38.266		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	1O0	4	0	6,385,197:59:6	
224	2	14	19:40:39.200	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	6,385,198:60:0	
225	2	14	19:40:39.200		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	1O0	4	0	6,385,198:60:0	
226	2	14	19:40:40.400		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	1O0	4	0	6,385,198:61:8	
227	2	14	19:55:09.200		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	1O0	4	0	6,385,213:00:0	
228	2	14	19:55:09.200	465WI6A	6DMSC	RDY,4	DMS Control Tape stop	1O0	4	0	6,385,213:00:0	
229	2	14	19:56:03.200		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	1O0	4	0	6,385,213:81:0	
230	2	14	19:56:03.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	1O0	4	0	6,385,213:81:0	
231	2	14	19:56:03.200	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	1O0	4	0	6,385,213:81:0	
232	2	14	19:56:04.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	1O0	4	0	6,385,213:83:1	
233	2	14	19:56:09.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	1O0	4	0	6,385,214:00:0	
234	2	14	19:56:11.066		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	1O0	4	0	6,385,214:01:8	
235	2	14	19:56:12.466		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	1O0	4	0	6,385,214:03:9	
236	2	14	20:07:38.266		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	1O0	4	0	6,385,225:31:6	
237	2	14	20:07:39.466		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	1O0	4	0	6,385,225:33:4	
238	2	14	20:07:39.466		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	1O0	4	0	6,385,225:33:4	
239	2	14	20:07:40.866		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	1O0	4	0	6,385,225:35:5	
240	2	14	20:07:52.866		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	1O0	4	0	6,385,225:53:5	
241	2	14	20:07:54.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	1O0	4	0	6,385,225:55:3	
242	2	15	01:30:59.866	488BH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	6,385,545:14:0	
243	2	15	01:59:59.866		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	1O0	4	0	6,385,573:76:0	
244	**2**	**15**	**02:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**	
245	**2**	**15**	**02:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**	
246	**2**	**15**	**02:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**	
247	**2**	**15**	**02:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**	
248	**2**	**15**	**02:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**	
249	**2**	**15**	**02:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**1O0**	**4**	**0**	**6,385,573:76:2**	
250	**2**	**15**	**02:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**1O0**	**4**	**0**	**6,385,573:76:2**	
251	**2**	**15**	**02:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**6,385,573:76:2**	
252	**2**	**15**	**02:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**6,385,573:76:2**	

32INTHPELE01

OAPEL: 32INTHPELE01 ALIAS: 32INTHPELE01
EXT: A PSID: DA
SCLK1: 06255877:89:0 SCLK2: 06255881:85:0
SCET1: 01-289/00:23:09.466 SCET2: 01-289/00:27:08.800
TARGET: IO 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: 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	00000	0,0000,0000,0000,0000
2	039FF	0,0011,1001,1111,1111
3	00000	0,0000,0000,0000,0000
4	039FF	0,0011,1001,1111,1111
5	00000	0,0000,0000,0000,0000
6	039FF	0,0011,1001,1111,1111
7	00000	0,0000,0000,0000,0000
8	039FF	0,0011,1001,1111,1111
9	00000	0,0000,0000,0000,0000
10	039FF	0,0011,1001,1111,1111
11	00000	0,0000,0000,0000,0000
12	039FF	0,0011,1001,1111,1111
13	00000	0,0000,0000,0000,0000
14	039FF	0,0011,1001,1111,1111
15	00000	0,0000,0000,0000,0000
16	039FF	0,0011,1001,1111,1111
17	00000	0,0000,0000,0000,0000
18	039FF	0,0011,1001,1111,1111
19	00000	0,0000,0000,0000,0000
20	039FF	0,0011,1001,1111,1111
21	00000	0,0000,0000,0000,0000
22	039FF	0,0011,1001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHPELE01

OAPEL: 32INTHPELE01 ALIAS: 32INTHPELE01
EXT: B PSID: DA
SCLK1: 06255877:89:0 SCLK2: 06255881:85:0
SCET1: 01-289/00:23:09.466 SCET2: 01-289/00:27:08.800
TARGET: IO 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: 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	00000	0,0000,0000,0000,0000
15	039FF	0,0011,1001,1111,1111
16	00000	0,0000,0000,0000,0000
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	00000	0,0000,0000,0000,0000
21	039FF	0,0011,1001,1111,1111
22	00000	0,0000,0000,0000,0000
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHPELE01

OAPEL: 32INTHPELE01 ALIAS: 32INTHPELE01
EXT: C PSID: DA
SCLK1: 06255877:89:0 SCLK2: 06255881:85:0
SCET1: 01-289/00:23:09.466 SCET2: 01-289/00:27:08.800
TARGET: IO 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: 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: 288 TLMFMT: MPW

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

WETGID: 0326288001 03 26 288 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHPELE01

OAPEL: 32INTHPELE01 ALIAS: 32INTHPELE01
EXT: D PSID: DA
SCLK1: 06255877:89:0 SCLK2: 06255881:85:0
SCET1: 01-289/00:23:09.466 SCET2: 01-289/00:27:08.800
TARGET: IO 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: 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: 72 TLMFMT: MPW

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

WETGID: 0326072001 03 26 072 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHPELE01

OAPEL: 32INTHPELE01 ALIAS: 32INTHPELE01
EXT: I PSID: DA
SCLK1: 06255877:89:0 SCLK2: 06255881:85:0
SCET1: 01-289/00:23:09.466 SCET2: 01-289/00:27:08.800
TARGET: IO 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: 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: 360 TLMFMT: MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

32INTHLOKI01

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OAPEL:  32INTHLOKI01              ALIAS:  32INTHLOKI01
EXT:    A                         PSID:   DB
SCLK1:  06255908:89:0             SCLK2:  06255918:87:0
SCET1:    01-289/00:54:29.466     SCET2:    01-289/01:04:34.800
TARGET: IO                        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:        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:   144                   TLMFMT:     MPW

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

WETGID:     0326144001          03  26  144  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	00000	0,0000,0000,0000,0000
2	039FF	0,0011,1001,1111,1111
3	00000	0,0000,0000,0000,0000
4	039FF	0,0011,1001,1111,1111
5	00000	0,0000,0000,0000,0000
6	039FF	0,0011,1001,1111,1111
7	00000	0,0000,0000,0000,0000
8	039FF	0,0011,1001,1111,1111
9	00000	0,0000,0000,0000,0000
10	039FF	0,0011,1001,1111,1111
11	00000	0,0000,0000,0000,0000
12	039FF	0,0011,1001,1111,1111
13	00000	0,0000,0000,0000,0000
14	039FF	0,0011,1001,1111,1111
15	00000	0,0000,0000,0000,0000
16	039FF	0,0011,1001,1111,1111
17	00000	0,0000,0000,0000,0000
18	039FF	0,0011,1001,1111,1111
19	00000	0,0000,0000,0000,0000
20	039FF	0,0011,1001,1111,1111
21	00000	0,0000,0000,0000,0000
22	039FF	0,0011,1001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHLOKI01

OAPEL: 32INTHLOKI01 ALIAS: 32INTHLOKI01
EXT: B PSID: DB
SCLK1: 06255908:89:0 SCLK2: 06255918:87:0
SCET1: 01-289/00:54:29.466 SCET2: 01-289/01:04:34.800
TARGET: IO 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: 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	00000	0,0000,0000,0000,0000
15	039FF	0,0011,1001,1111,1111
16	00000	0,0000,0000,0000,0000
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	00000	0,0000,0000,0000,0000
21	039FF	0,0011,1001,1111,1111
22	00000	0,0000,0000,0000,0000
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHLOKI01

```
OAPEL:  32INTHLOKI01              ALIAS:  32INTHLOKI01
EXT:    C                         PSID:   DB
SCLK1:  06255908:89:0             SCLK2:  06255918:87:0
SCET1:    01-289/00:54:29.466     SCET2:    01-289/01:04:34.800
TARGET: IO                        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:        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:   288                   TLMFMT:     MPW

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

WETGID:     0326288001          03  26  288  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHLOKI01

OAPEL: 32INTHLOKI01 ALIAS: 32INTHLOKI01
EXT: D PSID: DB
SCLK1: 06255908:89:0 SCLK2: 06255918:87:0
SCET1: 01-289/00:54:29.466 SCET2: 01-289/01:04:34.800
TARGET: IO 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: 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: 72 TLMFMT: MPW

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

WETGID: 0326072001 03 26 072 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHLOKI01

```
OAPEL:  32INTHLOKI01              ALIAS:  32INTHLOKI01
EXT:    I                         PSID:   DB
SCLK1:  06255908:89:0             SCLK2:  06255918:87:0
SCET1:    01-289/00:54:29.466     SCET2:    01-289/01:04:34.800
TARGET: IO                        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:        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:   360                   TLMFMT:     MPW

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

WETGID:     0326360001          03  26  360  001
WTGRP_SIZ:  26
```

EDIT TABLE

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

32INPELE__01

```
OAPEL:  32INPELE__01            ALIAS:  32ISPELE__01
EXT:    A                       PSID:   IB
SCLK1:  06255921:67:0           SCLK2:  06255921:87:0
SCET1:    01-289/01:07:24.000   SCET2:    01-289/01:07:37.466
TARGET: IO                      PARTITION: 1

MODE:       0                   GAIN:       2
CHOP:       2                   GRAT_OFF:   4
PTAB_A:     1 0 0 0 012         PTAB_B:     1 0 0 0 012
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:    15                 TLMFMT:     IM8

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

WETGID:     0013195001          00  13  195  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111

32INTHPELE02

```
OAPEL:  32INTHPELE02              ALIAS:  32INTHPELE02
EXT:    A                         PSID:   DC
SCLK1:  06255922:89:0             SCLK2:  06255928:78:0
SCET1:    01-289/01:08:38.800     SCET2:    01-289/01:14:35.466
TARGET: IO                        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:        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:   144                   TLMFMT:     MPW

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

WETGID:     0326144001          03  26  144  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	00000	0,0000,0000,0000,0000
2	039FF	0,0011,1001,1111,1111
3	00000	0,0000,0000,0000,0000
4	039FF	0,0011,1001,1111,1111
5	00000	0,0000,0000,0000,0000
6	039FF	0,0011,1001,1111,1111
7	00000	0,0000,0000,0000,0000
8	039FF	0,0011,1001,1111,1111
9	00000	0,0000,0000,0000,0000
10	039FF	0,0011,1001,1111,1111
11	00000	0,0000,0000,0000,0000
12	039FF	0,0011,1001,1111,1111
13	00000	0,0000,0000,0000,0000
14	039FF	0,0011,1001,1111,1111
15	00000	0,0000,0000,0000,0000
16	039FF	0,0011,1001,1111,1111
17	00000	0,0000,0000,0000,0000
18	039FF	0,0011,1001,1111,1111
19	00000	0,0000,0000,0000,0000
20	039FF	0,0011,1001,1111,1111
21	00000	0,0000,0000,0000,0000
22	039FF	0,0011,1001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHPELE02

OAPEL: 32INTHPELE02 ALIAS: 32INTHPELE02
EXT: B PSID: DC
SCLK1: 06255922:89:0 SCLK2: 06255928:78:0
SCET1: 01-289/01:08:38.800 SCET2: 01-289/01:14:35.466
TARGET: IO 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: 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	00000	0,0000,0000,0000,0000
15	039FF	0,0011,1001,1111,1111
16	00000	0,0000,0000,0000,0000
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	00000	0,0000,0000,0000,0000
21	039FF	0,0011,1001,1111,1111
22	00000	0,0000,0000,0000,0000
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHPELE02

```
OAPEL:  32INTHPELE02              ALIAS:  32INTHPELE02
EXT:    C                         PSID:   DC
SCLK1:  06255922:89:0             SCLK2:  06255928:78:0
SCET1:    01-289/01:08:38.800     SCET2:    01-289/01:14:35.466
TARGET: IO                        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:        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:   288                   TLMFMT:     MPW

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

WETGID:     0326288001          03  26  288  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHPELE02

OAPEL: 32INTHPELE02 ALIAS: 32INTHPELE02
EXT: D PSID: DC
SCLK1: 06255922:89:0 SCLK2: 06255928:78:0
SCET1: 01-289/01:08:38.800 SCET2: 01-289/01:14:35.466
TARGET: IO 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: 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: 72 TLMFMT: MPW

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

WETGID: 0326072001 03 26 072 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHPELE02

OAPEL: 32INTHPELE02 ALIAS: 32INTHPELE02
EXT: I PSID: DC
SCLK1: 06255922:89:0 SCLK2: 06255928:78:0
SCET1: 01-289/01:08:38.800 SCET2: 01-289/01:14:35.466
TARGET: IO 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: 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: 360 TLMFMT: MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

32INTHERML01

OAPEL: 32INTHERML01 ALIAS: 32INTHERML01
EXT: A PSID: DD
SCLK1: 06255942:89:0 SCLK2: 06255945:89:0
SCET1: 01-289/01:28:52.133 SCET2: 01-289/01:31:54.133
TARGET: IO 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	00000	0,0000,0000,0000,0000
2	039FF	0,0011,1001,1111,1111
3	00000	0,0000,0000,0000,0000
4	039FF	0,0011,1001,1111,1111
5	00000	0,0000,0000,0000,0000
6	039FF	0,0011,1001,1111,1111
7	00000	0,0000,0000,0000,0000
8	039FF	0,0011,1001,1111,1111
9	00000	0,0000,0000,0000,0000
10	039FF	0,0011,1001,1111,1111
11	00000	0,0000,0000,0000,0000
12	039FF	0,0011,1001,1111,1111
13	00000	0,0000,0000,0000,0000
14	039FF	0,0011,1001,1111,1111
15	00000	0,0000,0000,0000,0000
16	039FF	0,0011,1001,1111,1111
17	00000	0,0000,0000,0000,0000
18	039FF	0,0011,1001,1111,1111
19	00000	0,0000,0000,0000,0000
20	039FF	0,0011,1001,1111,1111
21	00000	0,0000,0000,0000,0000
22	039FF	0,0011,1001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHERML01

OAPEL: 32INTHERML01 ALIAS: 32INTHERML01
EXT: B PSID: DD
SCLK1: 06255942:89:0 SCLK2: 06255945:89:0
SCET1: 01-289/01:28:52.133 SCET2: 01-289/01:31:54.133
TARGET: IO 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	00000	0,0000,0000,0000,0000
15	039FF	0,0011,1001,1111,1111
16	00000	0,0000,0000,0000,0000
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	00000	0,0000,0000,0000,0000
21	039FF	0,0011,1001,1111,1111
22	00000	0,0000,0000,0000,0000
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHERML01

OAPEL: 32INTHERML01 ALIAS: 32INTHERML01
EXT: C PSID: DD
SCLK1: 06255942:89:0 SCLK2: 06255945:89:0
SCET1: 01-289/01:28:52.133 SCET2: 01-289/01:31:54.133
TARGET: IO 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: 288 TLMFMT: MPW

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

WETGID: 0326288001 03 26 288 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHERML01

OAPEL: 32INTHERML01 ALIAS: 32INTHERML01
EXT: D PSID: DD
SCLK1: 06255942:89:0 SCLK2: 06255945:89:0
SCET1: 01-289/01:28:52.133 SCET2: 01-289/01:31:54.133
TARGET: IO 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: 72 TLMFMT: MPW

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

WETGID: 0326072001 03 26 072 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INTHERML01

OAPEL: 32INTHERML01 ALIAS: 32INTHERML01
EXT: I PSID: DD
SCLK1: 06255942:89:0 SCLK2: 06255945:89:0
SCET1: 01-289/01:28:52.133 SCET2: 01-289/01:31:54.133
TARGET: IO 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: 360 TLMFMT: MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

32INEMAKNG01

```
OAPEL:  32INEMAKNG01              ALIAS:  32INEMAKNG01
EXT:    A                         PSID:   DE
SCLK1:  06255955:89:0             SCLK2:  06255963:06:0
SCET1:    01-289/01:42:00.800     SCET2:    01-289/01:49:10.800
TARGET: IO                        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:   144                   TLMFMT:     MPW

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

WETGID:     0326144001          03  26  144  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	00000	0,0000,0000,0000,0000
2	039FF	0,0011,1001,1111,1111
3	00000	0,0000,0000,0000,0000
4	039FF	0,0011,1001,1111,1111
5	00000	0,0000,0000,0000,0000
6	039FF	0,0011,1001,1111,1111
7	00000	0,0000,0000,0000,0000
8	039FF	0,0011,1001,1111,1111
9	00000	0,0000,0000,0000,0000
10	039FF	0,0011,1001,1111,1111
11	00000	0,0000,0000,0000,0000
12	039FF	0,0011,1001,1111,1111
13	00000	0,0000,0000,0000,0000
14	039FF	0,0011,1001,1111,1111
15	00000	0,0000,0000,0000,0000
16	039FF	0,0011,1001,1111,1111
17	00000	0,0000,0000,0000,0000
18	039FF	0,0011,1001,1111,1111
19	00000	0,0000,0000,0000,0000
20	039FF	0,0011,1001,1111,1111
21	00000	0,0000,0000,0000,0000
22	039FF	0,0011,1001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INEMAKNG01

OAPEL: 32INEMAKNG01 ALIAS: 32INEMAKNG01
EXT: B PSID: DE
SCLK1: 06255955:89:0 SCLK2: 06255963:06:0
SCET1: 01-289/01:42:00.800 SCET2: 01-289/01:49:10.800
TARGET: IO 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	00000	0,0000,0000,0000,0000
15	039FF	0,0011,1001,1111,1111
16	00000	0,0000,0000,0000,0000
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	00000	0,0000,0000,0000,0000
21	039FF	0,0011,1001,1111,1111
22	00000	0,0000,0000,0000,0000
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INEMAKNG01

```
OAPEL:  32INEMAKNG01              ALIAS:  32INEMAKNG01
EXT:    C                         PSID:   DE
SCLK1:  06255955:89:0             SCLK2:  06255963:06:0
SCET1:    01-289/01:42:00.800     SCET2:    01-289/01:49:10.800
TARGET: IO                        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:   288                   TLMFMT:     MPW

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

WETGID:     0326288001          03  26  288  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INEMAKNG02

OAPEL: 32INEMAKNG02 ALIAS: 32ISEMAKNG01
EXT: A PSID: ID
SCLK1: 06255947:02:6 SCLK2: 06255947:49:0
SCET1: 01-289/01:32:57.866 SCET2: 01-289/01:33:28.800
TARGET: IO 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: 360 TLMFMT: IM4

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

32INTOHIL_01

OAPEL: 32INTOHIL_01 ALIAS: 32ISTOHIL_01
EXT: A PSID: IF
SCLK1: 06255951:04:0 SCLK2: 06255951:62:0
SCET1: 01-289/01:37:02.000 SCET2: 01-289/01:37:40.133
TARGET: IO 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: 360 TLMFMT: IM8

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

32INITUPAN01

OAPEL: 32INITUPAN01 ALIAS: 32INITUPAN01
EXT: A PSID: DF
SCLK1: 06255971:88:0 SCLK2: 06255980:86:0
SCET1: 01-289/01:58:11.466 SCET2: 01-289/02:07:16.133
TARGET: IO 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	00000	0,0000,0000,0000,0000
2	039FF	0,0011,1001,1111,1111
3	00000	0,0000,0000,0000,0000
4	039FF	0,0011,1001,1111,1111
5	00000	0,0000,0000,0000,0000
6	039FF	0,0011,1001,1111,1111
7	00000	0,0000,0000,0000,0000
8	039FF	0,0011,1001,1111,1111
9	00000	0,0000,0000,0000,0000
10	039FF	0,0011,1001,1111,1111
11	00000	0,0000,0000,0000,0000
12	039FF	0,0011,1001,1111,1111
13	00000	0,0000,0000,0000,0000
14	039FF	0,0011,1001,1111,1111
15	00000	0,0000,0000,0000,0000
16	039FF	0,0011,1001,1111,1111
17	00000	0,0000,0000,0000,0000
18	039FF	0,0011,1001,1111,1111
19	00000	0,0000,0000,0000,0000
20	039FF	0,0011,1001,1111,1111
21	00000	0,0000,0000,0000,0000
22	039FF	0,0011,1001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INITUPAN01

OAPEL: 32INITUPAN01 ALIAS: 32INITUPAN01
EXT: B PSID: DF
SCLK1: 06255971:88:0 SCLK2: 06255980:86:0
SCET1: 01-289/01:58:11.466 SCET2: 01-289/02:07:16.133
TARGET: IO 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	00000	0,0000,0000,0000,0000
15	039FF	0,0011,1001,1111,1111
16	00000	0,0000,0000,0000,0000
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	00000	0,0000,0000,0000,0000
21	039FF	0,0011,1001,1111,1111
22	00000	0,0000,0000,0000,0000
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INITUPAN01

OAPEL: 32INITUPAN01 ALIAS: 32INITUPAN01
EXT: C PSID: DF
SCLK1: 06255971:88:0 SCLK2: 06255980:86:0
SCET1: 01-289/01:58:11.466 SCET2: 01-289/02:07:16.133
TARGET: IO 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: 288 TLMFMT: MPW

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

WETGID: 0326288001 03 26 288 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INITUPAN01

OAPEL: 32INITUPAN01 ALIAS: 32INITUPAN01
EXT: D PSID: DF
SCLK1: 06255971:88:0 SCLK2: 06255980:86:0
SCET1: 01-289/01:58:11.466 SCET2: 01-289/02:07:16.133
TARGET: IO 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: 72 TLMFMT: MPW

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

WETGID: 0326072001 03 26 072 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INITUPAN01

OAPEL: 32INITUPAN01 ALIAS: 32INITUPAN01
EXT: I PSID: DF
SCLK1: 06255971:88:0 SCLK2: 06255980:86:0
SCET1: 01-289/01:58:11.466 SCET2: 01-289/02:07:16.133
TARGET: IO 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: 360 TLMFMT: MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

32INTVASHT01

OAPEL: 32INTVASHT01 ALIAS: 32ISTVASHT01
EXT: A PSID: IL
SCLK1: 06255982:31:0 SCLK2: 06255982:49:0
SCET1: 01-289/02:08:40.600 SCET2: 01-289/02:08:52.133
TARGET: IO PARTITION: 1

MODE: 0 GAIN: 2
CHOP: 2 GRAT_OFF: 4
PTAB_A: 1 0 0 0 012 PTAB_B: 1 0 0 0 012
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: 15 TLMFMT: IM8

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

WETGID: 0013195001 00 13 195 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111

32INICHAAC01

OAPEL: 32INICHAAC01 ALIAS: 32INICHAAC01
EXT: A PSID: DG
SCLK1: 06255983:88:0 SCLK2: 06255993:09:0
SCET1: 01-289/02:10:19.466 SCET2: 01-289/02:19:33.466
TARGET: IO 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	00000	0,0000,0000,0000,0000
2	039FF	0,0011,1001,1111,1111
3	00000	0,0000,0000,0000,0000
4	039FF	0,0011,1001,1111,1111
5	00000	0,0000,0000,0000,0000
6	039FF	0,0011,1001,1111,1111
7	00000	0,0000,0000,0000,0000
8	039FF	0,0011,1001,1111,1111
9	00000	0,0000,0000,0000,0000
10	039FF	0,0011,1001,1111,1111
11	00000	0,0000,0000,0000,0000
12	039FF	0,0011,1001,1111,1111
13	00000	0,0000,0000,0000,0000
14	039FF	0,0011,1001,1111,1111
15	00000	0,0000,0000,0000,0000
16	039FF	0,0011,1001,1111,1111
17	00000	0,0000,0000,0000,0000
18	039FF	0,0011,1001,1111,1111
19	00000	0,0000,0000,0000,0000
20	039FF	0,0011,1001,1111,1111
21	00000	0,0000,0000,0000,0000
22	039FF	0,0011,1001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INICHAAC01

OAPEL: 32INICHAAC01 ALIAS: 32INICHAAC01
EXT: B PSID: DG
SCLK1: 06255983:88:0 SCLK2: 06255993:09:0
SCET1: 01-289/02:10:19.466 SCET2: 01-289/02:19:33.466
TARGET: IO 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	00000	0,0000,0000,0000,0000
15	039FF	0,0011,1001,1111,1111
16	00000	0,0000,0000,0000,0000
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	00000	0,0000,0000,0000,0000
21	039FF	0,0011,1001,1111,1111
22	00000	0,0000,0000,0000,0000
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INICHAAC01

OAPEL: 32INICHAAC01 ALIAS: 32INICHAAC01
EXT: C PSID: DG
SCLK1: 06255983:88:0 SCLK2: 06255993:09:0
SCET1: 01-289/02:10:19.466 SCET2: 01-289/02:19:33.466
TARGET: IO 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: 288 TLMFMT: MPW

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

WETGID: 0326288001 03 26 288 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INICHAAC01

OAPEL: 32INICHAAC01 ALIAS: 32INICHAAC01
EXT: D PSID: DG
SCLK1: 06255983:88:0 SCLK2: 06255993:09:0
SCET1: 01-289/02:10:19.466 SCET2: 01-289/02:19:33.466
TARGET: IO 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: 72 TLMFMT: MPW

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

WETGID: 0326072001 03 26 072 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INICHAAC01

OAPEL: 32INICHAAC01 ALIAS: 32INICHAAC01
EXT: I PSID: DG
SCLK1: 06255983:88:0 SCLK2: 06255993:09:0
SCET1: 01-289/02:10:19.466 SCET2: 01-289/02:19:33.466
TARGET: IO 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: 360 TLMFMT: MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

32INHTSPOT01

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OAPEL:  32INHTSPOT01              ALIAS:  32INHTSPOT01
EXT:    A                         PSID:   DH
SCLK1:  06255997:89:0             SCLK2:  06256010:01:0
SCET1:    01-289/02:24:28.800     SCET2:    01-289/02:36:38.800
TARGET: IO                        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:  144                    TLMFMT:    MPW

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

WETGID:    0326144001          03  26  144  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	00000	0,0000,0000,0000,0000
2	039FF	0,0011,1001,1111,1111
3	00000	0,0000,0000,0000,0000
4	039FF	0,0011,1001,1111,1111
5	00000	0,0000,0000,0000,0000
6	039FF	0,0011,1001,1111,1111
7	00000	0,0000,0000,0000,0000
8	039FF	0,0011,1001,1111,1111
9	00000	0,0000,0000,0000,0000
10	039FF	0,0011,1001,1111,1111
11	00000	0,0000,0000,0000,0000
12	039FF	0,0011,1001,1111,1111
13	00000	0,0000,0000,0000,0000
14	039FF	0,0011,1001,1111,1111
15	00000	0,0000,0000,0000,0000
16	039FF	0,0011,1001,1111,1111
17	00000	0,0000,0000,0000,0000
18	039FF	0,0011,1001,1111,1111
19	00000	0,0000,0000,0000,0000
20	039FF	0,0011,1001,1111,1111
21	00000	0,0000,0000,0000,0000
22	039FF	0,0011,1001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INHTSPOT01

OAPEL: 32INHTSPOT01 ALIAS: 32INHTSPOT01
EXT: B PSID: DH
SCLK1: 06255997:89:0 SCLK2: 06256010:01:0
SCET1: 01-289/02:24:28.800 SCET2: 01-289/02:36:38.800
TARGET: IO 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: 144 TLMFMT: MPW

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

WETGID: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	00000	0,0000,0000,0000,0000
15	039FF	0,0011,1001,1111,1111
16	00000	0,0000,0000,0000,0000
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	00000	0,0000,0000,0000,0000
21	039FF	0,0011,1001,1111,1111
22	00000	0,0000,0000,0000,0000
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INHTSPOT01

OAPEL: 32INHTSPOT01 ALIAS: 32INHTSPOT01
EXT: C PSID: DH
SCLK1: 06255997:89:0 SCLK2: 06256010:01:0
SCET1: 01-289/02:24:28.800 SCET2: 01-289/02:36:38.800
TARGET: IO 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: 288 TLMFMT: MPW

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

WETGID: 0326288001 03 26 288 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INHTSPOT01

OAPEL: 32INHTSPOT01 ALIAS: 32INHTSPOT01
EXT: D PSID: DH
SCLK1: 06255997:89:0 SCLK2: 06256010:01:0
SCET1: 01-289/02:24:28.800 SCET2: 01-289/02:36:38.800
TARGET: IO 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: 72 TLMFMT: MPW

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

WETGID: 0326072001 03 26 072 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INHTSPOT01

```
OAPEL:  32INHTSPOT01              ALIAS:  32INHTSPOT01
EXT:    I                         PSID:   DH
SCLK1:  06255997:89:0             SCLK2:  06256010:01:0
SCET1:    01-289/02:24:28.800     SCET2:    01-289/02:36:38.800
TARGET: IO                        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:  360                    TLMFMT:    MPW

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

WETGID:    0326360001          03  26  360  001
WTGRP_SIZ: 26
```

EDIT TABLE

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

32INTERMIN01

OAPEL: 32INTERMIN01 ALIAS: 32ISTERMIN01
EXT: A PSID: IJ
SCLK1: 06256012:06:0 SCLK2: 06256012:75:0
SCET1: 01-289/02:38:44.000 SCET2: 01-289/02:39:30.000
TARGET: IO 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: 360 TLMFMT: IM8

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

32INTERMIN02

OAPEL: 32INTERMIN02 ALIAS: 32ISTERMIN02
EXT: A PSID: IK
SCLK1: 06256014:19:0 SCLK2: 06256014:88:0
SCET1: 01-289/02:40:54.000 SCET2: 01-289/02:41:40.000
TARGET: IO 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: 360 TLMFMT: IM8

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

32INREGION01

```
OAPEL:  32INREGION01              ALIAS:  32INREGION01
EXT:    A                         PSID:   DI
SCLK1:  06256046:13:0             SCLK2:  06256109:78:0
SCET1:    01-289/03:13:11.466     SCET2:    01-289/04:17:36.800
TARGET: IO                        PARTITION: 1

MODE:       1                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
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:    36                   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:     0113036001          01  13  036  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	039FF	0,0011,1001,1111,1111
7	00000	0,0000,0000,0000,0000
8	00000	0,0000,0000,0000,0000
9	00000	0,0000,0000,0000,0000
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000

32INREGION01

```
OAPEL:  32INREGION01              ALIAS:  32INREGION01
EXT:    B                         PSID:   DI
SCLK1:  06256046:13:0             SCLK2:  06256078:90:0
SCET1:    01-289/03:13:11.466     SCET2:    01-289/03:46:24.666
TARGET: IO                        PARTITION: 1

MODE:       1                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
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:    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:     0113048001          01  13  048  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	00000	0,0000,0000,0000,0000
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000

32INREGION01

```
OAPEL:  32INREGION01              ALIAS:  32INREGION01
EXT:    C                         PSID:   DI
SCLK1:  06256046:13:0             SCLK2:  06256109:78:0
SCET1:    01-289/03:13:11.466     SCET2:    01-289/04:17:36.800
TARGET: IO                        PARTITION: 1

MODE:       1                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
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:    84                   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:     0113084001          01  13  084  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000

32INREGION01

```
OAPEL:  32INREGION01              ALIAS:  32INREGION01
EXT:    D                         PSID:   DI
SCLK1:  06256046:13:0             SCLK2:  06256109:78:0
SCET1:    01-289/03:13:11.466     SCET2:    01-289/04:17:36.800
TARGET: IO                        PARTITION: 1

MODE:       1                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
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:    36                   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:     0113036001          01  13  036  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	00000	0,0000,0000,0000,0000
2	039FF	0,0011,1001,1111,1111
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000
7	00000	0,0000,0000,0000,0000
8	00000	0,0000,0000,0000,0000
9	00000	0,0000,0000,0000,0000
10	039FF	0,0011,1001,1111,1111
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000

32INREGION01

```
OAPEL:  32INREGION01            ALIAS:  32INREGION01
EXT:    I                       PSID:   DI
SCLK1:  06256046:13:1           SCLK2:  06256109:78:0
SCET1:  2001-289/03:13:11.466   SCET2:  2001-289/04:17:36.800
TARGET: IO                      PARTITION: 1

MODE:       1                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 212         PTAB_B:     1 1 0 0 212
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:   120                 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:     0113120000          01  13  120  000
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000

32INREGION02

OAPEL: 32INREGION02 ALIAS: 32INREGION02
EXT: A PSID: DJ
SCLK1: 06256274:10:0 SCLK2: 06256306:00:0
SCET1: 01-289/07:03:40.866 SCET2: 01-289/07:35:55.466
TARGET: IO 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: 72 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: 0326072001 03 26 072 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	00000	0,0000,0000,0000,0000
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	039FF	0,0011,1001,1111,1111
22	00000	0,0000,0000,0000,0000
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INREGION02

OAPEL: 32INREGION02 ALIAS: 32INREGION02
EXT: B PSID: DJ
SCLK1: 06256274:10:0 SCLK2: 06256306:00:0
SCET1: 01-289/07:03:40.866 SCET2: 01-289/07:35:55.466
TARGET: IO 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: 72 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: 0326072001 03 26 072 001
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	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	00000	0,0000,0000,0000,0000
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	039FF	0,0011,1001,1111,1111
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
22	00000	0,0000,0000,0000,0000
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INREGION02

OAPEL: 32INREGION02 ALIAS: 32INREGION02
EXT: C PSID: DJ
SCLK1: 06256274:10:0 SCLK2: 06256306:00:0
SCET1: 01-289/07:03:40.866 SCET2: 01-289/07:35:55.466
TARGET: IO 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: 144 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: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	039FF	0,0011,1001,1111,1111
2	00000	0,0000,0000,0000,0000
3	039FF	0,0011,1001,1111,1111
4	00000	0,0000,0000,0000,0000
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	00000	0,0000,0000,0000,0000
9	039FF	0,0011,1001,1111,1111
10	00000	0,0000,0000,0000,0000
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	00000	0,0000,0000,0000,0000
15	039FF	0,0011,1001,1111,1111
16	00000	0,0000,0000,0000,0000
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	00000	0,0000,0000,0000,0000
21	039FF	0,0011,1001,1111,1111
22	00000	0,0000,0000,0000,0000
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INREGION02

OAPEL: 32INREGION02 ALIAS: 32INREGION02
EXT: D PSID: DJ
SCLK1: 06256274:10:0 SCLK2: 06256306:00:0
SCET1: 01-289/07:03:40.800 SCET2: 01-289/07:35:55.466
TARGET: IO 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: 108 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: 0326108001 03 26 108 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	00000	0,0000,0000,0000,0000
2	039FF	0,0011,1001,1111,1111
3	00000	0,0000,0000,0000,0000
4	039FF	0,0011,1001,1111,1111
5	00000	0,0000,0000,0000,0000
6	00000	0,0000,0000,0000,0000
7	00000	0,0000,0000,0000,0000
8	039FF	0,0011,1001,1111,1111
9	00000	0,0000,0000,0000,0000
10	039FF	0,0011,1001,1111,1111
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	039FF	0,0011,1001,1111,1111
15	00000	0,0000,0000,0000,0000
16	039FF	0,0011,1001,1111,1111
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	039FF	0,0011,1001,1111,1111
21	00000	0,0000,0000,0000,0000
22	039FF	0,0011,1001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32INREGION02

OAPEL: 32INREGION02 ALIAS: 32INREGION02
EXT: I PSID: DJ
SCLK1: 06256274:10:1 SCLK2: 06256306:00:0
SCET1: 2001-289/07:03:40.800 SCET2: 2001-289/07:35:55.466
TARGET: IO 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: 252 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: 0326252000 03 26 252 000
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	00000	0,0000,0000,0000,0000
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	00000	0,0000,0000,0000,0000
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	00000	0,0000,0000,0000,0000
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

32JNGLOBAL01

```
OAPEL:  32JNGLOBAL01            ALIAS:  32JNGLOBAL01
EXT:    A                       PSID:   DK
SCLK1:  06257114:60:0           SCLK2:  06257153:39:0
SCET1:    01-289/21:13:34.800   SCET2:    01-289/21:52:46.800
TARGET: JUPITER                 PARTITION: 1

MODE:       7                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 012         PTAB_B:     1 1 0 0 012
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:     7                 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:     0713007001          07  13  007  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	028D5	0,0010,1000,1101,0101
1	028D5	0,0010,1000,1101,0101
2	028D5	0,0010,1000,1101,0101
3	028D5	0,0010,1000,1101,0101
4	028D5	0,0010,1000,1101,0101
5	028D5	0,0010,1000,1101,0101
6	028D5	0,0010,1000,1101,0101
7	028D5	0,0010,1000,1101,0101
8	028D5	0,0010,1000,1101,0101
9	028D5	0,0010,1000,1101,0101
10	028D5	0,0010,1000,1101,0101
11	028D5	0,0010,1000,1101,0101
12	00000	0,0000,0000,0000,0000

32JNGLOBAL02

```
OAPEL:  32JNGLOBAL02              ALIAS:  32JNGLOBAL02
EXT:    A                         PSID:   DL
SCLK1:  06257444:51:0             SCLK2:  06257479:73:0
SCET1:    01-290/02:47:08.733     SCET2:    01-290/03:22:46.066
TARGET: JUPITER                   PARTITION: 1

MODE:       7                     GAIN:       2
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 012           PTAB_B:     1 1 0 0 012
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:     7                   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:     0713007001          07  13  007  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	028D5	0,0010,1000,1101,0101
1	028D5	0,0010,1000,1101,0101
2	028D5	0,0010,1000,1101,0101
3	028D5	0,0010,1000,1101,0101
4	028D5	0,0010,1000,1101,0101
5	028D5	0,0010,1000,1101,0101
6	028D5	0,0010,1000,1101,0101
7	028D5	0,0010,1000,1101,0101
8	028D5	0,0010,1000,1101,0101
9	028D5	0,0010,1000,1101,0101
10	028D5	0,0010,1000,1101,0101
11	028D5	0,0010,1000,1101,0101
12	00000	0,0000,0000,0000,0000

32NNRCTRLT01

OAPEL: 32NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: R PSID: XU
SCLK1: 06338668:00:0 SCLK2: 06338675:12:0
SCET1: 2001-347/03:33:00.733 SCET2: 2001-347/03:40:13.400
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

32NNRCTRLT01

OAPEL: 32NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: S PSID: XU
SCLK1: 06338682:00:0 SCLK2: 06338683:12:0
SCET1: 2001-347/03:47:10.066 SCET2: 2001-347/03:48:18.733
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

NIMS I32 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS C30 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

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-------------------------------------------------------------------------------------------------------------------------------
# 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 ).
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--------------------------------------------------------------------------------------------------------------------------------
32INTHPELE0132INTHPELE01ADA06255877:89:006255881:85:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        144MPW  01-289/00:23:09.466  01-289/00:27:08.800
          000000000000000000000000000000000000000000000000000032614400126010000001039FF010000001039FF010000001039FF010000001039FF01000
0001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001000000100000
32INTHPELE0132INTHPELE01BDA06255877:89:006255881:85:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        144MPW  01-289/00:23:09.466  01-289/00:27:08.800
          000000000000000000000000000000000000000000000000000032614400126010000001039FF010000001039FF010000001039FF010000001039
FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001000000100000
32INTHPELE0132INTHPELE01CDA06255877:89:006255881:85:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 288MPW  01-289/00:23:09.466  01-289/00:27:08.800
          000000000000000000000000000000000000000000000000000032628800126010039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
32INTHPELE0132INTHPELE01DDA06255877:89:006255881:85:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         72MPW  01-289/00:23:09.466  01-289/00:27:08.800
          000000000000000000000000000000000000000000000000000032607200126011840001184000118400011840001184000118400011840001184
000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001000000100000
32INTHPELE0132INTHPELE01IDA06255877:89:006255881:85:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        360MPW  01-289/00:23:09.466  01-289/00:27:08.800
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
32INTHLOKI0132INTHLOKI01ADB06255908:89:006255918:87:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        144MPW  01-289/00:54:29.466  01-289/01:04:34.800
          000000000000000000000000000000000000000000000000000032614400126010039FF010000001039FF010000001039FF010000001039FF01000
0001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001000000100000
32INTHLOKI0132INTHLOKI01BDB06255908:89:006255918:87:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        144MPW  01-289/00:54:29.466  01-289/01:04:34.800
          000000000000000000000000000000000000000000000000000032614400126010000001039FF010000001039FF010000001039FF010000001039
FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001000000100000
32INTHLOKI0132INTHLOKI01CDB06255908:89:006255918:87:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 288MPW  01-289/00:54:29.466  01-289/01:04:34.800
          000000000000000000000000000000000000000000000000000032628800126010039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
32INTHLOKI0132INTHLOKI01DDB06255908:89:006255918:87:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         72MPW  01-289/00:54:29.466  01-289/01:04:34.800
          000000000000000000000000000000000000000000000000000032607200126011840001184000118400011840001184000118400011840001184
000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001000000100000
32INTHLOKI0132INTHLOKI01IDB06255908:89:006255918:87:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        360MPW  01-289/00:54:29.466  01-289/01:04:34.800
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
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32INPELE__0132ISPELE__01AIB06255921:67:006255921:87:01         IO       0224 1 0 0 0 012 1 0 0 0 01200010 0000000000 1 2.00.3000
0065525        2          15IM8  01-289/01:07:24.000  01-289/01:07:37.466
          0000000000000000000000000000000000000000000000000001319500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF
32INTHPELE0232INTHPELE02ADC06255922:89:006255928:78:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        144MPW  01-289/01:08:38.800  01-289/01:14:35.466
          0000000000000000000000000000000000000000000000000003261440012601039FF010000001039FF010000001039FF010000001039FF01000
0001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF0100000010000001000000
32INTHPELE0232INTHPELE02BDC06255922:89:006255928:78:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        144MPW  01-289/01:08:38.800  01-289/01:14:35.466
          0000000000000000000000000000000000000000000000000003261440012601000000001039FF010000001039FF010000001039FF010000001039
FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF01000000100000
32INTHPELE0232INTHPELE02CDC06255922:89:006255928:78:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 288MPW  01-289/01:08:38.800  01-289/01:14:35.466
          0000000000000000000000000000000000000000000000000003262880012601039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
32INTHPELE0232INTHPELE02DDC06255922:89:006255928:78:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         72MPW  01-289/01:08:38.800  01-289/01:14:35.466
          0000000000000000000000000000000000000000000000000003260720012601184000118400011840001184000118400011840001184000118400011840001184
0001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001000000100000
32INTHPELE0232INTHPELE02IDC06255922:89:006255928:78:01         IO       3114 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        360MPW  01-289/01:08:38.800  01-289/01:14:35.466
          0000000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
32INTHERML0132INTHERML01ADD06255942:89:006255945:89:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        144MPW  01-289/01:28:52.133  01-289/01:31:54.133
          0000000000000000000000000000000000000000000000000003261440012601039FF010000001039FF010000001039FF010000001039FF01000
0001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF0100000010000001000000
32INTHERML0132INTHERML01BDD06255942:89:006255945:89:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        144MPW  01-289/01:28:52.133  01-289/01:31:54.133
          0000000000000000000000000000000000000000000000000003261440012601000000001039FF010000001039FF010000001039FF010000001039
FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF01000000100000
32INTHERML0132INTHERML01CDD06255942:89:006255945:89:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 288MPW  01-289/01:28:52.133  01-289/01:31:54.133
          0000000000000000000000000000000000000000000000000003262880012601039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
32INTHERML0132INTHERML01DDD06255942:89:006255945:89:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         72MPW  01-289/01:28:52.133  01-289/01:31:54.133
          0000000000000000000000000000000000000000000000000003260720012601184000118400011840001184000118400011840001184000118400011840001184
0001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001000000100000
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32INTHERML0132INTHERML01IDD06255942:89:006255945:89:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         360MPW  01-289/01:28:52.133  01-289/01:31:54.133
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
32INEMAKNG0132INEMAKNG01ADE06255955:89:006255963:06:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         144MPW  01-289/01:42:00.800  01-289/01:49:10.800
          000000000000000000000000000000000000000000000000000032614400126010039FF010000001039FF010000001039FF010000001039FF01000
0001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF01000000100000
32INEMAKNG0132INEMAKNG01BDE06255955:89:006255963:06:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         144MPW  01-289/01:42:00.800  01-289/01:49:10.800
          000000000000000000000000000000000000000000000000000032614400126010000001039FF010000001039FF010000001039FF010000001039
FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF01000000100000
32INEMAKNG0132INEMAKNG01CDE06255955:89:006255963:06:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   288MPW  01-289/01:42:00.800  01-289/01:49:10.800
          000000000000000000000000000000000000000000000000000032628800126010039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
32INEMAKNG0232ISEMAKNG01AID06255947:02:606255947:49:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         360IM4  01-289/01:32:57.866  01-289/01:33:28.800
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
32INTOHIL_0132ISTOHIL_01AIF06255951:04:006255951:62:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         360IM8  01-289/01:37:02.000  01-289/01:37:40.133
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
32INITUPAN0132INITUPAN01ADF06255971:88:006255980:86:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         144MPW  01-289/01:58:11.466  01-289/02:07:16.133
          000000000000000000000000000000000000000000000000000032614400126010039FF010000001039FF010000001039FF010000001039FF01000
0001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF01000000100000
32INITUPAN0132INITUPAN01BDF06255971:88:006255980:86:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         144MPW  01-289/01:58:11.466  01-289/02:07:16.133
          000000000000000000000000000000000000000000000000000032614400126010000001039FF010000001039FF010000001039FF010000001039
FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF01000000100000
32INITUPAN0132INITUPAN01CDF06255971:88:006255980:86:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   288MPW  01-289/01:58:11.466  01-289/02:07:16.133
          000000000000000000000000000000000000000000000000000032628800126010039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
32INITUPAN0132INITUPAN01DDF06255971:88:006255980:86:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3          72MPW  01-289/01:58:11.466  01-289/02:07:16.133
          000000000000000000000000000000000000000000000000000032607200126011840001184000118400011840001184000118400011840001184
000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001000000100000
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32INITUPAN0132INITUPAN01IDF06255971:88:006255980:86:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         360MPW  01-289/01:58:11.466  01-289/02:07:16.133
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
32INTVASHT0132ISTVASHT01AIL06255982:31:006255982:49:01         IO       0224 1 0 0 0 012 1 0 0 0 01200010 0000000000 1 2.00.3000
0065525        2          15IM8  01-289/02:08:40.600  01-289/02:08:52.133
          000000000000000000000000000000000000000000000000000013195001130 11BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF
32INICHAAC0132INICHAAC01ADG06255983:88:006255993:09:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         144MPW  01-289/02:10:19.466  01-289/02:19:33.466
          000000000000000000000000000000000000000000000000000032614400126010 39FF010000001039FF010000001039FF010000001039FF01000
0001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001000000100000
32INICHAAC0132INICHAAC01BDG06255983:88:006255993:09:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         144MPW  01-289/02:10:19.466  01-289/02:19:33.466
          000000000000000000000000000000000000000000000000000032614400126010000001039FF010000001039FF010000001039FF010000001039
FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF01000000100000
32INICHAAC0132INICHAAC01CDG06255983:88:006255993:09:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   288MPW  01-289/02:10:19.466  01-289/02:19:33.466
          000000000000000000000000000000000000000000000000000032628800126 01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
32INICHAAC0132INICHAAC01DDG06255983:88:006255993:09:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3          72MPW  01-289/02:10:19.466  01-289/02:19:33.466
          000000000000000000000000000000000000000000000000000032607200126011840001184000118400011840001184000118400011840001184
000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001000000100000
32INICHAAC0132INICHAAC01IDG06255983:88:006255993:09:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         360MPW  01-289/02:10:19.466  01-289/02:19:33.466
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
32INHTSPOT0132INHTSPOT01ADH06255997:89:006256010:01:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         144MPW  01-289/02:24:28.800  01-289/02:36:38.800
          000000000000000000000000000000000000000000000000000032614400126010 39FF010000001039FF010000001039FF010000001039FF01000
0001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001000000100000
32INHTSPOT0132INHTSPOT01BDH06255997:89:006256010:01:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         144MPW  01-289/02:24:28.800  01-289/02:36:38.800
          000000000000000000000000000000000000000000000000000032614400126010000001039FF010000001039FF010000001039FF010000001039
FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF01000000100000
32INHTSPOT0132INHTSPOT01CDH06255997:89:006256010:01:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   288MPW  01-289/02:24:28.800  01-289/02:36:38.800
          000000000000000000000000000000000000000000000000000032628800126 01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
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32INHTSPOT0132INHTSPOT01DDH06255997:89:006256010:01:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         72MPW  01-289/02:24:28.800  01-289/02:36:38.800
          0000000000000000000000000000000000000000000000000000000032607200126011840001184000118400011840001184000118400011840001184
0001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001000000100000
32INHTSPOT0132INHTSPOT01IDH06255997:89:006256010:01:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        360MPW  01-289/02:24:28.800  01-289/02:36:38.800
          0000000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
32INTERMIN0132ISTERMIN01AIJ06256012:06:006256012:75:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        360IM8  01-289/02:38:44.000  01-289/02:39:30.000
          0000000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
32INTERMIN0232ISTERMIN02AIK06256014:19:006256014:88:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        360IM8  01-289/02:40:54.000  01-289/02:41:40.000
          0000000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
32INREGION0132INREGION01ADI06256046:13:006256109:78:01         IO       1214 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525        2         36LPU  01-289/03:13:11.466  01-289/04:17:36.800
          0000000000000000000000000000000000000000000000000000113036001130100000001039FF0100000010000001000000100000001039FF01000
0001000000100000010000001039FF0100000
32INREGION0132INREGION01BDI06256046:13:006256078:90:01         IO       1214 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525        3         48LPU  01-289/03:13:11.466  01-289/03:46:24.666
          0000000000000000000000000000000000000000000000000000113048001130100000001000000100000001039FF010000001039FF010000001039
FF0100000001039FF01000000100000100000
32INREGION0132INREGION01CDI06256046:13:006256109:78:01         IO       1214 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                   84LPU  01-289/03:13:11.466  01-289/04:17:36.800
          0000000000000000000000000000000000000000000000000000113084001130100000001039FF010000001039FF010000001039FF01039FF01039
FF0100000001039FF010000001039FF0100000
32INREGION0132INREGION01DDI06256046:13:006256109:78:01         IO       1214 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525        3         36LPU  01-289/03:13:11.466  01-289/04:17:36.800
          0000000000000000000000000000000000000000000000000000113036001130103 9FF010000001039FF010000001000000100000010000001000
0001000000100000001039FF01000000100000
32INREGION0132INREGION01IDI06256046:13:106256109:78:01         IO       1214 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0000000                  120LPU2001-289/03:13:11.4662001-289/04:17:36.800
          0000000000000000000000000000000000000000000000000000113120000130103 9FF01039FF01039FF01039FF01039FF010000001039FF01039FF01039
FF0100000001039FF01039FF01039FF0100000
32INREGION0232INREGION02ADJ06256274:10:006256306:00:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         72LPU  01-289/07:03:40.866  01-289/07:35:55.466
          0000000000000000000000000000000000000000000000000000000032607200126010000001039FF010000001000000100000001039FF010000001000
0001000000103 9FF010000001000000100000001039FF010000001000000100000001039FF010000001000000100000001039FF010000001000000100000100000
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32INREGION0232INREGION02BDJ06256274:10:006256306:00:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3          72LPU  01-289/07:03:40.866  01-289/07:35:55.466
          000000000000000000000000000000000000000000000000000032607200126010000001000000100000001039FF0100000010000001000000103 9
FF0100000010000001000000103 9FF0100000010000001000000103 9FF0100000010000001000000103 9FF0100000010000001000000103 9FF01000000100000
32INREGION0232INREGION02CDJ06256274:10:006256306:00:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 144LPU  01-289/07:03:40.866  01-289/07:35:55.466
          000000000000000000000000000000000000000000000000000032614400126010000001039FF010000001039FF010000001039FF010000001039
FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF010000001039FF01000000100000
32INREGION0232INREGION02DDJ06256274:10:006256306:00:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         108LPU  01-289/07:03:40.800  01-289/07:35:55.466
          000000000000000000000000000000000000000000000000000032610800126010 9FF010000001039FF010000001039FF010000001000000100 0
0001039FF010000001039FF0100000010000001000000103 9FF0100000010039FF0100000010000001000000103 9FF0100000010039FF01000000100000
32INREGION0232INREGION02IDJ06256274:10:106256306:00:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0000000                 252LPU2001-289/07:03:40.8002001-289/07:35:55.466
          000000000000000000000000000000000000000000000000000032625200026010 9FF01039FF01039FF01039FF01039FF01039FF010000001039
FF01039FF01039FF01039FF01039FF0100000010 9FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
32JNGLOBAL0132JNGLOBAL01ADK06257114:60:006257153:39:01         JUPITER  7214 1 1 0 0 012 1 1 0 0 01200010 0000000000 1 2.00.3000
0065525        2          7LPU  01-289/21:13:34.800  01-289/21:52:46.800
          000000000000000000000000000000000000000000000000000071300700113010 8D501028D501028D501028D501028D501028D501028D501028D501028
D501028D501028D501028D501028D50100000
32JNGLOBAL0232JNGLOBAL02ADL06257444:51:006257479:73:01         JUPITER  7214 1 1 0 0 012 1 1 0 0 01200010 0000000000 1 2.00.3000
0065525        2          7LPU  01-290/02:47:08.733  01-290/03:22:46.066
          000000000000000000000000000000000000000000000000000071300700113010 8D501028D501028D501028D501028D501028D501028D501028D501028
D501028D501028D501028D501028D50100000
32NNRCTRLT01LSNNRCTRTA01RXU06338668:00:006338675:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 2001-347/03:33:00.7332001-347/03:40:13.400
          000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

32NNRCTRLT01LSNNRCTRTA01SXU06338682:00:006338683:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 2001-347/03:47:10.0662001-347/03:48:18.733
          000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

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Chapter 5 - Detailed Observation Designs

Contents

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 Software Reload

ACTIVITY ID: 32NNTHPELE01-
START TIME: 01-289/00:17:10.133

Activity ID: Orbit 32 Target N Inst N OAPEL THPELE SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	10/1 6/0	Wee 42
Start	IEE-CDS	00000000:00:0	01-289/00:17:10.133	IEE-000/00:00:00.000	
End	IEE-CDS	00000000:00:0	01-289/00:20:10.133	IEE-000/00:00:00.000	
Duration		00000000:00:0	000/00:03:00.000	000/00:00:00.000	

Top Label 32NNTHPELE01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

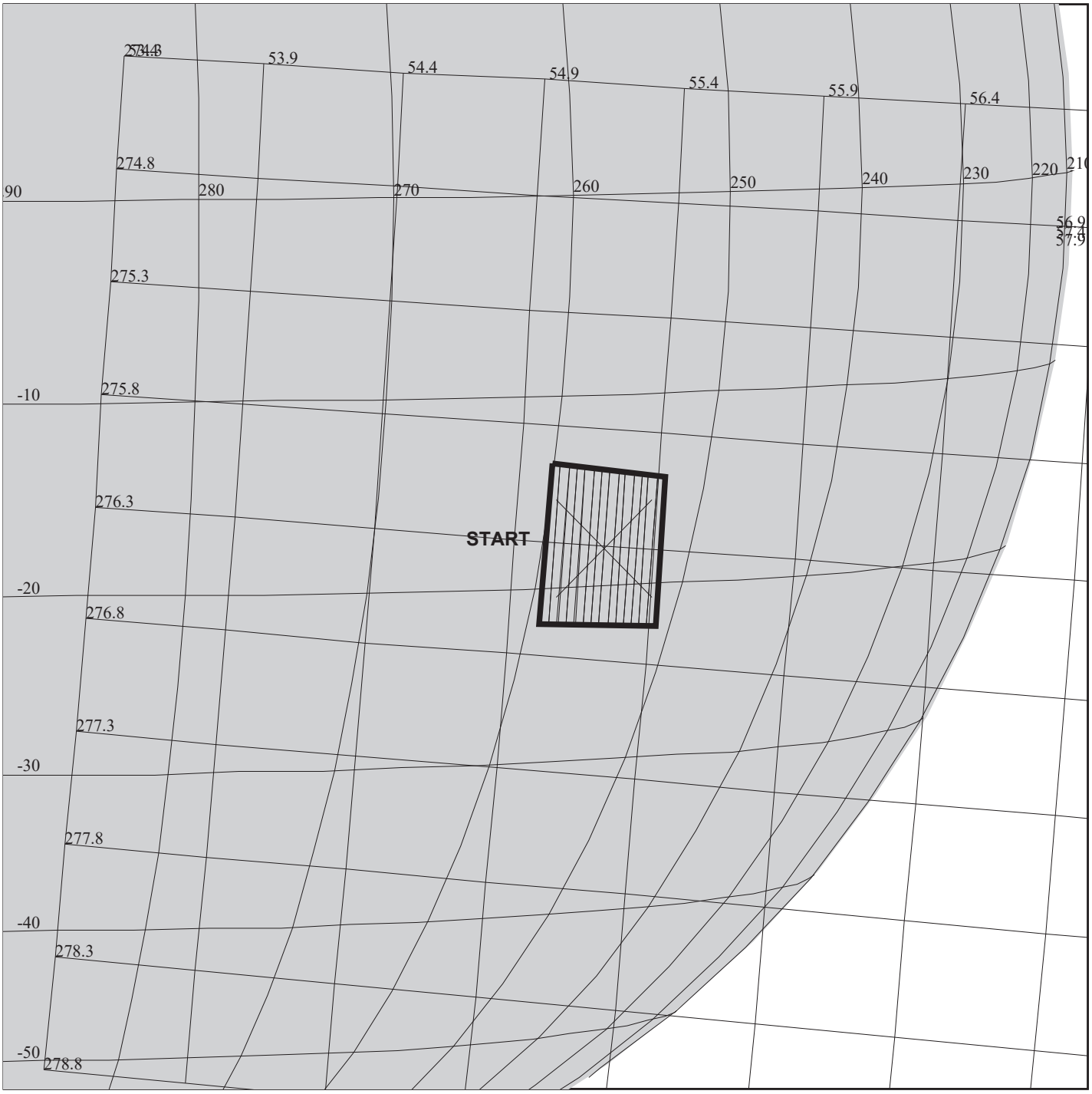
NIMS reload
Each NIMS GMM observation will have an instrument reload before the start of each observation. Each reload has its own OAPEL form, but only this first is included in the NIMSGUIDE. The NIMS I32 reload OAPELs are:

32NNTHPELE01, 32NNTHLOKI01, 32NNTHPELE02, 32NNTHERML01, 32NNEMAKNG01, 32NNITUPAN01, 32NNICHAAC01, 32NNHTSPOT01, 32NNREGION01, 32NNREGION02, 32NNGLOBAL01, 32NNGLOBAL02, 32NNRELOAD01.

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.



165DA:TT= 0 TMC= 1 C= -3.51 XC= 0.00 BS= 0/8570 TC= 1(-18.0 256.0)
A= 182 pD= 720 SR=17.450 RA50=224.60 DEC50=-22.06 cone= 55.06 clock=276.34
117DA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8570
1:#s= 1 Cs= 7.10 XCs= 0.00 Cr= 0.00 XCr= 8.00 sD= 720 rD= 2

32INTHPELE01

DESIGN G3.2 yande: 8/23/2001 13:58:49

FILE:P.32INTHPELE01

TARGET BODY : IO

MINI:m.32INTHPELE01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 01-289/01:22:53.466 -CDS 59:00:0 **BODY PLOT TIME:TARGET-TIME D= 720 S= 2.000**

OBSERVATION:32INTHPELE01 **DESCRIP:IO_PELE_OBS**

Io Pele Map

ACTIVITY ID: 32INTHPELE01-
START TIME: 01-289/00:21:12.800

Activity ID: Orbit 32 Target I Inst N OAPEL THPELE SeqNo 01 -

Title	Io Pele Map			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE-CDS 00000061:00:0	01-289/00:21:12.800		IEE-000/01:01:40.666	
End	IEE-CDS 00000056:00:0	01-289/00:26:16.133		IEE-000/00:56:37.333	
Duration	00000005:00:0	000/00:05:03.333		000/00:05:03.333	

Top Label	32INTHPELE01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Observe Pele hot spot and surrounding area in darkness for thermal mapping.

Data Returned

Design Detail

BTG=1.52 MB, TICS=213, FMT=MPW, LM, Gain State 1

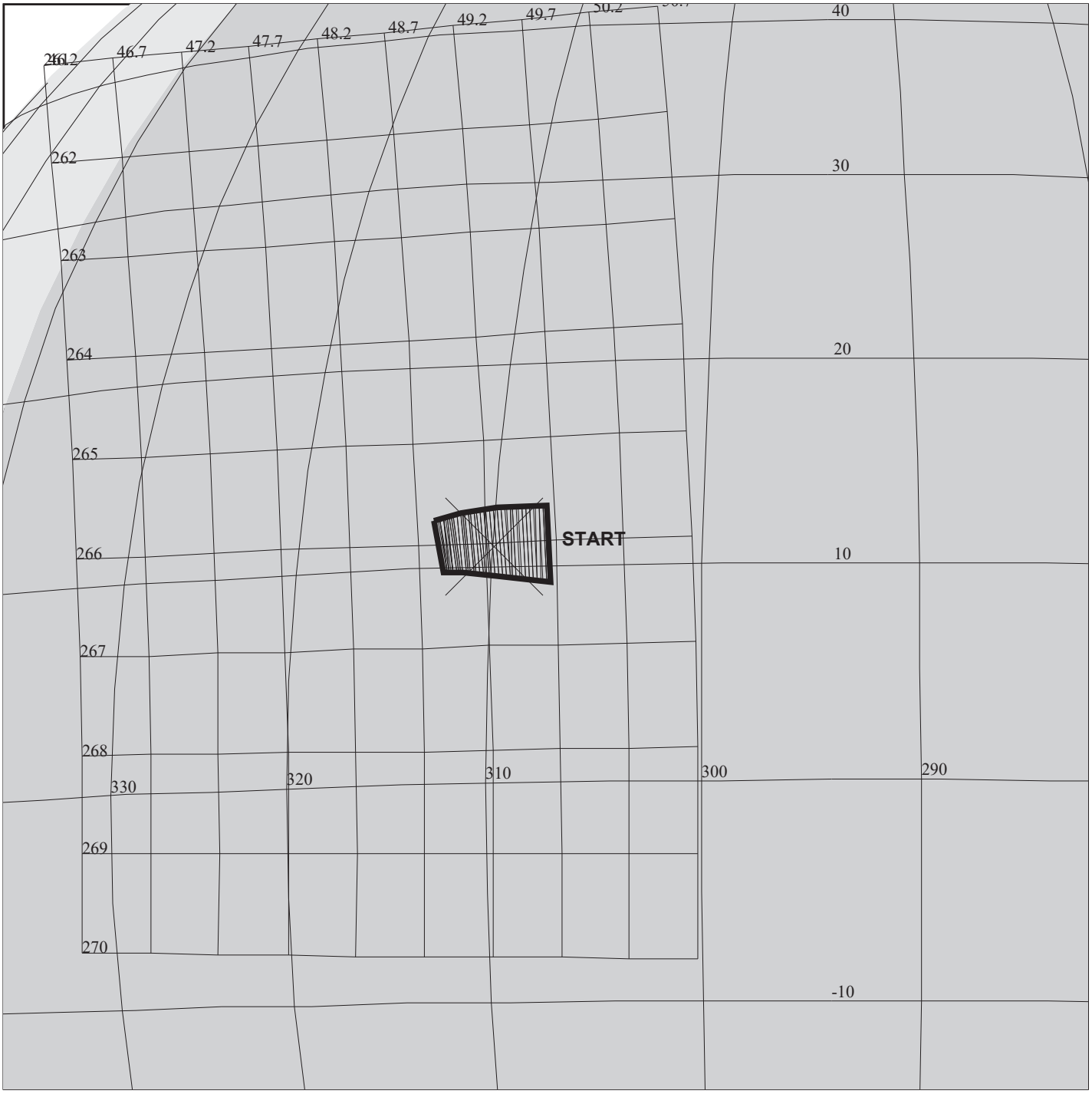
One-scan mosaic centered on Pele.
Center at 18 deg S. latitude, 256 deg W. longitude.

Gain state 1 to avoid high temperature saturation.

BOOMS - cone angle = 56 degrees.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM72
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144A
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144B
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM288
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM360



165DB:TT= 0 TMC= 1 C= 7.05 XC= 0.00 BS= 0/4212 TC= 1(11 310)
A= 182 pD= 1818 SR=17.450 RA50=232.25 DEC50=-15.52 cone= 49.70 clock=266.03
117DB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4212
1:#s= 1 Cs= -18.10 XCs= -2.00 Cr= 0.00 XCr= 8.00 sD= 1818 rD= 2

32INTHLOKI01

DESIGN G3.2 yande: 8/23/2001 13:58:39

FILE:P.32INTHLOKI01

TARGET BODY : IO

MINI:m.32INTHLOKI01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 01-289/01:22:53.466 -CDS 28:00:0 **BODY PLOT TIME:TARGET-TIME D= 1818 S= 2.000**

OBSERVATION:32INTHLOKI01 **DESCRIP:IO_LOKI_OBS**

Io Loki Map

ACTIVITY ID: 32INTHLOKI01-
START TIME: 01-289/00:53:34.133

Activity ID: Orbit 32 Target I Inst N OAPEL THLOKI SeqNo 01 -

Title	Io Loki Map			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE-CDS 00000029:00:0	01-289/00:53:34.133		IEE-000/00:29:19.333	
End	IEE-CDS 00000018:00:0	01-289/01:04:41.466		IEE-000/00:18:12.000	
Duration	00000011:00:0	000/00:11:07.333		000/00:11:07.333	

Top Label 32INTHLOKI01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Observe Loki, Io's most powerful hot spot, in darkness for thermal mapping. This observations will cover significantly more area than the observation obtained in I24.

Data Returned

Design Detail

BTG=3.46 MB, TICS=530, FMT=MPW, LM, Gain State 1

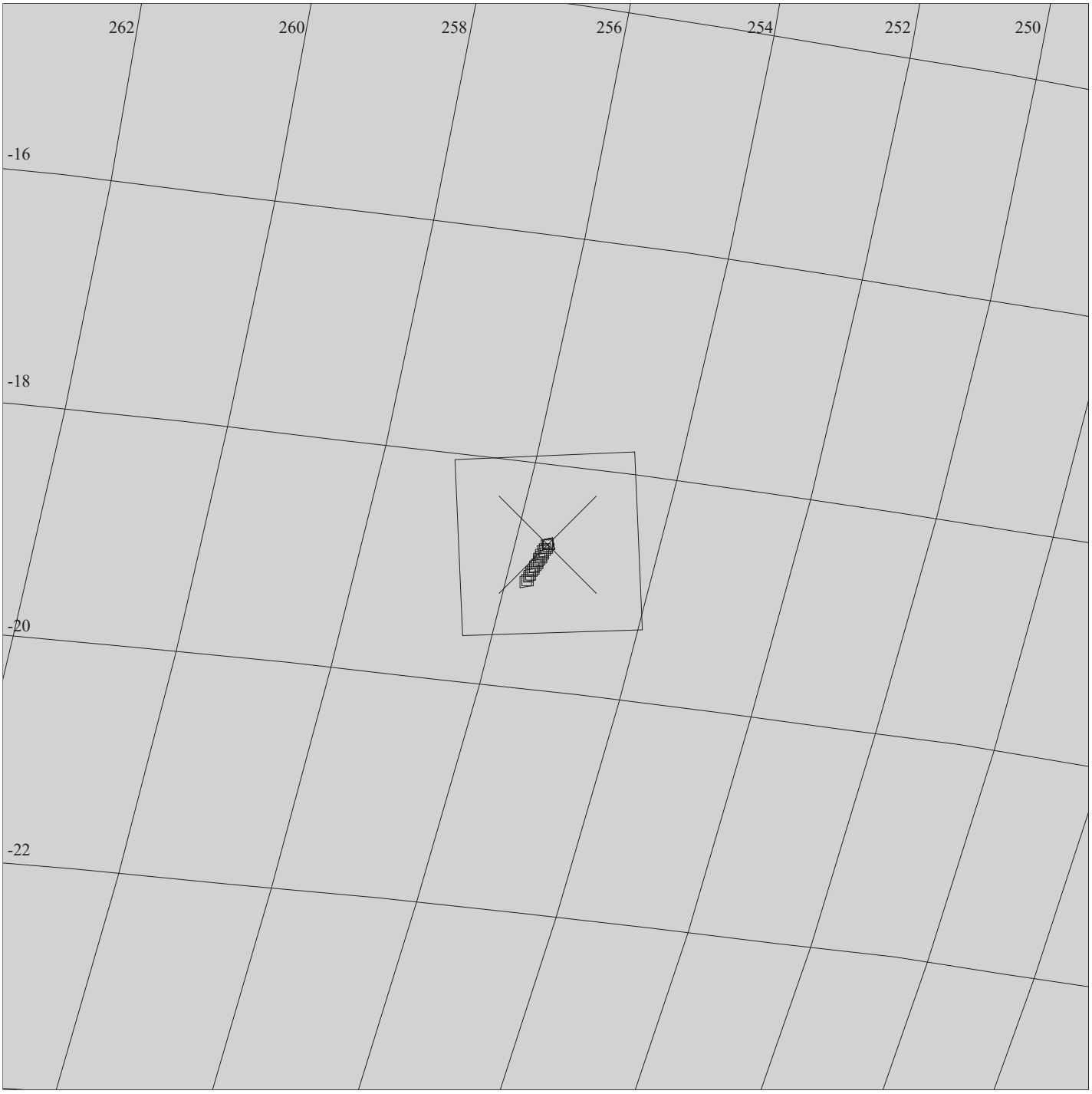
Single scan mosaic centered on Loki caldera.
Center at 11 deg N. latitude, 310 deg W. longitude.

Gain state 1 to avoid high temperature saturation.

BOOMS - cone angle = 51 degrees.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM72
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144A
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144B
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM288
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM360



165IB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6396 TC= 1(-18.7 255.55)
A= 342 pD= 162 SR=17.450 RA50=222.11 DEC50=-11.84 cone= 60.20 clock=265.49

32INPELE__01

DESIGN G3.2 frank: 3/ 1/2002 15:15: 0

FILE:P.32ISPELE__01

TARGET BODY : IO

MINI:m.32INPELE__01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:IEE 01-289/01:22:53.466 -CDS 16:00:0 **BODY PLOT TIME:TARGET-TIME D= 162 S= 10.000**

OBSERVATION:32ISPELE__01 **DESCRIP:PELE**

SSI Io Pele Obs

ACTIVITY ID: 32INPELE__01-
START TIME: 01-289/01:04:41.466

Activity ID: Orbit 32 Target I Inst N OAPEL PELE__ SeqNo 01 -

Title	SSI Io Pele OBS			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE-CDS 00000018:00:0	01-289/01:04:41.466		IEE-000/00:18:12.000	
End	IEE-CDS 00000015:00:0	01-289/01:07:43.466		IEE-000/00:15:10.000	
Duration	00000003:00:0	000/00:03:02.000		000/00:03:02.000	

Top Label 32INPELE__01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Ride-along with SSI Pele observation 32ISPELE__01.

View of Pele at night to look for hot material and estimate temperatures.
Lower resolution than I24 (30 m/pixel), but frames cover more territory.

Design Detail

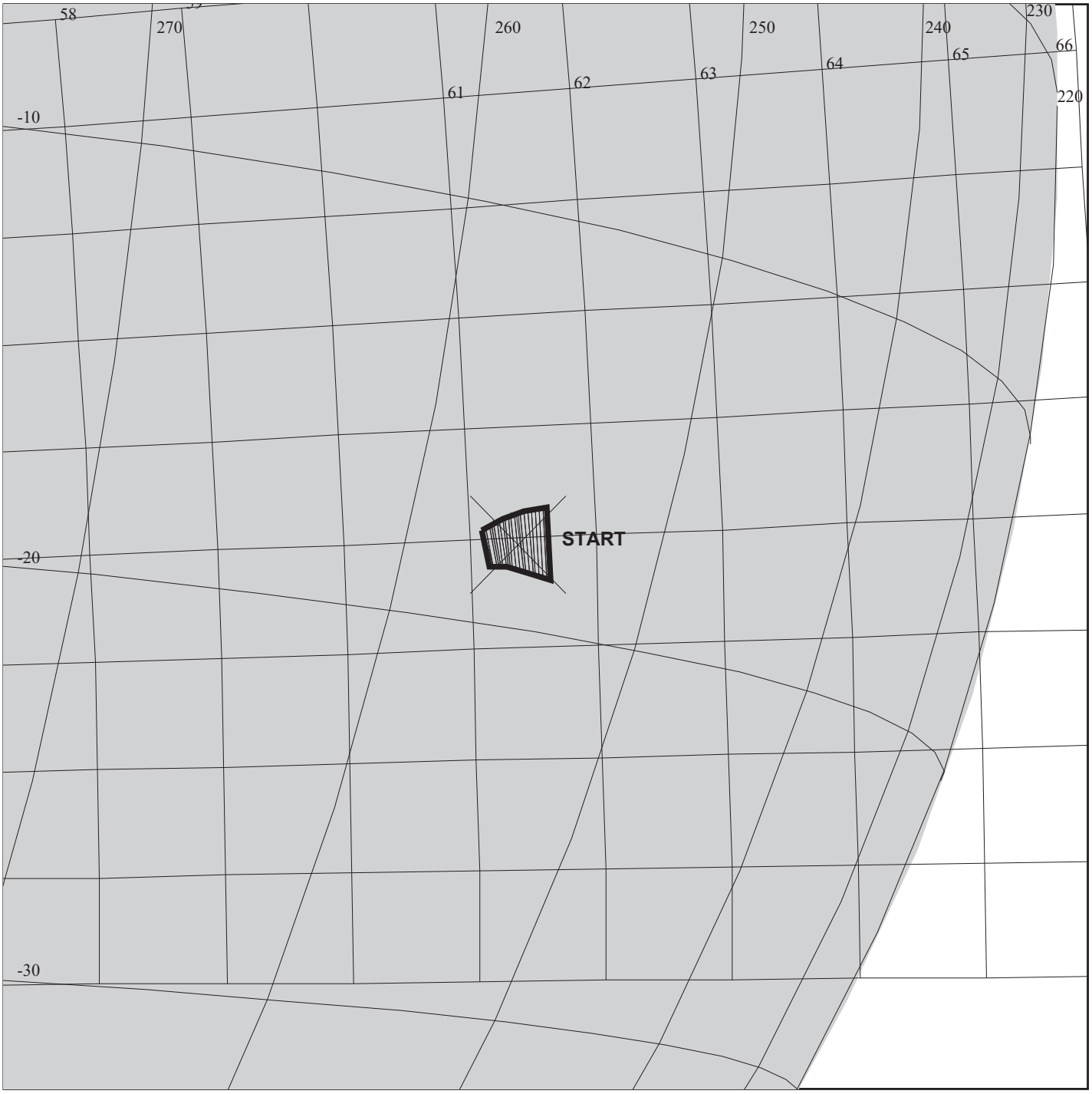
ALIAS: 32ISPELE__01

Single IM8 footprint, CLR and 9680A filters, 3 frames CLR + 2 frames 9680A,
5 frames total; viewing through booms, 2 records.
Latitude -18.8 deg, longitude 255.55 deg W., resolution 61 m/pixel

NIMS: ride-along behind second record.
Fixed Spectrometer (Safe) mode, Gain State 2, Chopper Reference.
NIMS footprint drifts across the center of the SSI frame.

BOOMS - cone angle = 60 degrees.

Fixed Spectrometer (XS), Gain 2, Grating Start 0, IM8, IXS17, IXS15



165DC:TT= 0 TMC= 1 C= 4.20 XC= 0.00 BS= 0/6760 TC= 1(-18.0 256.0)
A= 182 pD= 1084 SR=17.450 RA50=221.49 DEC50= -9.36 cone= 61.62 clock=263.07
117DC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6760
1:#s= 1 Cs= -10.75 XCs= -2.00 Cr= 0.00 XCr= 8.00 sD= 1084 rD= 2

32INTHPELE02

DESIGN G3.2 yande: 8/23/2001 13:58:59

FILE:P.32INTHPELE02

TARGET BODY : IO

MINI:m.32INTHPELE02

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 01-289/01:22:53.466 -CDS 14:00:0

BODY PLOT TIME:TARGET-TIME D= 1084 S= 3.500

OBSERVATION:32INTHPELE02

DESCRIP:IO_PELE_OBS_02

Io Pele Map

ACTIVITY ID: 32INTHPELE02-
START TIME: 01-289/01:07:43.466

Activity ID: Orbit 32 Target I Inst N OAPEL THPELE SeqNo 02 -

Title	Io Pele Map			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE-CDS 00000015:00:0	01-289/01:07:43.466		IEE-000/00:15:10.000	
End	IEE-CDS 00000008:00:0	01-289/01:14:48.133		IEE-000/00:08:05.333	
Duration	00000007:00:0	000/00:07:04.667		000/00:07:04.667	

Top Label 32INTHPELE02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

High-resolution observation of Pele hot spot in darkness for thermal mapping.

Data Returned

Design Detail

BTG=2.07 MB, TICS=319, FMT=MPW, LM, Gain State 1

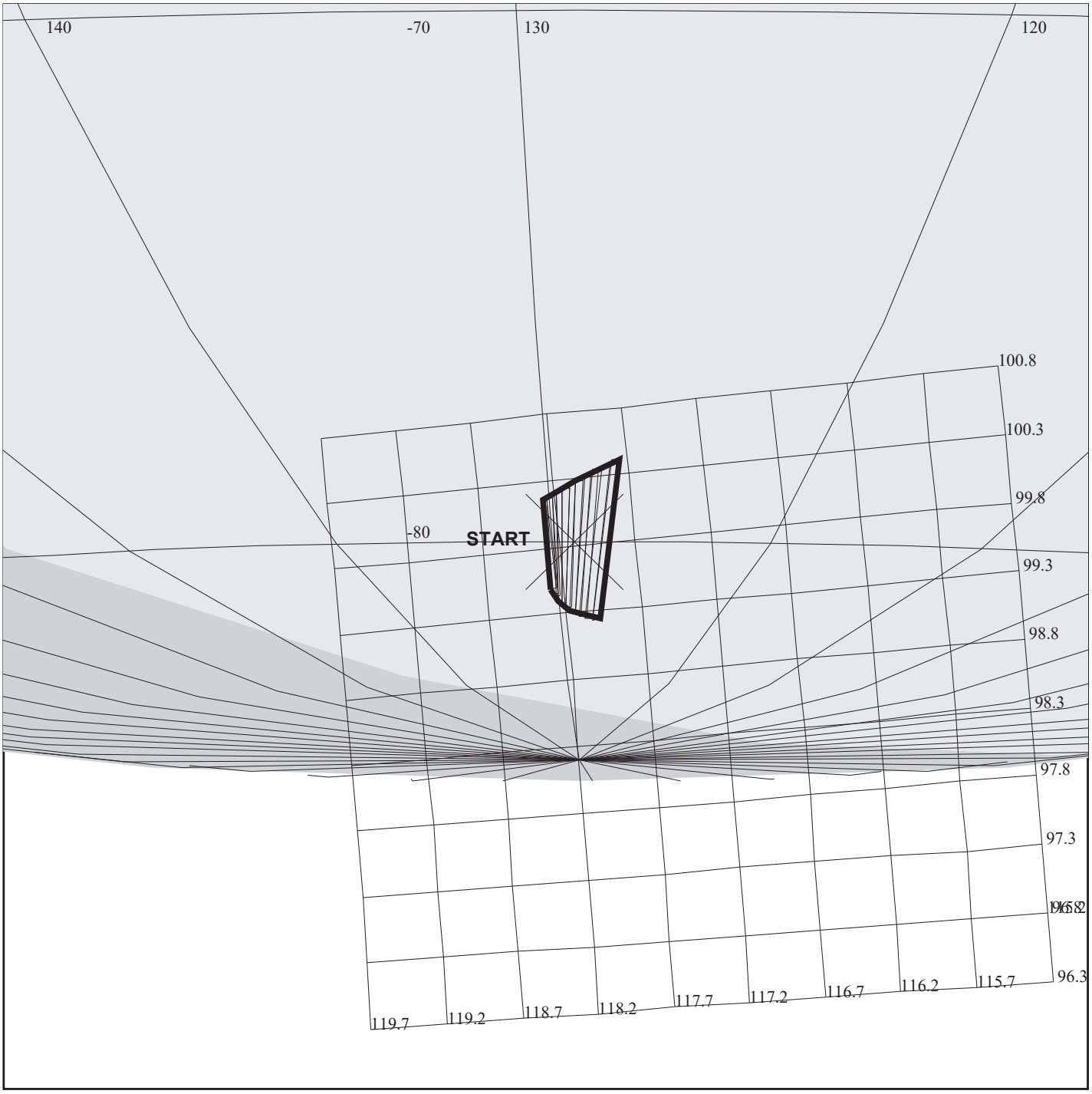
One-scan mosaic centered on Pele.
Center at 18 deg S. latitude, 256 deg W. longitude.

Gain state 1 to avoid high temperature saturation.

BOOMS - cone angle = 66 degrees.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM72
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144A
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144B
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM288
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM360



165DD:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/0400 TC= 1(-80 129)
A= 182 pD= 546 SR=17.450 RA50= 36.80 DEC50= 23.39 cone=118.26 clock= 99.81
117DD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0400
1:#s= 1 Cs= -5.35 XCs= 0.00 Cr= 0.00 XCr= 8.00 sD= 546 rD= 2

32INTHERML01

DESIGN G3.2 yande: 8/23/2001 13:58:27

FILE:P.32INTHERML01

TARGET BODY : IO

MINI:m.32INTHERML01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 01-289/01:22:53.466 +CDS 06:00:0 **BODY PLOT TIME:TARGET-TIME D= 546 S= 9.000**

OBSERVATION:32INTHERML01 **DESCRIP:IO_THERMAL**

Io Thermal Map

ACTIVITY ID: 32INTHERML01-
START TIME: 01-289/01:27:56.799

Activity ID: Orbit 32 Target I Inst N OAPEL THERML SeqNo 01 -

Title	Io Thermal Map			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE+CDS 00000005:00:0	01-289/01:27:56.799		IEE+000/00:05:03.333	
End	IEE+CDS 00000009:00:0	01-289/01:31:59.466		IEE+000/00:09:06.000	
Duration	00000004:00:0	000/00:04:02.667		000/00:04:02.667	

Top Label	32INTHERML01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

High resolution observation of south polar region for thermal and SO2 mapping.

Data Returned

Design Detail

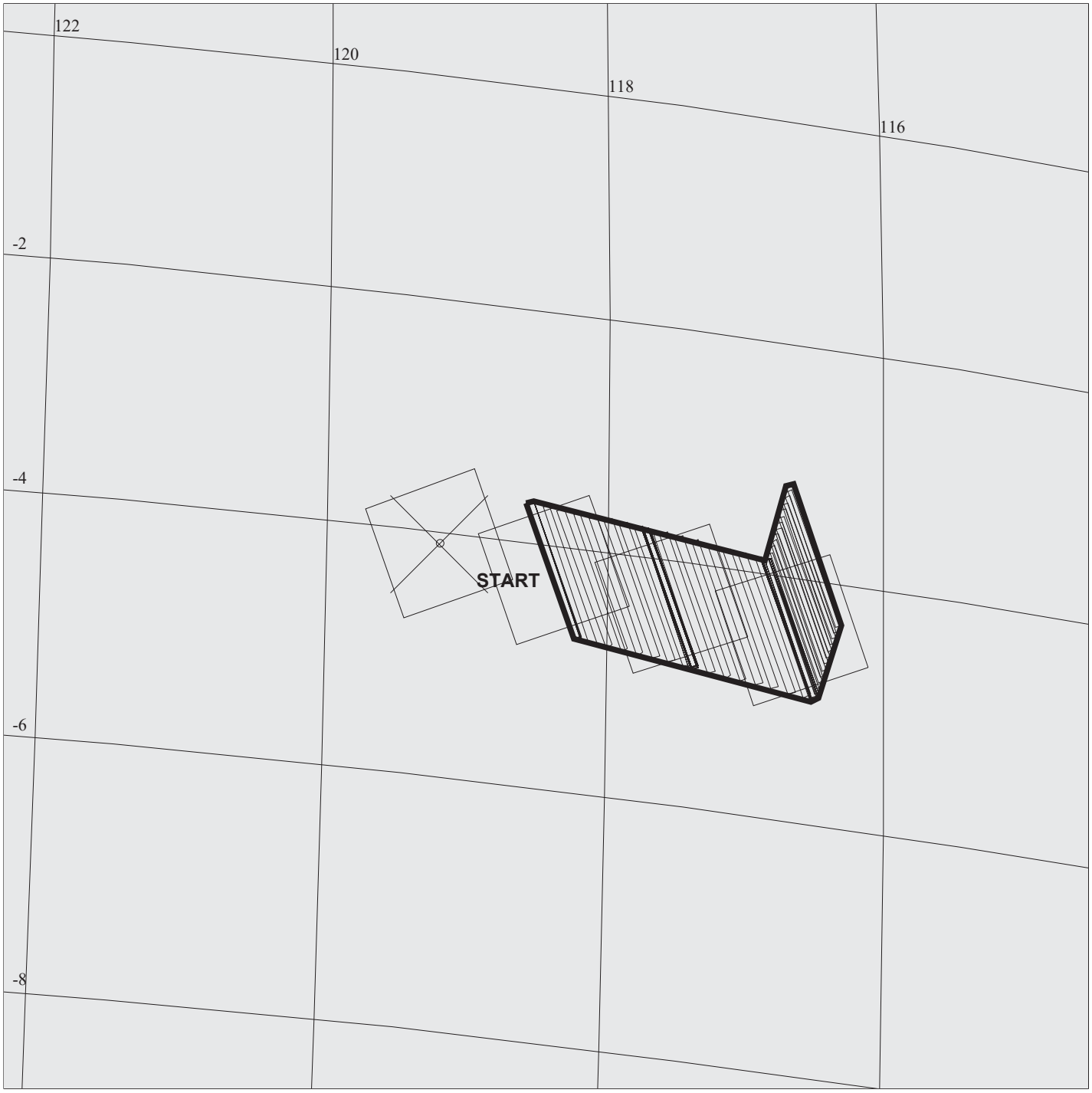
BTG=0.69 MB, TICS=240, FMT=MPW, LM, Gain State 2

Short one-scan mosaic of south polar region.
Center at 80 deg S. latitude, 129 deg W. longitude.

High southern latitude mosaic.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM72
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144A
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144B
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM288
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM360



165ID:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1128 TC= 1(-4.1 119.2)
A= 174 pD= 84 SR=17.450 RA50= 19.52 DEC50= 51.43 cone=110.51 clock=132.94
118ID:#SB= 1 Cs= -6.80 XCs= -4.30 TPP= 26 SR= 2.800 RR=12.000 BM=F RC= 1 BS= 3/1128
1:#s= 4 #p= 1 Cr= 0.00 XCr= 0.00

32INEMAKNG02

DESIGN G3.2 frank: 3/ 5/2002 15:17:12

FILE:P.32ISEMAKNG01

TARGET BODY : IO

MINI:m.32ISEMAKNG01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 01-289/01:22:53.466 +CDS 10:00:0

BODY PLOT TIME:TARGET-TIME D= 84 S= 10.000

OBSERVATION:32ISEMAKNG01

DESCRIP:EMAKONG HIGH RESOLUTION

SSI Io Emakong Obs

ACTIVITY ID: 32INEMAKNG02-
START TIME: 01-289/01:31:59.466

Activity ID: Orbit 32 Target I Inst N OAPEL EMAKNG SeqNo 02 -

Title	SSI Io Emakong OBS			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE+CDS 00000009:00:0	01-289/01:31:59.466		IEE+000/00:09:06.000	
End	IEE+CDS 00000010:40:0	01-289/01:33:26.799		IEE+000/00:10:33.333	
Duration	00000001:40:0	000/00:01:27.333		000/00:01:27.333	

Top Label	32INEMAKNG02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Ride-along with SSI Emakong observation 32ISEMAKNG01.

High-resolution view of lava channel; the channel morphology may provide constraints on lava viscosity. Recovers a high-resolution observation lost on I25. Lower resolution (~150 m/pixel) context was acquired on I25.

Design Detail

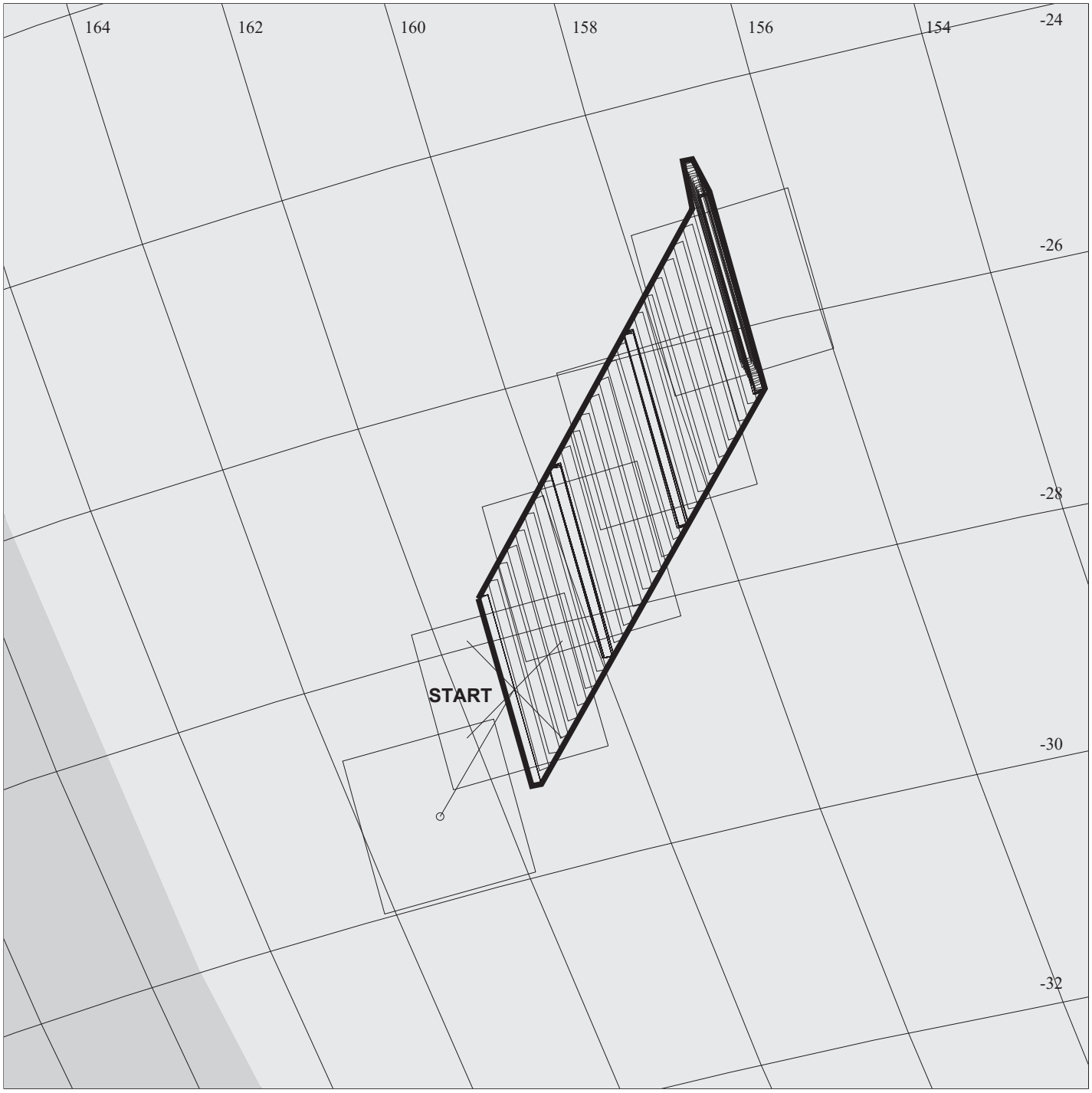
ALIAS: 32ISEMAKNG01

4x1 Im4 mosaic, CLR filter, 1 record, 430 tics.
Latitude -4.7 deg, longitude 117.4 deg W. Resolution 34.6 m/pixel.

NIMS: ride-along behind SSI.
Long Map mode, Gain State 2, Chopper Reference.
NIMS footprints slew across the SSI mosaic with no overlap.

Fixed Long Map (XLM), Gain 2, Grating Start 0, IM4, ILM408, ILM360

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165IF:TT= 0 TMC= 1 C= 5.50 XC= -5.30 BS= 0/1856 TC= 1(-28.43 161.23)
A= 312 pD= 110 SR=17.450 RA50= 52.38 DEC50= 34.80 cone=133.18 clock=111.68
118IF:#SB= 1 Cs= -5.21 XCs= 5.30 TPP= 26 SR= 2.800 RR=12.000 BM=F RC= 1 BS= 3/1856
1:#s= 5 #p= 1 Cr= 0.00 XCr= 0.00

32INTOHIL_01

DESIGN G3.2 frank: 3/ 5/2002 13: 6:33

FILE:P.32ISTOHIL_01

TARGET BODY : IO

MINI:m.32ISTOHIL_01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 01-289/01:22:53.466 +CDS 14:00:0

BODY PLOT TIME:TARGET-TIME D= 110 S= 10.000

OBSERVATION:32ISTOHIL_01

DESCRIP:TOHIL NEAR TERMINATOR

SSI Io Tohil Obs

ACTIVITY ID: 32INTOHIL_01-
START TIME: 01-289/01:35:08.132

Activity ID: Orbit 32 Target I Inst N OAPEL TOHIL_ SeqNo 01 -

Title	SSI Io Tohil OBS			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE+CDS 00000012:10:0	01-289/01:35:08.132		IEE+000/00:12:14.666	
End	IEE+CDS 00000014:60:0	01-289/01:37:42.799		IEE+000/00:14:49.333	
Duration	00000002:50:0	000/00:02:34.667		000/00:02:34.667	

Top Label 32INTOHIL_01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Ride-along with SSI Emakong observation 32ISTOHIL_01.

High-resolution observation of Tohil Mons near terminator to examine relationship between the mountain and nearby paterae as well as erosion mechanisms.

Design Detail

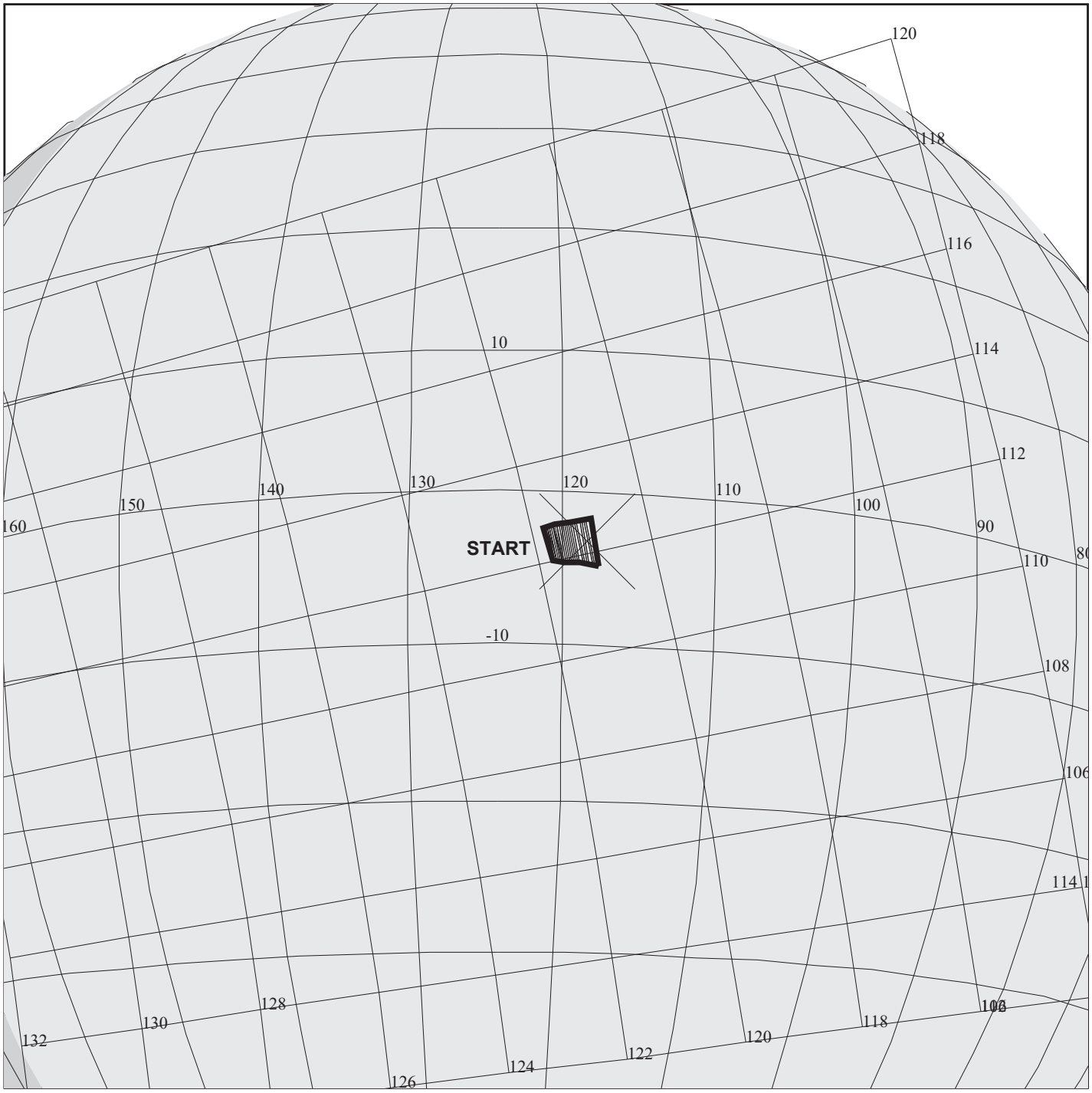
ALIAS: 32ISTOHIL_01

1x5 Im8 mosaic, CLR filter, 1 record, 1102 tics.
Latitude -25.6 deg, longitude 157.6 deg W. Resolution 54 m/pixel.

NIMS: ride-along behind SSI.
Long Map mode, Gain State 2, Chopper Reference.
NIMS footprints slew across the SSI mosaic with no overlap.

Fixed Long Map (XLM), Gain 2, Grating Start 0, IM8, ILM408, ILM360

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DE:TT= 0 TMC= 1 C= 11.20 XC= 2.00 BS= 0/2766 TC= 1(-3.3 118.5)
A= 182 pD= 1818 SR=17.450 RA50= 38.45 DEC50= 34.70 cone=121.75 clock=112.36
117DE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2766
1:#s= 1 Cs= -18.10 XCs= -2.50 Cr= 0.00 XCr= 8.00 sD= 1818 rD= 2

32INEMAKNG01

DESIGN G3.2 yande: 9/18/2001 11: 3:34

FILE:P.32INEMAKNG01

TARGET BODY : IO

MINI:m.32INEMAKNG01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 01-289/01:22:53.466 +CDS 19:00:0

BODY PLOT TIME:TARGET-TIME D= 1818 S= 1.300

OBSERVATION:32INEMAKNG01

DESCRIP:IO_EMAKONG

Io Emakong Obs

ACTIVITY ID: 32INEMAKNG01-
START TIME: 01-289/01:41:05.466

Activity ID: Orbit 32 Target I Inst N OAPEL EMAKNG SeqNo 01 -

Title	Io Emakong Obs			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE+CDS 00000018:00:0	01-289/01:41:05.466		IEE+000/00:18:12.000	
End	IEE+CDS 00000029:00:0	01-289/01:52:12.799		IEE+000/00:29:19.333	
Duration	00000011:00:0	000/00:11:07.333		000/00:11:07.333	

Top Label	32INEMAKNG01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate thermal and SO2 distribution inside and around Emakong caldera, a region where we have detected patches of SO2 very near active lava or sulfur flows.

Data Returned

Design Detail

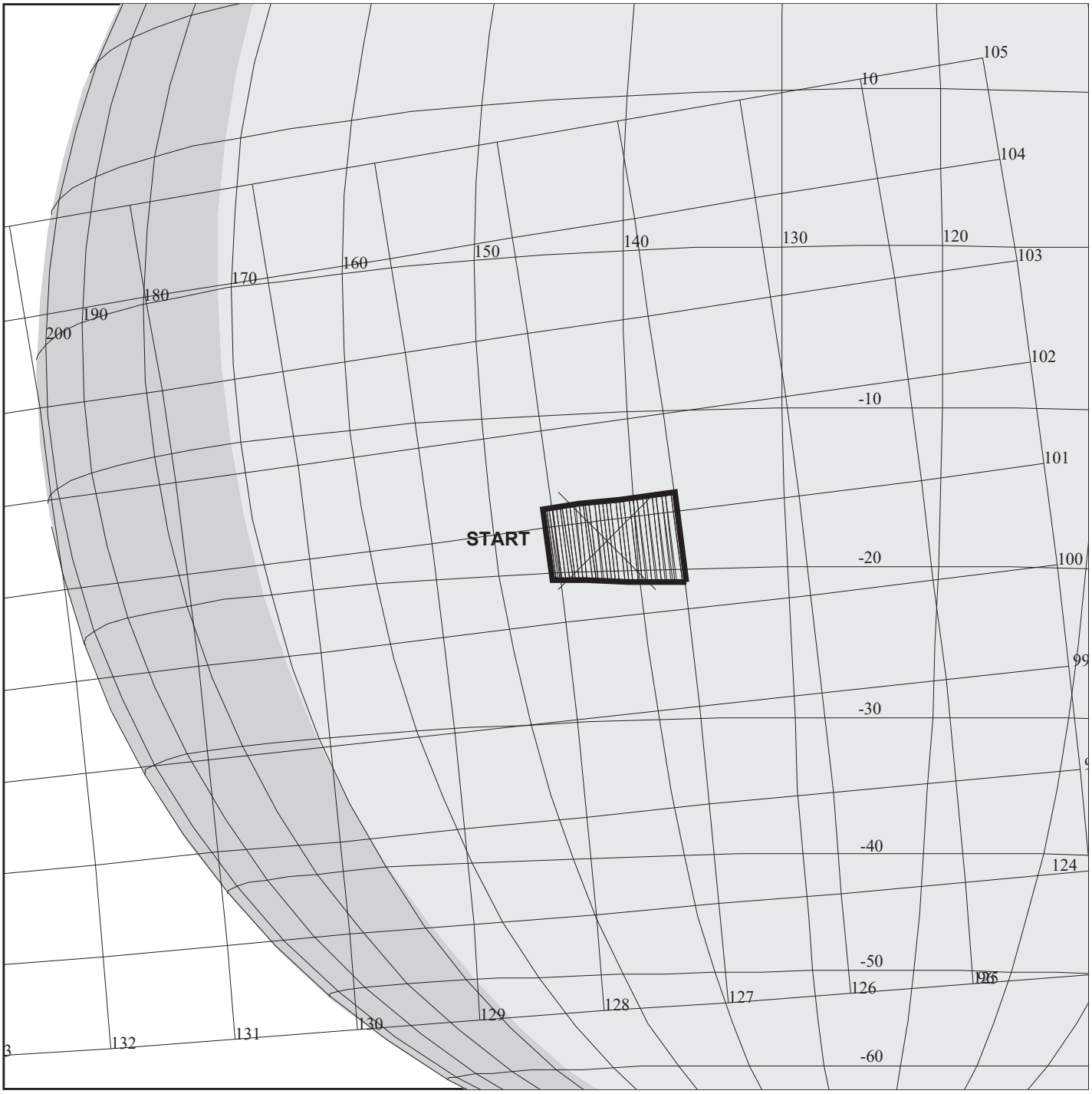
BTG=3.05 MB, TICS=108, FMT=MPW, LM, Gain State 2

one-scan mosaic covering caldera and extending east and west.
Center at 4 deg S. latitude, 120 deg W. longitude.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 2, Grating Start 0, MPW, ILM408, ILM144A
Fixed Long Map (XLM), Gain 2, Grating Start 0, MPW, ILM408, ILM144B
Fixed Long Map (XLM), Gain 2, Grating Start 0, MPW, ILM408, ILM288

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DF:TT= 0 TMC= 1 C= 8.30 XC= 0.50 BS= 0/5678 TC= 1(-18 142)
A= 182 pD= 1638 SR=17.450 RA50= 47.20 DEC50= 26.21 cone=128.07 clock=100.83
117DF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5678
1:#s= 1 Cs= -16.30 XCs= -1.00 Cr= 0.00 XCr= 8.00 sD= 1638 rD= 2

32INITUPAN01

DESIGN G3.2 yande: 8/23/2001 13:57:28

FILE:P.32INITUPAN01

TARGET BODY : IO

MINI:m.32INITUPAN01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 01-289/01:22:53.466 +CDS 35:00:0 **BODY PLOT TIME:TARGET-TIME D= 1638 S= 1.500**

OBSERVATION:32INITUPAN01 **DESCRIP:IO_TUPAN**

Io Tupan Obs

ACTIVITY ID: 32INITUPAN01-
START TIME: 01-289/01:57:16.132

Activity ID: Orbit 32 Target I Inst N OAPEL ITUPAN SeqNo 01 -

Title	Io Tupan Obs			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	10/16/01 Week 42
Start	IEE+CDS	00000034:00:0	01-289/01:57:16.132		IEE+000/00:34:22.666
End	IEE+CDS	00000044:00:0	01-289/02:07:22.799		IEE+000/00:44:29.333
Duration		00000010:00:0	000/00:10:06.667		000/00:10:06.667

Top Label 32INITUPAN01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate thermal and SO2 distribution inside and around Tupan Patera, an active caldera that displays red deposits.

Data Returned

Design Detail

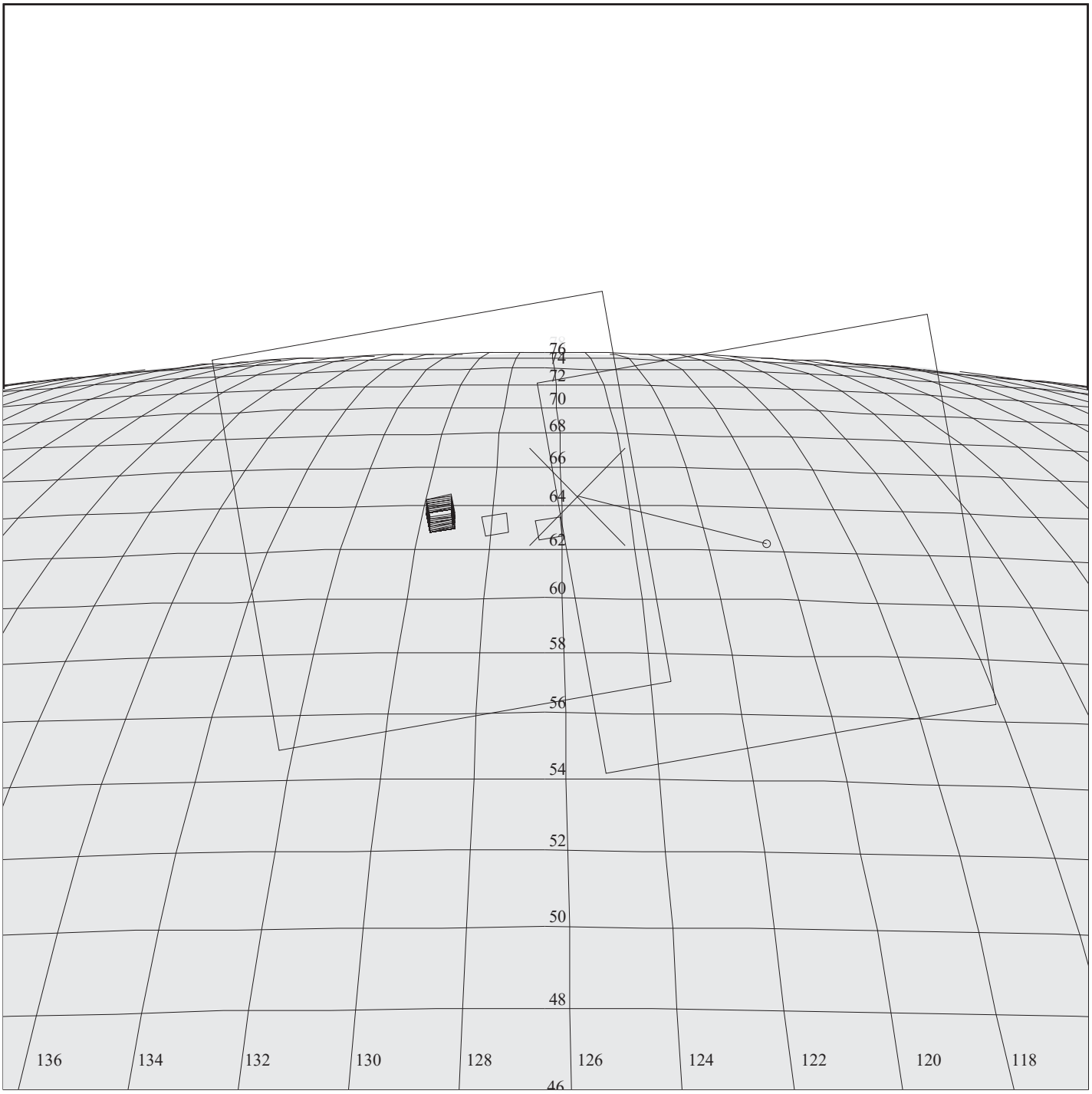
BTG=3.05 MB, TICS=477, FMT=MPW, LM, Gain State 2

one-scan mosaic centered on Tupan.
Center at 30 deg S. latitude, 160 deg W. longitude.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM72
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144A
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144B
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM288
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM360

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165IL:TT= 0 TMC= 1 C= -3.65 XC= -1.63 BS=26/7498 TC= 1(64.4 125.5)
A= 222 pD= 32 SR=17.450 RA50= 42.95 DEC50= 29.89 cone=124.90 clock=106.05
118IL:#SB= 1 Cs= 6.50 XCs= 1.63 TPP= 26 SR= 3.300 RR=12.000 BM=F RC= 1 BS=29/7498
1:#s= 2 #p= 1 Cr= 0.00 XCr= 0.00

32INTVASHT01

DESIGN G3.2 frank: 3/ 5/2002 13: 4:59

FILE:P.32ISTVASHT01

TARGET BODY : IO

MINI:m.32ISTVASHT01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:IEE 01-289/01:22:53.466 +CDS 45:00:0 **BODY PLOT TIME:TARGET-TIME D= 32 S= 8.000**

OBSERVATION:32ISTVASHT01 **DESCRIP:TVASHTAR**

SSI Io Tvashtar Obs

ACTIVITY ID: 32INTVASHT01-
START TIME: 01-289/02:07:22.799

Activity ID: Orbit 32 Target I Inst N OAPEL TVASHT SeqNo 01 -

Title	SSI Io Tvashtar OBS			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	10/16/01 Week 42
Start	IEE+CDS	00000044:00:0	01-289/02:07:22.799		IEE+000/00:44:29.333
End	IEE+CDS	00000046:00:0	01-289/02:09:24.132		IEE+000/00:46:30.666
Duration		00000002:00:0	000/00:02:01.333		000/00:02:01.333

Top Label 32INTVASHT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Ride-along with SSI Tvashtar observation 32ISTVASHT01.

First medium range look at Tvashtar since the large plume eruption in late 2000; will be used to investigate the changes that have occurred since the last good look in February 2000 (I27). Should reveal whether Tvashtar is still active and identify the specific sites of any activity.

Design Detail

ALIAS: 32ISTVASHT01

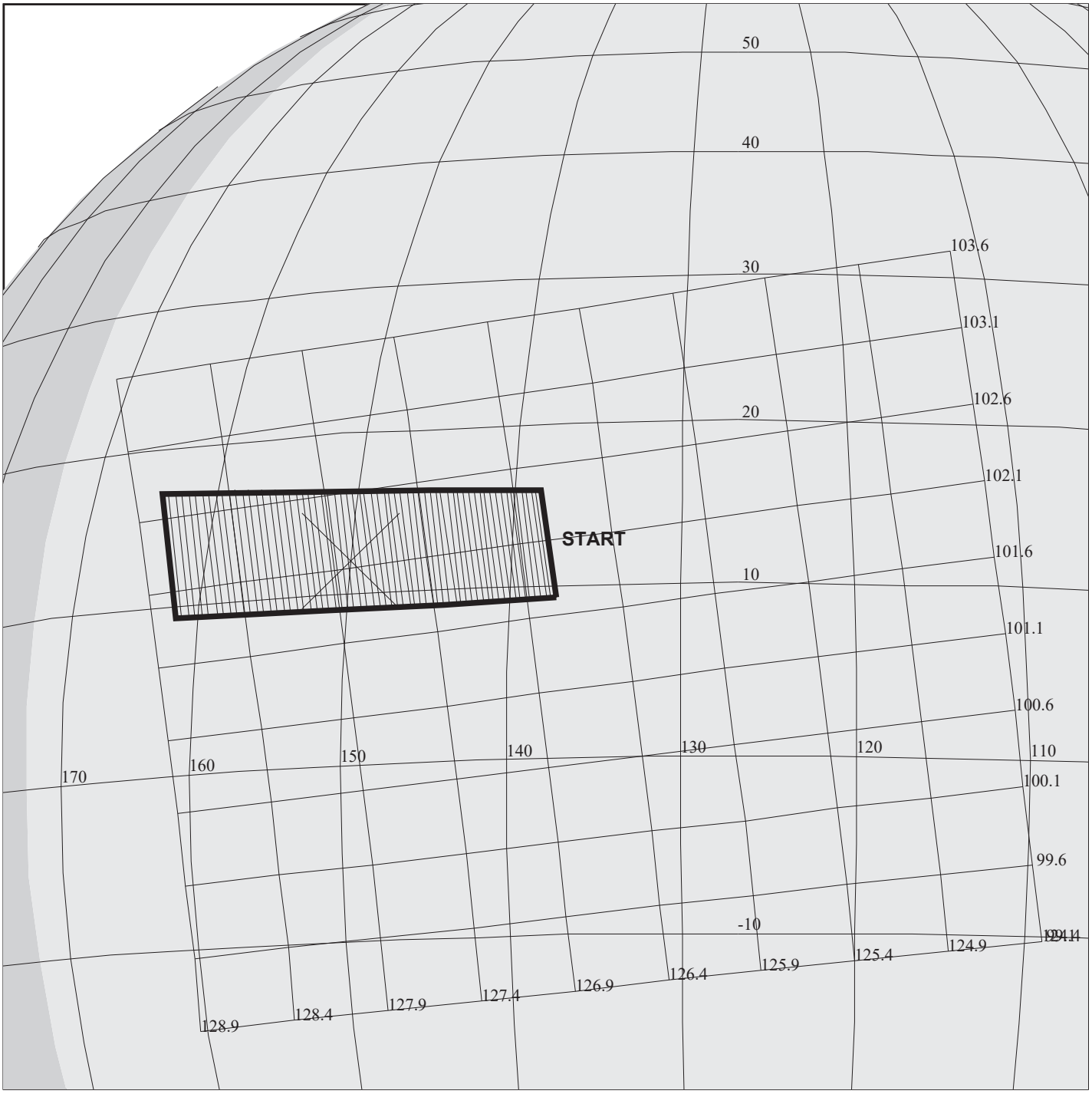
1x2 Im8 mosaic, CLR filter, 1 record, 462 tics.
Latitude +62.5 deg, longitude 122.5 deg W. Resolution 355 m/pixel.

NIMS: ride-along behind SSI.
Fixed Spectrometer (Safe) mode, Gain State 2, Chopper 63 Hz.
NIMS footprints in center of second SSI frame.

CHOPPER 63 HZ MODE

Fixed Spectrometer (XS), Gain 2, Grating Start 0, IM8, IXS17, IXS15

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DG:TT= 0 TMC= 1 C= -18.50 XC= -1.00 BS= 0/7862 TC= 1(12 150)
A= 142 pD= 1636 SR=17.450 RA50= 45.54 DEC50= 26.97 cone=126.73 clock=102.08
117DG:#SB= 1 OR= 0.050 RR=12.000 BM=F RC= 1 BS= 0/7862
1:#s= 1 Cs= 32.40 XCs= 3.00 Cr= 0.00 XCr= 8.00 sD= 1636 rD= 2

32INICHAAC01

DESIGN G3.2 yande: 8/23/2001 13:56: 9

FILE:P.32INICHAAC01

TARGET BODY : IO

MINI:m.32INICHAAC01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 01-289/01:22:53.466 +CDS 47:00:0 **BODY PLOT TIME:TARGET-TIME D= 1636 S= 1.700**

OBSERVATION:32INICHAAC01 **DESCRIP:IO_CHAAC**

Io Chaac Obs

ACTIVITY ID: 32INICHAAC01-
START TIME: 01-289/02:09:24.132

Activity ID: Orbit 32 Target I Inst N OAPEL ICHAAC SeqNo 01 -

Title	Io Chaac Obs			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE+CDS 00000046:00:0	01-289/02:09:24.132		IEE+000/00:46:30.666	
End	IEE+CDS 00000056:00:0	01-289/02:19:30.799		IEE+000/00:56:37.333	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label	32INICHAAC01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate thermal and SO2 distribution inside the Chaac caldera and other small calderas in the region, some of which have very bright white deposits.

Data Returned

Design Detail

BTG=3.05 MB, TICS=455, FMT=MPW, LM, Gain State 2

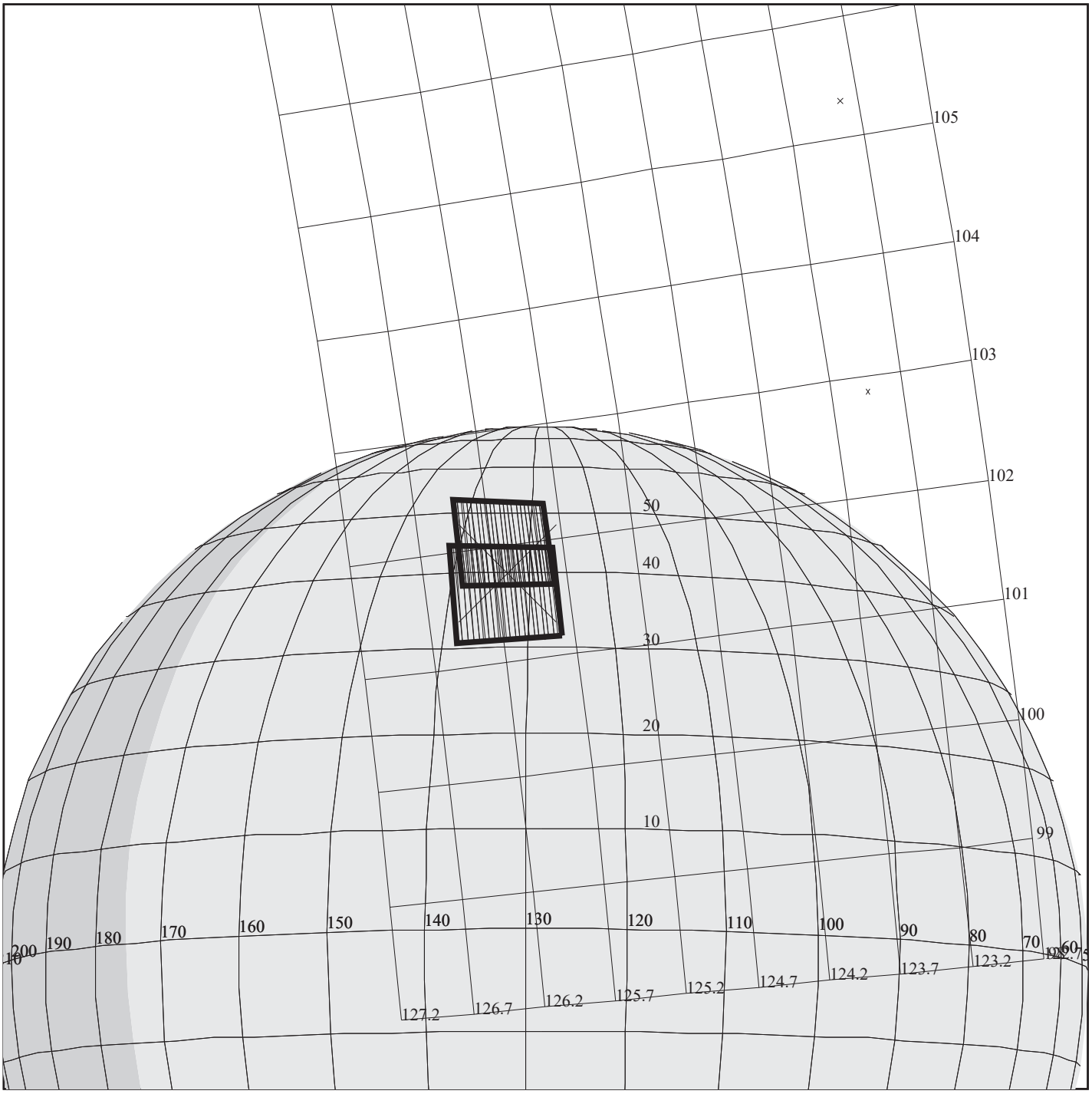
one-scan mosaic going from Chaac to the east.
Center at 12 deg N. latitude, 158 deg W. longitude.

Scan platform slew rate increased from nominal 0.03 to 0.06 to cover twice as much territory in the allotted time.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM72
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144A
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144B
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM288
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM360

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DH:TT= 0 TMC= 1 C= -5.50 XC= 2.80 BS= 0/0410 TC= 1(40 133)
A= 182 pD= 2178 SR=17.450 RA50= 44.53 DEC50= 26.73 cone=125.79 clock=101.96
117DH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0410
1:#s= 2 Cs= 10.50 XCs= 1.30 Cr= -10.00 XCr= -7.00 sD= 1064 rD= 46

32INHTSPOT01

DESIGN G3.2 yande: 9/28/2001 13: 5:37

FILE:P.32INHTSPOT01

TARGET BODY : IO

MINI:m.32INHTSPOT01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 01-289/01:22:53.466 +CDS 61:00:0

BODY PLOT TIME:TARGET-TIME D= 2178 S= 1.000

OBSERVATION:32INHTSPOT01

DESCRIP:PROMETHEUS_PLUME

Io Hot Spot Obs

ACTIVITY ID: 32INHTSPOT01-
START TIME: 01-289/02:23:33.466

Activity ID: Orbit 32 Target I Inst N OAPEL HTSPOT SeqNo 01 -

Title	Io Hot Spot Obs			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE+CDS	00000060:00:0	01-289/02:23:33.466	IEE+000/01:00:40.000	
End	IEE+CDS	00000073:00:0	01-289/02:36:42.132	IEE+000/01:13:48.666	
Duration		00000013:00:0	000/00:13:08.666	000/00:13:08.666	

Top Label	32INHTSPOT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate thermal and SO2 distribution around a new hot spot recently discovered in I31.

Data Returned

Design Detail

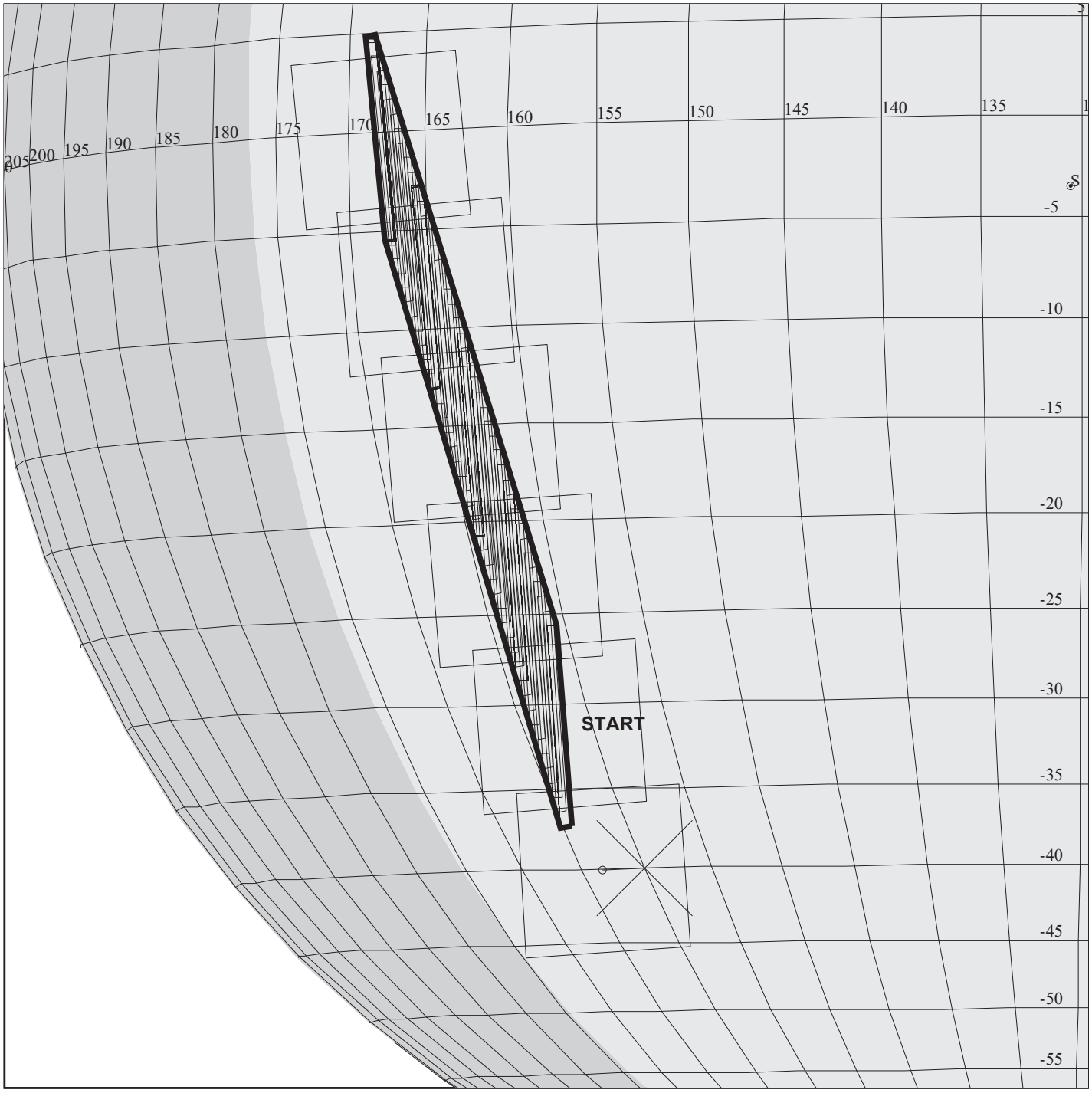
BTG=4.57 MB, TICS=583, FMT=MPW, LM, Gain State 2

two-scan mosaic across the new hot spot region.
Center at 40 deg N. latitude, 133 deg W. longitude.
This observation originally targetted the Prometheus region (32INPROMTH01).

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM72
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144A
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM144B
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM288
Fixed Long Map (XLM), Gain 1, Grating Start 0, MPW, ILM408, ILM360

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165IJ:TT= 0 TMC= 1 C= 2.04 XC= 0.00 BS= 0/2958 TC= 1(-40.0 160.0)
A= 342 pD= 136 SR=17.450 RA50= 47.80 DEC50= 21.60 cone=127.74 clock= 94.97
118IJ:#SB= 1 Cs= 1.72 XCs= 7.31 TPP= 26 SR= 2.800 RR=12.000 BM=F RC= 1 BS= 3/2958
1:#s= 6 #p= 1 Cr= 0.00 XCr= 0.00

32INTERMIN01

DESIGN G3.2 frank: 3/ 5/2002 13: 1:25

FILE:P.32ISTERMIN01

TARGET BODY : IO

MINI:m.32ISTERMIN01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 01-289/01:22:53.466 +CDS 75:00:0

BODY PLOT TIME:TARGET-TIME D= 136 S= 2.000

OBSERVATION:32ISTERMIN01

DESCRIP:TERMINATOR

SSI Io Terminator Obs

ACTIVITY ID: 32INTERMIN01-
START TIME: 01-289/02:36:42.132

Activity ID: Orbit 32 Target I Inst N OAPEL TERMIN SeqNo 01 -

Title	SSI Io Terminator OBS			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE+CDS	00000073:10:0	01-289/02:36:42.132	IEE+000/01:13:48.666	
End	IEE+CDS	00000075:70:0	01-289/02:39:30.132	IEE+000/01:16:36.666	
Duration		00000002:70:0	000/00:02:48.000	000/00:02:48.000	

Top Label 32INTERMIN01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Ride-along with SSI Terminator observation 32ISTERMIN01.

Coverage of Mycenae Regio, Tohil Mons and Patera, Culann Patera, and another patera west of Prometheus, in the near-terminator viewing geometry which is best for observing the topography of geologic features. The topographic information will improve our understanding of these features greatly.

Design Detail

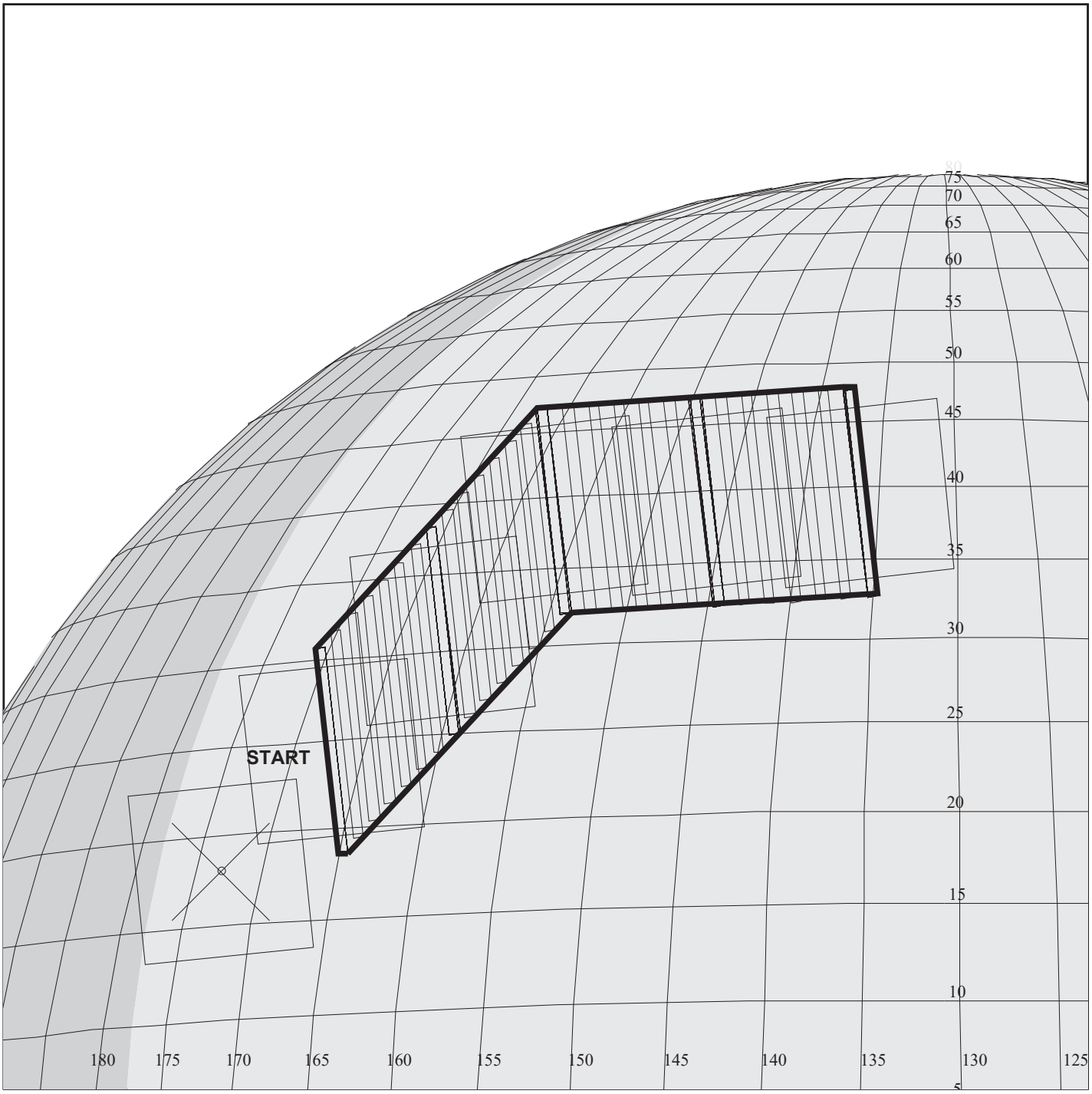
ALIAS: 32ISTERMIN01

6x1 IM8 mosaic, CLR filter, 1 record, 1315 tics.
Latitude -45 to +4 deg, longitude 160 to 170 deg W. Resolution 332 m/pixel.

NIMS: ride-along behind SSI.
Long Map mode, Gain State 2, Chopper Reference.
NIMS footprints slew across the SSI mosaic with some overlap.

Fixed Long Map (XLM), Gain 2, Grating Start 0, IM8, ILM408, ILM360

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165IK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=13/3322 TC= 1(18.0 173.0)
A= 212 pD= 136 SR=17.450 RA50= 47.60 DEC50= 24.61 cone=128.16 clock= 98.76
118IK:#SB= 1 Cs= -5.90 XCs= 5.20 TPP= 26 SR= 2.800 RR=12.000 BM=F RC= 1 BS=16/3322
1:#s= 4 #p= 1 Cr= 0.00 XCr= 0.00
116IK:OR= 3.700 Cs= -7.30 XCs= -0.40 sD= 18 BS=56/3322 TF=N
116JK:OR= 3.700 Cs= -7.30 XCs= -0.40 sD= 18 BS=69/3322 TF=N

32INTERMIN02

DESIGN G3.2 frank: 3/ 5/2002 13: 3:29

FILE:P.32ISTERMIN02

TARGET BODY : IO

MINI:m.32ISTERMIN02

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 01-289/01:22:53.466 +CDS 77:00:0

BODY PLOT TIME:TARGET-TIME D= 136 S= 2.000

OBSERVATION:32ISTERMIN02

DESCRIP:TERMINATOR

SSI Io Terminator Obs

ACTIVITY ID: 32INTERMIN02-
START TIME: 01-289/02:39:30.132

Activity ID: Orbit 32 Target I Inst N OAPEL TERMIN SeqNo 02 -

Title	SSI Io Terminator OBS			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE+CDS 00000075:70:0	01-289/02:39:30.132		IEE+000/01:16:36.666	
End	IEE+CDS 00000077:80:0	01-289/02:41:38.132		IEE+000/01:18:44.666	
Duration	00000002:10:0	000/00:02:08.000		000/00:02:08.000	

Top Label 32INTERMIN02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Ride-along with SSI Terminator observation 32ISTERMIN02.

Near-terminator observation covering Zamama, Volund, a possible shield volcano, and two intriguing large, yellow paterae to the north. Will provide significant insight into the emplacement of flows at Zamama and Volund, and into the true nature of the potential shield volcano and the northern paterae.

Observation modified to look at new hotspot first seen in I31.

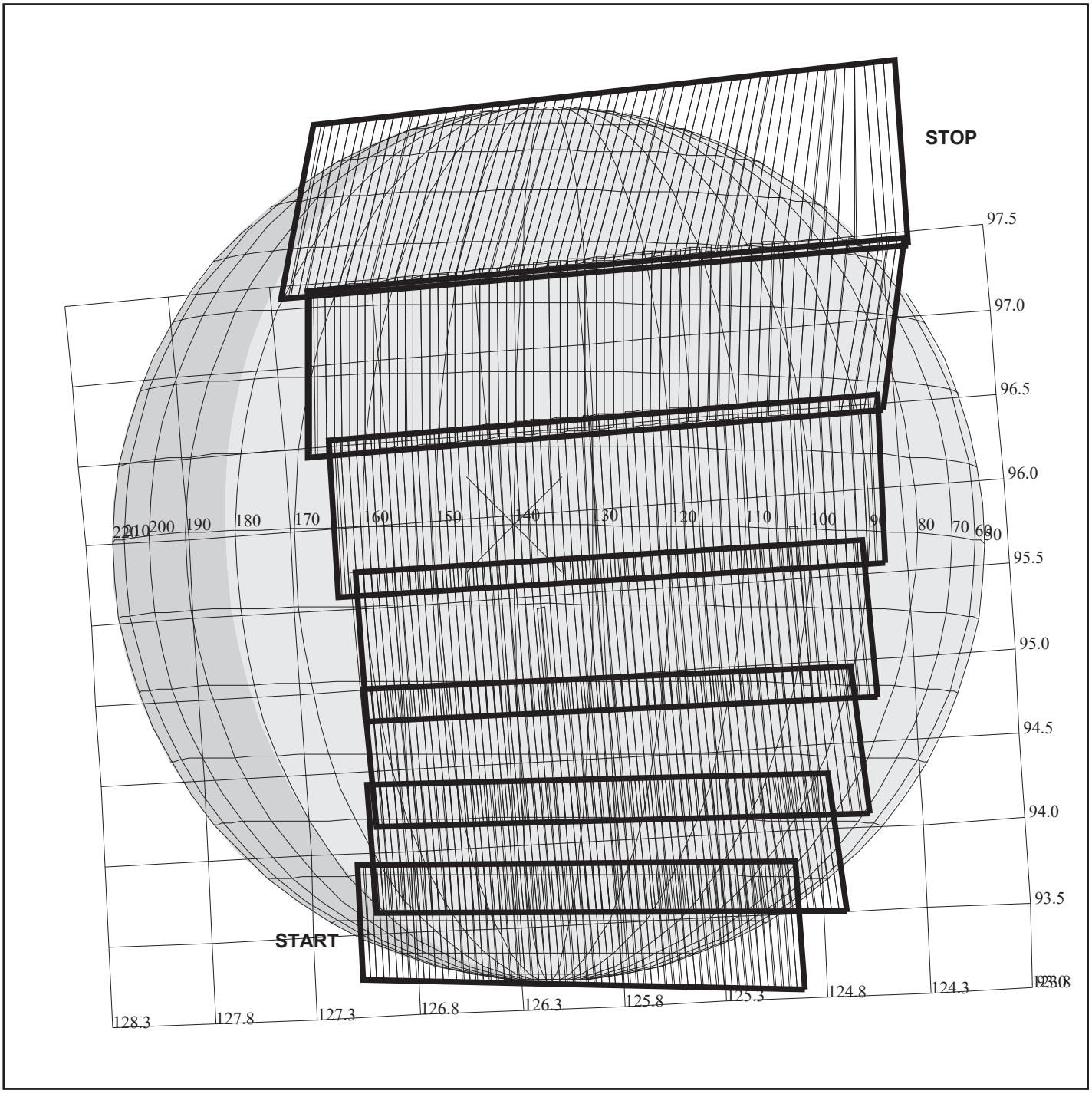
Design Detail

ALIAS: 32ISTERMIN02

6x1 IM8 mosaic, CLR filter, 1 record, 1315 tics.
Latitude +14 to +45 deg, longitude 130 to 178 deg W. Resolution 340 m/pixel.

NIMS: ride-along behind SSI.
Long Map mode, Gain State 2, Chopper Reference.
NIMS footprints slew across the SSI mosaic with no overlap.

Fixed Long Map (XLM), Gain 2, Grating Start 0, IM8, ILM408, ILM360



165DI:TT= 0 TMC= 1 C= 15.00 XC= -33.20 BS= 0/9146 TC= 1(0 140)
A= 182 pD= 11636 SR=17.450 RA50= 47.37 DEC50= 20.41 cone=127.09 clock= 93.62
117DI:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/9146
1:#s= 7 Cs= -32.35 XCs= 1.00 Cr= 32.60 XCr= 7.60 sD= 1628 rD= 40

32INREGION01

DESIGN G3.2 yande: 9/ 6/2001 18:38: 1

FILE:P.32INREGION01

TARGET BODY : IO

MINI:m.32INREGION01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 01-289/01:22:53.466 +CDS 109:00:0

BODY PLOT TIME:TARGET-TIME D=11636 S= 0.800

OBSERVATION:32INREGION01

DESCRIP:IO_REGION_01

Io Regional Map

ACTIVITY ID: 32INREGION01-
START TIME: 01-289/03:11:04.799

Activity ID: Orbit 32 Target I Inst N OAPEL REGION SeqNo 01 -

Title	Io Regional Map			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE+CDS 00000107:00:0	01-289/03:11:04.799		IEE+000/01:48:11.333	
End	IEE+CDS 00000170:00:0	01-289/04:14:46.799		IEE+000/02:51:53.333	
Duration	00000063:00:0	000/01:03:42.000		000/01:03:42.000	

Top Label	32INREGION01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To map distribution of hot spots and SO2 from pole to pole.

Data Returned

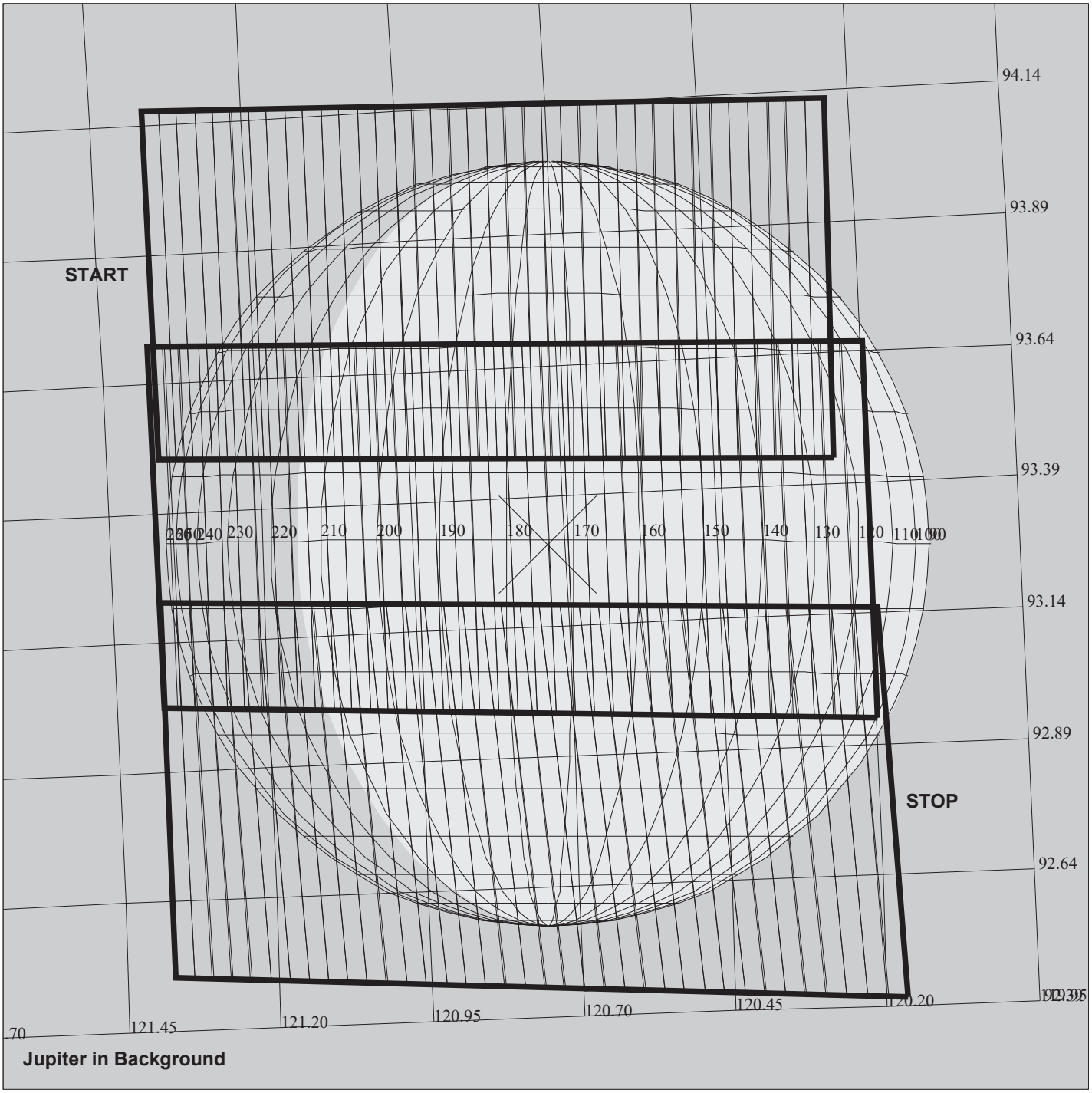
Design Detail

BTG=10.37 MB, TICS=969, FMT=LPU, FM, Gain State 2

Pole to pole multi-scan (7) mosaic of the central longitudes of Io.
Entire disk not covered.
Center at 0 deg N. latitude, 135 deg W. longitude.
Equatorial longitudinal coverage: 90 to 165 degress W. longitude.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Full Map (XFM), Gain 2, Grating Start 0, LPU, IFM120, IFM36A
Fixed Full Map (XFM), Gain 2, Grating Start 0, LPU, IFM120, IFM48A
Fixed Full Map (XFM), Gain 2, Grating Start 0, LPU, IFM120, IFM84
Fixed Full Map (XFM), Gain 2, Grating Start 0, LPU, IFM120, IFM36D
Fixed Full Map (XFM), Gain 2, Grating Start 0, LPU, IFM120, IFM120



Jupiter in Background

165DJ:TT= 0 TMC= 1 C= 11.00 XC= 8.00 BS= 0/0642 TC= 3
A= 182 pD= 5816 SR=17.450 RA50= 41.43 DEC50= 19.15 cone=121.36 clock= 93.83
117DJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0642
1:#s= 3 Cs= -19.05 XCs= -1.00 Cr= 18.75 XCr= -6.00 sD= 1916 rD= 34

32INREGION02

DESIGN G3.2 yande: 9/ 6/2001 19:12:57

FILE:P.32INREGION02

TARGET BODY : IO

MINI:m.32INREGION02

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 01-289/01:22:53.466 +CDS 337:00:0 **BODY PLOT TIME:TARGET-TIME D= 5816 S= 0.700**

OBSERVATION:32INREGION02 **DESCRIP:IO_REGION_01**

Io Regional Map

ACTIVITY ID: 32INREGION02-
START TIME: 01-289/07:03:38.132

Activity ID: Orbit 32 Target I Inst N OAPEL REGION SeqNo 02 -

Title	Io Regional Map			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	IEE+CDS 00000337:00:0	01-289/07:03:38.132		IEE+000/05:40:44.666	
End	IEE+CDS 00000370:00:0	01-289/07:37:00.132		IEE+000/06:14:06.666	
Duration	00000033:00:0	000/00:33:22.000		000/00:33:22.000	

Top Label	32INREGION02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To map distribution of hot spots and SO2 from pole to pole.

Data Returned

Design Detail

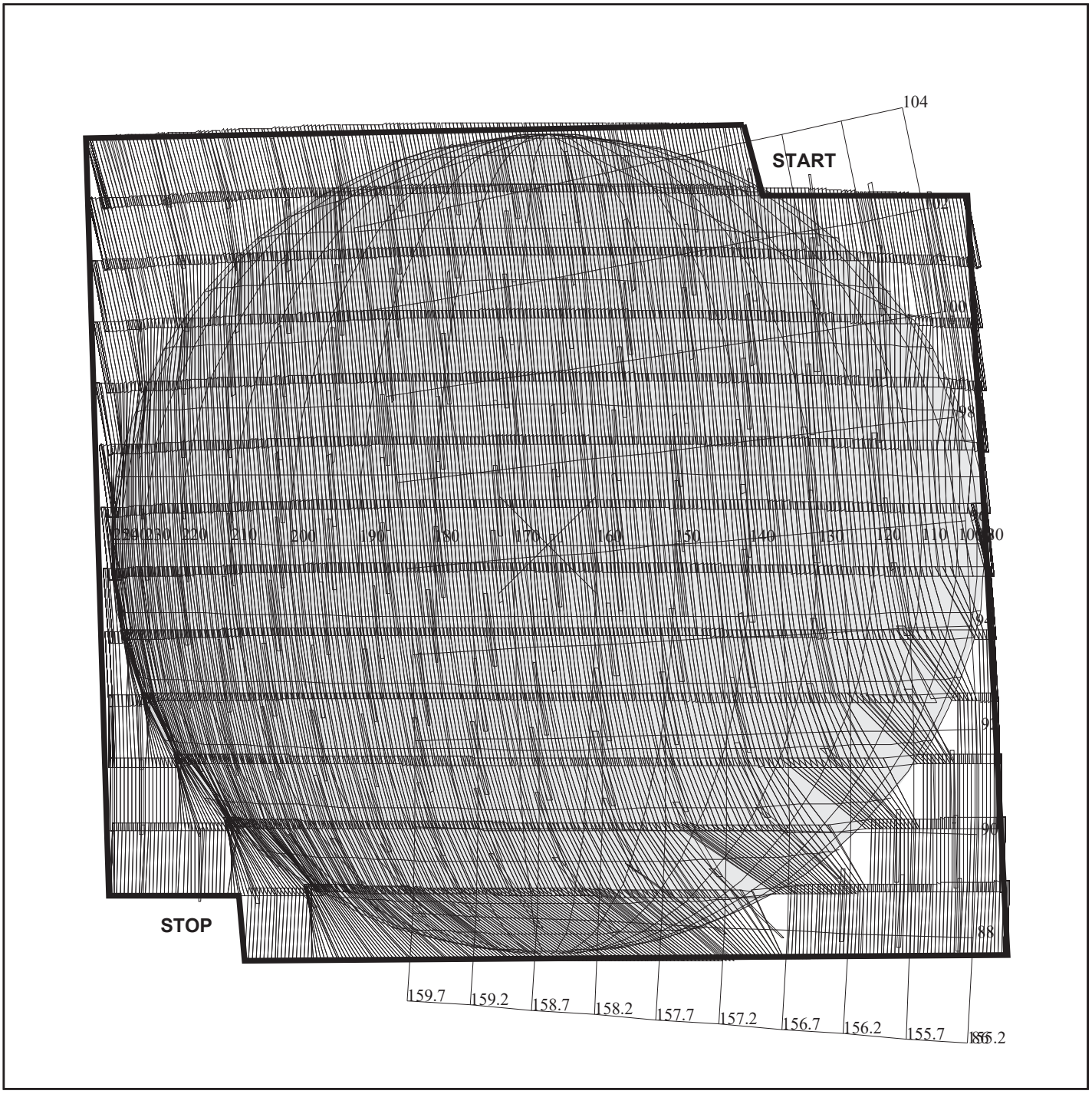
BTG=10.37 MB, TICS=794, FMT=LPU, LM, Gain State 2

Pole to pole three scan mosaic of the entire disk of Io.
Center at 0 deg N. latitude, 175 deg W. longitude.
Equatorial longitudinal coverage: 85 to 265 degress W. longitude.

Jupiter is in the background behind Io.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, ILM252, ILM72A
Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, ILM252, ILM72B
Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, ILM252, ILM144
Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, ILM252, ILM108
Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, ILM252, ILM252



165DK:TT= 0 TMC= 1 C= -65.70 XC= 40.20 BS= 0/3522 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 77.28 DEC50= 28.02 cone=154.82 clock=102.57
117DK:#SB= 1 OR= 0.760 RR=12.000 BM=F RC= 1 BS= 0/3522
1:#s= 13 Cs= 120.10 XCs= 23.00 Cr= -117.50 XCr= -31.23 sD= 502 rD= 62

32JNGLOBAL01

DESIGN G3.2 yande: 9/13/2001 16:34:55

FILE:P.32JNGLOBAL01

CENTRAL BODY:JUPITER III

MINI:m.32JNGLOBAL01

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 01-288/23:55:56.133 +CDS 1263:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800

OBSERVATION:32JNGLOBAL01

DESCRIP:JUPITER_GLOBAL_01

Jupiter Global Obs

ACTIVITY ID: 32JNGLOBAL01-
START TIME: 01-289/21:12:58.133

Activity ID: Orbit 32 Target J Inst N OAPEL GLOBAL SeqNo 01 -

Title	Jupiter Global Obs			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	10/16/01	Week 42
Start	JEE+CDS	00001263:00:0	01-289/21:12:58.133	JEE+000/21:17:02.000	
End	JEE+CDS	00001308:00:0	01-289/21:58:28.133	JEE+000/22:02:32.000	
Duration		00000045:00:0	000/00:45:30.000	000/00:45:30.000	

Top Label	32JNGLOBAL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Jupiter global observation.
Northern aurora loop also observed.

Data Returned

Design Detail

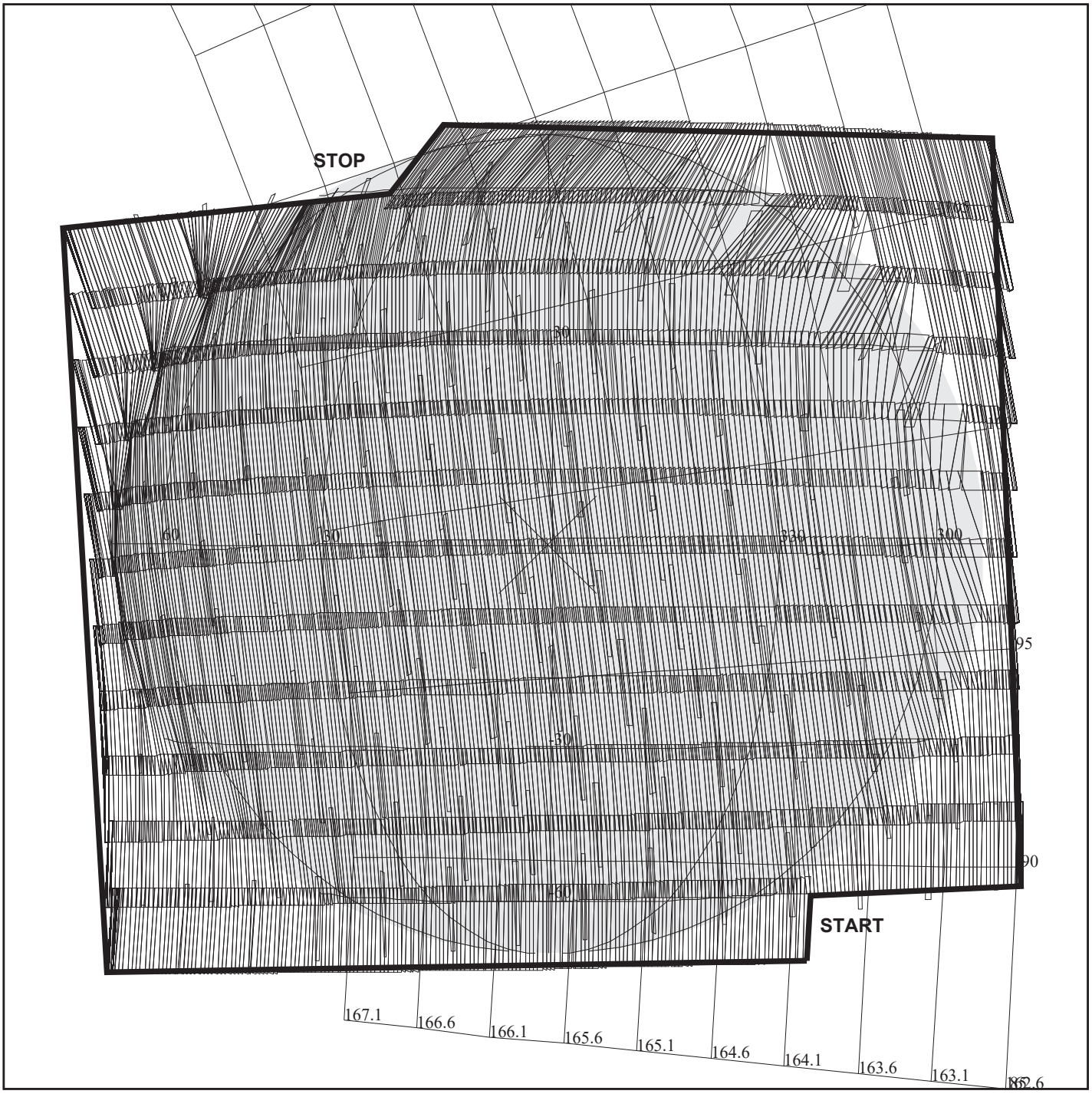
BTG=3.64 MB, TICS=213, FMT=LPU, XM, Gain State 2

Pole to pole 13 scan mosaic of the entire disk of Jupiter.
Center at 0 deg N. latitude, 165 deg W. longitude.
Equatorial longitudinal coverage: 75 to 255 degress W. longitude.
Mosaic starts at the north polar region.
Northern aurora loop centered near 170 W. longitude.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Map (XM), Gain 2, Grating Start 0, LPU, JXM10, JXM7

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DL:TT= 0 TMC= 1 C= -54.00 XC= -41.50 BS= 0/3582 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 85.66 DEC50= 22.88 cone=162.59 clock= 89.08
117DL:#SB= 1 OR= 0.760 RR=12.000 BM=F RC= 1 BS= 0/3582
1:#s= 12 Cs= 107.50 XCs= -6.00 Cr= -106.00 XCr= 13.70 sD= 502 rD= 64

32JNGLOBAL02

DESIGN G3.2 yande: 9/13/2001 15:55:19

FILE:P.32JNGLOBAL02

CENTRAL BODY:JUPITER III

MINI:m.32JNGLOBAL02

S/C EPH:/DATA/NAVIO/010810-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-288/23:55:56.133 +CDS 1593:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:32JNGLOBAL02 **DESCRIP:JUPITER_GLOBAL_02**

Jupiter Global Obs

ACTIVITY ID: 32JNGLOBAL02-
START TIME: 01-290/02:46:38.133

Activity ID: Orbit 32 Target J Inst N OAPEL GLOBAL SeqNo 02 -

Title	Jupiter Global Obs			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	10/17/01	Week 42
Start	JEE+CDS	00001593:00:0	01-290/02:46:38.133	JEE+001/02:50:42.000	
End	JEE+CDS	00001638:00:0	01-290/03:32:08.133	JEE+001/03:36:12.000	
Duration		00000045:00:0	000/00:45:30.000	000/00:45:30.000	

Top Label	32JNGLOBAL02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Jupiter global observation.
Southern aurora loop also observed.

Data Returned

Design Detail

BTG=3.64 MB, TICS=213, FMT=LPU, XM, Gain State 2

Pole to pole 12 scan mosaic of the entire disk of Jupiter.
Center at 0 deg N. latitude, 0 deg W. longitude.
Equatorial longitudinal coverage: 270 to 90 degress W. longitude.
Mosaic starts at the south polar region.
Southern aurora loop centered near 10 W. longitude.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Map (XM), Gain 2, Grating Start 0, LPU, JXM10, JXM7

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95

NIMS Chopper Off

ACTIVITY ID: 32NNCHOPOF01-
START TIME: 01-290/21:35:54.066

Activity ID: Orbit 32 Target N Inst N OAPEL CHOPOF SeqNo 01 -

Title	NIMS Chopper Off			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	10/17/01 Week 42
Start	JEE+CDS	00000000:00:0	01-290/21:35:54.066		JEE+000/00:00:00.000
End	JEE+CDS	00000000:00:0	01-290/21:40:57.400		JEE+000/00:00:00.000
Duration		00000000:00:0	000/00:05:03.333		000/00:00:00.000

Top Label 32NNCHOPOF01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Turn off NIMS Chopper.

Design Detail

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95

NIMS RCT Real Time Calibration — ACTIVITY ID: 32NNRCTRLT01-
START TIME: 01-346/15:10:51.466

Activity ID: Orbit 32 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	12/12/00	Week 50
Start	RTA+CDS	00000000:00:0	01-346/15:10:51.466	RTA+000/00:00:00.000	
End	RTA+CDS	00000000:00:0	01-347/04:21:33.400	RTA+000/00:00:00.000	
Duration		00000000:00:0	000/13:10:41.933	000/00:00:00.000	

Top Label 32NNRCTRLT01-
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 RCT Heaters cannot be on while that scan platform is in use.
The RCT calibration Library Sequence has been modified to turn off
the RCT heaters before slewing to zero cone to observe.
Hence the RCT is observed as it cools, instead of at a steady temperature.

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

Data Returned

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) Turn off RCT Heaters.
6) Slew to RCT (cone = 0.0), return 8 grating cycles (12 mf) in R/T
7) Slew to Dark (cone = 119.7), return 2 grating cycle (12 mf) in R/T
8) Slew to Safe (cone = 153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Fixed Long Map (XLM), Gain 1, Grating Start 0, R/T, RCT252

Galileo Activity Plan Form 05/31/00 10:48:23 rev 1/99

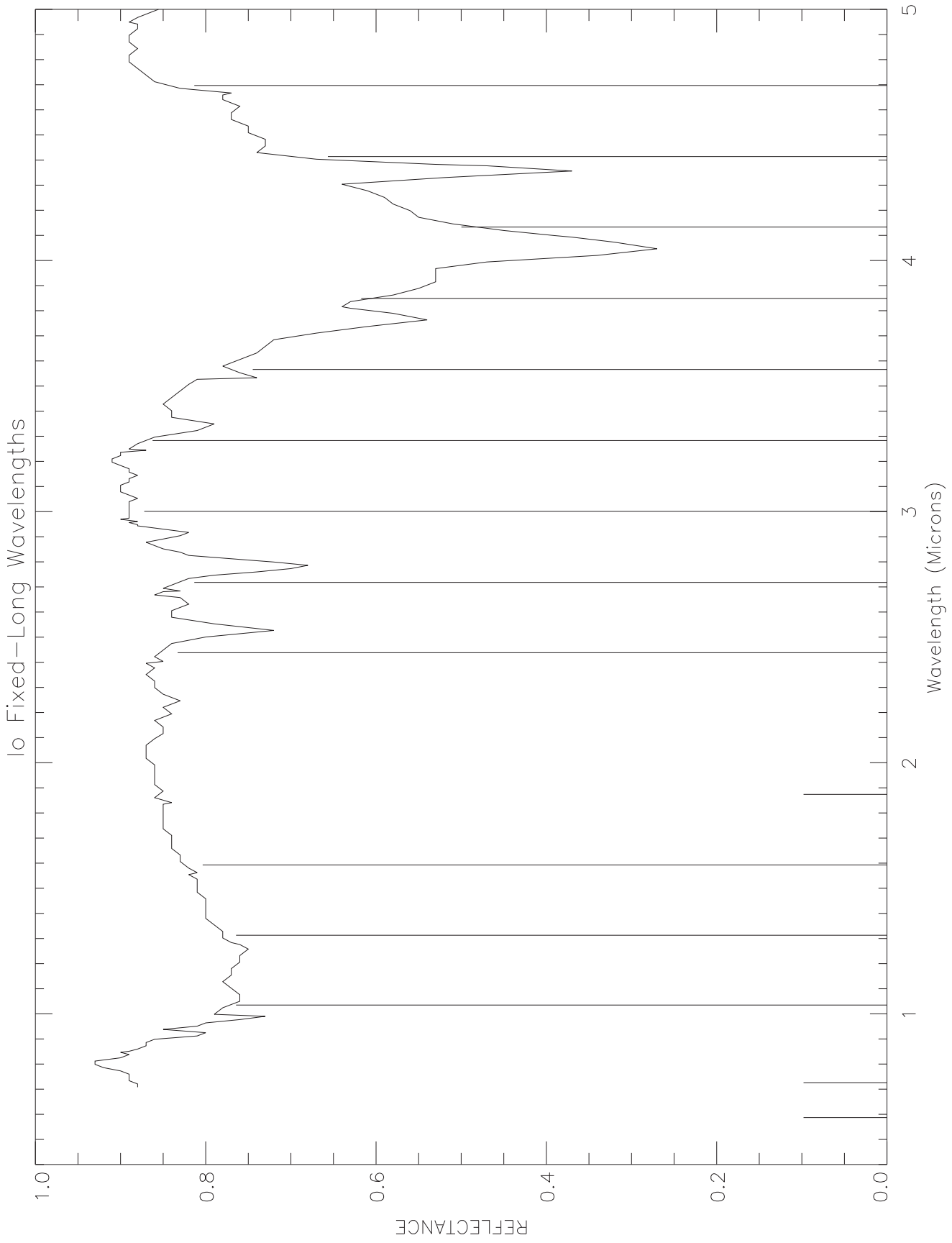
Chapter 6 - Edit Tables

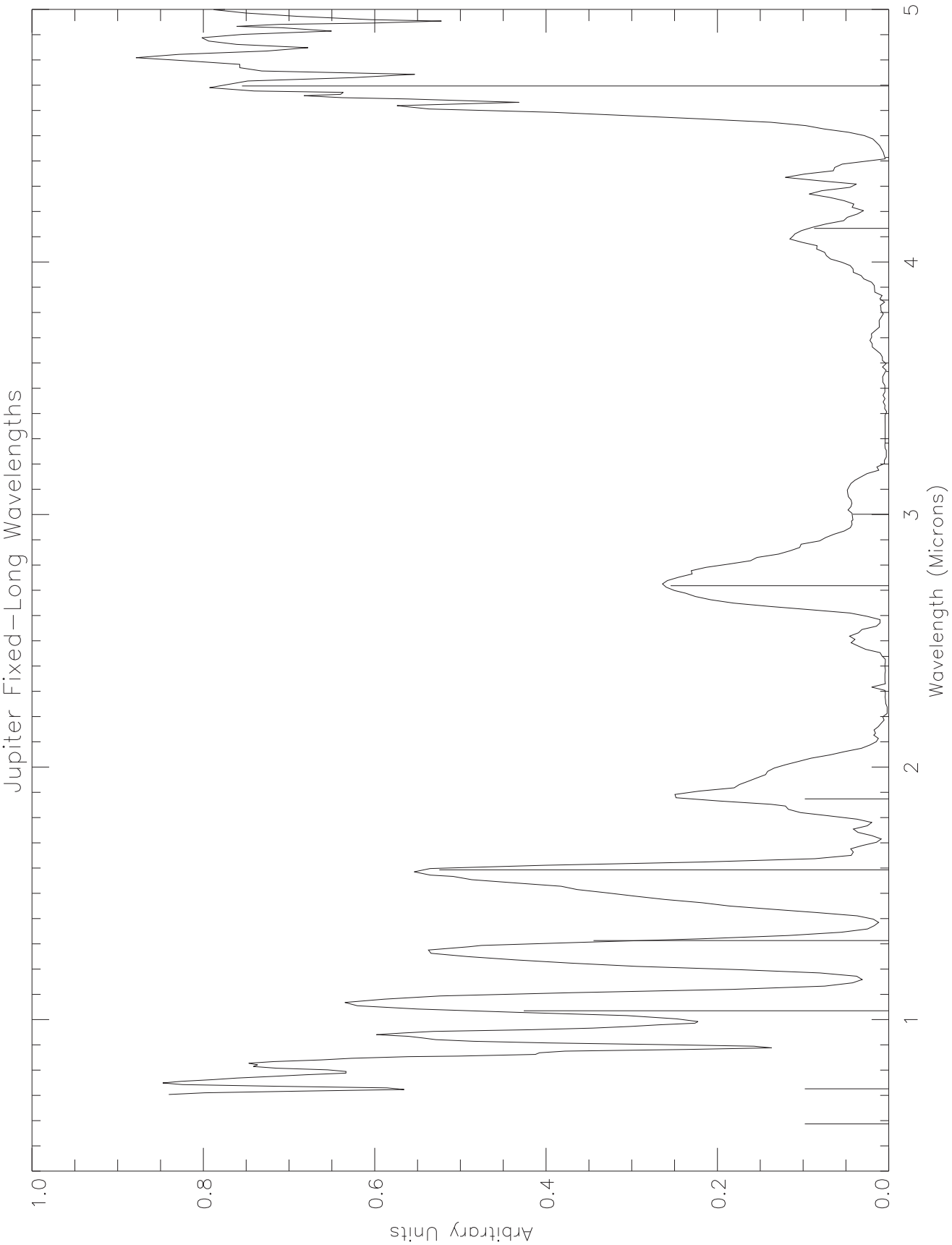
Contents

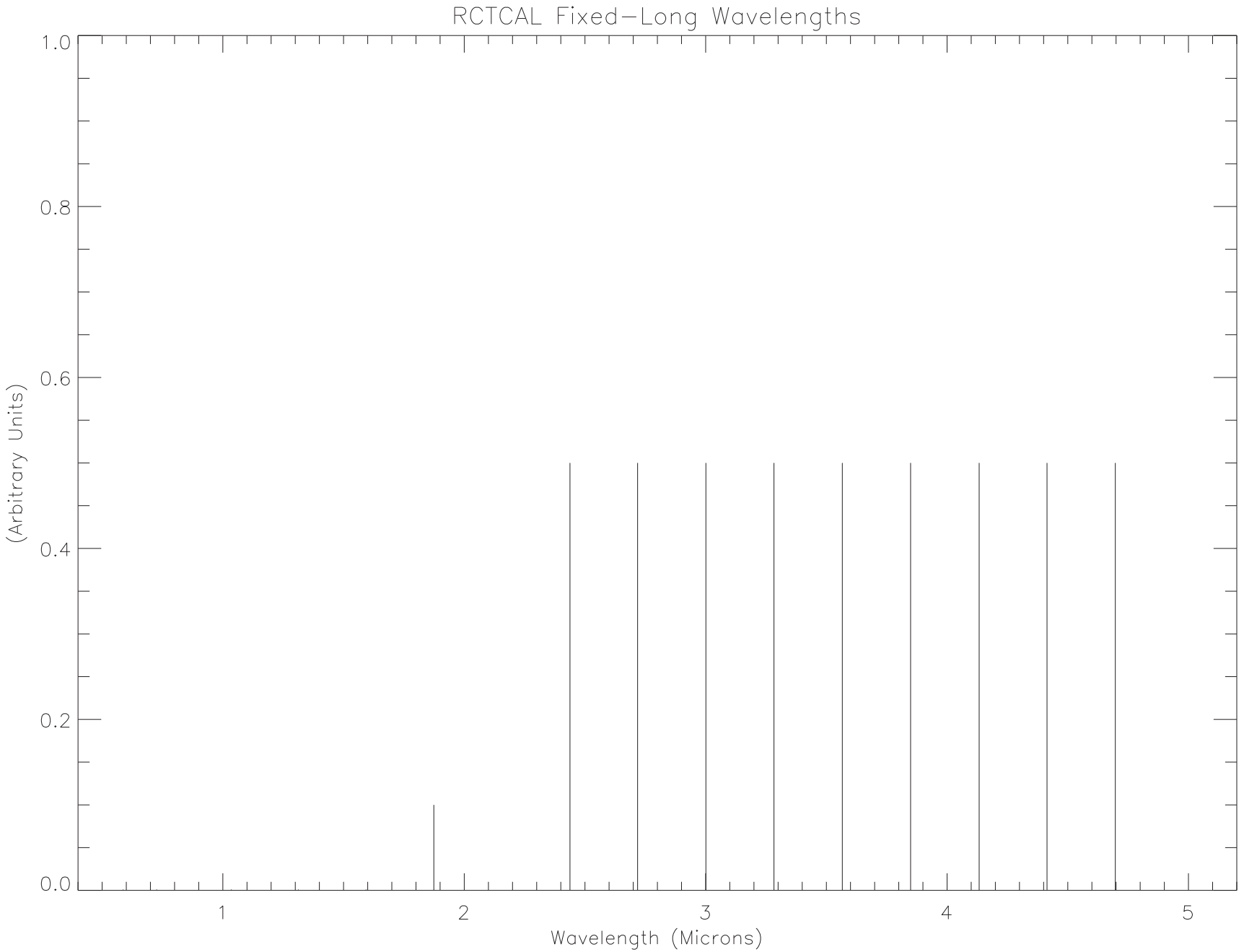
Introduction to Chapter 6

NIMS Edit Table Plots

This chapter contains plots of the NIMS Edit Tables used in I32. 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.


Io Fixed-Long Wavelengths
REFLECTANCE
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


Jupiter Fixed-Long Wavelengths
Arbitrary Units
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


RCTCAL Fixed–Long Wavelengths
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)

Chapter 7 - Data Return

Contents

Introduction to Chapter 7

This chapter is a report on the NIMS data return for the I32 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the I32 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.

The cruise portion of I32 was too short in duration to return all of the data recorded during the I32 encounter. Data were selected for playback to maximize science return. Due to a spacecraft safing event during the I33 encounter, some of the I32 data were not recorded over and were available for playback during I33 cruise.

There were fourteen autonomous reloads of the NIMS RAM code from CDS during the I32 encounter, one just before each science observation. One software halt was detected during I32. The approach that we are taking to avoid data loss due to processor halts has proven to be very successful.

The NIMS grating became stuck some time between C22 and I24. NIMS can now return only 17 (of 408) wavelengths. This has caused a drastic change in NIMS science capabilities. Detectors 1, 2 and 7 now have very low sensitivity. Detectors 3 and 8 are still not functioning. NIMS now returns only 12 useful wavelengths. Interesting science can still be carried out given the current condition of the insturment.

The plots on the pages 3 through 5 show the geometry of the NIMS I32 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 6 through 9 summarize the 'final' playback model for the I32 data returned during I32 and I33 cruise.

The text on page 10 gives a 'recap' of the I32 playback events which affected which observations were returned.

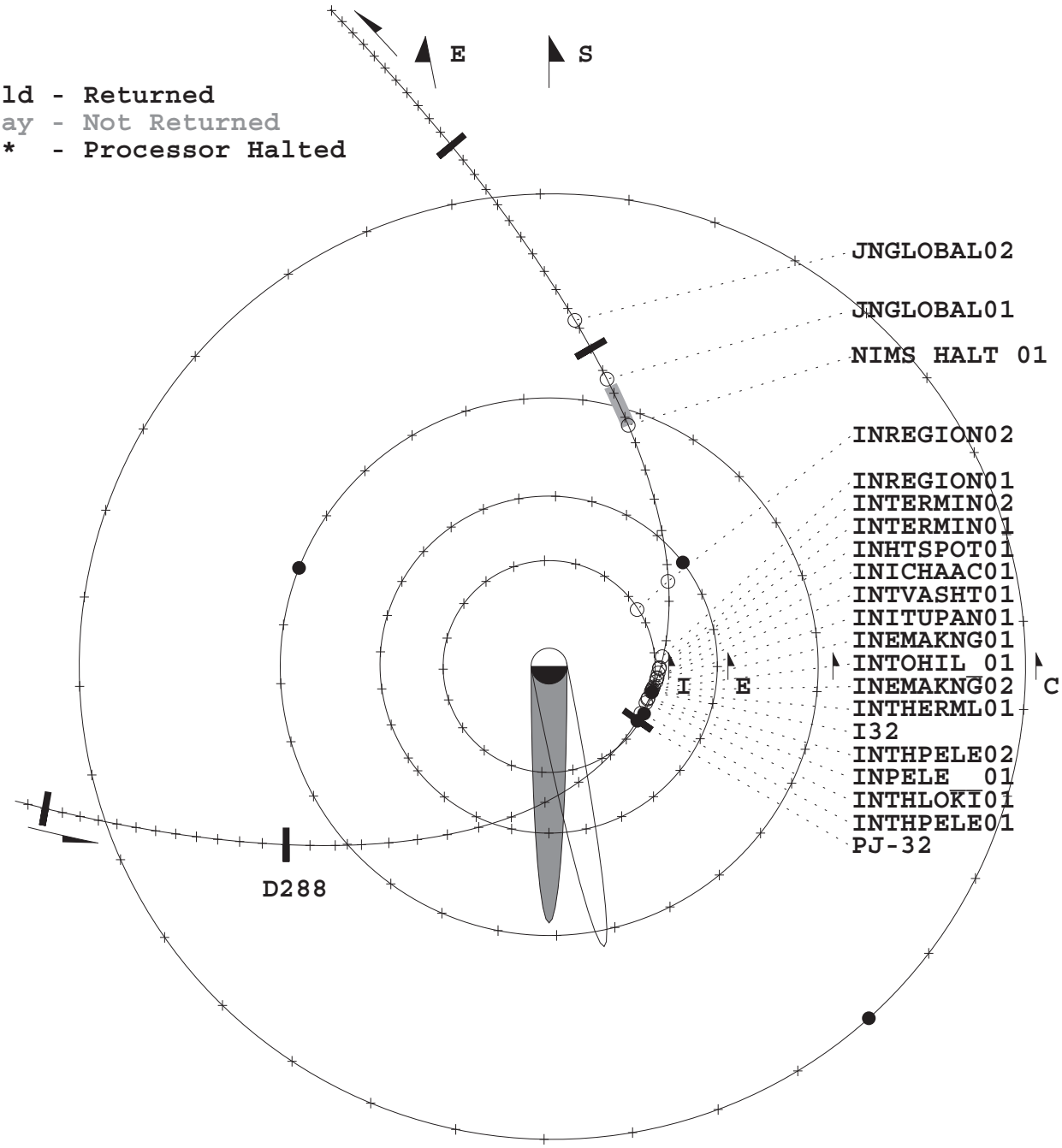
A Timeline of I32 playback events is on pages 10 through 17.

The text on pages 18 and 19 describes the I32 NIMS and Spacecraft Anomalies.

The text on page 20 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 21 and 22.

The text on page 23 is a guide to understanding the NIMS MASK.

NIMS I32 OBSERVATIONS



Time Ticks (Relative to PJ32)

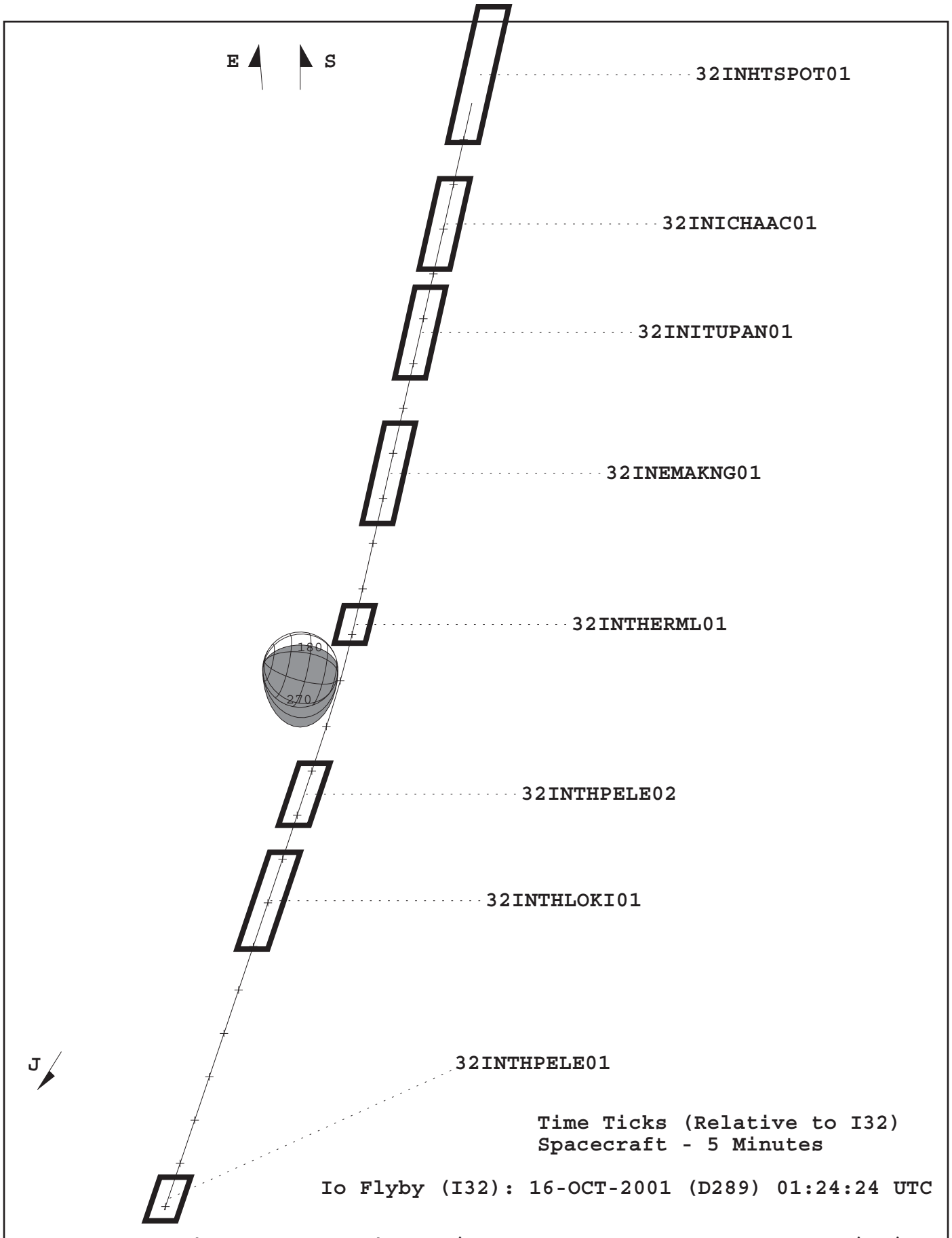
Io -	2 Hrs
Europa -	3 Hrs
Ganymede -	6 Hrs
Callisto -	12 Hrs
Spacecraft -	2 Hrs

Io Flyby (I32): 16-OCT-2001 (D289) 01:24:24 UTC
Perijove (PJ32): 15-OCT-2001 (D288) 23:57:03 UTC

I32 North Trajectory Pole View

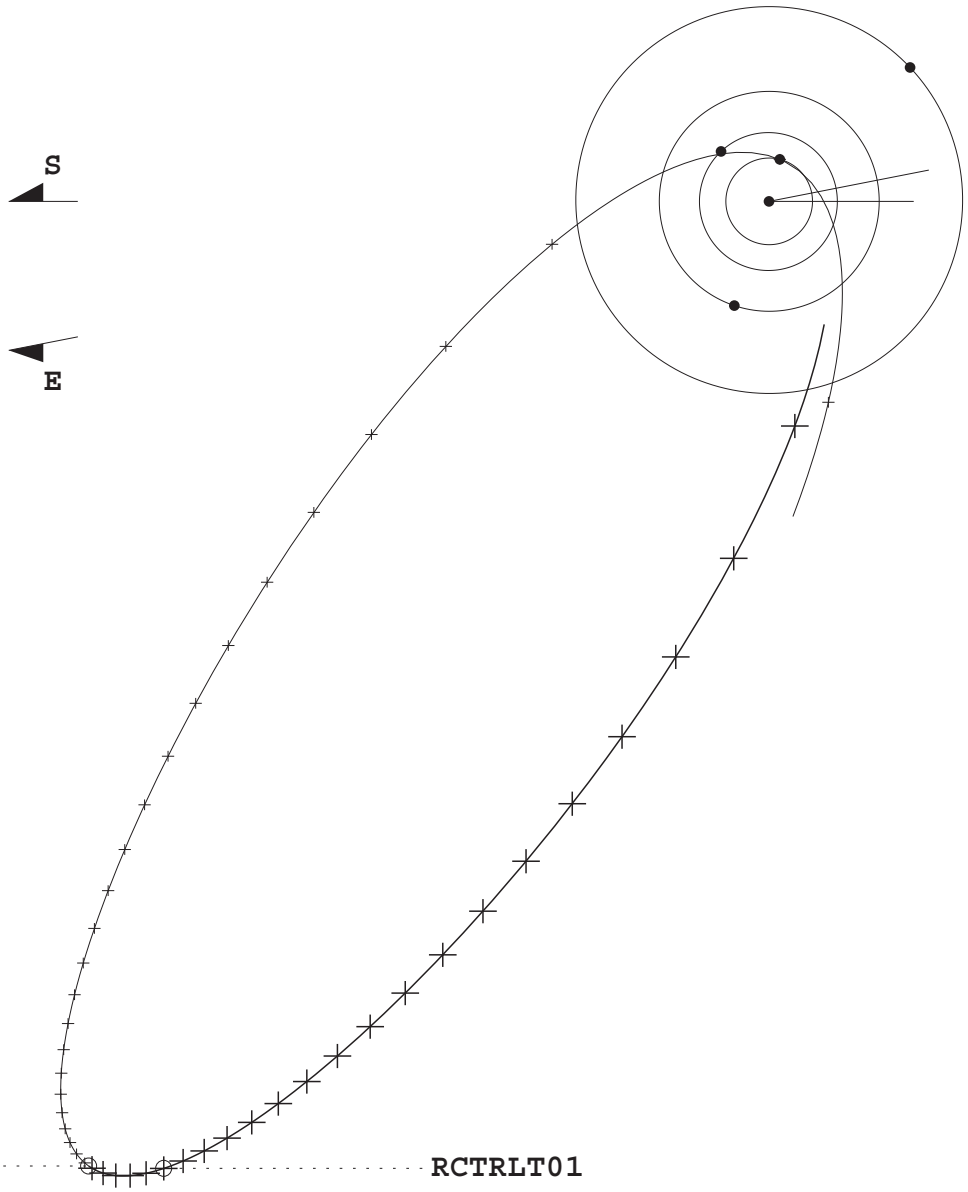
NIMS - FEL - 03/06/02

NIMS I32 IO FLYBY OBSERVATIONS



I32 North Trajectory Pole View, +/- 1 Hour NIMS - FEL - 10/02/01

NIMS I32 CALIBRATIONS



Time Ticks (Relative to I32)
Spacecraft - 2 Days

Io Flyby (I32): 16-OCT-2001 (D289) 01:24:24 UTC
Perijove (PJ32): 15-OCT-2001 (D288) 23:57:03 UTC
Apojove (A33): 01-DEC-2001 (D335) 21:36:02 UTC

I32 North Trajectory Pole View

NIMS - FEL - 10/31/01

NIMS I32 DATA RETURN

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
32INTHPELE01	Io Pele Map 01	I32ILM442	I32ILM144 A	LM	1	0	4	MPW	DA
32INTHLOKI01	Io Loki Map	I32ILM442	I32ILM144 A	LM	1	0	4	MPW	DB
32INTHPELE02	Io Pele Map 02	I32ILM442	I32ILM144 A	LM	1	0	4	MPW	DC
32INTHERML01	Io Thermal Map	I32ILM442	I32ILM144 A	LM	2	0	4	MPW	DD
32INEMAKNG01	Io Emakong Obs	I32ILM442	I32ILM144 A	LM	2	0	4	MPW	DE
32INITUPAN01	Io Tupan Obs	I32ILM442	I32ILM144 A	LM	2	0	4	MPW	DF
32INICHAAC01	Io Chaac Obs	I32ILM442	I32ILM144 A	LM	2	0	4	MPW	DG
32INHTSPOT01	Io Hot Spot Obs	I32ILM442	I32ILM144 A	LM	2	0	4	MPW	DH
32INREGION01	Io Regional Map 01	I32IFMFG120	I32IFMFG36	FM	2	0	4	LPU	DI
32INREGION02	Io Regional Map 02	I32ILMFG252	I32ILMFG72A	LM	2	0	4	LPU	DJ
32JNGLOBAL01	Jupiter Global Obs 01	I32JXM10	I32JXMFG7	XM	2	0	4	LPU	DK
32JNGLOBAL02	Jupiter Global Obs 02	I32JXM10	I32JXMFG7	XM	2	0	4	LPU	DL
32INTHPELE01	Io Pele Map 01	I32ILM442	I32ILM144 B	LM	1	0	4	MPW	DA
32INTHLOKI01	Io Loki Map	I32ILM442	I32ILM144 B	LM	1	0	4	MPW	DB
32INTHPELE02	Io Pele Map 02	I32ILM442	I32ILM144 B	LM	1	0	4	MPW	DC
32INTHERML01	Io Thermal Map	I32ILM442	I32ILM144 B	LM	2	0	4	MPW	DD
32INEMAKNG01	Io Emakong Obs	I32ILM442	I32ILM144 B	LM	2	0	4	MPW	DE
32INITUPAN01	Io Tupan Obs	I32ILM442	I32ILM144 B	LM	2	0	4	MPW	DF
32INICHAAC01	Io Chaac Obs	I32ILM442	I32ILM144 B	LM	2	0	4	MPW	DG
32INHTSPOT01	Io Hot Spot Obs	I32ILM442	I32ILM144 B	LM	2	0	4	MPW	DH
32INREGION01	Io Regional Map 01	I32IFMFG120	I32IFMFG48	FM	2	0	4	LPU	DI
32INREGION01-gf	Io Regional Map 01	I32IFMFG120	I32IFMFG84	FM	2	0	4	LPU	DI
32INREGION02	Io Regional Map 02	I32ILMFG252	I32ILMFG72B	LM	2	0	4	LPU	DJ
32JNGLOBAL01-gf	Jupiter Global Obs 01	I32JXM10	I32JXMFG7	XM	2	0	4	LPU	DK
32JNGLOBAL01	Jupiter Global Obs 01	I32JXM10	I32JXMFG7	XM	2	0	4	LPU	DK
32JNGLOBAL02-gf	Jupiter Global Obs 02	I32JXM10	I32JXMFG7	XM	2	0	4	LPU	DL
32JNGLOBAL02	Jupiter Global Obs 02	I32JXM10	I32JXMFG7	XM	2	0	4	LPU	DL
32INTHPELE01-gf	Io Pele Map 01	I32ILM442	I32ILM144 B	LM	1	0	4	MPW	DA
32INTHLOKI01-gf	Io Loki Map	I32ILM442	I32ILM144 B	LM	1	0	4	MPW	DB
32INTHPELE02-gf	Io Pele Map 02	I32ILM442	I32ILM144 B	LM	1	0	4	MPW	DC
32INEMAKNG01-gf	Io Emakong Obs	I32ILM442	I32ILM144 B	LM	2	0	4	MPW	DE
32INITUPAN01-gf	Io Tupan Obs	I32ILM442	I32ILM144 B	LM	2	0	4	MPW	DF
32INHTSPOT01-gf	Io Hot Spot Obs	I32ILM442	I32ILM144 A	LM	2	0	4	MPW	DH
Note: Additional I32 data is scheduled for return in I33.									

NIMS I32 DATA RETURN

Activity ID	Mode	Wave - lengths Returned	Record Time (sec)	PB Time (sec)	Comp	Total BTG (Mbits) (w/4% o'head)	Data Reduction Factor (sBOT/BTG)	Pass
32INTHPELE01	LM	144	243	239	1.38	0.599	4.60	2
32INTHLOKI01	LM	144	611	606	1.39	1.507	4.63	2
32INTHPELE02	LM	144	360	356	1.21	1.017	4.03	2
32INTHERML01	LM	144	186	182	1.85	0.340	6.17	2
32INEMAKNG01	LM	144	434	430	1.17	1.270	3.90	2
32INITUPAN01	LM	144	550	545	1.28	1.471	4.27	2
32INICHAAC01	LM	144	558	553	1.3	1.470	4.33	2
32INHTSPOT01	LM	144	732	728	1.22	2.062	4.07	2
32INREGION01	FM	36	3876	3870	1.22	5.482	4.35	2
32INREGION02	LM	72	1943	1935	1.29	2.592	4.60	2
32JNGLOBAL01	XM	7	2354	1459	1.85	3.448	2.61	2
32JNGLOBAL02	XM	7	2140	1269	2	2.774	2.82	2
32INTHPELE01	LM	144	243	239	1.35	0.612	4.50	3
32INTHLOKI01	LM	144	611	606	1.40	1.496	4.67	3
32INTHPELE02	LM	144	360	356	1.24	0.992	4.13	3
32INTHERML01	LM	144	186	182	1.87	0.336	6.23	3
32INEMAKNG01	LM	144	434	430	1.18	1.259	3.93	3
32INITUPAN01	LM	144	550	545	1.29	1.460	4.30	3
32INICHAAC01	LM	144	558	553	1.30	1.470	4.33	3
32INHTSPOT01	LM	144	732	728	1.21	2.079	4.03	3
32INREGION01	FM	48	3876	3790	1.22	7.158	3.27	3
32INREGION01-gf	FM	84	3876	68	1.18	0.232	1.80	3
32INREGION02	LM	72	1943	1935	1.29	2.592	4.60	3
32JNGLOBAL01-gf	XM	7	2354	53	1.86	0.125	2.62	3
32JNGLOBAL01	XM	7	2354	887	1.86	2.085	2.62	3
32JNGLOBAL02-gf	XM	7	2140	17	2.00	0.037	2.82	3
32JNGLOBAL02	XM	7	2140	857	2.00	1.874	2.82	3
32INTHPELE01-gf	LM	144	243	28	1.35	0.072	4.50	4
32INTHLOKI01-gf	LM	144	611	20	1.40	0.049	4.67	4
32INTHPELE02-gf	LM	144	360	131	1.24	0.365	4.13	4
32INEMAKNG01-gf	LM	144	434	295	1.18	0.864	3.93	4
32INITUPAN01-gf	LM	144	550	28	1.29	0.075	4.30	4
32INHTSPOT01-gf	LM	144	732	13	1.21	0.037	4.03	4
Note: Additional I32 data is scheduled for return in I33						49.302 TOTAL		
						48.86 ALLOCATION		
						0.442 OVER/UNDER		

NIMS I33 DATA RETURN

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
33JNGLOBAL01	Jupiter Global	I33JXM10	I33JXMFG10	XM	2	0	4	LPU	DH
33JNGLOBAL02	Jupiter Global	I33JXM10	I33JXMFG10	XM	2	0	4	LPU	DI
33JNGLOBAL03	Jupiter Global	I33JXM10	I33JXMFG10	XM	2	0	4	LPU	DJ
32INTHPELE01-gf	Io Pele Map 01	I32ILM442	I33ILM288	LM	1	0	4	MPW	DA
32INPELE__01+	SSI Pele ride-along	I32IXS17	I33IXS15	XS	1	0	4	IM8	IB
32INTHLOKI01-gf	Io Loki Map	I32ILM442	I33ILM288	LM	1	0	4	MPW	DB
32INTHPELE02-gf	Io Pele Map 02	I32ILM442	I33ILM288	LM	1	0	4	MPW	DC
32INEMAKNG02+	SSI Emakong ride-along	I32ILM442	I33ILM360	LM	1	0	4	IM4	ID
32INTOHIL_01+	SSI Tohil ride-along	I32ILM442	I33ILM360	LM	1	0	4	IM8	IF
32INITUPAN01-gf	Io Tupan Obs	I32ILM442	I33ILM288	LM	2	0	4	MPW	DF
32INTVASHT01+	Ssi Tvashtar ride-along	I32IXS17	I33IXS15	XS	1	0	4	IM8	IL
32INICHAAC01-gf	Io Chaac Obs	I32ILM442	I33ILM288	LM	2	0	4	MPW	DG
32INTERMIN01+	SSI Terminator 01 ride-along	I32ILM442	I33ILM360	LM	1	0	4	IM8	IJ
32INTERMIN02+	SSI Terminator 02 ride-along	I32ILM442	I33ILM360	LM	1	0	4	IM8	IK
32INREGION01-gf	Io Regional Map 01	I32IFMFG120	I32IFMFG84	FM	2	0	4	LPU	DI
32INREGION02-gf	Io Reginal Map 02	I32ILMFG252	I32ILMFG144	LM	2	0	4	LPU	DJ
33JNGLOBAL01-gf	Jupiter Global	I33JXM10	I33JXMFG10	XM	2	0	4	LPU	DH
33JNGLOBAL02-gf	Jupiter Global	I33JXM10	I33JXMFG10	XM	2	0	4	LPU	DI
33JNGLOBAL03-gf	Jupiter Global	I33JXM10	I33JXMFG10	XM	2	0	4	LPU	DJ
32INTHPELE01	Io Pele Map 01	I32ILM442	I33ILMFGDD72	LM	1	0	4	MPW	DA
32INTHLOKI01	Io Loki Map	I32ILM442	I33ILMFGDD72	LM	1	0	4	MPW	DB
32INTHPELE02	Io Pele Map 02	I32ILM442	I33ILMFGDD72	LM	1	0	4	MPW	DC
32INTHERML01	Io Thermal Map	I32ILM442	I33ILMFGDD72	LM	2	0	4	MPW	DD
32INITUPAN01	Io Tupan Obs	I32ILM442	I33ILMFGDD72	LM	2	0	4	MPW	DF
32INICHAAC01	Io Chaac Obs	I32ILM442	I33ILMFGDD72	LM	2	0	4	MPW	DG
32INHTSPOT01	Io Hot Spot Obs	I32ILM442	I33ILMFGDD72	LM	2	0	4	MPW	DH
32INREGION01	Io Regional Map 01	I32IFMFG120	I33IFMFGFW36	FM	2	0	4	LPU	DI
32INREGION01-gf	Io Regional Map 01	I32IFMFG120	I33IFMFGFW36	FM	2	0	4	LPU	DI
32INREGION02	Io Regional Map 02	I32ILMFG252	I33ILMFGFW108	LM	2	0	4	LPU	DJ
I33 Calibrations									

NIMS I33 DATA RETURN

Activity ID	Mode	Mode Recorded	Wave-lengths Returned	Record Time (sec)	PB Time (sec)	Comp	Total BTG (Mbits) (w/4% o'head)	Data Reduction Factor (sBOT/BTG)	Pass
33JNGLOBAL01	XM	10	10	1405	1391	2.13	4.079	2.10	1
33JNGLOBAL02	XM	10	10	1223	1213	2.26	3.353	2.23	1
33JNGLOBAL03	XM	10	10	1041	1031	2.29	2.812	2.26	1
32INTHPELE01-gf	LM	360	288	243	146	1.38	0.731	2.30	2
32INPELE__01+	XS	17	15	15	13	1.21	0.201	0.00	2
32INTHLOKI01-gf	LM	360	288	611	73	1.39	0.363	2.32	2
32INTHPELE02-gf	LM	360	288	360	12	1.21	0.069	2.02	2
32INEMAKNG02+	LM	360	360	92	89	1.21	0.635	0.00	2
32INTOHIL_01+	LM	360	360	40	38	1.21	0.271	0.00	2
32INITUPAN01-gf	LM	360	288	550	48	1.28	0.259	2.13	2
32INTVASHT01+	XS	17	15	14	12	1.21	0.186	0.00	2
32INICHAAC01-gf	LM	360	288	558	92	1.3	0.489	2.17	2
32INTERMIN01+	LM	360	360	50	46	1.21	0.328	0.00	2
32INTERMIN02+	LM	360	360	50	46	1.21	0.328	0.00	2
32INREGION01-gf	FM	120	84	3876	808	1.22	2.671	1.87	2
32INREGION02-gf	LM	252	144	1943	59	1.29	0.158	2.30	2
33JNGLOBAL01-gf	XM	10	10	1405	20	2.1	0.059	2.07	2
33JNGLOBAL02-gf	XM	10	10	1223	115	2.2	0.327	2.17	2
33JNGLOBAL03-gf	XM	10	10	1041	46	2.2	0.131	2.17	2
32INTHPELE01	LM	360	72	243	239	1.38	0.299	9.20	3
32INTHLOKI01	LM	360	72	611	606	1.39	0.753	9.27	3
32INTHPELE02	LM	360	72	360	356	1.21	0.508	8.07	3
32INTHERML01	LM	360	72	186	182	1.85	0.170	12.33	3
32INITUPAN01	LM	360	72	550	545	1.28	0.736	8.53	3
32INICHAAC01	LM	360	72	558	553	1.3	0.735	8.67	3
32INHTSPOT01	LM	360	72	732	728	1.22	1.031	8.13	3
32INREGION01	FM	120	36	3876	3714	1.22	5.261	4.35	3
32INREGION01-gf	FM	120	84	3876	74	1.22	0.245	1.87	3
32INREGION02	LM	252	108	1943	1935	1.29	3.888	3.07	3
							31.077 Total		
							53.34 Allocation		
							22.263 Over/Under		
I33 Calibrations									

RECAP OF I32 PLAYBACK EVENTS

The NIMS I32 dataset is of very high quality due to a relative abundance of downlink allocation bits that permitted us to return a large number of samples for observations covering very large areas. The Io REGION observations covered large portions of the visible surface, resulting in the detection of a number of new hot spots. A new, extremely hot area detected in I31 was imaged successfully in I32 (32INHTSPOT01).

The I32 encounter went very well, with no spacecraft 'despun bus resets' and only one harmless NIMS software halt. The latter occurred prior to a sequenced instrument software reload and had no negative effect on the recording of our observations.

One new type of spacecraft anomaly occurred during playback. DMS (tape recorder) was stopped by on-board fault protection software for a short period, interrupting playback. The favored explanation is a worn area on the physical tape, which had been used repeatedly as a stopping point during normal operations. Playback also paused autonomously due to a shortage of onboard playback commands, partly due to an oversight and partly due to a dearth of 2-way command passes for uplinking new segments of the playback table.

A very large number of data gaps due to problems at DSN stations occurred in December. We were able to fill the largest of the gaps in a 4th tape pass. Additional I32 gap-fill data is planned for return in I33 due to spacecraft safing during that encounter.

The following timeline details the most signifigant events of the I32 playback period. Most of the text below is excerpted from messages issued at the time.

I32 Playback Events Timeline (09-14-01 to 01-14-02)

09-14-01: (Y. Anderson) I32 Playback Allocation Update - 9/14/01
Playback will be initiated at 01-292/12:36, and will be terminated at 02-015/01:50
We currently have 257.567 MB for I32. Since SPOT holds 10.2 MB for margin and 7.73 MB for inefficiency, a total of 239.64 MB is allocated to the teams.
Compared with the total allocation (194.8 MB) at OAP, we have a 23% increase.

	Total Allocation	Playback Allocation	RTS Usage	OPG Allocation	MBTG Increase	
SSI	77.748	77.748	0.000	63.2		14.548
NIMS	47.977	47.877	0.100	39.0		8.977
PPR	5.413	5.413	0.000	4.4		1.013
UVS/EUV	2.460	1.080	1.380	2.0		0.460
MWG	106.042	99.892	6.150	86.2		19.842
DDS	0.000	0.000	0.000	--		
RadioSci	0.000	0.000	0.000	--		
Total:	239.640	232.010	7.630	194.8		44.84

I32 Playback Events Timeline (09-14-01 to 01-14-02)

We have not taken out the bits-loss due to OPNAV activities in I32B in the above figures. The I31 OPNAVs (there are 8 of them) cost about 1.87 MB. For I32, we have only two OPNAVs planned so far. If this is the case in the final I32B sequence, the cost will be in the vicinity of 0.5 MB.

09-26-01: This is the first delivery of this playback table, on a truncated schedule. The playback commands have reasonably accurate times, but data reduction factors and wavelength tables have not been tuned up. Mirage scripts to model the downlink bits requirements are not yet showing correct values, but this will be corrected soon. All singles are selecting the entire record time of their observations. All are showing pass 2 since the first pass will be for SSI preview purposes.

09-27-01: (Y. Anderson) Playback will now be initiated at 01-299/03:15, and terminated at 02-014/08:50. Initiate playback has been delayed by one week because of the extension of RTS data collection. MWG is willing to pay for the cost, 9.33 MB. It's likely that the terminate playback will be moved 7 hours earlier in the next sequence, but this bits-reduction has not been taken into account in this allocation update.
We currently have a total capability 260.004 MB and playback capability of 255.074 MB for I32. (Note, playback capability = total capability - RTS bits. For I32, the RTS bits are 1.38 MB for EUV, 0.10 MB for NIMS & 2.65 MB autonomous fill due to NIMS reloads, 0.3 MB for DDS, and 0.5 MB for MAG.)
NIMS: 47.81 MB

10-09-01: The table delivered today reflects a new strategy for 2-pass data return. In previous orbits we have placed about 1/3 to 1/2 of our bits in the second tape pass. This is done to prevent the spacecraft from generating and beaming down "fill." (This occurs when insufficient data is selected for playback; the multi-use buffer (MUB) may be emptied of data while the DMS is slewing across large expanses of tape to reach the next data selected for playback). The down side of placing observations or portions of observations in the second tape pass is the inability to fill gaps that may occur.
Now that we are returning multiple samples from each detector (due to the stuck grating) we can play back a minimum set of samples for the full spatial area of observations in the first pass, and play back a complementary set of samples in the second pass. As long as the pass 1 and pass 2 gaps do not coincide, we will obtain full spatial coverage for our observations. With this strategy we can split our bits more or less evenly over the two passes, while having a much higher probability of receiving complete spatial coverage. In addition the potential for generation of fill packets ("inefficiency") in the second pass is significantly reduced.

I32 Playback Events Timeline (09-14-01 to 01-14-02)

In the table delivered today, all of the Io observations are played back twice, with full spatial coverage. The times of the selects and deselects are the same in the two passes; only the wavelengths (samples) selected for return are different. For the close-approach observations, we will get 12 samples in the initial tape pass, and the complementary 12 samples in the second pass.
For 32INREGION01, we will get 3 samples in the initial pass, and 2 more in the second pass. For 32INREGION02 we will get 6 samples in the initial pass and 6 more in the last one. Note that NIMS will be leaving behind 50% of the data recorded for these two observations. If we had an additional 16 Mbits of allocation we could get it all.
We cannot apply this strategy to the Jupiter global observations in this orbit since they are in fixed map mode with no redundancy of samples. We will get about 2/3 of the spatial coverage of each of these in the initial pass, with the rest following in the final pass. We are giving priority (first pass playback) to the southern hemisphere scans of 32JNGLOBAL01, and to the northern scans of 32JNGLOBAL02.
We are not returning data from detectors 5 and 16 in order to stay within our allocation.

10-12-01: (E. Theilig) The Galileo spacecraft is operating normally. Playback of data recorded during the Io 31 encounter is 95% complete and is scheduled to terminate on 10/13.
This week was spent preparing the spacecraft for the Io 32 encounter on 10/15. Close approach to Io will be shortly after 7:00 p.m. PDT (Earth-receive time) at a planned altitude of 181 km. The science command sequence is loaded and scheduled to begin Saturday 10/13 at 7:41 p.m. PDT (Earth-receive time). The attitude control system was configured on 10/12 for the radiation environment close to Jupiter. Other pre-encounter activities of note include a successful test of the camera flight software patch loaded last week and a routine conditioning of the tape recorder, scheduled for 10/13. The final targeting maneuver also occurs on 10/13. OPNAV images acquired earlier this week in support of maneuver development were only partly successful but confirm the radiometric orbit determination solution.

10-15-01: Perijove occurs at at 23:57 UTC. Io close approach occurs an hour and a half later at 01:24 on 10-16 (UTC).

10-15-01: (E. Theilig) Galileo Io 32 Status Report #1 - 10:30 p.m. PDT
The Galileo spacecraft is operating normally and all activities appear to be as planned. Close approach to Jupiter was at 5:37 p.m. PDT on 10/15 (Earth-receive time) at a range of 5.8 Jupiter radii. At 7:04 p.m. PDT Galileo achieved its closest approach to Io at a targeted altitude of 181 km. All planned Jupiter and Io observations to date appear to have been recorded successfully using two and three

quarter tracks of tape. Telemetry from the Solid State Imaging camera remains nominal. Earlier today, the DSN successfully recorded the Radio Science Jupiter Occultation using the RSR over DSS-43 (Canberra, Australia), between 11:58 a.m. and 2:34 p.m. PDT.
The spacecraft has now passed Jupiter close approach and the peak radiation level was 534 (measured by the star scanner in pulse counts), significantly lower than the maximum of 1400 seen in previous GEM orbits. There have been no radiation-related effects identified so far. All observation recording is proceeding according to plan. The expected end of the radiation danger is around 4:00 a.m. Tuesday morning.

10-16-01: (R. Mehlman) Cumulative from NIMS realtime engineering data:

SCLK	SCET	Position	Item
6255902	289/00:48	Between THPELE01 and THLOKI01	Good SCLK, so THPELE01 OK
6255928	289/01:14	Last RIM of THPELE02	Nominal HWSTAT: gs1, chop ref
6255935	289/01:21	Between THPELE02 and THERML01	Good SCLK, so THPELE02 OK
6256113	289/04:21	Just after REGION01 and	Nominal HWSTAT: gs2, chop ref
6256120	289/04:28	3 hours before REGION02	Good SCLK, so REGION01 OK
6256331	289/08:01	An hour after REGION02	Nominal HWSTAT: gs2, chop ref
6256337	289/08:07		SCLK, so REGION02 OK
6256888	289/17:25	Four hours before GLOBAL01	Anomalous HWSTAT (X00)
6256895	289/17:31		CDS rec'd SCLK of 6256885, indicating NIMS S/W halt 10 RIMS before receipt. But there's a reload coming.

10-16-01: (E. Theilig) Galileo Io 32 Status Report #2 - 4:30 p.m. PDT.
The Galileo spacecraft is operating normally and all activities appear to be as planned. The current status is from the DSS 43 pass at 3:30 p.m. PDT. All observation recording is proceeding according to plan. The only identified radiation related effect so far has been a NIMS memory upset which was corrected by a memory reload built into the science sequence. The critical part of the encounter is over with almost 90% of the remote sensing observations complete. There remains a PPR calibration and a NIMS observation tonight and a series of SSI observations of Jupiter and the gossamer rings on Thursday. Continuous fields and particles data collection will continue until October 26 at which time playback will begin.
At this time both spacecraft health and remaining propellant allow us to plan a nominal Io 33 encounter in January.

10-17-01: (R. Mehlman) Update from NIMS realtime engineering data

SCLK	SCET	Position	Item
6257128	289/21:27	Last RIM of GLOBAL01	Nominal HWSTAT: gs2, chop ref
6257135	289/21:34	Six minutes after GLOBAL01	Good SCLK, so reload and GLOBAL01 OK
6257200	289/22:39	4 1/2 hours before GLOBAL02	Good SCLK
6257488	290/03:32	Eight minutes after GLOBAL02	Nominal HWSTAT: gs2, chop ref
6257495	290/03:38	14 minutes after GLOBAL02	Good SCLK, so GLOBAL02 OK

I32 Playback Events Timeline (09-14-01 to 01-14-02)

10-17-01: No changes to last week's playback table were made for this delivery. NIMS requests for AACS data were expanded to include the ends as well as the beginnings of data-taking slews for 32INREGION01, 32INREGION02, 32JNGLOBAL01, and 32JNGLOBAL02.
Playback will begin on October 26.

10-17-01: (K. Schimmels) I want to congratulate the whole team on a job well done with I32. It was a lot of work, and we did a lot of contingency planning and I want to thank all of you for your inputs into the contingency and jump start process last week. Since we were well prepared, we didn't even need any of it. Thank you for your hard work! Also, this has been the first orbit since E19 that we haven't experienced a BURP during the encounter!

10-31-01: I made no changes to the prior version of the playback table for today's delivery as no NIMS data has reached the ground and no changes to allocation have been made.

11-13-01: On-board fault protection software detected a problem with the DMS (tape recorder) and shut it down, interrupting playback.

11-14-01: (E. Theilig) Data collected during a test of the Galileo tape recorder Wednesday evening indicate that the tape successfully moved one tic as commanded and the recorder locked up on data being read from the tape. This plus normal motor currents suggest that the problem detected by fault protection on 11/13 may be the result of surficial coating or damage to a small section of the physical tape. The problem location is a commonly used stopping point and may have accumulated damage through time. At this time there is no indication of a hardware failure in the tape recorder.
The next step is to reposition the tape and to restart playback, probably by Thursday night 11/15.

11-16-01: (S. Thompson) MCT DAILY SUMMARY
The DMS was moved successfully to TINC 700 (REVTK2) as hoped per CMD file 01E174. A "GO" was then given to send the Initiate Playback command and Playback Table.
Reception of playback packets was verified at 07:20.

11-16-01: (E. Theilig) The primary activity over the past week has been the investigation and recovery of a tape recorder DMS (Data Memory Subsystem) anomaly. As of 03:00 PST on 11/16, the tape has been repositioned and playback resumed.
Since the initial problem, all tape motion has been normal suggesting that the problem detected by fault protection on 11/13 may be the result of surficial coating or damage to a small, localized section of the physical tape. This damage could prevent the tape manager from synchronizing with data

being read from the tape and, after a certain number of out-of-synch counts, tripping fault protection that stops the tape and locks out subsequent commands. Prior to repositioning the DMS for playback, the tape was moved in both the forward and reverse directions over the suspect location while buffering DMS status and motor current measurements in onboard memory. These data will be read out on 11/17 and be used to characterize the damaged area. Slewing across the suspect area confirms that we can proceed with normal usage of the tape; however, the routine tape conditioning commands will be changed to avoid stopping the tape at this location.
Playback is scheduled to terminate on 1/14/02.

10-16-01: (Y. Anderson) This playback table starts from where we left off. The first SELECT in I32PDB corresponds to tic 679 on track 2, which was near the end of 32MBTOTUS_01. Everything from this restart point to the end of Segment 4 in the previous I32PCD becomes the new Segment 1 in I32PDA. The rest of segments are the same as before.
UPDATE SCHEDULE: No update next week. The following week (after Thanksgiving) will be the first opportunity to affect Segments 5 and 6 (old segments 8 and 9).

11-29-01: (Y. Anderson) Playback is currently in Segment 4. Track 4, Tic 4888 (as of 5:40 AM, 11/29). We are a little ahead of schedule and playback is about 40% complete.

12-10-01: I have delivered a new I32 playback table today. Only one change has been made. I have increased the number of pass 3 grating steps played back for 32INREGION01 from 2 to 4. This has been made possible by better-than-predicted compression of our Io and Jupiter data so far.
The next scheduled update for I32 is not until 7 January.

12-14-01: There will be a pbt update next week for I32, and we will be able to go after our Jupiter globals gaps. If there are any highly desirable SSI Io ridealongs, let me know (no word on pass 4 yet).

12-14-01: (K. Schimmels) In order to consider a fourth pass, we need to a) analyze the remaining capability and inefficiency expected thoroughly, to be sure we'll finish the playback planned in pass 3 and have enough time to do a 4th pass (this is significant work for Yanhua, but needs to be done anyway)...
b) know where the data is you plan to pick up in pass 4. If it's on the first track, that's easier than going further - we are in much higher data rates now, hence much more inefficient. I don't know that other teams want to sign up to spending bits on inefficiency in pass 4, either, they would need to be polled. The cost of slewing half a track

alone could cost NIMS' entire 0.5 MB at this point in our capability. Yanhua would again have to analyze the approximate cost of slewing involved to get to your data. c) who is last on the tape, i.e. who is last currently in the playback table? If it's NIMS you could overselect and take your chances perhaps, but that depends on other teams, again. 0.5 MB isn't much to go into a 4th pass with, so I don't know how likely it is unless there is much more desire from other teams (and bits to pay for it)

12-18-01: There is a delivery of the I32 playback table tomorrow and I have a little nit-picky choice of strategies question. This involves choosing the lesser of 2 evils, and not making the on-the-ground processing any harder than it has to be. We commanded 3 samples / grating steps for return in the first pass over the tape, and we are asking for 4 more in the next pass.
We have a couple of gaps (1 RIM, 1/3 RIM) in the first try data. If we don't change anything, and we don't get gaps over the same data in the next pass, we will have complete spatial coverage, with fewer samples than average in the gap areas. Nothing to complain about.
However, we have about .5 Mbits available, a 4th pass does not seem to be feasible (high data rates, lots of inefficiency), and we could do the following:
- stop part way through the next pass playback (4 samples),
- change the wavelength table to get 7 samples for the gap,
- stop playback, change the WET back to 4 samples, start again.

Due to DMS realities, we will still have chunks of time where we do not have all the desired samples. However, these will be only about 1 grating cycle long. There would be one chunk at the start of the gap, and one more at the end. But we would get all the samples, over most of the big gap we now have. If the area turns out to be interesting, having more samples would be desirable.
In processing, there would be 3 chunks of final-pass data, using 2 wavelength tables, where there is now only one block of data with one wavelength table. This is, I think, a downside.

12-19-01: The playback table delivered today has six new sets of commands for filling gaps in our data. Four of these are for 32JNGLOBAL01-02; these employ the same wavelength edit tables as in pass 2. For 32INREGION01 we are doing something a little different. As of last week we planned to replay this from start to finish using a table commanding a complementary set of wavelengths to that brought down originally. However there is a significant gap in our pass 2 data that we will fill in the current pass (3). Thus now the first and third sets of playback commands for 31INREGION01 in pass 3 will contain the complementary set

of wavelengths as before. The second set (for the gap) returns all 7 grating positions. A new OBSTAB will be required for processing this data. (The grating positions are 1,3,5,6,7,9,11).
It is possible that a some additional downlink allocation may become available later on. The next potential update is in the week of January 2. We are currently about .4 Mbits under our allocation.

12-20-01: (Y. Anderson) The spacecraft went into autonomous pause last night. It was at about 7:15. Seg 11 was sent around 10:40. Took 35 minutes to get there. So we lost about 4 hours (from 7:15 to 11:15) playback. The capability during this period is 1.065MB. Sorry this happened.
The remaining SPOT margin is just able to cover it.

01-03-02: Happy new year..! The holidays were not kind to us. Problems at various DSN stations occurred almost daily. More than two dozen gaps are present in the NIMS observations returned since about 20 December.
We have sufficient remaining downlink resources to make use of a 4th pass over the tape. In today's update I added 6 new sets of playback commands to fill the largest of the gaps in the observations returned over the holidays. Many small gaps could not be commanded for return due to a software limitation of the on-board playback manager. When a large number of 3-byte edit groups is required to specify the wavelength selection for playback, we can enter only about 3 sets of commands in any given "segment," and only 4 segments may be present on-board the spacecraft at one time. If the CDS runs out of segments, playback pauses until new segments can be uplinked. In the present situation, entering commands to fill all our gaps would result in pausing playback several times, defeating the purpose.

01-13-02: (R. Mehlman) Looks like we got some or all of our last gap-fill request (INHTSPOT01) and the MCT summary indicates playback is already on track 4, ahead of schedule, beyond our last request.

The NIMS grating became stuck prior to the I24 encounter. The grating continued to be stuck for the I32 encounter. This development caused a drastic change in NIMS operations. Detectors 1, 2 and 7 now have very low sensitivity. Detectors 3 and 8 are still not functioning. NIMS now returns only 12 useful wavelengths.

The NIMS processor halted once during the I32 Encounter. There was no CDS Bus Reset (BURP) event at the same time. The halt occurred at a time when NIMS was not taking data. A NIMS software reload restarted the flight software.

The spacecraft did not safe during the I32 Encounter and did suffer any Bus Resets which would precipitate a NIMS halts.

Stuck Grating (from the I24 NIMS Guide)

At I24, NIMS experienced a fundamental change in the way that it operates. Sometime between C22 and I24, the NIMS grating became stuck at a position corresponding to a pshift of about 14.5. This unusual grating position produces wavelengths for each detector far shorter than previously used. With the stuck grating, NIMS is permanently in a "fixed grating" mode. At this new grating position, Detectors 1, 2 and 7 return very low DN, as their new wavelengths are outside of the passband of their blocking filters and therefore are of minimal use. As before, detectors 3 and 8 are still not functioning.

There is no ground calibration for the wavelengths corresponding to this pshift. Flight calibration was derived from the I24 RCT and PCT calibrations. Details of this new flight calibration will be discussed in the as yet unpublished NIMS calibration report.

The spectral capability of the NIMS instrument shrank from 408 wavelengths to 17 wavelengths with the stuck grating. Now all commanded modes, Long Map, Full Map, Short Map or Fixed Map, select the same 17 wavelengths. Two effects of the stuck grating have been put to good use: spatial editing and noise reduction.

Even though the grating is stuck, the grating cycle still plays an important role. The playback edit table can now be used for spatial data editing. In Long Map mode, each mirror scan can be selected or deselected using the playback edit table. This allows a range of spatial density versus areal coverage choices.

If an observation is performed in Long Map mode at the Long Map scan rate, the 24 mirror scans over a single grating cycle can be averaged together to increase the signal to noise level. The adverse effects of the high levels of radiation-induced noise encountered close-in to Jupiter are greatly alleviated by this averaging.

Response to Stuck Grating Anomaly (I32)

At I32 the cause of the stuck grating was not known (and is still not clearly understood). No attempts were made during I32 to unstick the grating.

Processor Halts

There were one NIMS processor halt during I32. The halt was detected by the NIMS engineering but was not coincident with any CDS Bus Reset event. The halt occurred at a time when NIMS was not taking any data. The NIMS software reload prior to the NIMS observation 32JNGLOBAL01.

Anomaly Timing:

6256888	01-289/17:25:12	Anomalous Hardware Status Word (x00)
6256895	01-289/17:31:52	6256885 SCLK reported (anomalous)
6257101	01-289/21:00:09	NIMS Software Reload (30INGLOBAL01)
6257135	01-289/21:34:32	6257133 SCLK reported

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.