

# **NIMS GUIDE TO THE G2 ORBIT**

**Original: September 1996**

**Revised: June 1998**



**G2 Encounter starts 9/01/96,**

**G2 Playback starts 9/08/96**

**VERSION DATE: 980601**

## 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 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 to the Original Edition

This document serves as a guide to the G2 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS G2 observations and calibrations. Also included in this document is background information on the G2 orbit. This guide was produced before the start of the G2 orbit. After analysis of the NIMS G2 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 G2 orbit. Chapter 2 gives an overview of the G2 orbit and summarizes the NIMS science objectives for the G2 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the G2 orbit. Chapter 4 summarizes the NIMS G2 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.

For more information on the G2 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the G2 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 G2 orbit is the second of eleven orbits in Galileo's Tour of the Jovian system. This orbit has a targetted satellite flyby of Ganymede and a non-targetted distant flyby of Europa. NIMS will make observations of Jupiter, Io, Europa, Ganymede and Callisto in this orbit. NIMS will also perform some calibrations in this orbit.

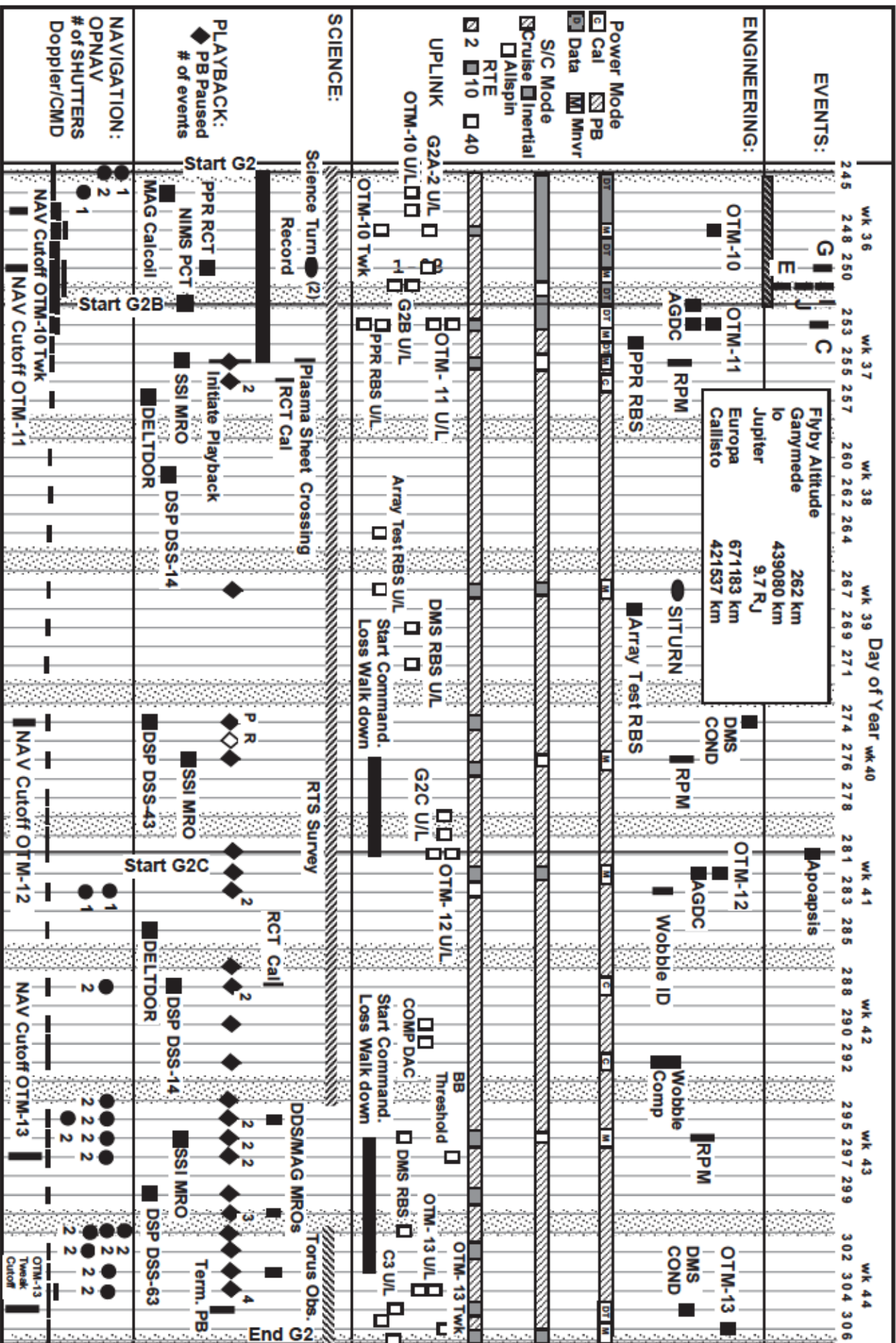
A new feature in G2 is the inclusion of three autonomous reloads of the NIMS RAM code from CDS during the G2A encounter period with checksums of specific NIMS RAM locations. These reloads are in response to the NIMS G1 flight-anomaly where the NIMS RAM code took some bit hits and halted the instrument during the G1A encounter period. NIMS will return realtime data on a daily basis during the G2A encounter period as a means of monitoring the instrument's status. NIMS personnel will also monitor the NIMS engineering telemetry data on a regular schedule to track the instrument's status.

The G2 orbit is divided into 3 sequence loads: one Encounter Load (G2A) and two Orbital Cruise Loads (G2B and G2C). The Encounter Load, G2A, begins on D245 of 1996 (09/01/96) and ends on D252 of 1996 (09/08/96). This load contains the flybys of Jupiter, Ganymede, Europa and Io. The first Cruise Load, G2B, runs from D252 to D281. The flyby of Callisto is at the beginning of this load. The second Cruise Load, G2C, runs from D281 to D307. Playback of the recorded data takes place during the two Cruise phases, G2B and G2C. A high-level overview timeline of the G2 orbit can be found on the following page.

The following table lists the major events during G2, including NIMS Real Time observations, in UTC.

9/01/96	96-245/16:00:00	G2 Encounter Start
9/03/96	96-247/17:15:28	NIMS R/T Status
9/04/96	96-248/12:48:21	NIMS R/T Opcal
9/05/96	96-249/17:02:16	NIMS R/T Status
9/06/96	96-250/11:40:35	NIMS R/T Status
9/06/96	96-250/19:00:00	Ganymede Closest Approach
9/06/96	96-250/21:17:00	NIMS RAM Reload
9/07/96	96-251/05:25:00	Io Closest Approach
9/07/96	96-251/08:06:43	NIMS R/T Io
9/07/96	96-251/13:38:26	Jupiter Closest Approach
9/07/96	96-251/16:06:00	NIMS RAM Reload
9/07/96	96-251/17:06:00	Europa Closest Approach
9/07/96	96-251/17:32:57	NIMS R/T Europa
9/08/96	96-252/10:05:00	NIMS RAM Reload
9/08/96	96-252/16:00:00	Start G2 Playback
9/08/96	96-252/23:33:03	NIMS R/T Status
9/09/96	96-253/10:24:00	Callisto Closest Approach
9/09/96	96-253/11:03:19	NIMS R/T Callisto
11/02/96	96-307/15:00:00	End G2 Playback

# G2 Overview



## Chapter 2 - Orbit Overview

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## Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the G2 Orbit.

The text on pages 3 and 4 summarizes the NIMS science objectives for G2. The NIMS calibrations are discussed on page 4. Early data return and G2 playback are discussed on page 5.

The table on pages 6 and 7 is a time-ordered listing of the NIMS Oapels for G2.

The plot on page 8 shows the geometry of the NIMS G2 observations using a north trajectory pole view projection. The plots on pages 9 and 10 show the geometry of the NIMS Satellite and Jupiter observations. The plot on page 11 shows the geometry of the NIMS G2 calibrations.

The spreadsheets on pages 12 through 21 summarize the NIMS resource usage for the NIMS G2 observations for the team and also by working group.

The spreadsheets on pages 22 through 25 summarize various inputs for the NIMS G2 observations.

The table on pages 26 and 27 lists various NIMS G2 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The tapemap on pages 28 through 32 shows the placement of the G2 observations on the spacecraft's tape recorder. The NIMS observation names are written with a larger type.

The timeline on pages 33 through 40 shows the preliminary G2 playback schedule.

The NIMS G2 mosaic designs are summarized on pages 41 through 45 in time-order.

## NIMS G2 Science Overview

### Io Science

NIMS will make observations of Io's dayside and nightside. All observations are full-disk or part-disk mosaics. Nightside observations (THERMAL and VOLCAN) are designed to map hot spots and to look for auroral features. Dayside observations (CHEMIS and HRSPEC) will map the distribution of SO<sub>2</sub> on the surface and look for new species such as H<sub>2</sub>O and H<sub>2</sub>S. HRSPEC will use the full spectral capability of the instrument (408 wavelengths) and will be made during Io's closest approach in order to get the highest spatial resolution possible in this orbit. One real-time observation (IOMON) will monitor hot spot activity in real time.

### Europa Science

There is a non-targetted flyby of Europa in G2. In this orbit NIMS has two observations of Europa (LEADMP and EURORT). The LEADMP observation is a full-disk map of Europa's leading side limited by Phineus and Asterius Lineas conating good coverage of diverse linea terrain. The second EURORT observation is a RealTime observation of the central region of Europa's disk between +/- 30 degrees latitude. This observation will return two Long Map 408 wavelength grating cycles in 4 mirror positions.

### Ganymede Science

NIMS has six observations of Ganymede during the G2 Ganymede encounter. The first observation (SIPPAR) will study the Sippar Sulcus region, which has furrow, dark and groove terrains. The study involves studying variable mineralogy among these terrains. Hemispheric variations will be studied as well because this region is located in the trailing hemisphere. The second observation (NRPOLE) will study the North polar region for chemical composition, especially non-water volatiles. This observation will also help to understand the extend of the North polar shroud, which was discovered by Voyager 2. The third observation (TAMMUZ) will study the bright rayed crater Tammuz. Mineralogy will be studied on excavated ice and across a contrast boundary. Study of potential cold trapping of irradiation products will also be done because the crater is located in the trailing hemisphere. The fourth observation (ANTUM) will study the dark rayed crater Antum. Science objectives for this observation are to understand the modification of material in impact, the mineralogy of the impactor, and the modification of the area adjacent to the crater. The fifth observation (LIMBSC) is a limb scan (joint with UVS) to search for atmospheric composition. The last observation (BRFRGR) studies a bright frost terrain in the North polar region. The objectives are to look for exotic ices and to study the grain sizes and thickness of the polar shroud in contributing to the understanding of age, origin, and evolution of the shroud.

## NIMS G2 Science Overview

### Callisto Science

There are two Callisto observations planned for G2; one recorded and one real-time. The recorded observation (GLOBAL) is the second in a set of global context map observations planned throughout the Galileo tour. The composition of the overall surface and abundances of the surface components are the two primary objectives. This area of Callisto's surface was not covered well by Voyager. It is the second view of the trailing side by NIMS (G1 observation) but with 212 km resolution and 408 wavelength spectral resolution. The second observation (CALLRT) is a realtime observation, 408 wavelengths with mirror blocking, will provide a quick look at the data set to be recorded in GLOBAL. This will aid in the deselection of wavelengths in the global observation should that become necessary during the course of playback.

### Jupiter Science

NIMS will produce a 5-color Global Mosaic of Jupiter and 3 North-South stripes covering the NIMS thermal wavelengths during the G2 Orbit. NIMS will also image the region of the S9 impacts. The 5-color Global Map will be constructed using 6 observations (GLOBAL0n) with wavelengths 0.728, 1.594, 1.875, 2.156 and 4.982 microns. Each observation covers Jupiter pole-to-pole in the North-South direction and a fractional radius in the East-West direction (about 60 degrees of longitude at the equator). The Thermal North-South Stripes (THRMNS) cover the the NIMS thermal spectrum from 4.2786 to 5.2198 microns at the highest spectral resolution (Long Map). Each swath is about 5 degrees wide in longitude. 13 of these swaths cover Jupiter from pole to pole. The SL9LIM observation is a high spectral resolution map of SL9 impact sites near Jupiter's limb in several methane and hydrogen absorption features in 80 wavelengths distributed among five spectral regions.

### Calibration

There are three NIMS calibration observations in G2 (one PCT and two RCT calibrations) as well as five Dark Sky observations and an OpCal observation. The PCT calibration occurs at the end of the G2A load. An OpCal is also performed at this time. This observation is recorded. The first RCT calibration occurs just after the start of the G2B load a few days after the OTM burn and will be returned via realtime. The second RCT calibration takes place just after the start of the G2C load after apojove and the OTM and will also be returned via realtime. The OpCal will be performed in-bound in G2A and will be returned via realtime. The five dark observations (HNDARK) are scattered throughout the G2 encounter period and will sample dark values in various instrument modes and gain states.

### Early Data Return

There are 10 realtime NIMS observations in G2: 4 instrument health checks of 3 wavelenghts (RECOVY), 1 Opcal (OPCAL), 1 8 wavelength Fixed Map Io Monitor observation (IOMON), 1 408 wavelength Europa observation (EURORT), 1 408 wavelength Callisto observation (CALLRT) and 2 RCT calcs. The RECOVY observations are performed daily during the encounter period when no other R/T NIMS activities are planned. The Io and Europa data will be returned on 9/07/96 (D251). The Callisto data will be returned on 9/09/96 (D253).

### G2 Playback

G2 playback will start 9/11/96 (D255) at the start of track 1. Tracks 1 through 4 will be played back in one pass. G2 playback is scheduled to end on 10/27/96 (D301).

## G2 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
G2NNCHOPON01-	96-247/16:59:59	96-247/17:05:59	000/00:06:00
G2NNRECOVY01-	96-247/17:12:30	96-247/17:16:32	000/00:04:02
G2JNSL9LIM01-	96-247/17:22:27	96-247/17:31:49	000/00:09:21
G2NNOPCAL_01-	96-248/12:44:59	96-248/12:50:00	000/00:05:01
G2JNGLOMOS01-	96-249/01:06:59	96-249/01:21:00	000/00:14:01
G2JNGLOMOS02-	96-249/02:46:59	96-249/03:01:00	000/00:14:01
G2JNGLOMOS03-	96-249/04:26:59	96-249/04:41:00	000/00:14:01
G2JNGLOMOS04-	96-249/06:03:56	96-249/06:17:57	000/00:14:01
G2JNGLOMOS05-	96-249/07:47:56	96-249/08:00:04	000/00:12:08
G2JNGLOMOS06-	96-249/09:27:00	96-249/09:41:00	000/00:14:00
G2HNDARK__02-	96-249/09:42:12	96-249/09:49:16	000/00:07:04
G2NNRECOVY02-	96-249/17:00:00	96-249/17:02:29	000/00:02:28
G2JNTHRMNS03-	96-250/07:17:57	96-250/07:47:59	000/00:30:01
G2JNTHRMNS04-	96-250/10:05:57	96-250/10:35:59	000/00:30:01
G2NNRECOVY03-	96-250/11:39:18	96-250/11:41:47	000/00:02:28
G2GNSIPPAR01-	96-250/16:07:15	96-250/16:21:24	000/00:14:09
G2GNNRPOLE01-	96-250/17:27:06	96-250/17:47:31	000/00:20:24
G2GNTAMMUZ01-	96-250/17:56:22	96-250/18:09:47	000/00:13:25
G2GNANTUM_01-	96-250/18:38:22	96-250/18:44:25	000/00:06:03
G2GNLIMBSC01+	96-250/18:47:00	96-250/18:51:03	000/00:04:02
G2GNBRFRGR01-	96-250/18:53:08	96-250/18:59:08	000/00:06:00
G2NNMMRYLD01	96-250/21:16:39	96-250/21:25:45	000/00:09:06
G2INCHEMIS01-	96-250/22:46:38	96-250/22:54:00	000/00:07:21
G2INCHEMIS02-	96-251/01:43:58	96-251/01:53:27	000/00:09:28
G2HNDARK__03-	96-251/02:50:19	96-251/02:57:23	000/00:07:04
G2INHRSPEC01-	96-251/05:21:01	96-251/05:31:53	000/00:10:52
G2INIOMON_01-	96-251/08:02:45	96-251/08:09:49	000/00:07:04
G2JNTHRMNS07-	96-251/08:19:27	96-251/09:19:29	000/01:00:01
G2INCHEMIS03-	96-251/09:34:59	96-251/09:44:19	000/00:09:20
G2INCHEMIS04-	96-251/13:59:57	96-251/14:08:31	000/00:08:33
G2ENLEADMP01-	96-251/17:07:45	96-251/17:13:50	000/00:06:04
G2HNDARK__04-	96-251/17:16:50	96-251/17:22:54	000/00:06:04

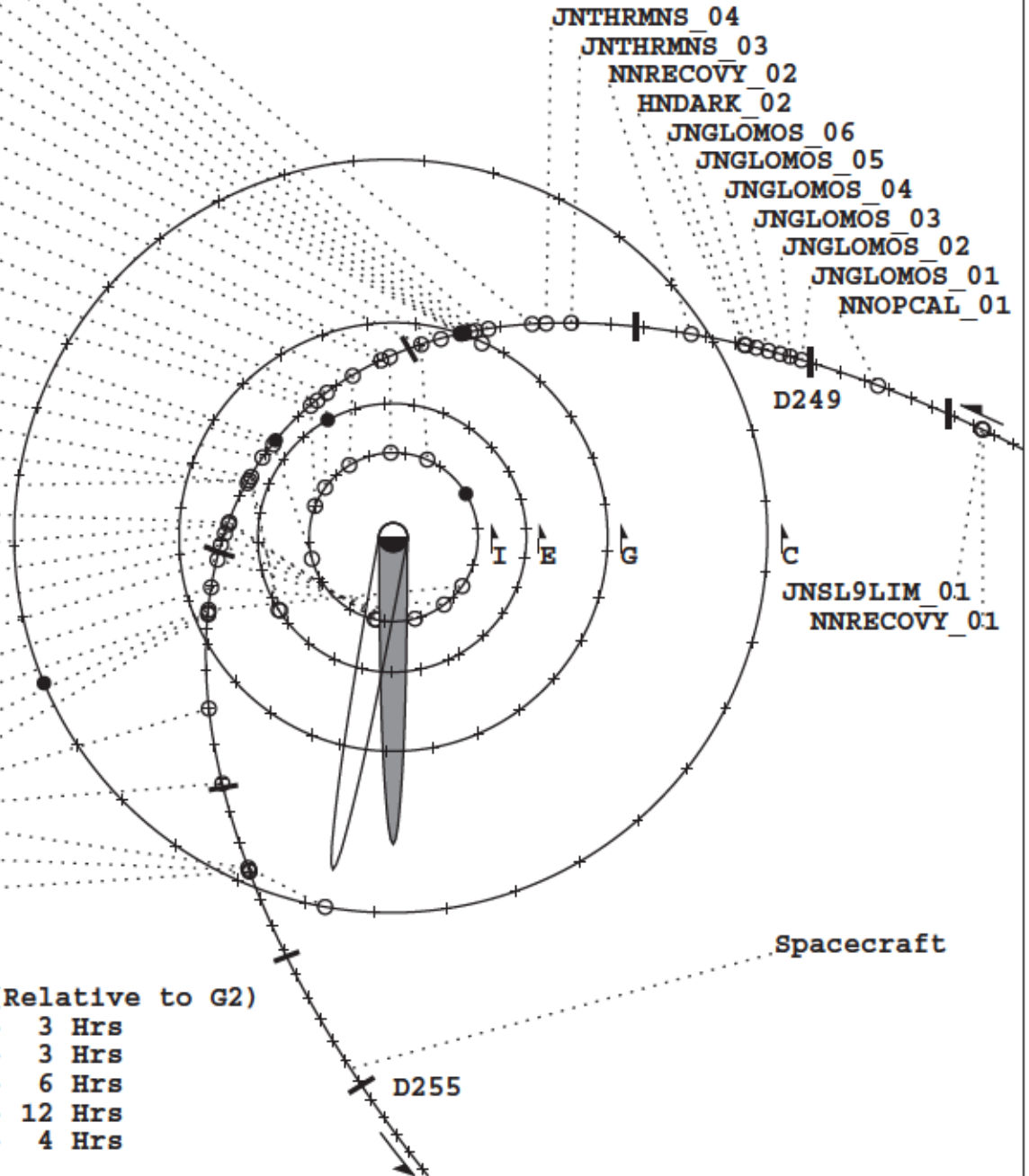
## G2 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
G2ENEURORT01-	96-251/17:28:58	96-251/17:37:03	000/00:08:05
G2INCHEMIS05-	96-251/21:20:59	96-251/21:26:41	000/00:05:42
G2INTHRMAL01-	96-251/21:27:59	96-251/21:33:53	000/00:05:53
G2INVOLCAN01-	96-251/22:20:10	96-251/22:25:13	000/00:05:03
G2INVOLCAN02-	96-251/23:20:50	96-251/23:25:53	000/00:05:03
G2INVOLCAN03-	96-252/00:35:39	96-252/00:40:43	000/00:05:03
G2INVOLCAN04-	96-252/03:06:19	96-252/03:11:22	000/00:05:03
G2INVOLCAN05-	96-252/05:14:43	96-252/05:19:47	000/00:05:03
G2HNDARK__05-	96-252/05:20:47	96-252/05:27:52	000/00:07:04
G2NNMMRYLD02-	96-252/10:05:55	96-252/10:15:01	000/00:09:06
G2NNPCTCAL01-	96-252/13:54:26	96-252/15:38:35	000/01:44:08
G2NNRECOVY04-	96-252/23:30:46	96-252/23:34:49	000/00:04:02
G2CNGLOBAL01-	96-253/10:25:58	96-253/10:44:10	000/00:18:12
G2HNDARK__06-	96-253/10:49:13	96-253/10:56:18	000/00:07:04
G2CNCALLRT01-	96-253/10:59:20	96-253/11:05:24	000/00:06:04
G2NNCHOPOF01-	96-253/11:06:25	96-253/11:16:31	000/00:10:06
G2NNSHDOFF01-	96-254/13:35:00	96-256/08:24:06	001/18:49:06
G2NNRCTRLT01-	96-256/08:24:06	96-256/21:39:51	000/13:15:44
G2NNSHDOFF02-	96-286/05:22:48	96-287/18:05:00	001/12:42:12
G2NNRCTRLT02-	96-287/18:05:00	96-288/07:20:45	000/13:15:44
G2NNOPCAL__02-	96-300/09:57:23	96-300/10:25:42	000/00:28:18

# NIMS G2 OBSERVATIONS

NNRECOVY\_03  
 GNSIPPAR\_01  
 GNNRPOLE\_01  
 GNTAMMUZ\_01  
 GNANTUM\_01  
 GNLIMBSC\_01  
 GNBRFRGR\_01  
 G2  
 LOAD\_A  
 INCHEMIS\_01  
 INCHEMIS\_02  
 HNDARK\_03  
 INHRSPEC\_01  
 INIOMON\_01  
 JNTHRMNS\_07  
 INCHEMIS\_03  
 PJ2  
 INCHEMIS\_04  
 LOAD\_RBS  
 ENLEADMP\_01  
 HNDARK\_04  
 ENEURORT\_01  
 INCHEMIS\_05  
 INTRMAL\_01  
 INVOLCAN\_01  
 INVOLCAN\_02  
 INVOLCAN\_03  
 INVOLCAN\_04  
 INVOLCAN\_05  
 HNDARK\_05  
 LOAD\_B  
 NNPCTCAL\_01  
 NNRECOVY\_04  
 CNGLOBAL\_01  
 HNDARK\_06  
 CNCALLRT\_01

Sun ↑      ↑ Earth

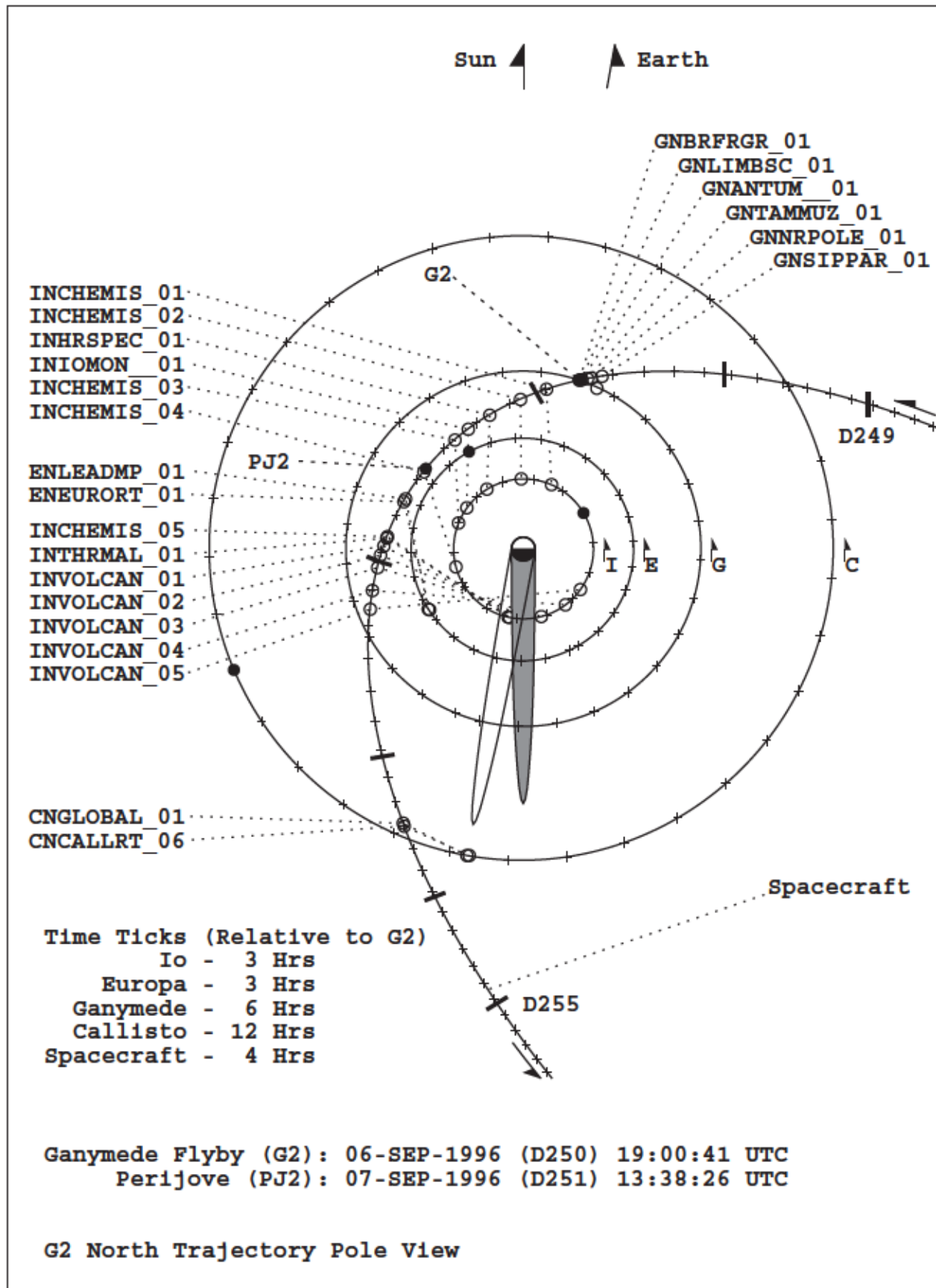


Time Ticks (Relative to G2)  
 Io - 3 Hrs  
 Europa - 3 Hrs  
 Ganymede - 6 Hrs  
 Callisto - 12 Hrs  
 Spacecraft - 4 Hrs

Ganymede Flyby (G2): 06-SEP-1996 (D250) 19:00:41 UTC  
 Perijove (PJ2): 07-SEP-1996 (D251) 13:38:26 UTC

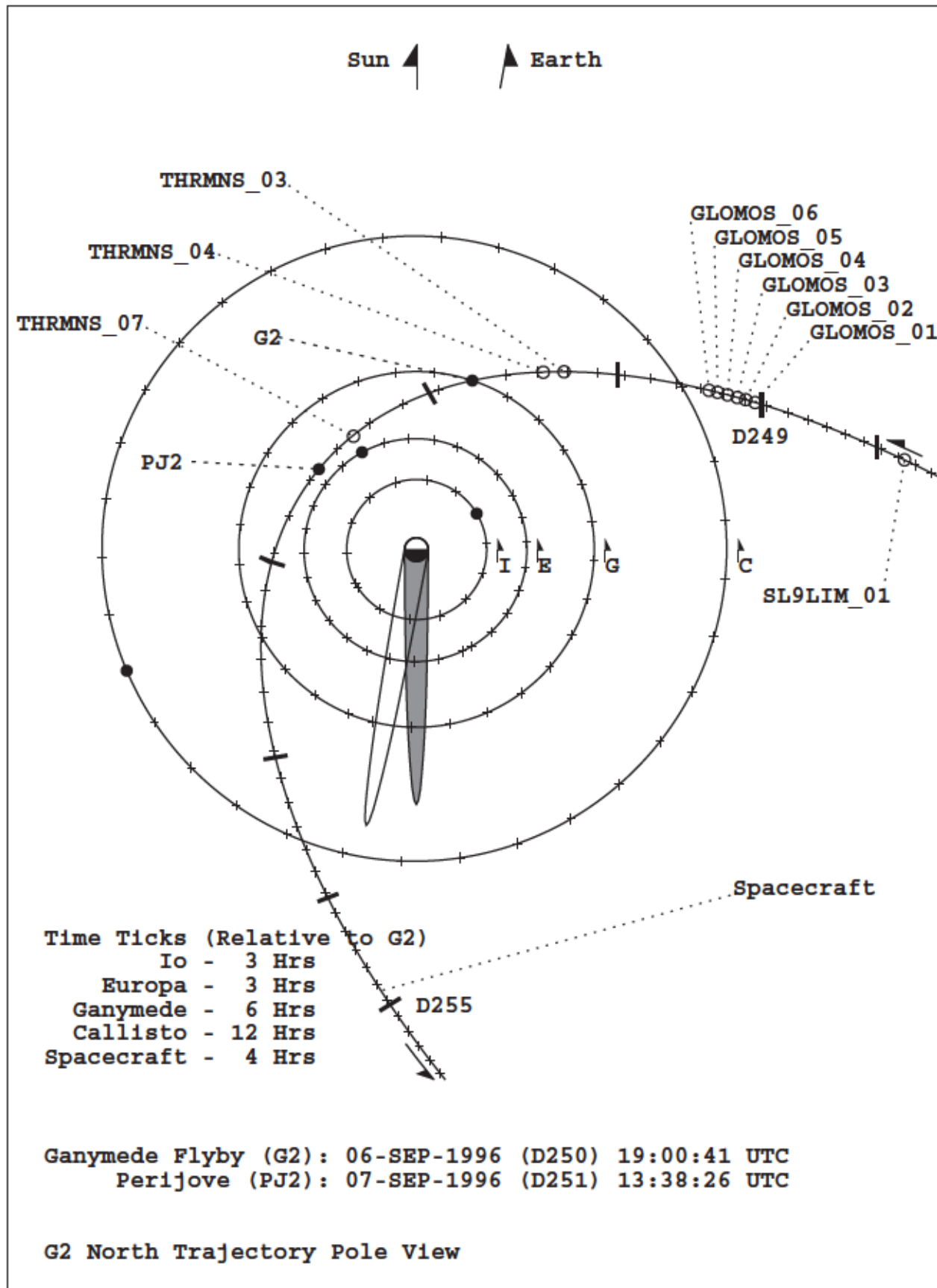
G2 North Trajectory Pole View

# NIMS G2 SATELLITE OBSERVATIONS





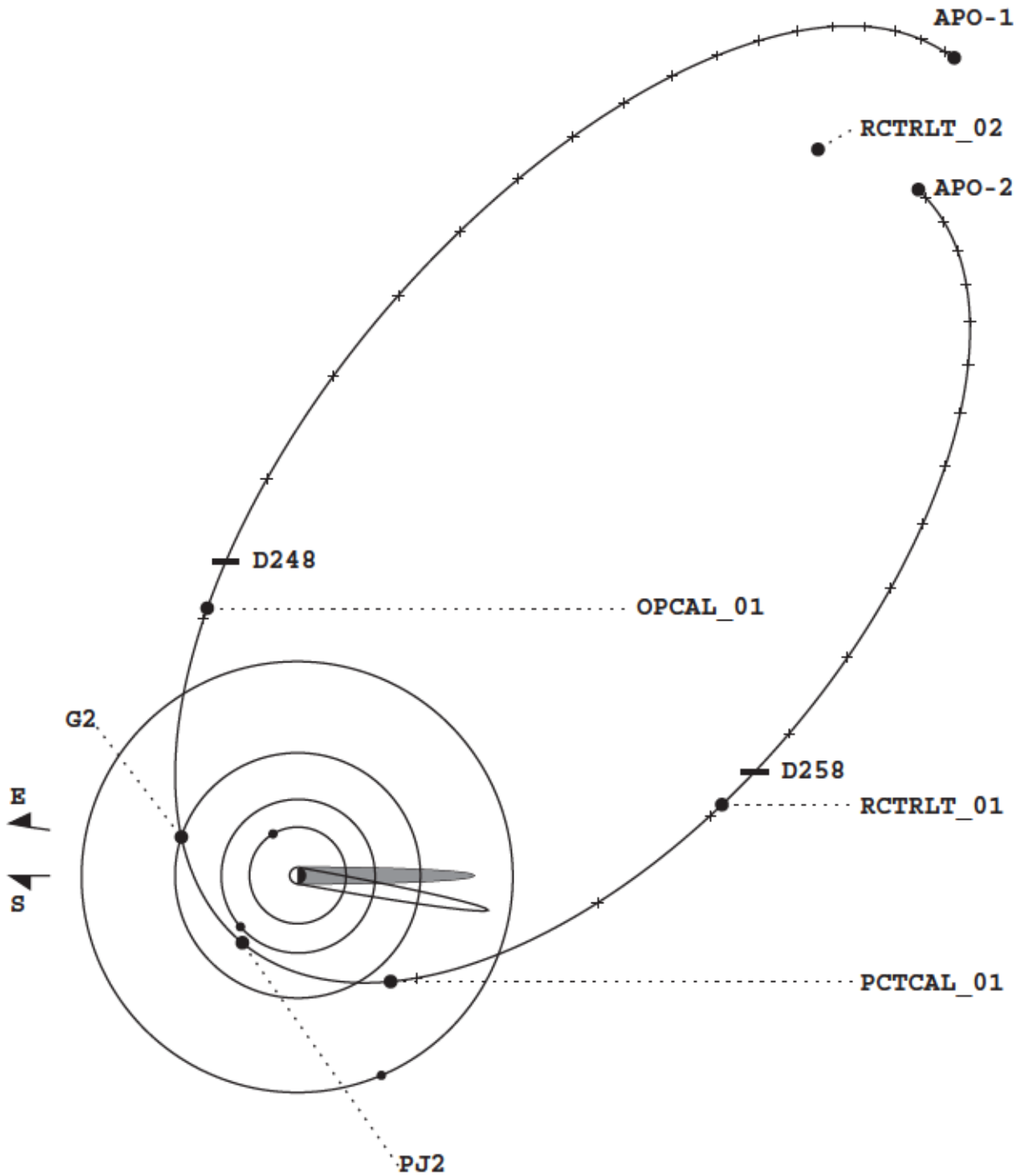
# NIMS G2 JUPITER OBSERVATIONS



# NIMS G2 CALIBRATIONS

Ganymede Flyby (G2): 06-SEP-1996 (D250) 19:00:41 UTC  
Perijove (PJ2): 207SEP-1996 (D251) 13:38:26 UTC

Time Ticks (Relative to G2)  
Spacecraft - 2 Days



G2 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS G2 Instrument States and Resource Usage

ACTID	NIMS mode	Record mode	Tics	Number wavelength return	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)
G2NNRECOVY01-	LM	Real Time		3				
G2JNSL9LIM01-	LM	LPU	85.7037	80	361	27	0.17	2.23
G2NNOPCAL_01-	LM	R/T		48				
G2JNGLOMOS01-	XM	LPU	139.6145	5	591	589	3.64	3.65
G2JNGLOMOS02-	XM	LPU	139.6145	5	591	589	3.64	3.65
G2JNGLOMOS03-	XM	LPU	139.6145	5	591	590	3.64	3.65
G2JNGLOMOS04-	XM	LPU	139.6145	5	591	590	3.64	3.65
G2JNGLOMOS05-	XM	LPU	139.6145	5	591	590	3.64	3.65
G2JNGLOMOS06-	XM	LPU	139.6145	5	591	590	3.64	3.65
G2HNDARK_02-	LM	LPU	16.1579	34	65	65	0.40	0.40
G2NNRECOVY02-	LM	Real Time		3				
G2JNTHRMNS03-	LM	LPU	351.9671	80	1497	353	2.18	9.24
G2JNTHRMNS04-	LM	LPU	350.4177	80	1491	27	0.16	9.19
G2NNRECOVY03-	LM	Real Time		3				
G2GNSIPPAR01-	LM	LPU	157.4245	204	667	118	0.73	4.12
G2GNRPOLE01-	FM	MPW	1025.4771	204	1163	270	3.12	13.44
G2GNTAMMUZ01-	LM	LPU	129.9200	204	550	545	3.36	3.39
G2GNANTUM_01-	FM	MPW	255.5379	204	287	286	3.31	3.32
G2GNLIMBSC01+	XS	MPW		3	182	181	2.10	2.10
G2GNBRFRGR01-	FM	MPW	147.7434	204	165	161	1.86	1.90
G2INCHEMIS01-	LM	MPW	183.1745	228	205	199	2.30	2.37
G2INCHEMIS02-	LM	LPU	58.5061	228	245	243	1.50	1.51
G2HNDARK_03-	LM	MPW	59.8358	34	65	65	0.75	0.75
G2INHRSPEC01-	LM	MPW	252.6076	408	284	283	3.27	3.28
G2INIOMON_01-	LM	Real Time						
G2JNTHRMNS07-	LM	LPU	785.3024	80	3346	129	0.80	20.64
G2INCHEMIS03-	LM	LPU	66.2413	102	278	276	1.70	1.72
G2INCHEMIS04-	LM	LPU	55.6996	102	233	232	1.43	1.44
G2ENLEADMP01-	LM	LPU	43.0420	204	179	179	1.10	1.11
G2HNDARK_04-	LM	MPW	59.8358	34	65	65	0.75	0.75
G2ENEURORT01-	LM	Real Time						
G2INCHEMIS05-	LM	MPW	125.4659	102	139	138	1.59	1.61

NIMS G2 Instrument States and Resource Usage

ACTID	NIMS mode	Record mode	Tics	Number wavelength return	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)
G2INTHRMAL01-	LM	LPU	13.3454	10	53	53	0.32	0.32
G2INVOLCAN01-	LM	LPU	8.6574	10	33	33	0.20	0.20
G2INVOLCAN02-	LM	LPU	8.6574	10	33	33	0.20	0.20
G2INVOLCAN03-	LM	LPU	8.6574	10	33	33	0.20	0.20
G2INVOLCAN04-	LM	LPU	8.6574	10	33	33	0.20	0.20
G2INVOLCAN05-	LM	LPU	8.7352	10	33	33	0.20	0.20
G2HNDARK 05-	LM	LPU	16.1579	34	65	65	0.40	0.40
G2PCTCAL01(PCT)	LM	LPU	132.4512	128	563	186	1.15	3.47
G2NNRECOVY04-	LM	Real Time		3				
G2CNGLOBAL01-	LM	MPW	547.3379	408	619	619	7.16	7.16
G2HNDARK 06-	LM	LPU	16.1579	34	65	65	0.40	0.40
G2CNCALRT 01-	LM	Real Time						
G2NNRCTRLT01-	LM	Real Time		252				
G2NNRCTRLT02-	LM	Real Time		252				
G2NNOPCAL_02-	LM	R/T		48				
<b>Total</b>			<b>5816.56</b>					<b>119.15</b>
<b>Allocated</b>			<b>6056.86</b>					
<b>Oversubscribed</b>			<b>-240.30</b>					

NIMS G2 Instrument States and Resource Usage

ACTID	Mode cycle time (sec)	AACS Mbits compress 2.5	RT BTG	Threshold	Comp.	Playback BTG (w/ 4% overhead)	Data Reduction Factor (sBOT/BTG)
G2NNRECOVY01-	8.667		0.00				
G2JNSL9LIM01-	8.667	0.02		0	2.00	0.026	6.43
G2NNOPCAL_01-	8.667		0.00				
G2JNGLOMOS01-	0.333	0.03		0	2.00	0.920	3.95
G2JNGLOMOS02-	0.333	0.03		0	2.00	0.920	3.95
G2JNGLOMOS03-	0.333	0.03		0	2.00	0.921	3.95
G2JNGLOMOS04-	0.333	0.03		0	2.00	0.921	3.95
G2JNGLOMOS05-	0.333	0.03		0	2.00	0.921	3.95
G2JNGLOMOS06-	0.333	0.03		0	2.00	0.921	3.95
G2HNDARK_02-	8.667	0.00		0	4.00	0.013	30.24
G2NNRECOVY02-	8.667		0.00				
G2JNTHRMNS03-	8.667	0.09		0	2.00	0.339	6.43
G2JNTHRMNS04-	8.667	0.09		0	2.00	0.026	6.43
G2NNRECOVY03-	8.667		0.00				
G2GNSIPPAR01-	8.667	0.04		0	2.20	0.263	2.77
G2GNNRPOLE01-	4.333	0.07		0	2.20	1.200	2.60
G2GNTAMMUZ01-	8.667	0.03		0	2.20	1.214	2.77
G2GNANTUM_01-	4.333	0.02		0	2.20	1.273	2.60
G2GNLIMBSC01+	0.167	0.01		0	2.20	0.309	6.79
G2GNBRFRGR01-	4.333	0.01		0	2.20	0.715	2.60
G2INCHEMIS01-	8.667	0.01		0	2.20	0.494	4.65
G2INCHEMIS02-	8.667	0.01		0	2.20	0.604	2.48
G2HNDARK_03-	8.667	0.00		0	4.00	0.013	56.65
G2INHRSPEC01-	8.667	0.02		0	2.20	1.258	2.60
G2INIOMON_01-			0.03				
G2JNTHRMNS07-	8.667	0.19		0	2.00	0.124	6.43
G2INCHEMIS03-	8.667	0.02		0	2.20	0.307	5.54
G2INCHEMIS04-	8.667	0.01		0	2.20	0.258	5.54
G2ENLEADMP01-	8.667	0.01		2	3.00	0.292	3.78
G2HNDARK_04-	8.667	0.00		0	4.00	0.013	56.65
G2ENEURORT01-			0.02	2			
G2INCHEMIS05-	8.667	0.01		0	2.20	0.154	10.39

NIMS G2 Instrument States and Resource Usage

ACTID	Mode cycle time (sec)	AACS Mbits compress 2.5	RT BTG	Threshold	Comp.	Playback BTG (w/ 4% overhead)	Data Reduction Factor (sBOT/BTG)
G2INTHRMAL01-	8.667	0.00		0	2.20	0.006	56.54
G2INVOLCAN01-	8.667	0.00		0	2.20	0.004	56.54
G2INVOLCAN02-	8.667	0.00		0	2.20	0.004	56.54
G2INVOLCAN03-	8.667	0.00		0	2.20	0.004	56.54
G2INVOLCAN04-	8.667	0.00		0	2.20	0.004	56.54
G2INVOLCAN05-	8.667	0.00		0	2.20	0.004	56.54
G2HNDARK 05-	8.667	0.00		0	4.00	0.013	30.24
G2PCTCAL01(PCT)	8.667	0.03		0	2.20	0.260	4.42
G2NNRECOVY04-	8.667		0.00	0			
G2CNGLOBAL01-	8.667	0.04		2	3.00	2.021	3.54
G2HNDARK 06-	8.667	0.00		0	4.00	0.013	30.24
G2CNCALRT 01-			0.02				
G2NNRCTRLT01-	8.667		0.04				
G2NNRCTRLT02-	8.667		0.04				
G2NNOPCAL_02-	8.667		0.00				
<b>Total</b>		<b>0.95</b>	<b>0.15</b>			<b>16.750</b>	
<b>Allocated</b>						<b>16.752</b>	
<b>Oversubscribed</b>						<b>-0.002</b>	

NIMS G2 Instrument States and Resource Usage (AWG)

ACTID	NIMS mode	Record mode	Tics	Number wavelenght return	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)
G2JNGLOMOS01-	XM	LPU	139.6145	5	591	589	3.64	3.65
G2JNGLOMOS02-	XM	LPU	139.6145	5	591	589	3.64	3.65
G2JNGLOMOS03-	XM	LPU	139.6145	5	591	590	3.64	3.65
G2JNGLOMOS04-	XM	LPU	139.6145	5	591	590	3.64	3.65
G2JNGLOMOS05-	XM	LPU	139.6145	5	591	590	3.64	3.65
G2JNGLOMOS06-	XM	LPU	139.6145	5	591	590	3.64	3.65
G2JNSL9LIM01-	LM	LPU	85.7037	80	361	27	0.17	2.23
G2JNTHRMNS03-	LM	LPU	351.9671	80	1497	353	2.18	9.24
G2JNTHRMNS04-	LM	LPU	350.4177	80	1491	27	0.16	9.19
G2JNTHRMNS07-	LM	LPU	785.3024	80	3346	129	0.79	20.64
<b>Total</b>			<b>2411.08</b>					<b>63.18</b>
<b>Allocated</b>			<b>2364.10</b>					
<b>Oversubscribed</b>			<b>46.98</b>					

NIMS G2 Instrument States and Resource Usage (AWG)

ACTID	Mode cycle time (sec)	AACS Mbits compress 2.5	Threshold	Comp.	Total BTG (w/ 4% overhead)	Data Reduction Factor (sBOT/BTG)
G2JNGLOMOS01-	0.333	0.03	0	2.00	0.920	3.95
G2JNGLOMOS02-	0.333	0.03	0	2.00	0.920	3.95
G2JNGLOMOS03-	0.333	0.03	0	2.00	0.921	3.95
G2JNGLOMOS04-	0.333	0.03	0	2.00	0.921	3.95
G2JNGLOMOS05-	0.333	0.03	0	2.00	0.921	3.95
G2JNGLOMOS06-	0.333	0.03	0	2.00	0.921	3.95
G2JNSL9LIM01-	8.667	0.02	0	2.00	0.026	6.43
G2JNTHRMNS03-	8.667	0.09	0	2.00	0.339	6.43
G2JNTHRMNS04-	8.667	0.09	0	2.00	0.026	6.43
G2JNTHRMNS07-	8.667	0.19	0	2.00	0.124	6.43
<b>Total</b>		<b>0.59</b>			<b>6.040</b>	
<b>Allocated</b>					<b>6.040</b>	
<b>Oversubscribed</b>					<b>0.000</b>	



NIMS G2 Instrument States and Resource Usage (SWG)

ACTID	NIMS mode	Record mode	Tics	Number wavelenght return	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)
G2CNGLOBAL01-	LM	MPW	547.3379	408	619	619	7.15	7.16
G2CNCALRT_01-	LM	R/T						
G2ENLEADMP01-	LM	LPU	43.0420	204	179	179	1.10	1.11
G2ENEURORT01-	LM	R/T						
G2GNANTUM 01-	FM	MPW	255.5379	204	287	286	3.31	3.32
G2GNBRFRGR01-	FM	MPW	147.7434	204	165	161	1.86	1.90
G2GNLIMBSC01+	XS	MPW		3	182	181	2.10	2.10
G2GNSIPPAR01-	LM	LPU	157.4245	204	667	118	0.73	4.12
G2GNRPOLE01-	FM	MPW	1025.4771	204	1163	270	3.12	13.44
G2GNTAMMUZ01-	LM	LPU	129.9200	204	550	545	3.36	3.39
G2INCHEMIS01-	LM	MPW	183.1745	228	205	199	2.30	2.37
G2INCHEMIS02-	LM	LPU	58.5061	228	245	243	1.50	1.51
G2INCHEMIS03-	LM	LPU	66.2413	102	278	276	1.70	1.72
G2INCHEMIS04-	LM	LPU	55.6996	102	233	232	1.43	1.44
G2INCHEMIS05-	LM	MPW	125.4659	102	139	138	1.59	1.61
G2INHRSPEC01-	LM	MPW	252.6076	408	284	283	3.27	3.28
G2INTHRMAL01-	LM	LPU	13.3454	10	53	53	0.32	0.32
G2INVOLCAN01-	LM	LPU	8.6574	10	33	33	0.20	0.20
G2INVOLCAN02-	LM	LPU	8.6574	10	33	33	0.20	0.20
G2INVOLCAN03-	LM	LPU	8.6574	10	33	33	0.20	0.20
G2INVOLCAN04-	LM	LPU	8.6574	10	33	33	0.20	0.20
G2INVOLCAN05-	LM	LPU	8.7352	10	33	33	0.20	0.20
G2INIOMON_01-	LM	R/T						
G2HNDARK 02-	LM	LPU	16.1579	34	65	65	0.40	0.40
G2HNDARK 03-	LM	MPW	59.8358	34	65	65	0.75	0.75
G2HNDARK 04-	LM	MPW	59.8358	34	65	65	0.75	0.75
G2HNDARK 05-	LM	LPU	16.1579	34	65	65	0.40	0.40
G2HNDARK 06-	LM	LPU	16.1579	34	65	65	0.40	0.40

NIMS G2 Instrument States and Resource Usage (SWG)

ACTID	NIMS mode	Record mode	Tics	Number wavelenght return	Observation record time (sec)	Observation playback time (sec)	Selected Bits of Tape sBOT (Mbits)	Total Bits of Tape BOT (Mbits)
G2NNOPCAL_01-	LM	R/T		48	11			
G2NNOPCAL_02-	LM	R/T		48	11			
G2NNRCTRLT01-	LM	R/T		252	35			
G2NNRCTRLT02-	LM	R/T		252	35			
G2PCTCAL01(PCT)	LM	LPU	132.4512	128	563	186	1.15	3.47
<b>Total</b>			<b>3405.48</b>					<b>55.97</b>
<b>Allocated</b>			<b>3692.76</b>					
<b>Oversubscribed</b>			<b>-287.28</b>					

NIMS G2 Instrument States and Resource Usage (SWG)

ACTID	Mode cycle time (sec)	AACS Mbits compress 2.5	RT BTG	Threshold	Comp.	Playback BTG (w/ 4% overhead)	Data Reduction Factor (sBOT/BTG)
G2CNGLOBAL01-	8.667	0.04					
G2CNCALRT_01-			0.02		2	3.00	2.020
			0.02				3.54
G2ENLEADMP01-	8.667	0.01			2	3.00	2.020
G2ENEURORT01-			0.02				0.292
			0.02				3.78
G2GNANTUM 01-	4.333	0.02			0	2.20	0.292
G2GNBRFRGR01-	4.333	0.01			0	2.20	1.273
G2GNLIMBSC01+	0.167	0.01			0	2.20	0.715
G2GNSIPPAR01-	8.667	0.04			0	2.20	0.309
G2GNRPOLE01-	4.333	0.07			0	2.20	0.263
G2GNTAMMUZ01-	8.667	0.03			0	2.20	1.200
							1.214
							4.973
G2INCHEMIS01-	8.667	0.01			0	2.20	0.494
G2INCHEMIS02-	8.667	0.01			0	2.20	0.604
G2INCHEMIS03-	8.667	0.02			0	2.20	0.307
G2INCHEMIS04-	8.667	0.01			0	2.20	0.258
G2INCHEMIS05-	8.667	0.01			0	2.20	0.154
G2INHRSPEC01-	8.667	0.02			0	2.20	1.258
G2INTHRMAL01-	8.667	0.00			0	2.20	0.006
G2INVOLCAN01-	8.667	0.00			0	2.20	0.004
G2INVOLCAN02-	8.667	0.00			0	2.20	0.004
G2INVOLCAN03-	8.667	0.00			0	2.20	0.004
G2INVOLCAN04-	8.667	0.00			0	2.20	0.004
G2INVOLCAN05-	8.667	0.00			0	2.20	0.004
G2INIOMON_01-			0.03				0.004
			0.03				3.098
G2HNDARK 02-	8.667	0.00			0	4.00	0.013
G2HNDARK 03-	8.667	0.00			0	4.00	0.013
G2HNDARK 04-	8.667	0.00			0	4.00	0.013
G2HNDARK 05-	8.667	0.00			0	4.00	0.013
G2HNDARK 06-	8.667	0.00			0	4.00	0.013

NIMS G2 Instrument States and Resource Usage (SWG)

ACTID	Mode cycle time (sec)	AACS Mbits compress 2.5	RT BTG	Threshold	Comp.	Playback BTG (w/ 4% overhead)	Data Reduction Factor (sBOT/BTG)
G2NNOPCAL_01-	8.667		0.00				
G2NNOPCAL_02-	8.667		0.00				
G2NNRCTRLT01-	8.667		0.04				
G2NNRCTRLT02-	8.667		0.04				
G2PCTCAL01(PCT)	8.667	0.03		0	2.20	0.260	4.42
<b>Total</b>		<b>0.36</b>	<b>0.08</b>			<b>0.326</b>	
<b>Allocated</b>			<b>0.148</b>			<b>10.709</b>	
<b>Oversubscribed</b>						<b>10.712</b>	
						<b>-0.003</b>	

## NIMS G2 Inputs

Activity ID	Observation Title	Start time of Activity	Mode	Gain	Record Format
G2NNRECOVY01-	G2 RECOVERY 1	96-247/17:12:30.000	LM	2	Real Time
G2JNSL9LIM01-	JUPITER SL9 IMPACT SITE LIMB OBSERVATION	96-247/17:22:27.933	LM	2	LPU
G2NNOPCAL_01-	OPCAL	96-248/12:44:59.333	LM	4	Real Time
G2JNGLOMOS01-	JUPITER GLOBAL MOSAIC PART 1	96-249/01:06:59.267	XM	2	LPU
G2JNGLOMOS02-	JUPITER GLOBAL MOSAIC PART 2	96-249/02:46:59.267	XM	2	LPU
G2JNGLOMOS03-	JUPITER GLOBAL MOSAIC PART 3	96-249/04:26:59.267	XM	2	LPU
G2JNGLOMOS04-	JUPITER GLOBAL MOSAIC PART 4	96-249/06:03:56.600	XM	2	LPU
G2JNGLOMOS05-	JUPITER GLOBAL MOSAIC PART 5	96-249/07:47:56.600	XM	2	LPU
G2JNGLOMOS06-	JUPITER GLOBAL MOSAIC PART 6	96-249/09:27:00.600	XM	2	LPU
G2HNDARK_02-	DARK OBSERVATION NO. 2	96-249/09:42:12.000	LM	2	LPU
G2NNRECOVY02-	G2 RECOVERY 2	96-249/17:00:00.667	LM	2	Real Time
G2JNTHRMNS03-	JUPITER NORTH/SOUTH STRIPES 3	96-250/07:17:57.933	LM	2	LPU
G2JNTHRMNS04	JUPITER NORTH/SOUTH STRIPES 4	96-250/10:05:57.933	LM	2	LPU
G2NNRECOVY03-	G2 RECOVERY 3	96-250/11:39:18.667	LM	2	Real Time
G2GNSIPPAR01	Ganymede Regional Map of Sippa	96-250/16:07:15.333	LM	2	LPU
G2GNRPOLE01-	North Pole Region Map	96-250/17:27:06.667	FM	3	MPW
G2GNTAMMUZ01-	TAMMUZ BRIGHT RAYED CRATER	96-250/17:56:22.000	LM	2	LPU
G2GNANTUM_01-	ANTUM DARK RAYED CRATER	96-250/18:38:22.000	FM	2	MPW
G2GNLIMBSC01+	LIMB SCAN FOR ATMOSPHERE	96-250/18:47:00.667	XS	4	MPW
G2GNBRFRGR01-	BRFRGR BRIGHT FROST GROOVES	96-250/18:53:08.000	FM	3	MPW
LOAD A		96-250/21:16:39.333			
G2INCHEMIS01-	MONITORING OF IO'S DAYSIDE	96-250/22:46:38.666	LM	2	MPW
G2INCHEMIS02-	MONITORING OF IO'S DAYSIDE	96-251/01:43:58.600	LM	2	LPU
G2HNDARK_03-	DARK OBSERVATION NO. 3	96-251/02:50:19.333	LM	3	MPW
G2INHRSPEC01-	MONITORING OF IO'S DAYSIDE	96-251/05:21:01.266	LM	2	MPW
G2INIOMON_01	Io Monitoring in Real Time	96-251/08:02:45.266	XM	2	Real Time
G2JNTHRMNS07-	JUPITER NORTH/SOUTH STRIPES 7	96-251/08:19:27.933	LM	2	LPU
G2INCHEMIS03-	MONITORING OF IO'S DAYSIDE	96-251/09:34:59.932	LM	2	LPU
G2INCHEMIS04-	MONITORING OF IO'S DAYSIDE	96-251/13:59:57.932	LM	2	LPU
G2ENLEADMP01-	EUROPA LEAD MAP	96-251/17:07:45.932	LM	3	LPU

## NIMS G2 Inputs

Activity ID	Observation Title	Start time of Activity	Mode	Gain	Record Format
G2HNDARK 04-	DARK OBSERVATION NO. 4	96-251/17:16:50.666	LM	3	MPW
G2NEURORT01	Europa Monitoring in Real Time	96-251/17:28:58.599	LM	3	Real Time
G2INCHEMIS05-	MONITORING OF IO'S DAYSIDE	96-251/21:20:59.932	LM	2	MPW
G2INTHRMAL01-	MONITORING OF IO'S NIGHTSIDE	96-251/21:27:59.932	LM	4	LPU
G2INVOLCAN01-	MONITORING OF SELECTED VOLCANICS	96-251/22:20:10.599	LM	2	LPU
G2INVOLCAN02-	MONITORING OF SELECTED VOLCANICS	96-251/23:20:50.599	LM	2	LPU
G2INVOLCAN03-	MONITORING OF SELECTED VOLCANICS	96-252/00:35:39.932	LM	2	LPU
G2INVOLCAN04-	MONITORING OF SELECTED VOLCANICS	96-252/03:06:19.266	LM	2	LPU
G2INVOLCAN05-	MONITORING OF SELECTED VOLCANICS	96-252/05:14:43.932	LM	2	LPU
G2HNDARK 05-	DARK OBSERVATION NO. 5	96-252/05:20:47.999	LM	2	LPU
LOAD B		96-252/10:05:56.000			
G2NNPCTCAL01(PCT)	PCT Calibration	96-252/13:54:26.666	LM	4	LPU
G2NNPCTCAL01(OPCAL)	PCT Calibration	96-252/13:54:26.666	LM	4	LPU
G2NNRECOVY04-	G2 RECOVERY 4	96-252/23:30:46.666	LM	4	Real Time
G2CNGLOBAL01-	G2 CALLISTO GLOBAL COVERAGE	96-253/10:25:58.466	LM	4	MPW
G2HNDARK 06-	DARK OBSERVATION NO. 6	96-253/10:49:13.999	LM	4	LPU
G2CNCALLRT01	Callisto Monitoring in Real Time	96-253/10:59:20.466	LM	4	Real Time
G2NNRCTRLT01	RCT Calibration	96-256/08:24:06.334	LM	1	Real Time
G2NNRCTRLT02-	RCT Calibration	96-287/18:05:00.667	LM	1	Real Time
G2NNOPCAL 02-	OPCAL	96-300/09:57:23.999	LM	4	Real Time

## NIMS G2 Inputs

Activity ID	NIMS Edit		NIMS		Extra		Grating		Grating		DSN Coverage
	Table		Playback Table		Detectors Recorded	Start Position	Offset				
G2NNRECOVY01-	G2RCVY3					0	4			M	
G2JNSL9LIM01-	G2JSB253A		G2JSB80A			0	4			M	
G2NNOPCAL_01-	G2OPCAL48					0	4			C,M	
G2JNGLOMOS01-	G2JGM10A		G2JGM05A			5	4			G	
G2JNGLOMOS02-	G2JGM10A		G2JGM05A			5	4			C,G	
G2JNGLOMOS03-	G2JGM10A		G2JGM05A			5	4			C	
G2JNGLOMOS04-	G2JGM10A		G2JGM05A			5	4			C	
G2JNGLOMOS05-	G2JGM10A		G2JGM05A			5	4			C	
G2JNGLOMOS06-	G2JGM10A		G2JGM05A			5	4			C	
G2HNDARK_02-	G2DRK34		G2DRK34			0	4			C	
G2NNRECOVY02-	G2RCVY3					0	4			M	
G2JNTHRMNS03-	G2J5M253A		G2J5M80A			0	4			C	
G2JNTHRMNS04	G2J5M253A		G2J5M80A			0	4			C	
G2NNRECOVY03-	G2RCVY3					0	4			C	
G2GNSIPPAR01	G2GLM245B		G2GLM204	7,8		0	4			M	
G2GNRPOLE01-	G2GFM221		G2GFM204			0	4			M	
G2GNTAMMUZ01-	G2GLM245C		G2GLM204	6,7		0	4			M	
G2GNANTUM_01-	G2GFM221		G2GFM204			0	4			M	
G2GNLIMBSC01+	G2GXS17		G2GXS003			1	4			M	
G2GNBRFRGR01-	G2GFM221		G2GFM204			0	4			M	
LOAD A										M	
G2INCHEMIS01-	G2ILM245		G2ILM228	9,10		0	4			M,G	
G2INCHEMIS02-	G2ILM245		G2ILM228	9,10		0	4			G	
G2HNDARK_03-	G2DRK34		G2DRK34			0	4			G	
G2INHRSPEC01-	G2ILM442		G2ILM408			0	4			C	
G2INIOMON_01	G2IXM8RT					21	4			C	
G2JNTHRMNS07-	G2J5M253A		G2J5M80A			0	4			C	
G2INCHEMIS03-	G2ILM245		G2ILM102	9,10		0	4			C	
G2INCHEMIS04-	G2ILM245		G2ILM102	9,10		0	4			C	
G2ENLEADMP01-	G2ELM245		G2ELM204	6,7		0	4			M	

## NIMS G2 Inputs

Activity ID	NIMS Edit		NIMS Playback		Extra Detectors Recorded	Grating Start Position		Grating Offset	DSN Coverage
	Table		Table						
G2HNDARK 04-	G2DRK34		G2DRK34			0	4		M
G2ENEURORT01	G2ELM442					0	4		M
G2INCHEMIS05-	G2ILM442		G2ILM102			0	4		M
G2INTHRMAL01-	G2ILMDK245		G2ILMDK10			0	4		M
G2INVOLCAN01-	G2ILMDK245		G2ILMDK10			0	4		G
G2INVOLCAN02-	G2ILMDK245		G2ILMDK10			0	4		G
G2INVOLCAN03-	G2ILMDK245		G2ILMDK10			0	4		G
G2INVOLCAN04-	G2ILMDK245		G2ILMDK10			0	4		G
G2INVOLCAN05-	G2ILMDK245		G2ILMDK10			0	4		G
G2HNDARK 05-	G2DRK34		G2DRK34			0	4		G
LOAD B									C
G2NNPCTCAL01(PCT)	G2PCT252		G2PCT128			0	4		C
G2NNPCTCAL01(OPCAL)	G2PCT252		G2OPCAL48			0	4		C
G2NNRECOVY04-	G2RCVY3					0	4		G
G2CNGLOBAL01-	G2CLM442		G2CLM408			0	4		C
G2HNDARK 06-	G2DRK34		G2DRK34			0	4		C
G2CNCALLRT01	G2CLM442					0	4		C
G2NNRCTRLT01	G2RCT252					0	4		C
G2NNRCTRLT02-	G2RCT252					0	4		M
G2NNOPCAL 02-	G2OPCAL48					0	4		C



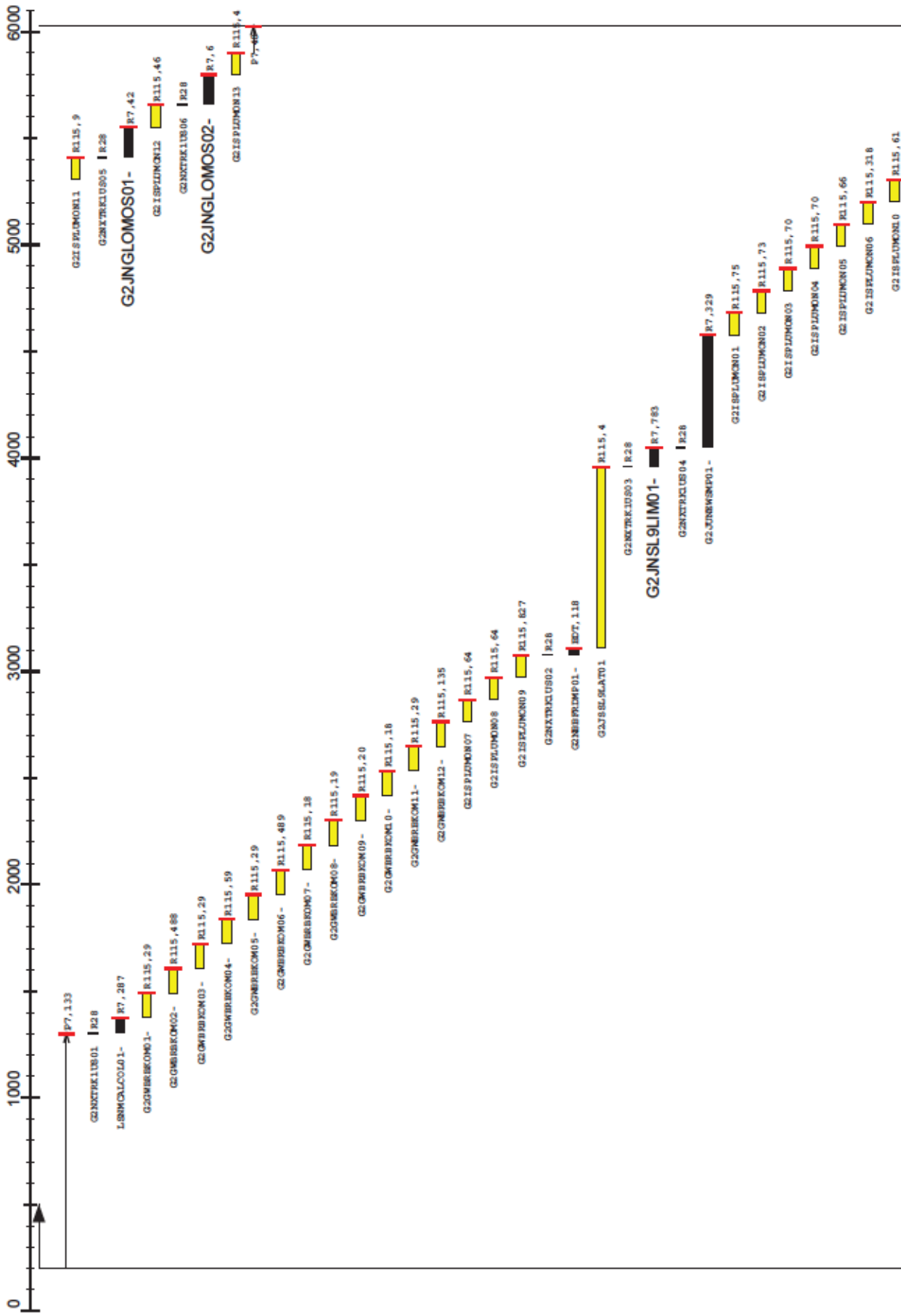
NIMS G2 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G2JNSL9LIM01	-40 to -45	338 to 36	2,950K	109	40 to 58	54 to 89	80
G2JNGLOMOS01	-90 to +90	45 to 160	2,200K	122	0 to 90	0 to 90	67
G2JNGLOMOS02	-90 to +90	105 to 215	2,150K	124	0 to 90	0 to 90	66
G2JNGLOMOS03	-90 to +90	163 to 275	2,100K	124	0 to 90	0 to 90	65
G2JNGLOMOS04	-90 to +90	222 to 335	2,100K	125	0 to 90	0 to 90	64
G2JNGLOMOS05	-90 to +90	282 to 30	2,000K	126	0 to 90	0 to 90	63
G2JNGLOMOS06	-90 to +90	342 to 90	2,000K	127	0 to 90	0 to 90	62
G2JNTHRMNS03	-90 to +90	120 to 130	1,320K	150	40 to 90	0 to 90	39
G2JNTHRMNS04	-90 to +90	208 to 216	1,250K	153	20 to 90	0 to 90	35
G2GNSIPPAR01	-28 to 0	175 to 195	72K	158	21 to 37	3 to 19	31
G2GNNRPOLE01	+50 to +90	125 to 250	38K	159	50 to 90	60 to 90	30
G2GNTAMMUZ01	+10 to +15	225 to 238	23K	163	65 to 77	41 to 51	26
G2GNANTUM_01	+3 to +7	218 to 222	6K	161	56 to 58	39 to 46	24
G2GNLIMBSC01	-43 to +2	190 to 198	5,500	124	27 to 51	52 to 100	58
G2GNBRFRGR01	70	192	600 to 1500	128 to 172	74	52 to 63	16 to 46

NIMS G2 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G2INCHEMIS01	-90 to +90	60 to 240	585K	151	0 to 75	0 to 72	5
G2INCHEMIS02	-90 to +90	90 to 270	482K	167	0 to 93	0 to 90	4
G2INIOMON_01	-30 to +30	210 to 280	440K	169	13 to 76	14 to 77	2
G2INHRSPEC01	-90 to +90	120 to 300	439K	170	0 to 90	0 to 90	2
G2JNTHRMNS07	-90 to +90	240 to 250	760K	143	20 to 80	0 to 80	27
G2INCHEMIS03	-90 to +90	150 to 330	483K	166	0 to 93	0 to 90	4
G2INCHEMIS04	-90 to +90	180 to 360	587K	151	0 to 110	0 to 90	19
G2ENLEADMP01	-90 to +90	210 to 390	672K	158	0 to 102	0 to 90	12
G2ENEURORT01	-30 to +30	290 to 307	671K	156	0 to 13	0 to 17	14
G2INCHEMIS05	-90 to +90	210 to 390	861K	114	0 to 146	0 to 90	56
G2JNTHRMAL01	-90 to +90	200 to 260	867K	113	87 to 147	30 to 90	57
G2INVOLCAN01	-90 to +90	230 to 260	907K	109	90 to 120	35 to 62	61
G2INVOLCAN02	-90 to +90	237 to 267	956K	104	94 to 121	34 to 60	66
G2INVOLCAN03	-90 to +90	240 to 272	1020K	97	100 to 129	34 to 62	73
G2INVOLCAN04	-90 to +90	219 to 292	1150K	85	102 to 167	23 to 90	85
G2INVOLCAN05	-90 to +90	227 to 306	1260K	75	106 to 166	18 to 90	95
G2CNGLOBAL01	-90 to +90	240 to 390	423K	107	33 to 103	31 to 90	63
G2CNCALLRT01	-10 to +10	260 to 330	422K	104	21 to 85	0 to 45	52

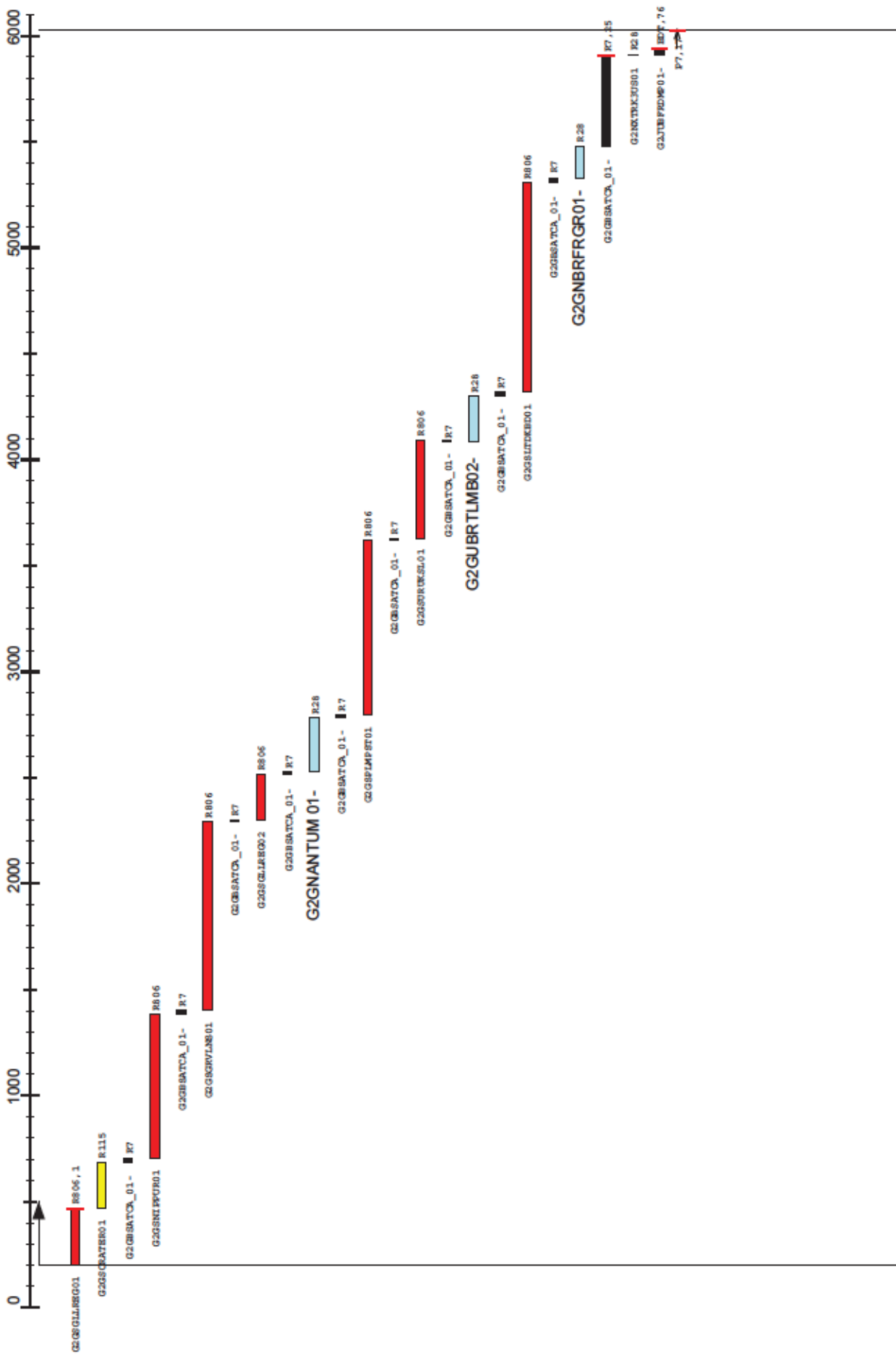
# Track 1





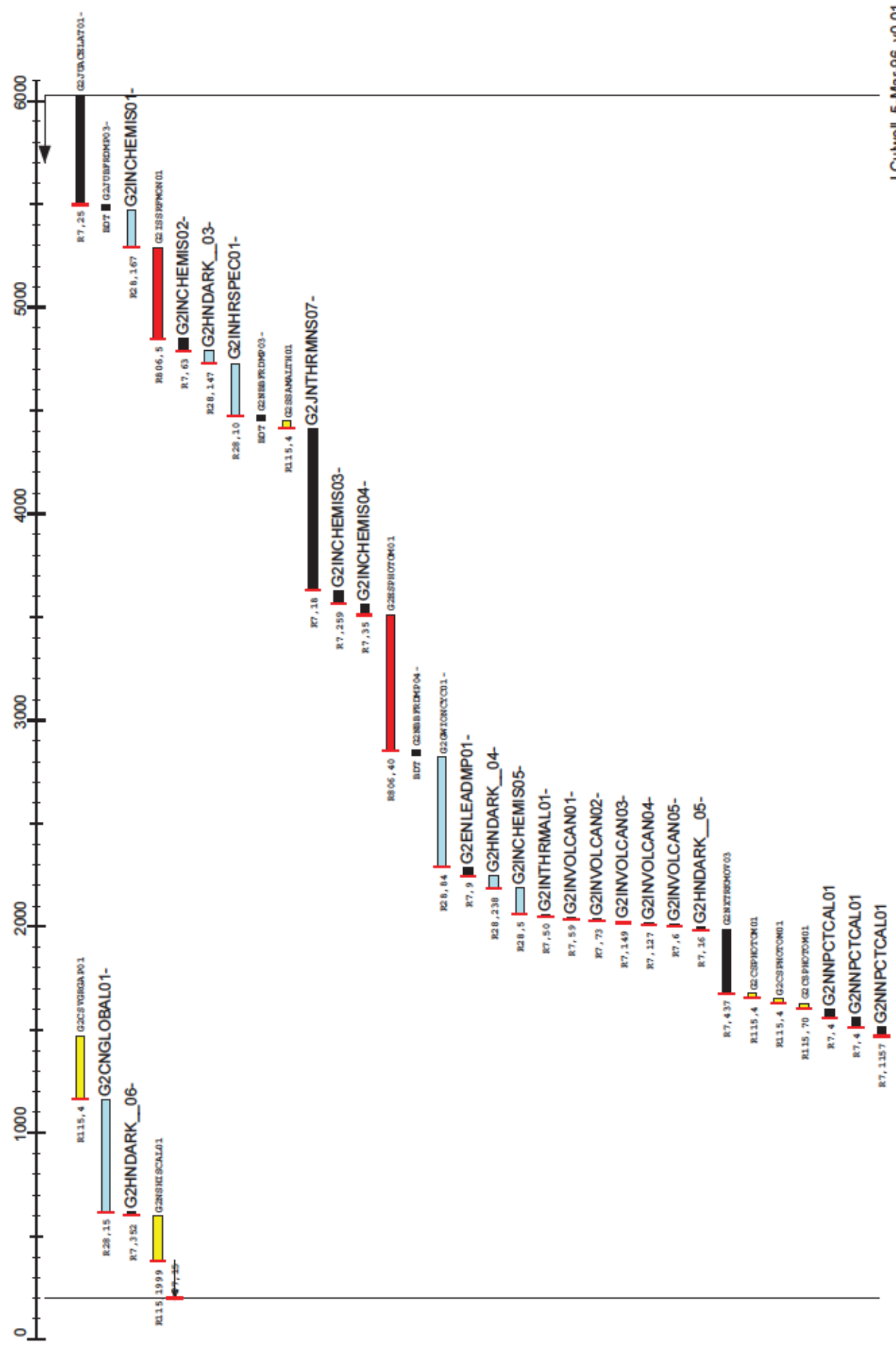
# Track 3

Phase 2A Tapemap of g02ab.960821.ssd  
Date: Wed Aug 21 15:04:21 1996 Page: 3



# Track 4

Phase 2A Tapemap of g02ab.960821.ssd  
Date: Wed Aug 21 15:04:21 1996 Page: 4





# G02PCA

1304/1 1376/1

LSNMCALCOL01-

149

0

G2GWRBKOM02-

2197/1 2304/1

G2GWRBKOM08-

2313/1 2420/1

G2GWRBKOM09-

2545/1 2652/1

G2GWRBKOM11-

2661/1 2769/1

G2GWRBKOM12-

2777/1 2873/1

G2ISPLUMON07

2882/1 2977/1

G2ISPLUMON08

2986/1 3082/1

G2ISPLUMON09

3087/1 3116/1

G2NBBFRDMP01-

3123/1 3967/1

G2JSSL9LAT01

3972/1 4057/1

G2JNSL9LIM01-

4061/1 4587/1

G2JUNNEWSMP01-

4595/1 4691/1

G2ISPLUMON01

4700/1 4795/1

G2ISPLUMON02

4804/1

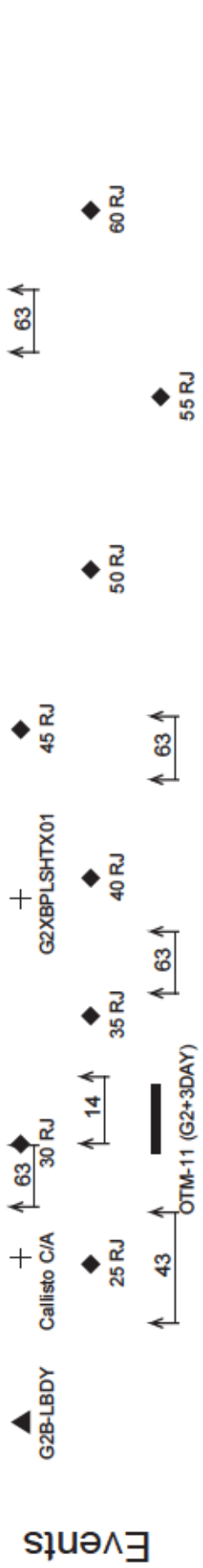
G2ISPLUMON03

## Playback / Date Returned

2-33



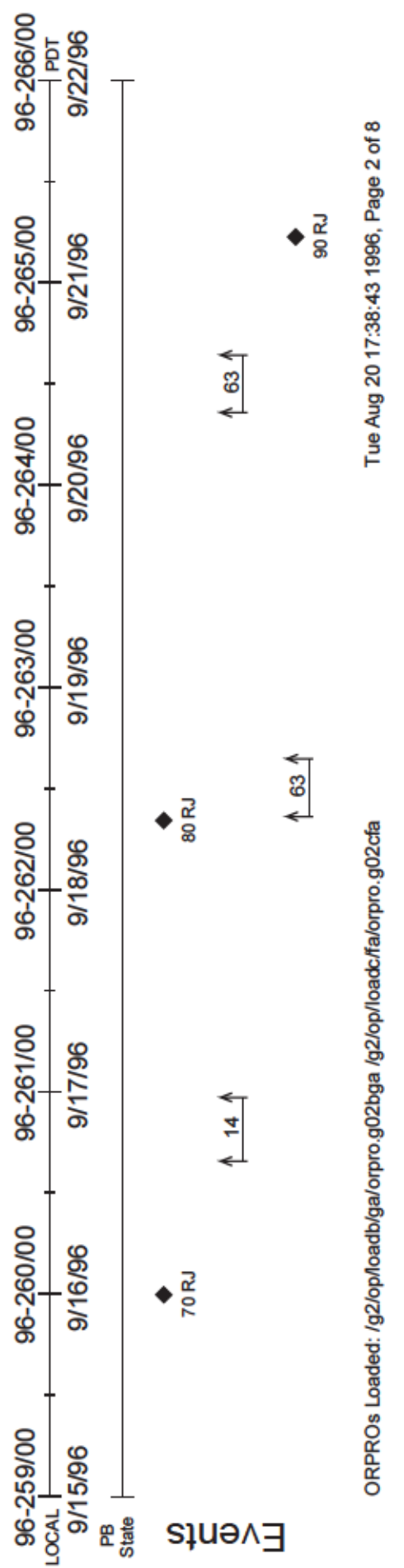
## Events





# G02PCA

Req #	Item	Quantity	Unit	Backorder	Order Date	Order Type	Order Status	Order Number	Order Date	Order Type	Order Status
4900/1	G2ISPLUMON03										
4908/1	G2ISPLUMON04										
5013/1	G2ISPLUMON05										
5071/1	G2ISPLUMON06										
5222/1	G2ISPLUMON10										
5226/1	G2ISPLUMON11										
5427/1	G2JNGLOMOS01-										
5573/1	G2ISPLUMON12										
5675/1	G2JNGLOMOS02-										
5821/1	G2ISPLUMON13										
6020/2	G2ISPLUMON14										
5866/2	G2JNGLOMOS03-										
5720/2	G2ISPLUMON15										
5622/2	G2JNGLOMOS04-										
5476/2	G2ISPLUMON16										
5375/2	G2ISPLUMON17										
5277/2	G2ISPLUMON18										
5033/2	G2JNGLOMOS06-										
4894/2	G2HNDARK_02										
4871/2	G2ISPLUM19-32										
3566/2	G2JNTHRMNS03-										
3007/2	G2JNTHRMNS04-										
2552/2	G2NSIPPAR01-										
2357/2	G2GNNRPOLE01-										
1333/2	G2NBBFRDMP02-										
1304/2	G2GNTAMMUZ01-										



# G02PCA

G2GNTAMMUZ01-  
1174/2  
1108/2

G2GSTRANST01

303/2

269/3  
G2GSGLLREG01  
456/3  
667/3  
G2GSCRATER01

668/3

G2GBSATCA\_01-

760/3

G2GSNIPPUR01

Playback / Date Returned

96-266/00	96-267/00	96-268/00	96-269/00	96-270/00	96-271/00	96-272/00	96-273/00
LOCAL	9/23/96	9/24/96	9/25/96	9/26/96	9/27/96	9/28/96	9/29/96
PB State							PDT

R

↑ 63 ↑

↑ 14 ↑

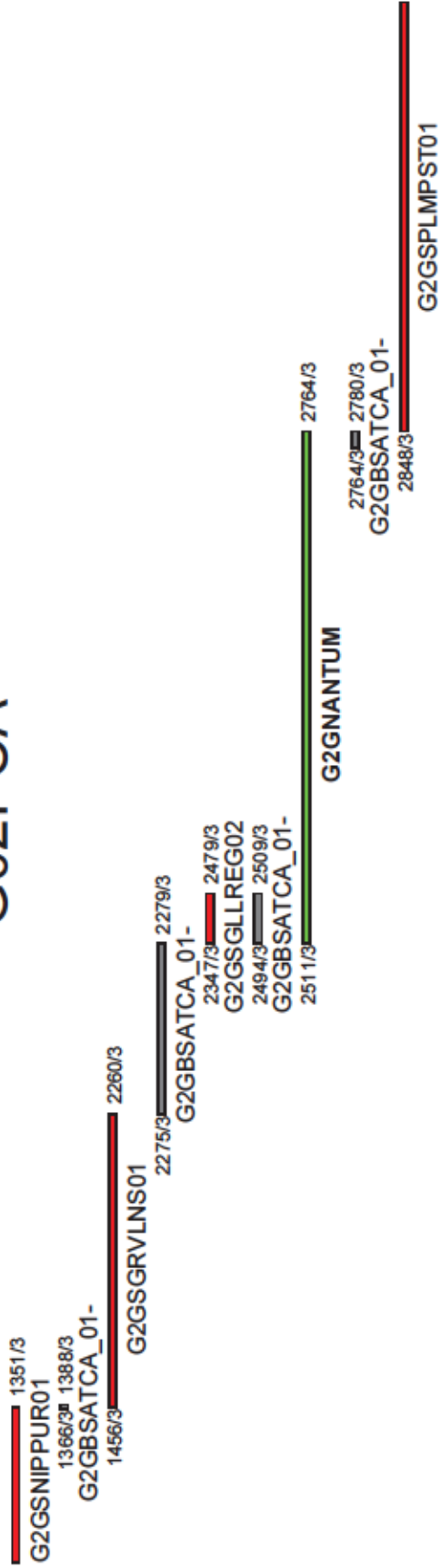
↑ 63 ↑

G2 ATT TO 4.0 DEG OFF RTH

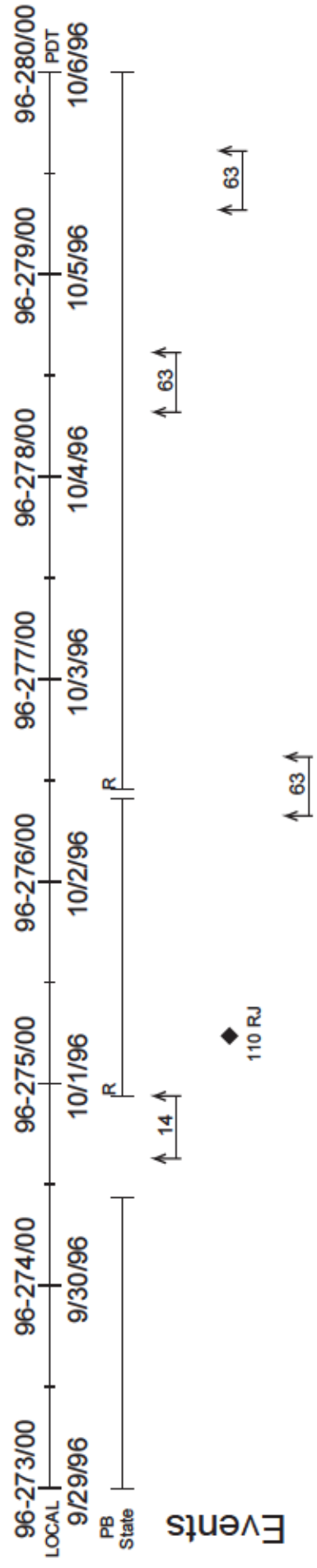
◆  
100 RJ

Events

# G02PCA

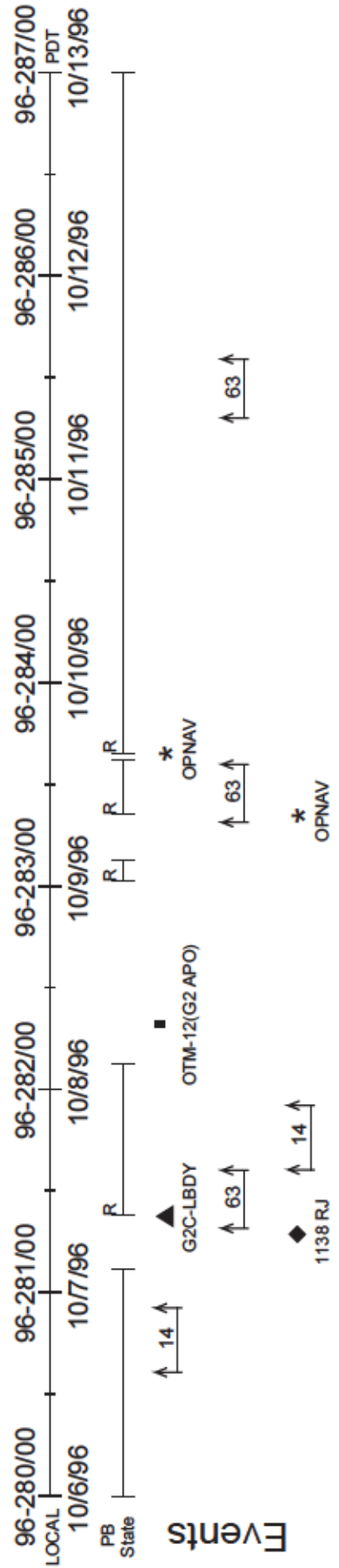
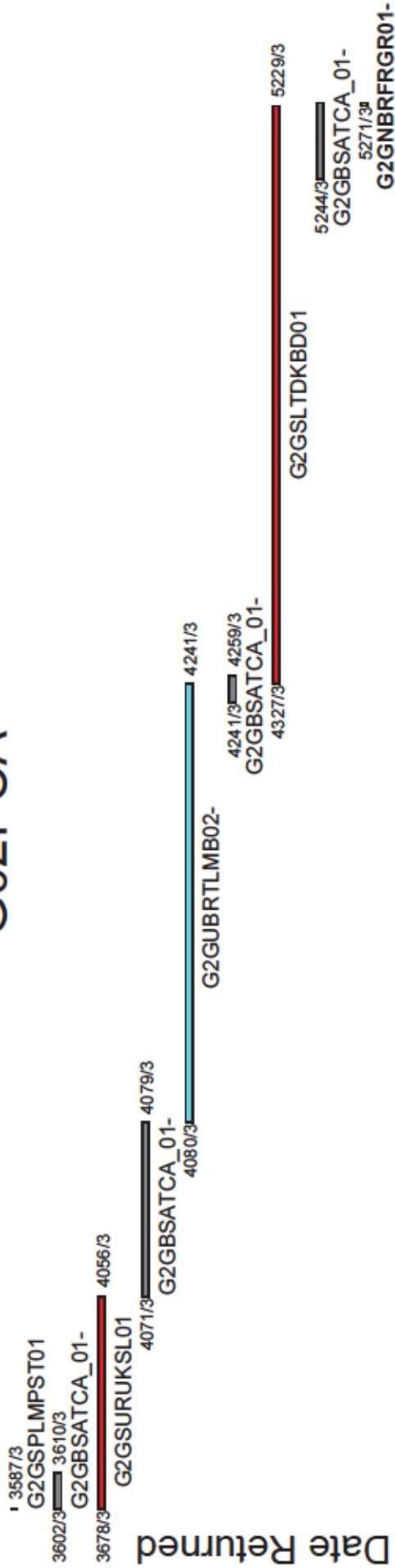


Playback / Date Returned



Events

# G02PCA

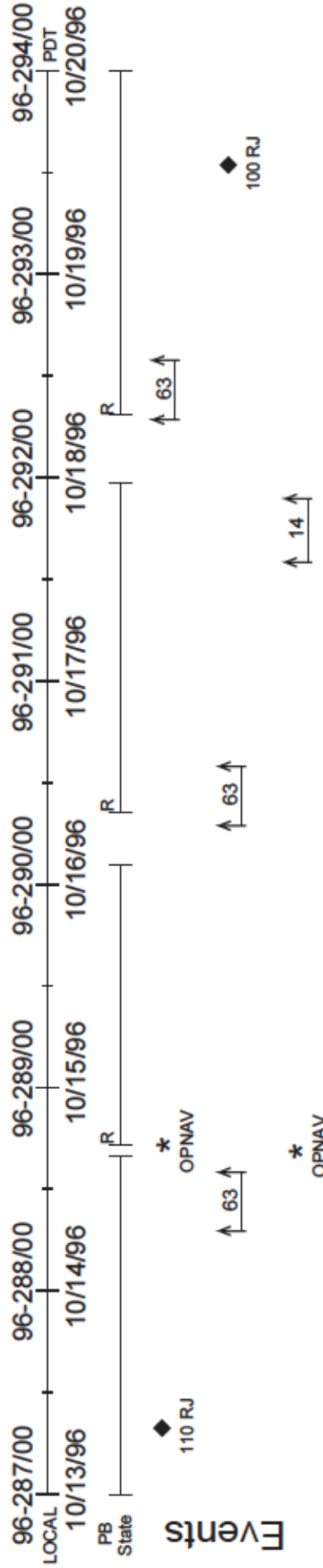


# G02PCA

5270/3  
 G2GBSATCA\_01-  
 5417/3  
 G2GNBRFRGR01-  
 5417/3

G2GBSATCA\_01-

Playback / Date Returned

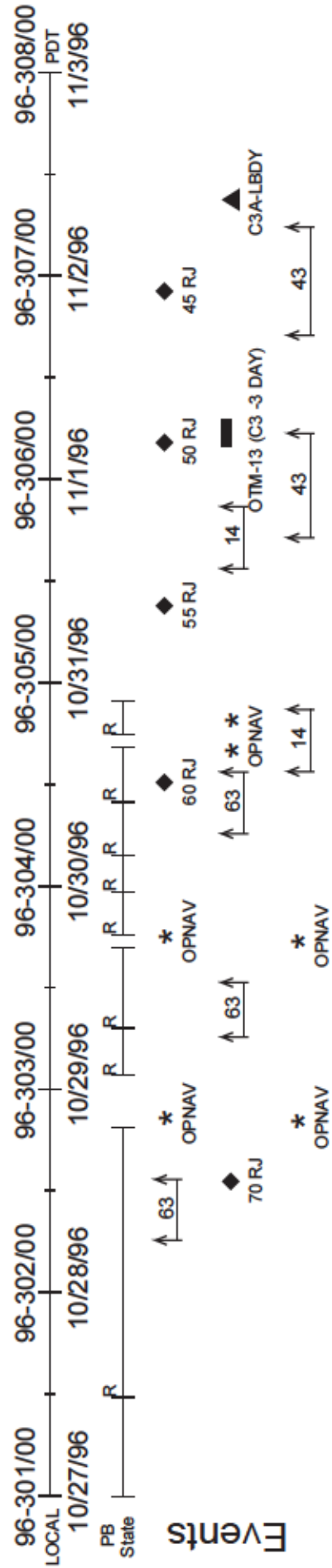




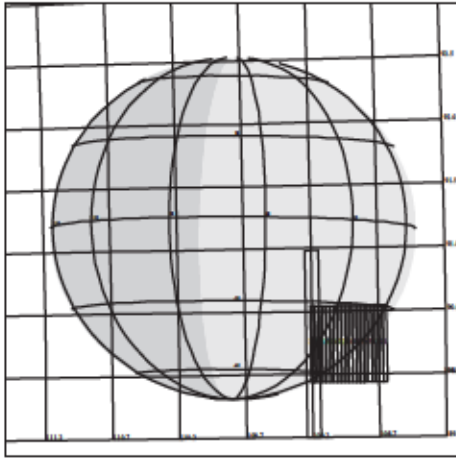
# G02PCA

G2XBPLSHTX01-455/1

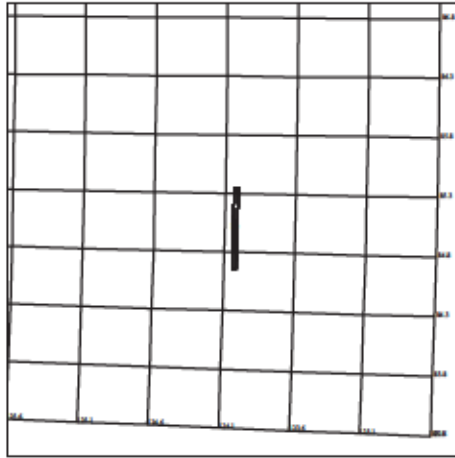
Playback / Date Returned



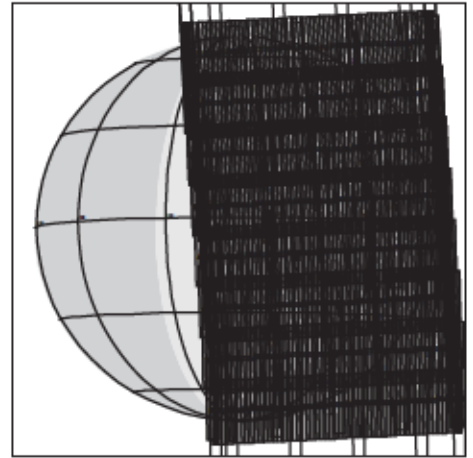
# G2 NIMS A



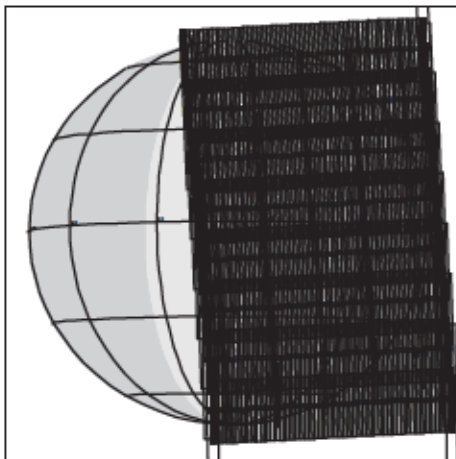
**G2JNSL9LIM01**  
**96-247/17:22:27**



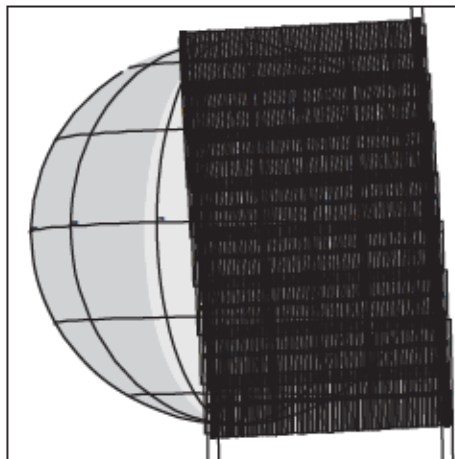
**G2NNOPCAL\_01**  
**96-248/12:44:59**



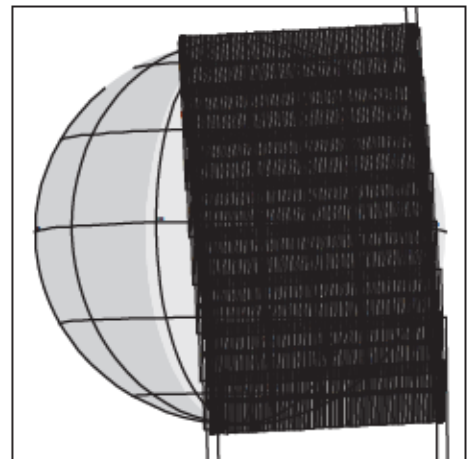
**G2JNGLOMOS01**  
**96-249/01:06:59**



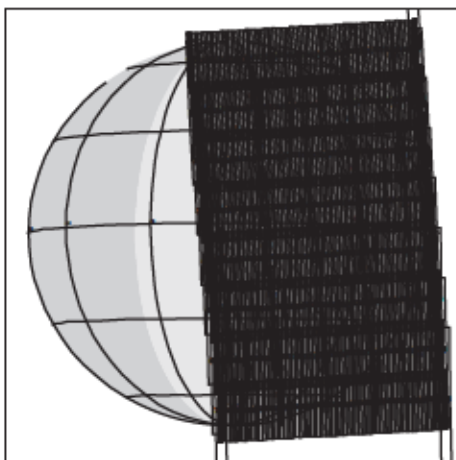
**G2JNGLOMOS02**  
**96-249/02:46:59**



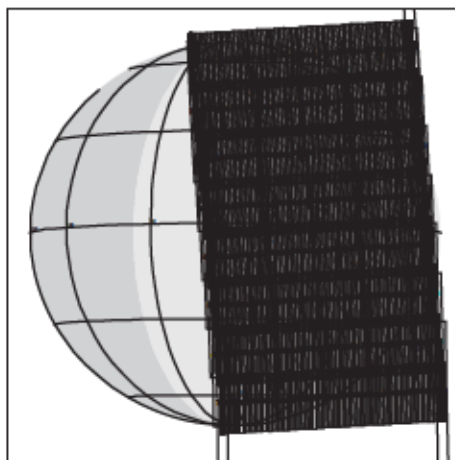
**G2JNGLOMOS03**  
**96-249/04:26:59**



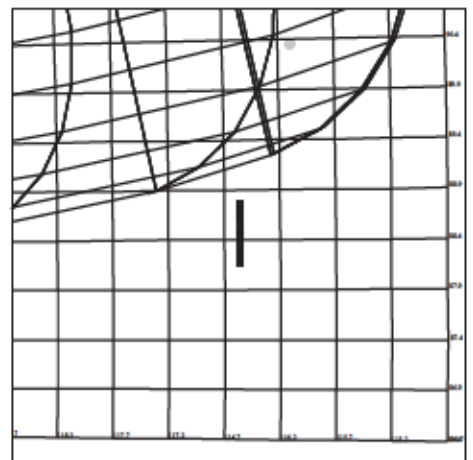
**G2JNGLOMOS04**  
**96-249/06:03:56**



**G2JNGLOMOS05**  
**96-249/07:47:56**



**G2JNGLOMOS06**  
**96-249/09:27:00**



**G2HNDARK\_\_02**  
**96-249/09:42:12**



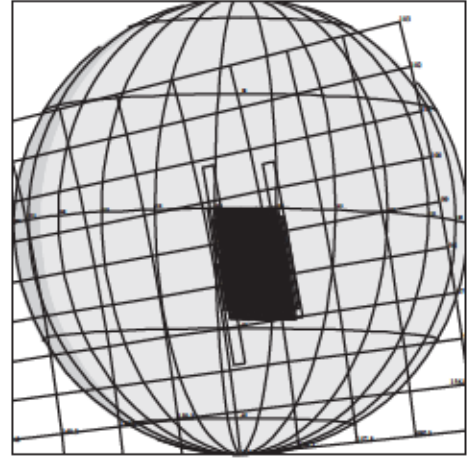
## G2 NIMS B



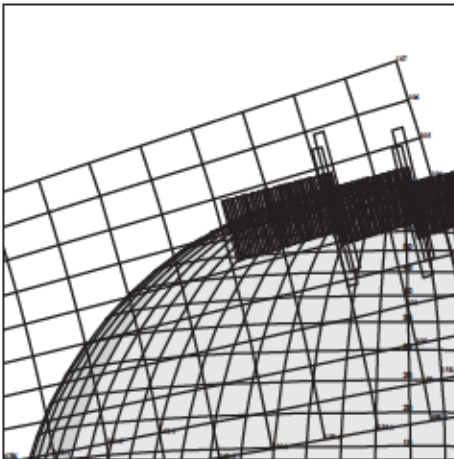
**G2JNTHRMNS03**  
**96-250/07:17:57**



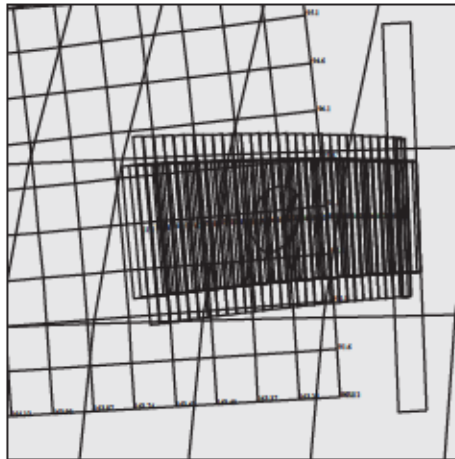
**G2JNTHRMNS04**  
**96-250/10:05:57**



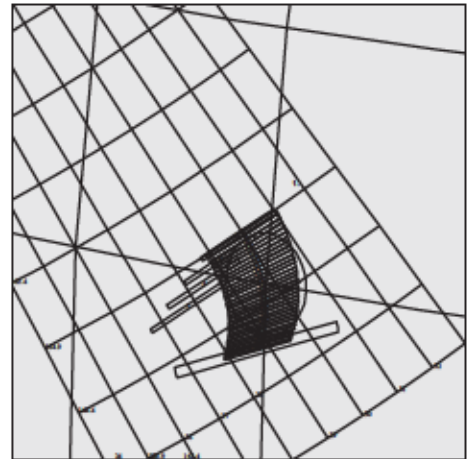
**G2GNSIPPAR01**  
**96-250/16:07:15**



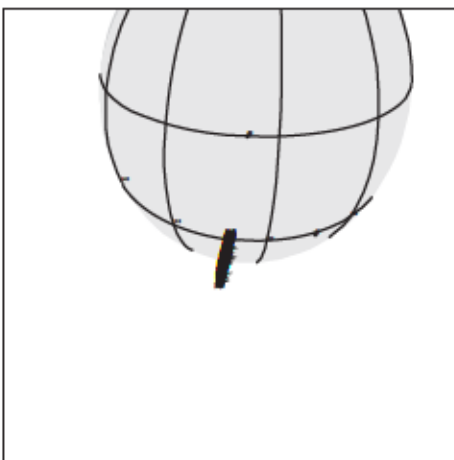
**G2GNNRPOLE01**  
**96-250/17:27:06**



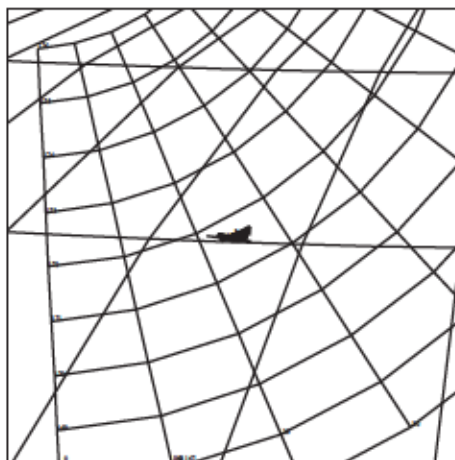
**G2GNTAMMUZ01**  
**96-250/17:56:22**



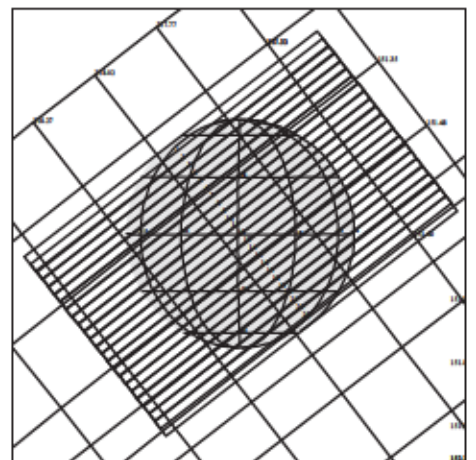
**G2GNANTUM\_01**  
**96-250/18:38:22**



**G2GNLIMBSC01**  
**96-250/18:47:00**

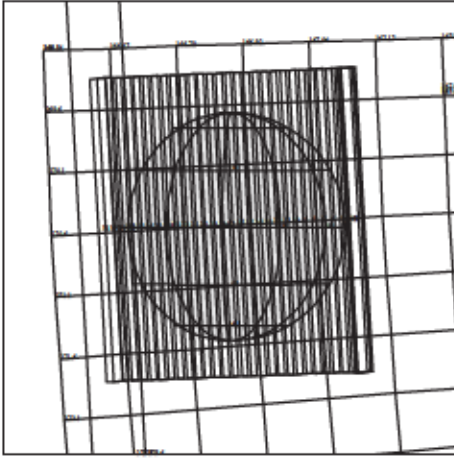


**G2GNBRFRGR01**  
**96-250/18:53:08**

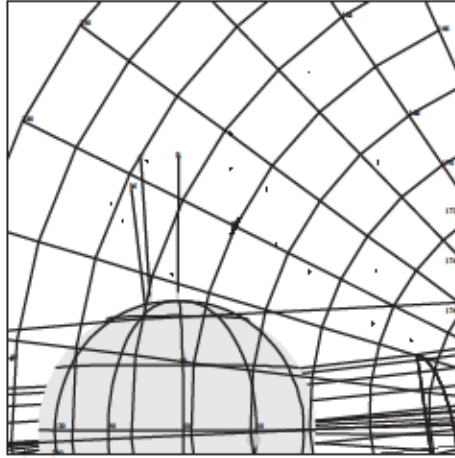


**G2INCHEMIS01**  
**96-250/22:46:38**

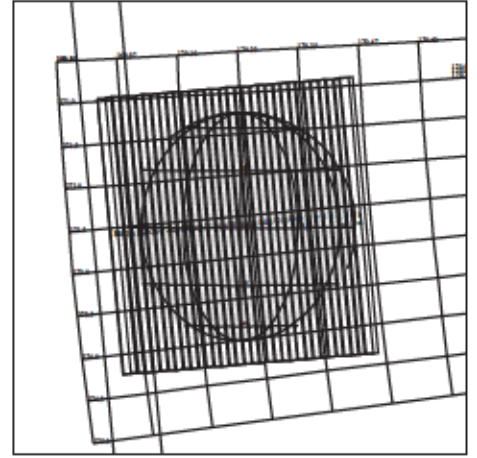
# G2 NIMS C



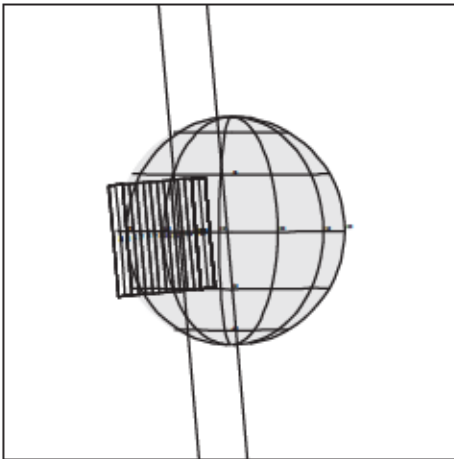
**G2INCHEMIS02**  
**96-251/01:43:58**



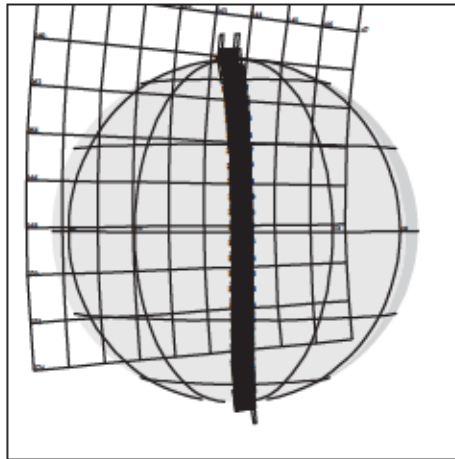
**G2HNDARK\_03**  
**96-251/02:50:19**



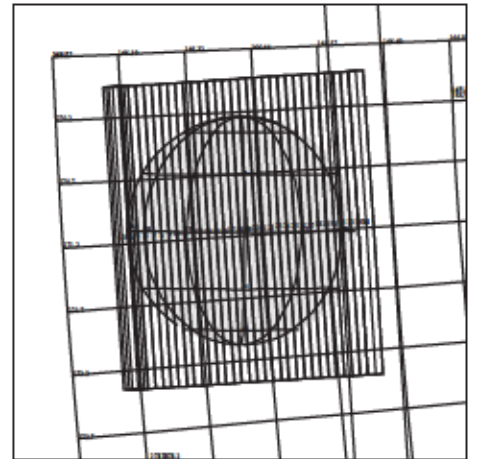
**G2INHRSPEC01**  
**96-251/05:21:01**



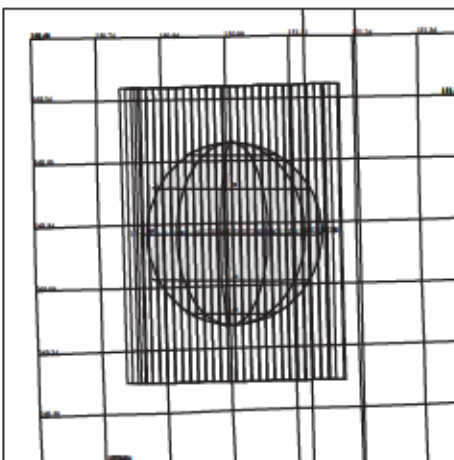
**G2INIOMON\_01**  
**96-251/08:02:45**



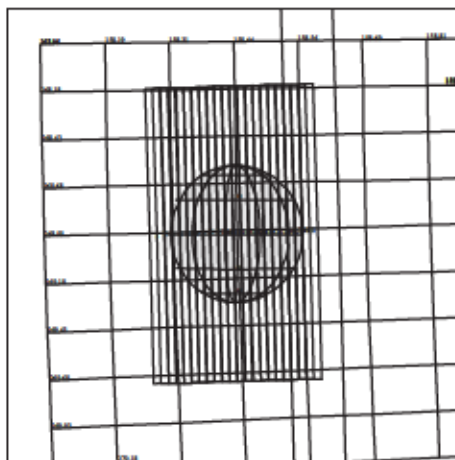
**G2JNTHRMNS07**  
**96-251/08:19:27**



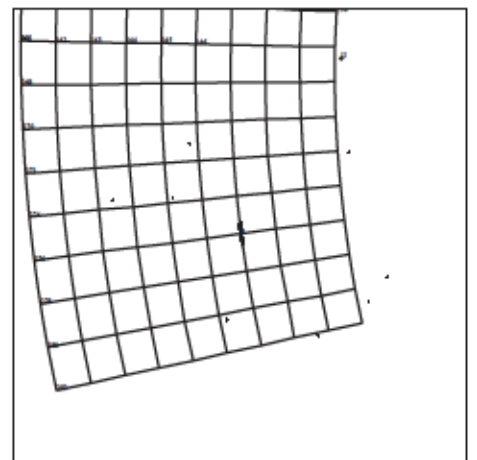
**G2INCHEMIS03**  
**96-251/09:34:59**



**G2INCHEMIS04**  
**96-251/13:59:57**

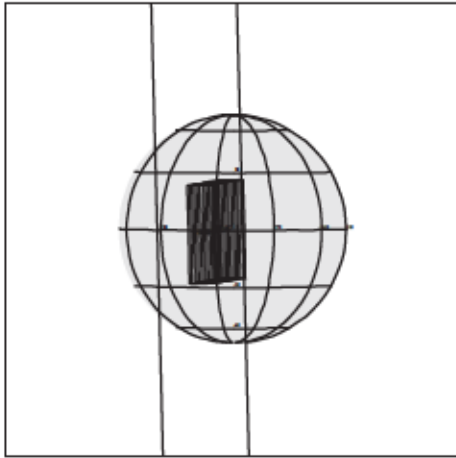


**G2ENLEADMP01**  
**96-251/17:07:45**

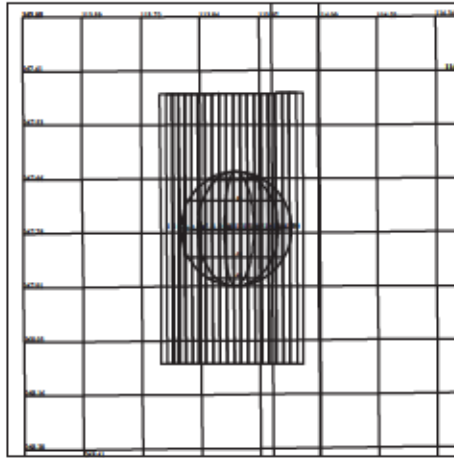


**G2HNDARK\_04**  
**96-251/17:16:50**

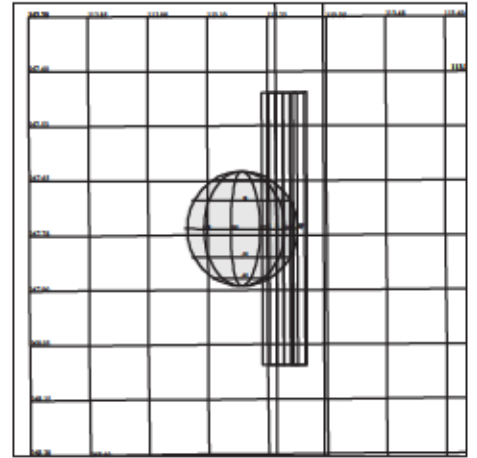
# G2 NIMS D



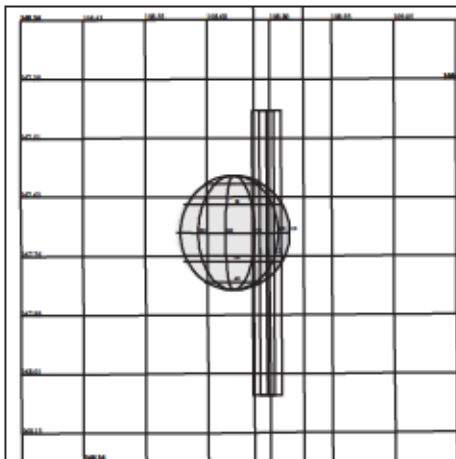
**G2ENEURORT01**  
**96-251/17:28:58**



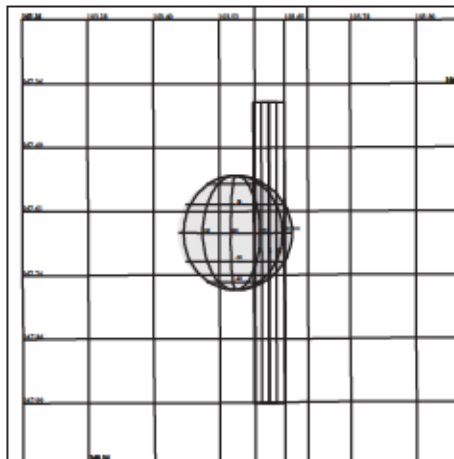
**G2INCHEMIS05**  
**96-251/21:20:59**



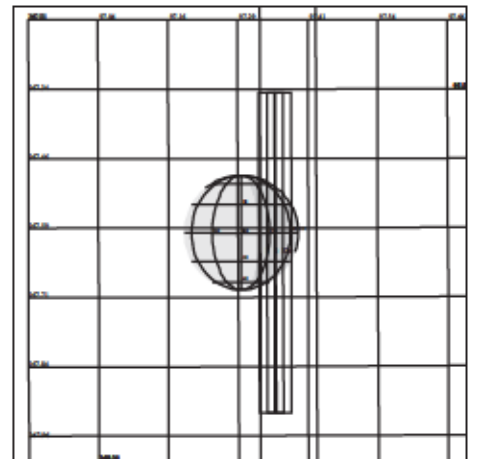
**G2INTHRMAL01**  
**96-251/21:27:59**



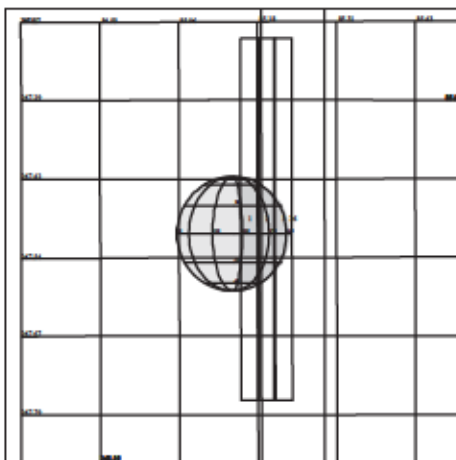
**G2INVOLCAN01**  
**96-251/22:20:10**



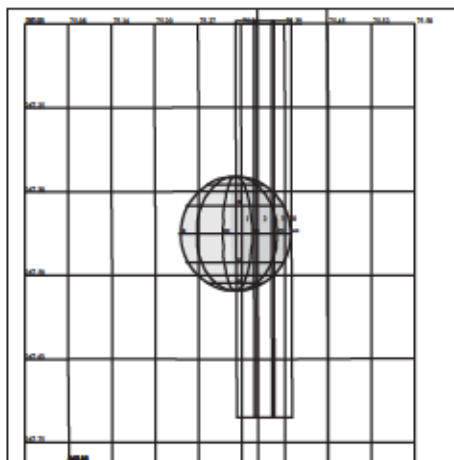
**G2INVOLCAN02**  
**96-251/23:20:50**



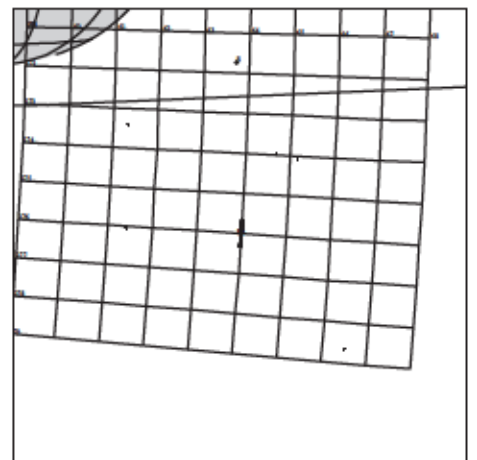
**G2INVOLCAN03**  
**96-252/00:35:39**



**G2INVOLCAN04**  
**96-252/03:06:19**

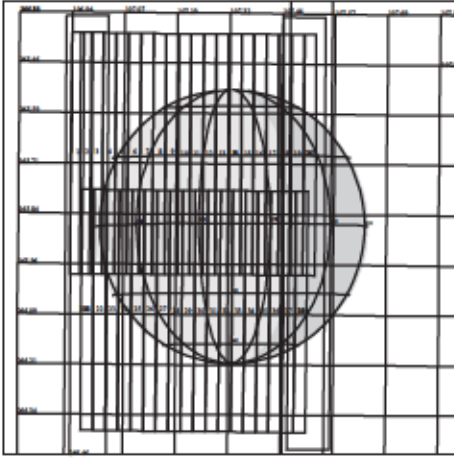


**G2INVOLCAN05**  
**96-252/05:14:43**

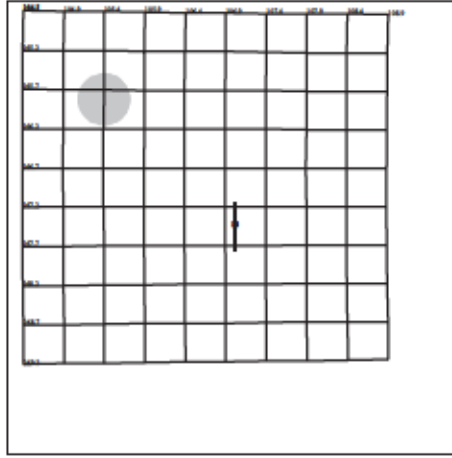


**G2HNDARK\_\_05**  
**96-252/05:20:47**

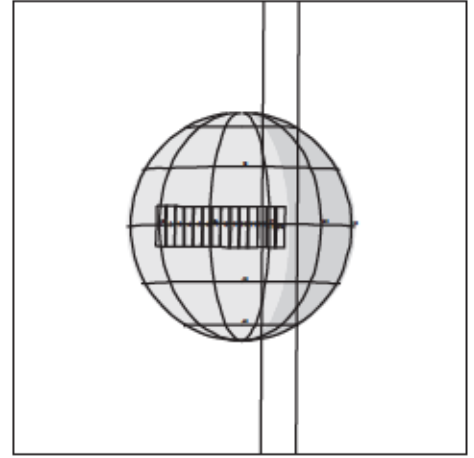
# G2 NIMS E



**G2CNGLOBAL01**  
**96-253/10:25:58**



**G2HNDARK\_\_06**  
**96-253/10:49:13**



**G2CNCALLRT01**  
**96-253/10:59:20**

## Chapter 3 - Orbit Geometries

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### Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the G2 Orbit.

The figure on page 3 is a North Trajectory Pole View of the G2 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the G2 Orbit from +/- 5 days of Ganymede closest approach.

The figure on page 5 is a North Trajectory Pole View of the G2 Orbit from +/- 1 day of Ganymede closest approach.

The figure on page 6 shows the spacecraft's groundtrack on Ganymede at Ganymede closest approach.

The figure on page 7 shows the spacecraft's groundtrack on Jupiter at Jupiter closest approach.

The figure on page 8 is a North Trajectory Pole View of the G2 Orbit from +/- 1 hour of Ganymede closest approach.

The figure on page 9 shows spacecraft altitude with respect to Ganymede (km).

The figure on page 10 shows the cone angle of Ganymede (Earth - S/C - Ganymede, deg).

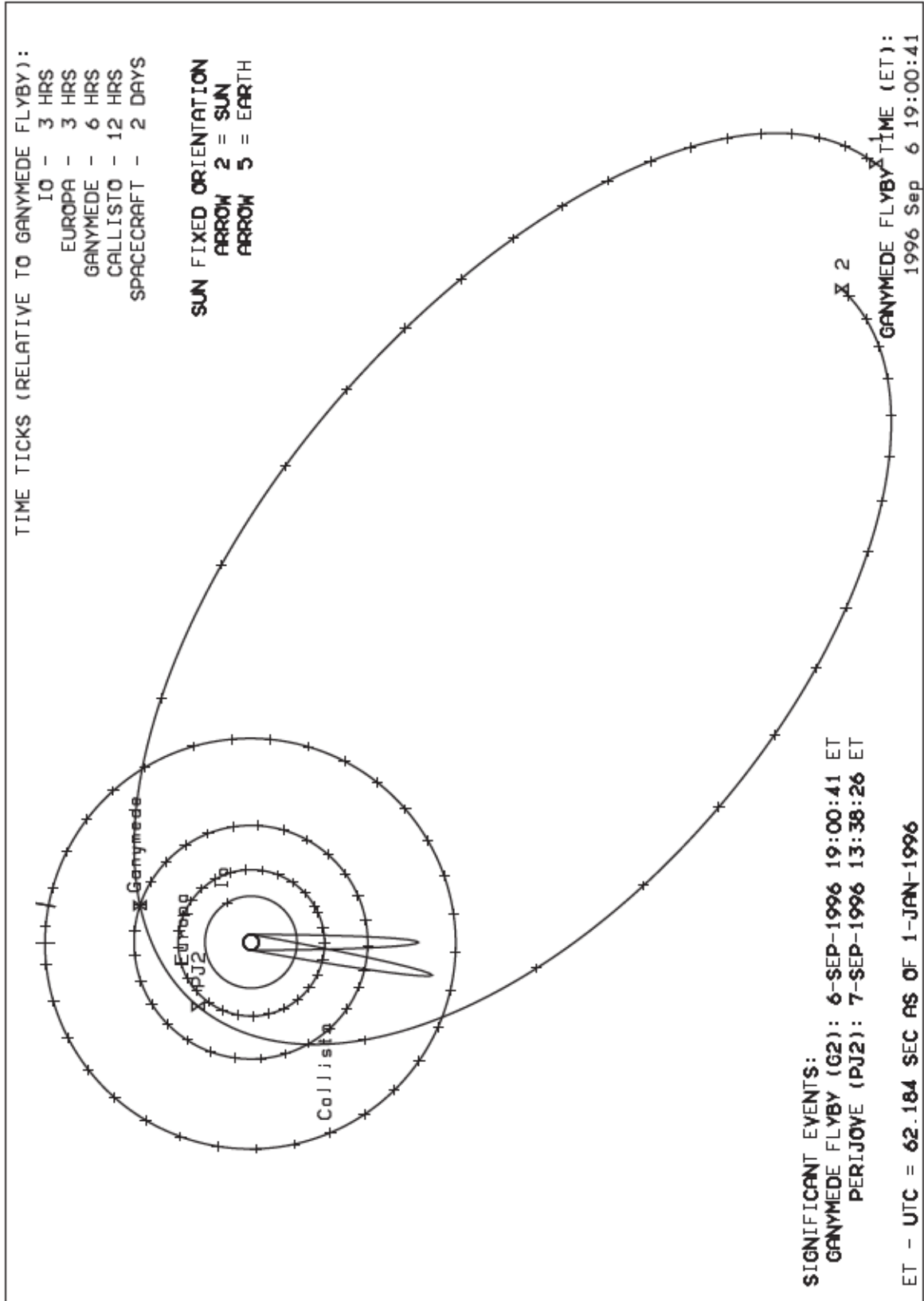
The figure on page 11 shows the Sun-Ganymede-S/C Angle (deg).

The figure on page 12 shows spacecraft range to Jupiter's center of mass ( $R_j$ ).

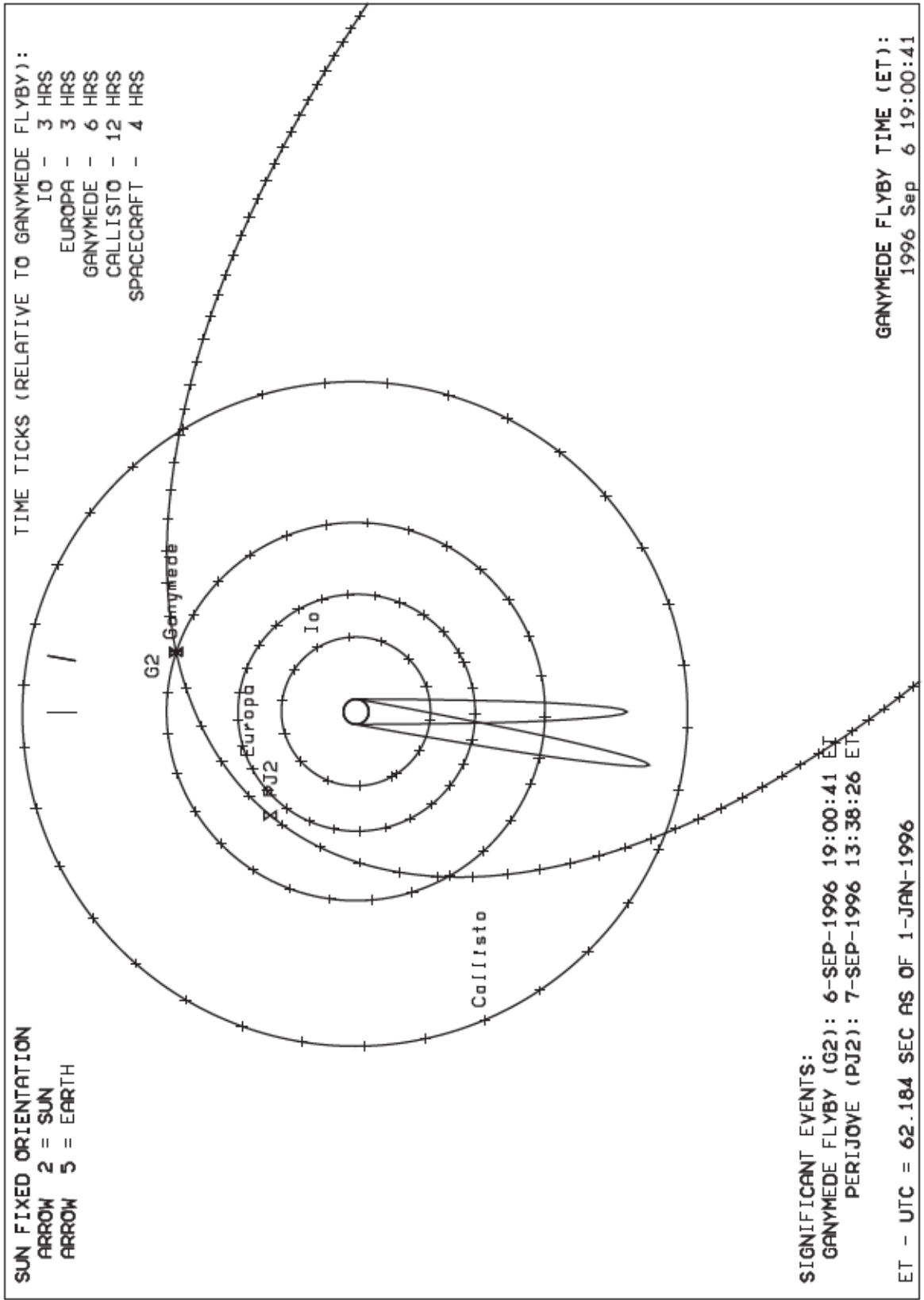
The figure on page 13 shows the cone angle of Jupiter (Earth - S/C - Jupiter, deg).

The figure on page 14 shows the Sun-Jupiter-S/C Angle (deg).

# Jupiter 2: North Trajectory Pole View (G2 Apo to Apo)

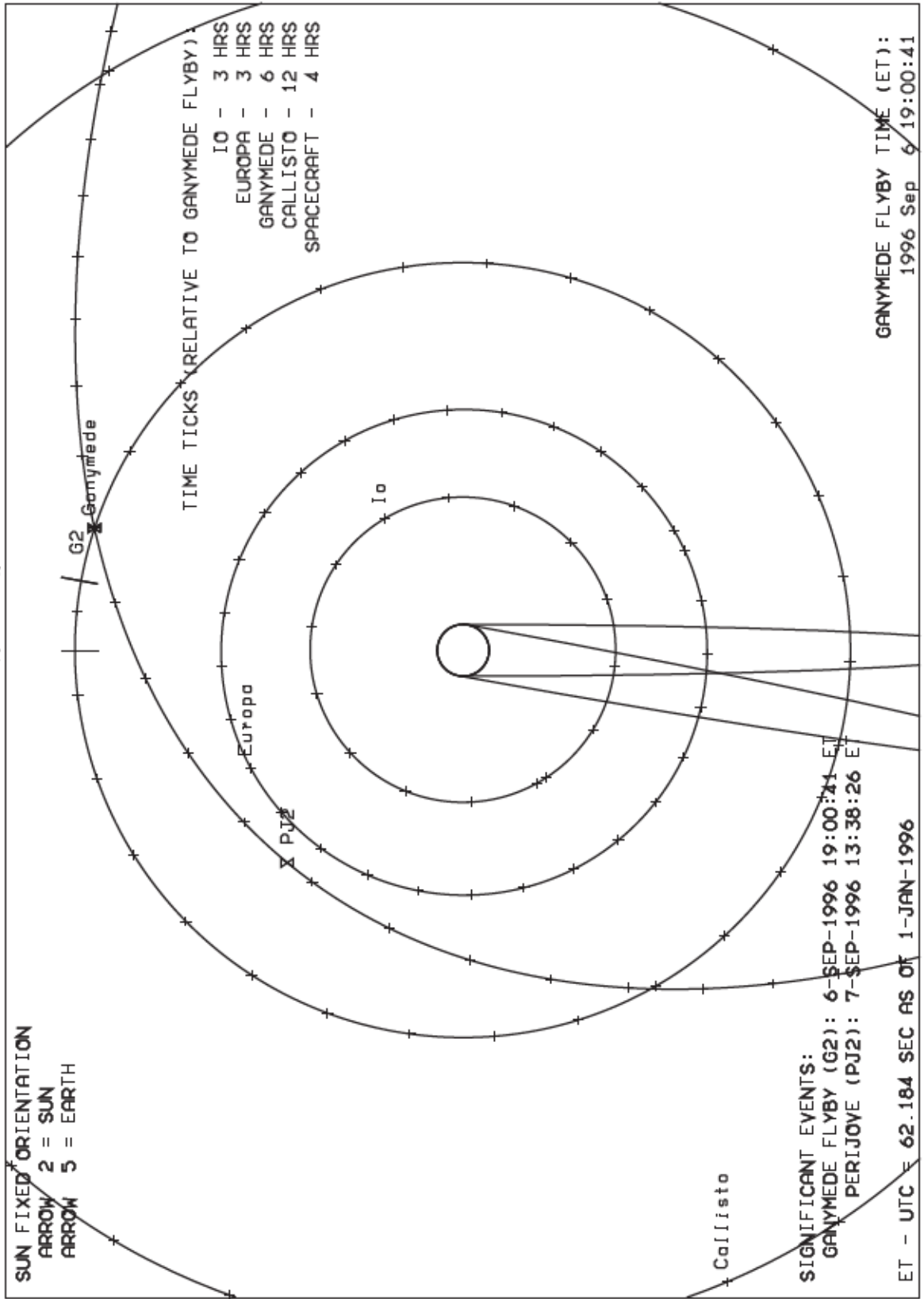


# Jupiter 2: North Trajectory Pole View (G2 +/- 5 days)





# Jupiter 2: North Trajectory Pole View (G2 +/- 1 day)



# GANYMEDE 2: GROUNDTRACK AT CLOSEST APPROACH

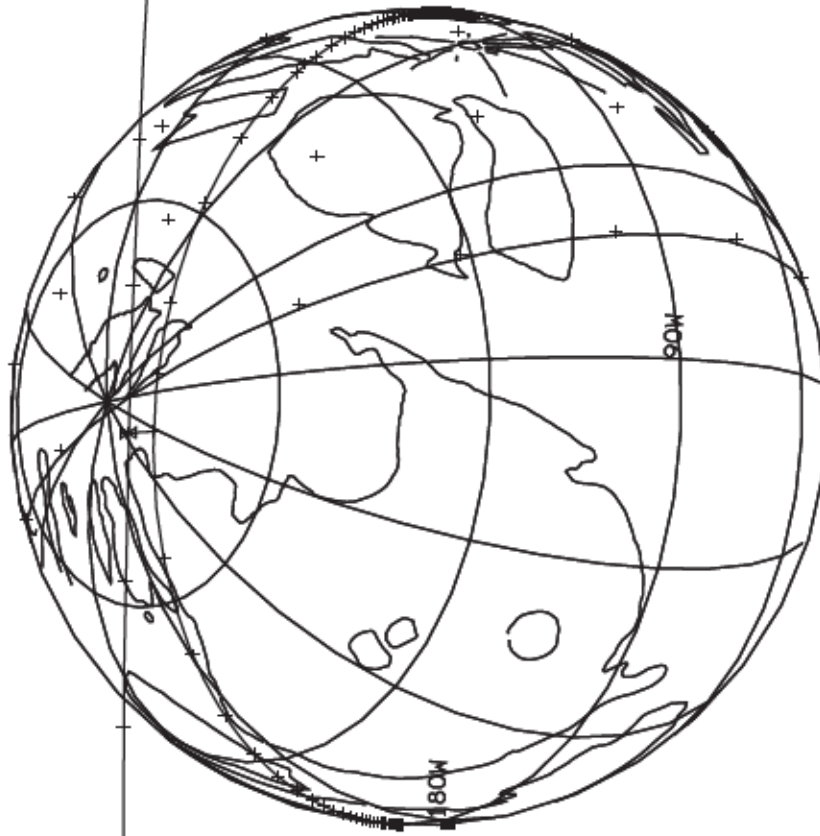
SPACECRAFT TIME TICKS EVERY 2 MINUTES

ARROW 2 = SUN

ARROW 5 = EARTH

ARROW 13 = ECLIPTIC NORTH POLE

ARROW 16 = GANYMEDE NORTH POLE



5  
2

SIGNIFICANT EVENTS:

GANYMEDE FLYBY (G2): 6-SEP-1996 19:00:41 ET

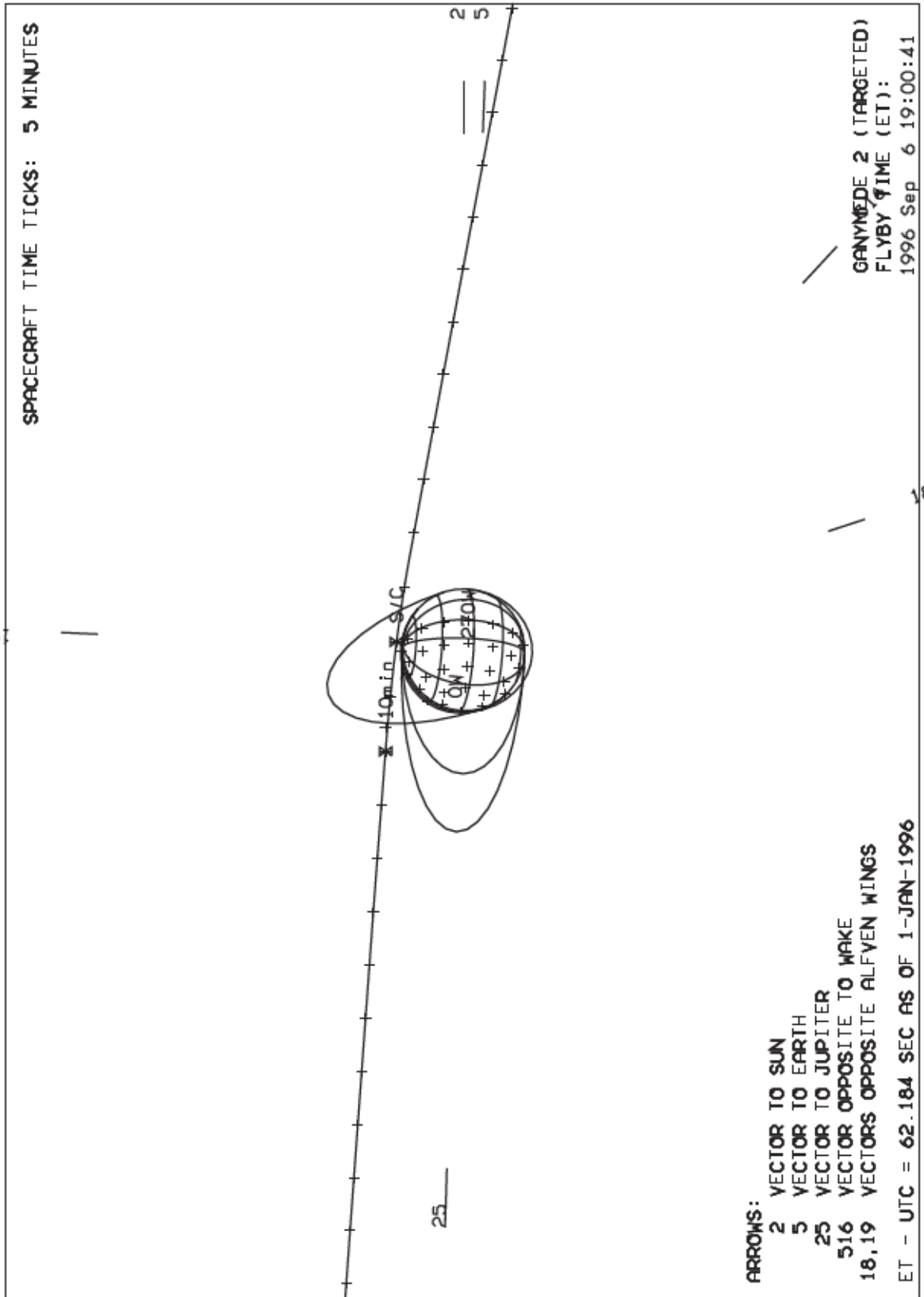
PERIJOVE (PJ2): 7-SEP-1996 13:38:26 ET

GANYMEDE FLYBY TIME (ET):  
1996 Sep 6 19:00:41

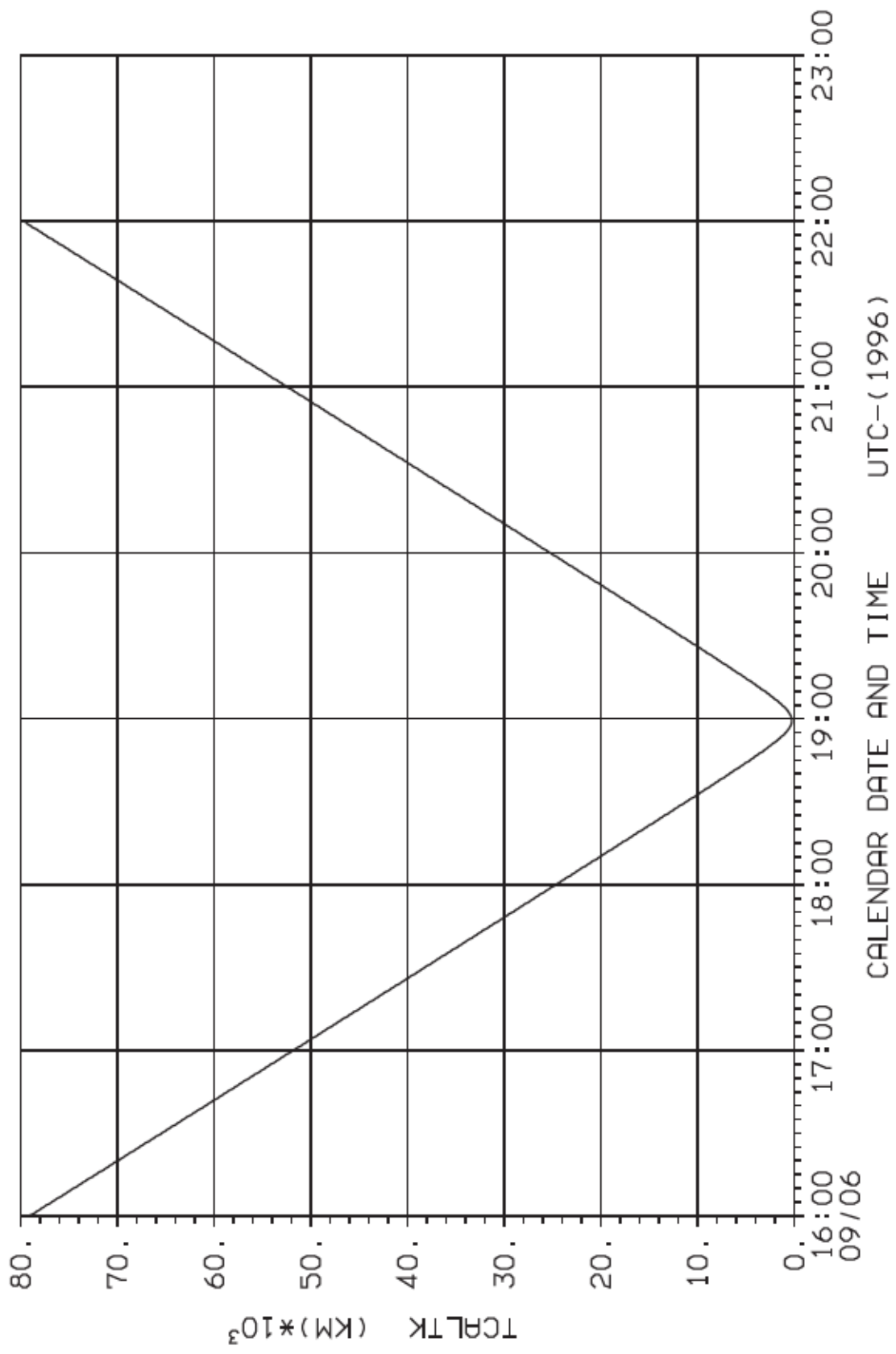
ET - UTC = 62.184 SEC AS OF 1-JAN-1996



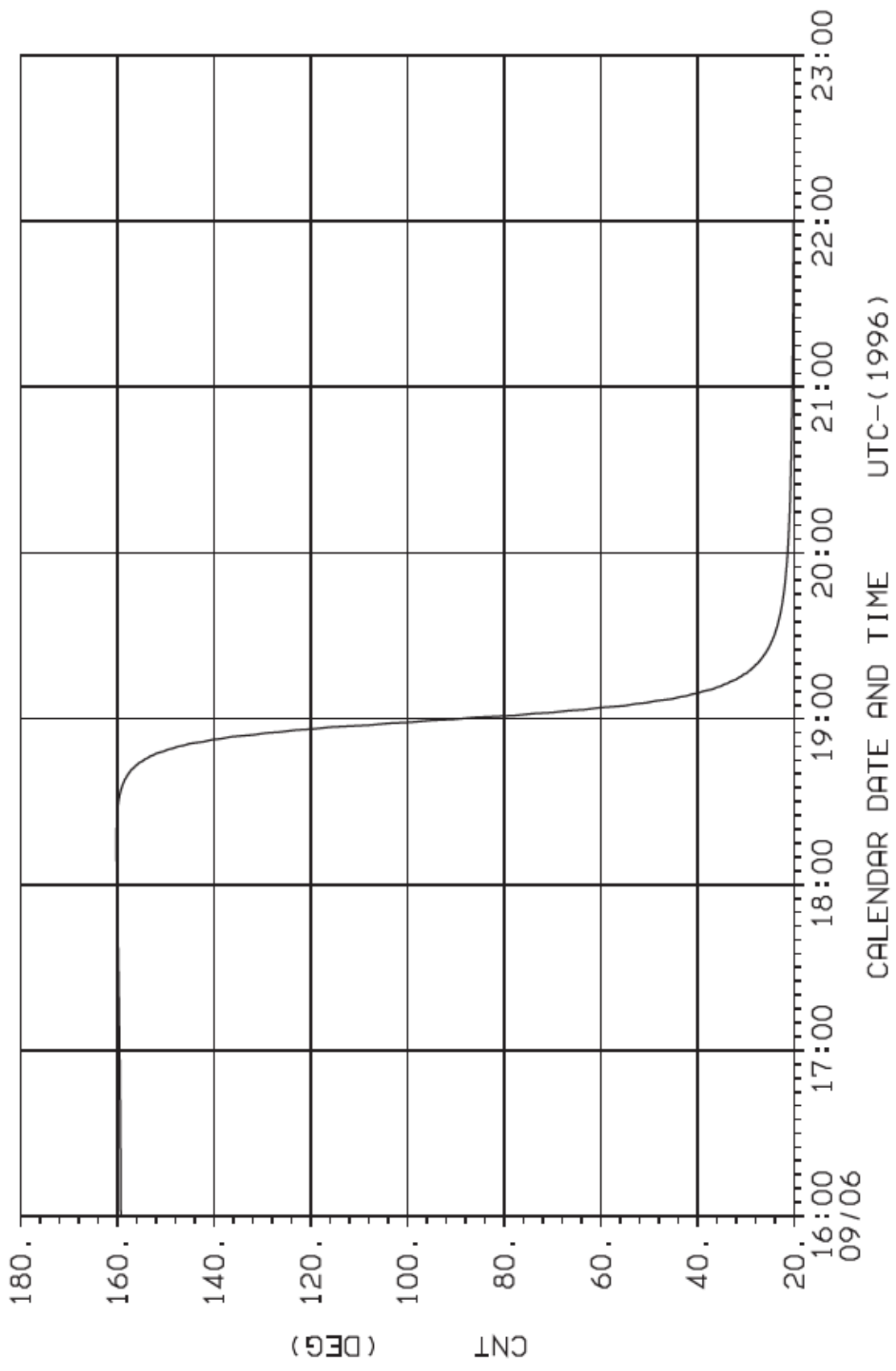
# GANYMEDE 2: CLOSEST APPROACH (NORTH TRAJECTORY POLE VIEW)



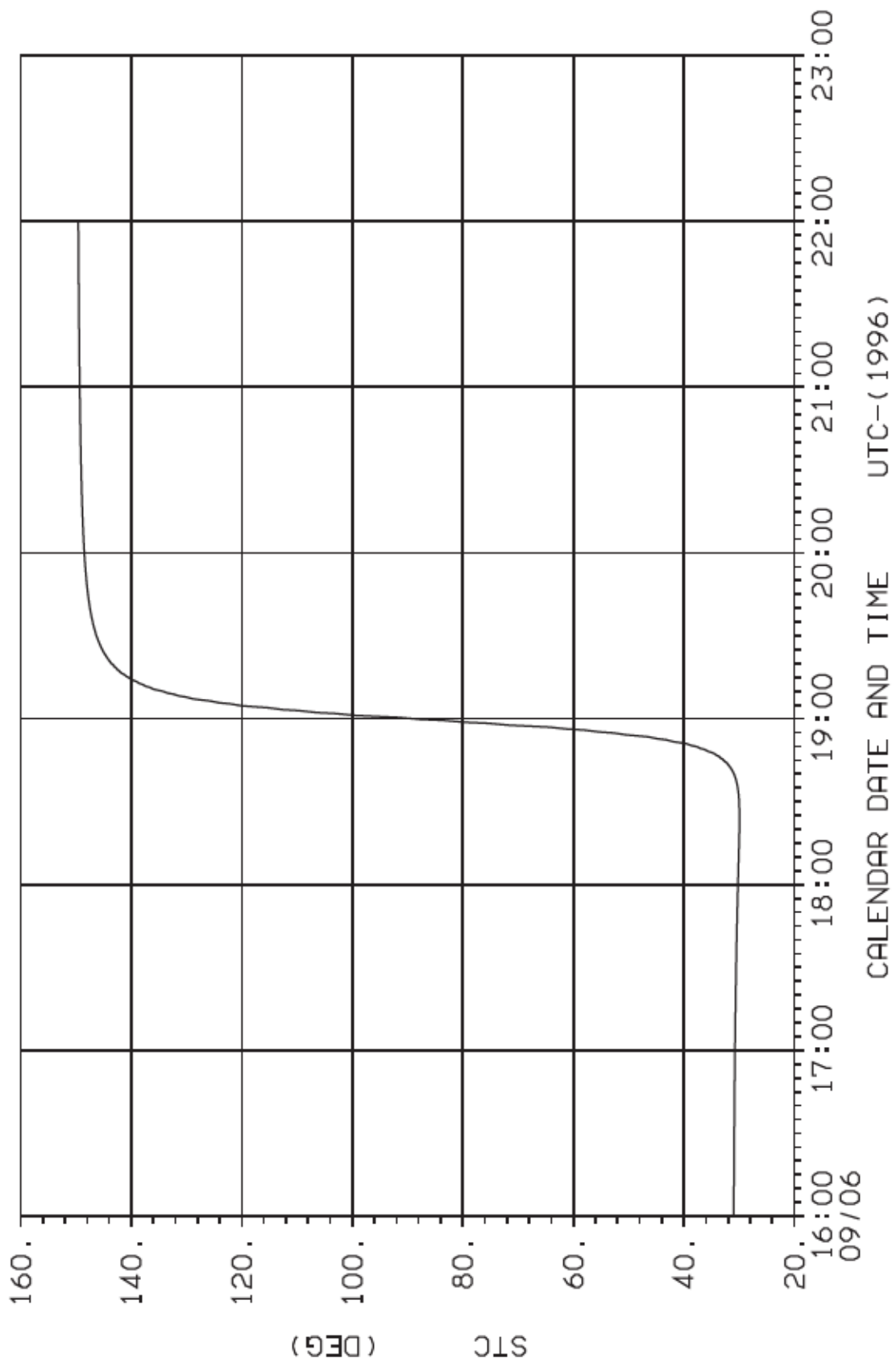
ORBIT 2: S/C ALTITUDE WITH RESPECT TO GANYMEDE (KM)



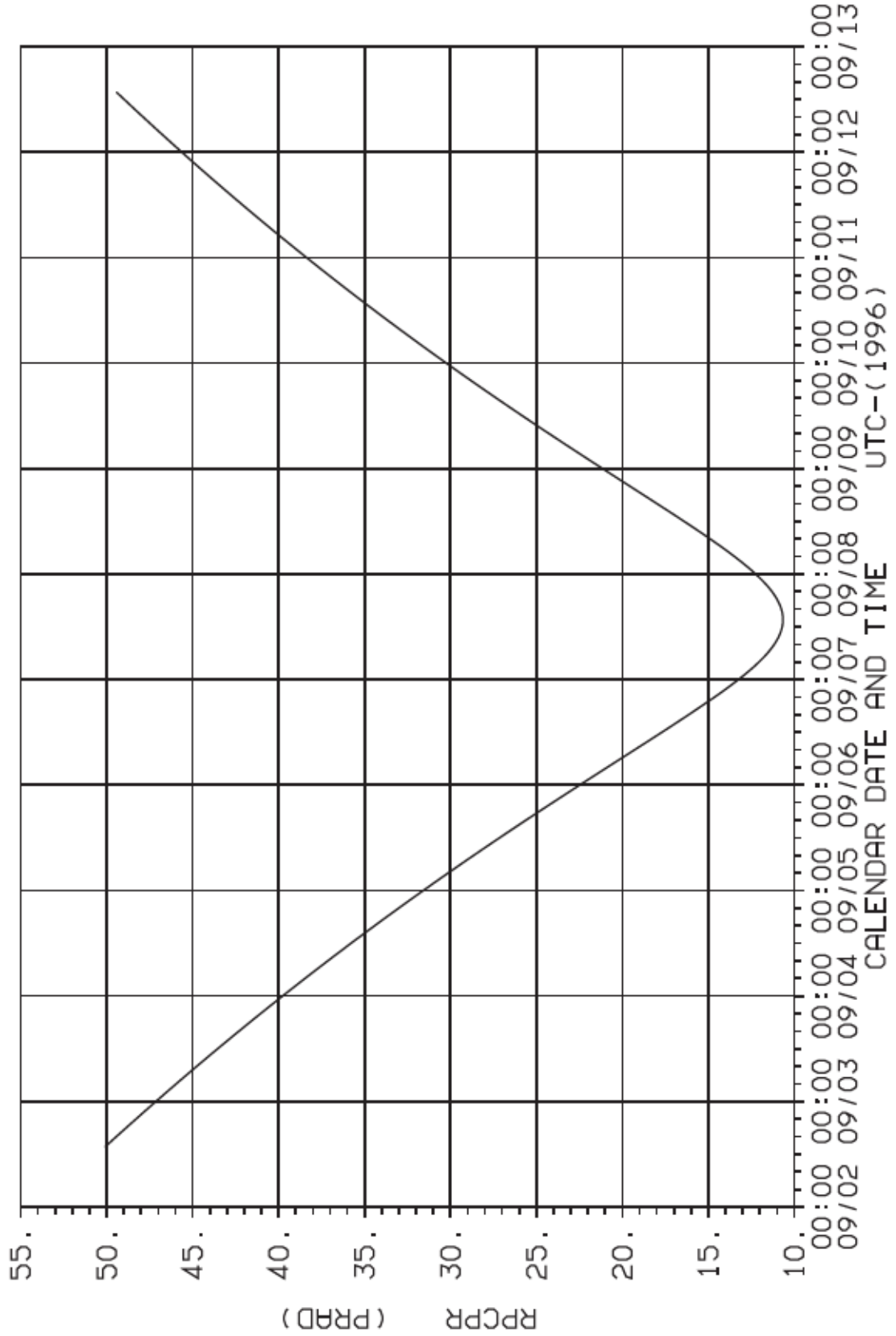
ORBIT 2: CONE ANGLE OF GANYMEDE (EARTH-S/C-GANYMEDE, DEG)



ORBIT 2: SUN-GANYMEDE-S/C ANGLE (DEG)

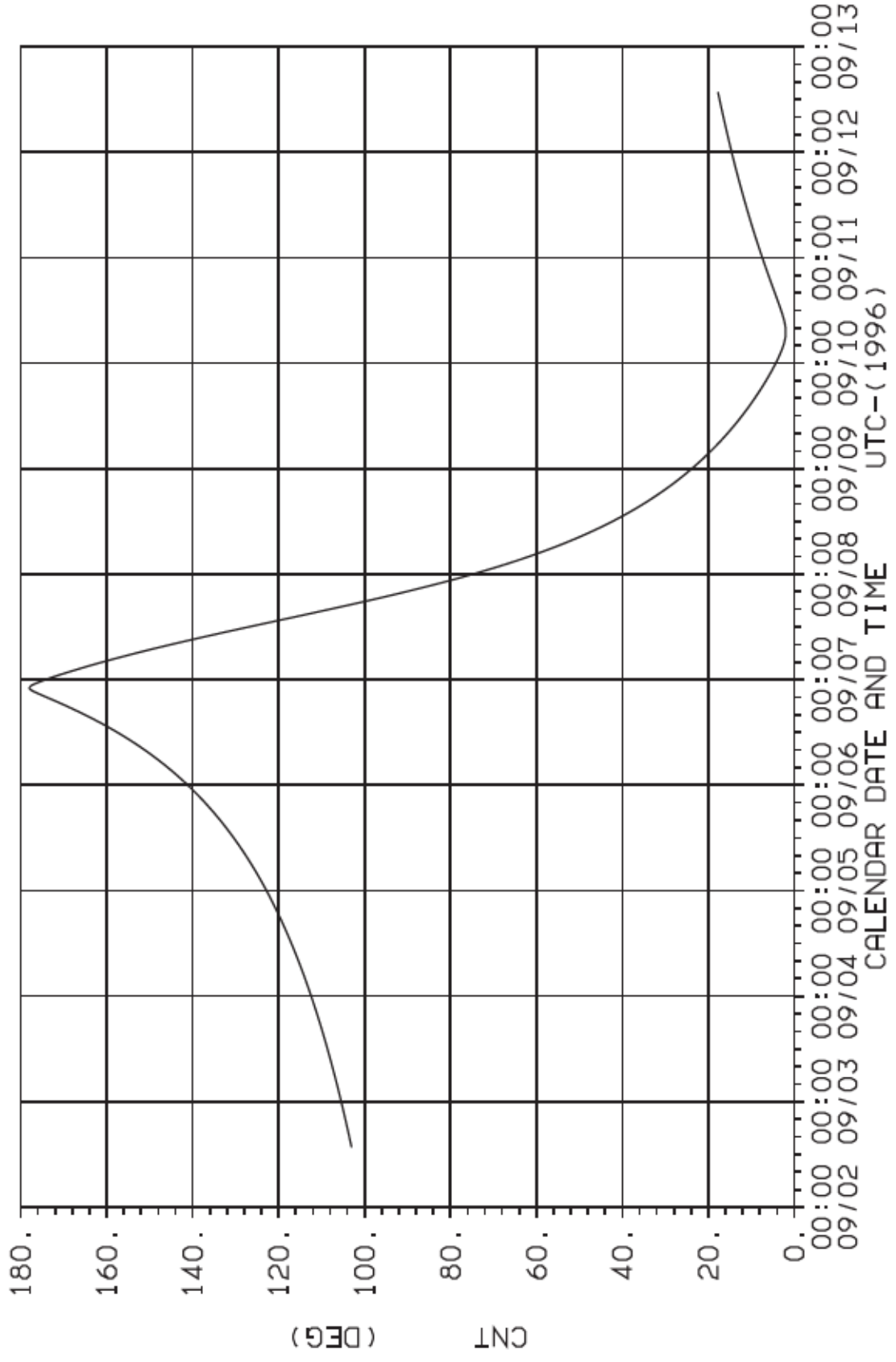


ORBIT 2 JUPITER: S/C RANGE TO JUPITER CENTER OF MASS (RJ)

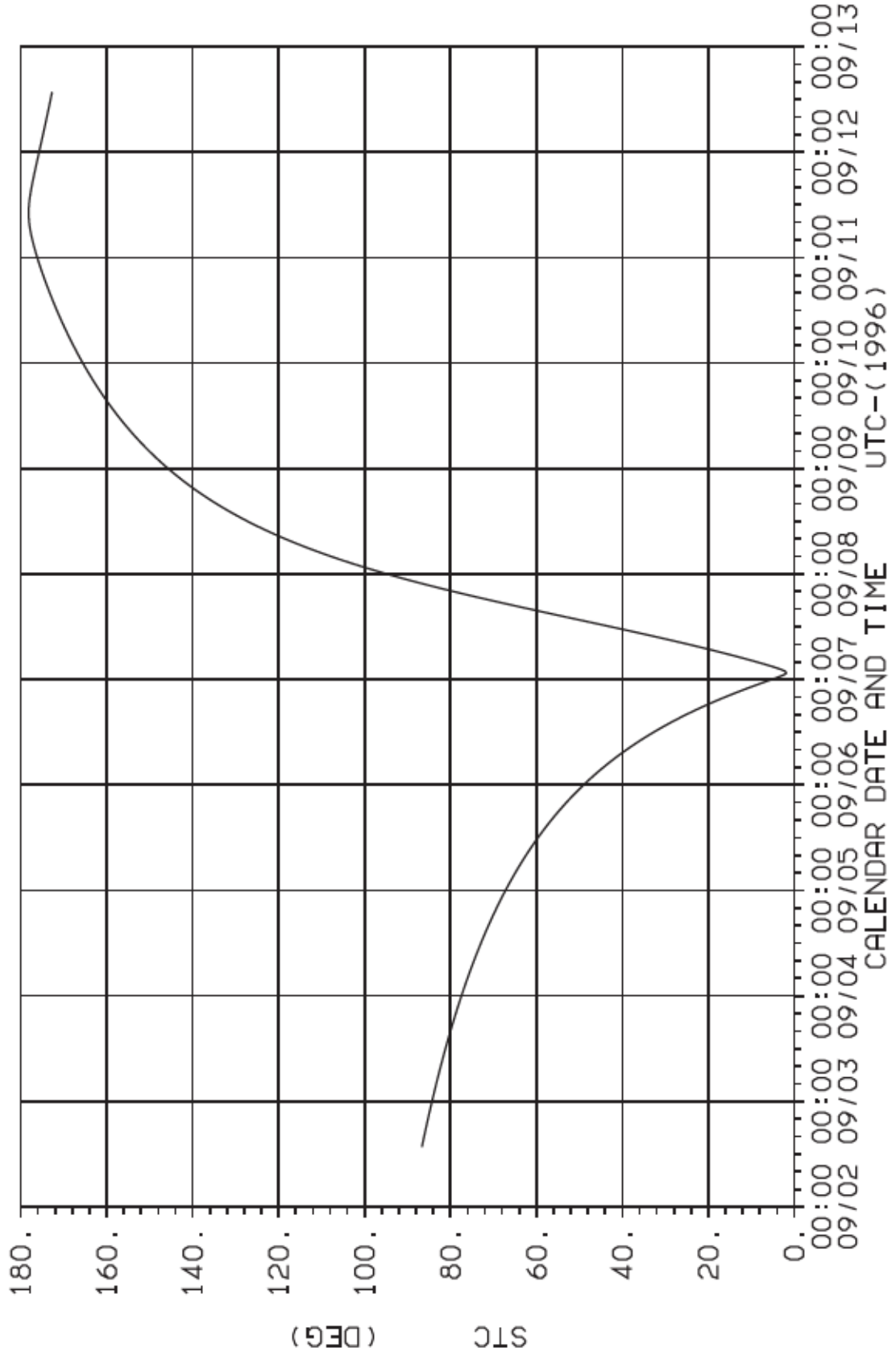




ORBIT 2 JUPITER: CONE ANGLE OF JUPITER (EARTH-S/C-JUP, DEG)



ORBIT 2 JUPITER: SUN-JUPITER-S/C ANGLE (DEG)



## Chapter 4 - NIMS Observation Summaries

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## Introduction to Chapter 4

This chapter summarizes the NIMS G2 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 G2 Sequence. The information in this summary is derived from the G2 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 (Opel) 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 observation parameters for use by downlink data processing of the NIMS G2 data. It is also derived from the G2 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Line	YR	DOY	SCET - GMT	Sequence:	G02A-AR	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	96	245	16:00:00.000			20A3EW	37A	Initial Condition	NIMS Power ON	2R0	4	0	3,592,170:00:6	
2	96	245	16:00:00.000			20A3EX	37HR	Initial Condition	Replacement Heaters OFF	2R0	4	0	3,592,170:00:6	
3	96	245	16:00:00.000			20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	2R0	4	0	3,592,170:00:6	
4	96	245	16:00:00.000			20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	2R0	4	0	3,592,170:00:6	
5	96	245	16:00:00.000			20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	2R0	4	0	3,592,170:00:6	
6	96	245	16:00:00.000			20A3FB	37F2P	Initial Condition	Shield Flash Heater ON (primary relay)	2R0	4	0	3,592,170:00:6	
7	96	245	16:00:00.000			20A3FD	40HRPR	Initial Condition	RCT Heater OFF (primary relay)	2R0	4	0	3,592,170:00:6	
8	96	245	16:00:00.000			20A3FE	40T1PR	Initial Condition	PCT Heater 1 OFF (primary relay)	2R0	4	0	3,592,170:00:6	
9	96	245	16:00:00.000			20A3FF	40T2R	Initial Condition	PCT Heater 2 OFF	2R0	4	0	3,592,170:00:6	
10	96	245	16:00:00.266				DMS:	: READY	RDY, TRACK 3, FWD, TIC 201.31 +/-	2R0	4	0	3,592,170:01:0	
11	96	245	16:01:59.600			165BA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,592,171:89:0	
12	96	245	16:01:59.600			432JA6B	6RTDS2	NIMDSL, AACNCG, RT	NIMS R/T DESELECT	2R0	4	0	3,592,171:89:0	
13	96	245	16:02:00.266			432JA431A6A	6RCDL	DDDSL, PLSDSL, EP	Record Deselect (DDS o	2R0	4	0	3,592,171:90:0	
14	96	245	16:02:00.266			165BA4B	7SCAN	NORM, 188.65, 0.10	Check S/P Position	2R0	4	0	3,592,171:90:0	
15	96	245	16:02:00.933			432JA6D	6RTSL2	NIMNCG, AACSEL, RT	AACS SELECT	2R0	4	0	3,592,172:00:0	
16	96	245	16:02:00.933			432JA6C	6RTSL1		R/T Select of DDS and	2R0	4	0	3,592,172:00:0	
17	96	245	16:02:08.266			488A6A	6TMSED	NORM, AL3	Sci, Eng, and D/L Chan	2R0	4	0	3,592,172:11:0	
18	96	245	16:03:00.266			432SA6A	6RTSL2	NIMNCG, AACNCG, RT	R/T ENG SELECT	2R0	4	0	3,592,172:89:0	
19	96	245	16:03:00.266			488A6B	6TMSED	NORM, DL3	Sci, Eng, and D/L Chan	2R0	4	0	3,592,172:89:0	
20	96	245	16:05:00.266			418S46B	6BUFIH		10 MUB Buffer high water	2R0	4	0	3,592,174:87:0	
21	96	245	16:05:00.266			418S46A	6BUFLO		2 MUB Buffer low water m	2R0	4	0	3,592,174:87:0	
22	96	245	16:34:08.266			488A6C	6TMSED	NORM, DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,592,203:70:0	
23	96	245	16:51:00.266			20DE3A	37F2PR		1 Shield Flash Heater OFF (primary relay)	2R0	4	0	3,592,220:41:0	
24	96	245	16:52:00.266			20DE3B	37F2PR		2 Shield Flash Heater OFF (primary relay)	2R0	4	0	3,592,221:40:0	
25	96	245	16:52:06.266			20DE3C	40T1P		1 PCT Heater 1 ON (primary relay)	2R0	4	0	3,592,221:49:0	
26	96	245	16:52:10.266			20DE3D	40T1P		2 PCT Heater 1 ON (primary relay)	2R0	4	0	3,592,221:55:0	
27	96	245	16:52:16.266			20DE3E	40T2		1 PCT Heater 2 ON	2R0	4	0	3,592,221:64:0	
28	96	245	16:52:20.266			20DE3F	40T2		2 PCT Heater 2 ON	2R0	4	0	3,592,221:70:0	
29	96	245	16:59:38.933			465KF6A	6DMST		1300 DMS Slew to TIC	2R0	4	0	3,592,229:00:0	
30	96	245	16:59:38.933				DMS:	: SLEW-TIC	P7, TRACK 1, FWD, TIC 201.31 +/-	2R0	4	0	3,592,229:00:0	
31	96	245	19:15:12.266			41TA99A	POWER		Change to Calib/Decon Mode	2R0	4	0	3,592,363:06:0	
32	96	245	19:15:16.266			41TA3G	37F2PR		1 Shield Flash Heater OFF (primary relay)	2R0	4	0	3,592,363:12:0	
33	96	245	19:15:26.266			41TA3H	37F2PR		2 Shield Flash Heater OFF (primary relay)	2R0	4	0	3,592,363:27:0	
34	96	245	19:15:36.266			41TA3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	2R0	4	0	3,592,363:42:0	
35	96	245	19:15:46.266			41TA3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	2R0	4	0	3,592,363:57:0	
36	96	245	19:15:56.266			41TA3K	40T2R		1 PCT Heater 2 OFF	2R0	4	0	3,592,363:72:0	
37	96	245	19:16:06.266			41TA3L	40T2R		2 PCT Heater 2 OFF	2R0	4	0	3,592,363:87:0	
38	96	245	19:26:59.600			175KA422A6A	6DMSC	R28,1	DMS Control	2R0	4	0	3,592,374:66:0	
39	96	245	19:27:07.666				DMS:	: RUNUP	R28, TRACK 1, FWD, TIC *1301.39 +/-	2R0	4	0	3,592,374:78:1	
40	96	245	19:27:11.600			175KA176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R0	4	0	3,592,374:84:0	
41	96	245	19:27:11.666				DMS:	: RECORD	R28, TRACK 1, FWD, TIC *1302.89 +/-	2R0	4	0	3,592,374:84:1	
42	96	245	19:27:11.666				DMS:	: AT_SPD	R28, TRACK 1, FWD, TIC 1302.89 +/-	2R0	4	0	3,592,374:84:1	
43	96	245	19:27:12.933				DMS:	: RUNDOWN	R28, TRACK 1, FWD, TIC *1304.01 +/-	2R0	4	0	3,592,374:86:0	
44	96	245	19:27:12.933			175ZQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	3,592,374:86:0	
45	96	245	19:27:14.333				DMS:	: RUNUP	R7, TRACK 1, FWD, TIC *1304.23 +/-	2R0	4	0	3,592,374:88:1	
46	96	245	19:27:15.600			175ZQ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R0	4	0	3,592,374:90:0	
47	96	245	19:27:15.800				DMS:	: RECORD	R7, TRACK 1, FWD, TIC *1304.34 +/-	2R0	4	0	3,592,374:90:3	
48	96	245	19:27:15.800				DMS:	: AT_SPD	R7, TRACK 1, FWD, TIC 1304.34 +/-	2R0	4	0	3,592,374:90:3	
49	96	245	19:32:22.933			175ZQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,592,380:05:0	
50	96	245	19:32:22.933				DMS:	: RUNDOWN	R7, TRACK 1, FWD, TIC *1376.33 +/-	2R0	4	0	3,592,380:05:0	
51	96	245	19:35:25.600			41WA99A	POWER		Change to Data Taking Mode	2R0	4	0	3,592,383:06:0	
52	96	245	19:35:29.600			41WA3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	2R0	4	0	3,592,383:12:0	
53	96	245	19:35:39.600			41WA3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	2R0	4	0	3,592,383:27:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
54	96	245	19:35:49.600	41WA3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	2R0	4	0	3,592,383:42:0	
55	96	245	19:35:59.600	41WA3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	2R0	4	0	3,592,383:57:0	
56	96	245	19:36:09.600	41WA3C	40T2R		1 PCT Heater 2 OFF	2R0	4	0	3,592,383:72:0	
57	96	245	19:36:19.600	41WA3D	40T2R		2 PCT Heater 2 OFF	2R0	4	0	3,592,383:87:0	
58	96	245	20:40:20.266	444UA443A4B	7MODE	INT	AACS INERTIAL MODE	2R0	4	0	3,592,447:24:0	
59	96	245	21:34:40.200	176KA6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	2R0	4	0	3,592,501:00:0	
60	96	245	21:39:42.200	165KA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,592,505:89:0	
61	96	245	21:39:42.866	165KA4B	7SCAN	NORM,200.556,-4	Check S/P Position	2R0	4	0	3,592,505:90:0	
62	96	245	22:34:18.200	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R0	4	0	3,592,559:89:0	
63	96	245	22:37:28.200	20YC6A	6HICON			2R0	4	0	3,592,563:10:0	
64	96	245	22:38:22.200	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R0	4	0	3,592,564:00:0	
65	96	245	22:41:04.866	488B6A	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R0	4	0	3,592,566:62:0	
66	96	245	22:43:00.200	200A6A	6HICON			2R0	4	0	3,592,568:53:0	
67	96	245	22:48:00.200	432OA6A	6RTSL1		R/T Select of DDS and	2R0	4	0	3,592,573:48:0	
68	96	245	22:56:32.866	165KB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,592,573:48:0	
69	96	245	22:56:33.533	165KB4B	7SCAN	NORM,200.044998,	Check S/P Position	2R0	4	0	3,592,581:89:0	
70	96	245	23:13:04.866	488B6B	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R0	4	0	3,592,598:30:0	
71	96	245	23:31:56.200	165KC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,592,616:89:0	
72	96	245	23:31:56.866	165KC4B	7SCAN	NORM,198.889,-6	Check S/P Position	2R0	4	0	3,592,616:90:0	
73	96	245	23:45:04.866	488B6C	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,592,629:89:0	
74	96	246	00:12:22.866	165BB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,592,656:89:0	
75	96	246	00:12:23.533	165BB4B	7SCAN	NORM,192.469,-2	Check S/P Position	2R0	4	0	3,592,656:90:0	
76	96	246	00:19:32.200	175NA422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R0	4	0	3,592,664:05:0	
77	96	246	00:19:40.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *1377.78 +/-	2R0	4	0	3,592,664:17:1	
78	96	246	00:19:44.200	175NA176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,592,664:23:0	
79	96	246	00:19:44.266		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *1384.05 +/-	2R0	4	0	3,592,664:23:1	
80	96	246	00:19:44.266		DMS:	: *AT SPD	R115, TRACK 1, FWD, TIC 1384.05 +/-	2R0	4	0	3,592,664:23:1	
81	96	246	00:20:09.533	488B6D	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,592,664:61:0	
82	96	246	00:20:14.866	175NA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,592,664:69:0	
83	96	246	00:20:14.866		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *1491.63 +/-	2R0	4	0	3,592,664:69:0	
84	96	246	00:49:38.866	175NB422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R0	4	0	3,592,693:76:0	
85	96	246	00:49:46.933		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *1493.94 +/-	2R0	4	0	3,592,693:88:1	
86	96	246	00:49:50.866	175NB176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,592,694:03:0	
87	96	246	00:49:50.933		DMS:	: *AT SPD	R115, TRACK 1, FWD, TIC 1500.21 +/-	2R0	4	0	3,592,694:03:1	
88	96	246	00:49:50.933		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *1500.21 +/-	2R0	4	0	3,592,694:03:1	
89	96	246	00:50:07.533	488B6E	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,592,694:28:0	
90	96	246	00:50:21.533	175NB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,592,694:49:0	
91	96	246	00:50:21.533		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *1607.79 +/-	2R0	4	0	3,592,694:49:0	
92	96	246	03:30:00.200	488C6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R0	4	0	3,592,852:39:0	
93	96	246	03:56:48.866	488C6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R0	4	0	3,592,878:86:0	
94	96	246	05:02:56.866	488C6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R0	4	0	3,592,944:32:0	
95	96	246	07:54:19.533	488C6D	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	2R0	4	0	3,593,113:77:0	
96	96	246	08:07:58.866	488C6E	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R0	4	0	3,593,127:32:0	
97	96	246	08:59:22.200	175NC422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R0	4	0	3,593,178:16:0	
98	96	246	08:59:30.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *1610.10 +/-	2R0	4	0	3,593,178:28:1	
99	96	246	08:59:34.200	175NC176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,593,178:34:0	
100	96	246	08:59:34.266		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *1616.37 +/-	2R0	4	0	3,593,178:34:1	
101	96	246	08:59:34.266		DMS:	: *AT SPD	R115, TRACK 1, FWD, TIC 1616.37 +/-	2R0	4	0	3,593,178:34:1	
102	96	246	09:00:04.866	175NC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,593,178:80:0	
103	96	246	09:00:04.866	20KA4A	7SAFE	UNSTOW	SIP TO 153 deg cone	2R0	4	0	3,593,178:80:0	
104	96	246	09:00:04.866		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *1723.94 +/-	2R0	4	0	3,593,178:80:0	
105	96	246	09:29:22.200	175ND422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R0	4	0	3,593,207:77:0	
106	96	246	09:29:30.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *1726.25 +/-	2R0	4	0	3,593,207:89:1	
107	96	246	09:29:34.200	175ND176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,593,208:04:0	
108	96	246	09:29:34.266		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *1732.52 +/-	2R0	4	0	3,593,208:04:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
109	96	246	09:29:34.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1732.52 +/-	2R0	4	0	3,593,208:04:1	
110	96	246	09:30:04.866		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *1840.10 +/-	2R0	4	0	3,593,208:50:0	
111	96	246	09:30:04.866	175ND422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,593,208:50:0	
112	96	246	09:35:35.533	176K6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	2R0	4	0	3,593,214:00:0	
113	96	246	09:40:37.533	165KD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,593,218:89:0	
114	96	246	09:40:38.200	165KD4B	7SCAN	NORM,204.7099999,	Check S/P Position	2R0	4	0	3,593,218:90:0	
115	96	246	09:45:00.200	488D6A	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	2R0	4	0	3,593,223:28:0	
116	96	246	10:20:03.533	165BC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,593,257:89:0	
117	96	246	10:20:04.200	165BC4B	7SCAN	NORM,194.0059999,	Check S/P Position	2R0	4	0	3,593,257:90:0	
118	96	246	10:29:46.200	175NE422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2Kb	2R0	4	0	3,593,267:53:0	
119	96	246	10:29:54.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *1842.41 +/-	2R0	4	0	3,593,267:65:1	
120	96	246	10:29:58.200	175NE176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,593,267:71:0	
121	96	246	10:29:58.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1848.68 +/-	2R0	4	0	3,593,267:71:1	
122	96	246	10:29:58.266		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *1848.68 +/-	2R0	4	0	3,593,267:71:1	
123	96	246	10:30:28.866	175NE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,593,268:26:0	
124	96	246	10:30:28.866		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *1956.26 +/-	2R0	4	0	3,593,268:26:0	
125	96	246	10:59:42.866	175NF422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2Kb	2R0	4	0	3,593,297:18:0	
126	96	246	10:59:50.933		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *1958.57 +/-	2R0	4	0	3,593,297:30:1	
127	96	246	10:59:54.866	175NF176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,593,297:36:0	
128	96	246	10:59:54.933		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *1964.84 +/-	2R0	4	0	3,593,297:36:1	
129	96	246	10:59:54.933		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1964.84 +/-	2R0	4	0	3,593,297:36:1	
130	96	246	11:00:25.533		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *2072.41 +/-	2R0	4	0	3,593,297:82:0	
131	96	246	11:00:25.533	175NF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,593,297:82:0	
132	96	246	13:24:16.200	488D6B	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R0	4	0	3,593,440:15:0	
133	96	246	14:45:00.200	488D6C	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	2R0	4	0	3,593,520:01:0	
134	96	246	14:45:00.200	488D6D	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,593,520:31:0	
135	96	246	15:12:14.200	488D6E	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,593,546:86:0	
136	96	246	15:19:28.200	488E6A	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R0	4	0	3,593,554:09:0	
137	96	246	15:47:07.533	488E6B	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R0	4	0	3,593,581:41:0	
138	96	246	16:23:28.200	488E6C	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,593,617:36:0	
139	96	246	19:09:41.533	175NG422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2Kb	2R0	4	0	3,593,781:72:0	
140	96	246	19:09:49.600		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *2074.72 +/-	2R0	4	0	3,593,781:84:1	
141	96	246	19:09:53.533	175NG176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,593,781:90:0	
142	96	246	19:09:53.600		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2080.99 +/-	2R0	4	0	3,593,781:90:1	
143	96	246	19:09:53.600		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *2080.99 +/-	2R0	4	0	3,593,781:90:1	
144	96	246	19:10:24.200		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *2188.57 +/-	2R0	4	0	3,593,782:45:0	
145	96	246	19:10:24.200	175NG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,593,782:45:0	
146	96	246	19:10:53.533	165A4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,593,782:89:0	
147	96	246	19:10:54.200	165A4B	7SCAN	NORM,202.3249999,	Check S/P Position	2R0	4	0	3,593,782:90:0	
148	96	246	19:14:26.866	432A6A	6RTSL1		R/T Select of DDS and	2R0	4	0	3,593,786:45:0	
149	96	246	19:29:22.200	175NH422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2Kb	2R0	4	0	3,593,801:23:0	
150	96	246	19:29:30.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *2190.88 +/-	2R0	4	0	3,593,801:35:1	
151	96	246	19:29:34.200	175NH176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,593,801:41:0	
152	96	246	19:29:34.266		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *2197.15 +/-	2R0	4	0	3,593,801:41:1	
153	96	246	19:29:34.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2197.15 +/-	2R0	4	0	3,593,801:41:1	
154	96	246	19:30:04.866		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *2304.73 +/-	2R0	4	0	3,593,801:87:0	
155	96	246	19:30:04.866	175NH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,593,801:87:0	
156	96	246	19:44:16.866	116A4A	7STRP	-0.002583,0.0002	Slew = 0.06	2R0	4	0	3,593,816:00:0	
157	96	246	19:49:12.200	175NI422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2Kb	2R0	4	0	3,593,820:79:0	
158	96	246	19:49:20.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *2307.04 +/-	2R0	4	0	3,593,821:00:1	
159	96	246	19:49:24.200	175NI176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,593,821:06:0	
160	96	246	19:49:24.266		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *2313.31 +/-	2R0	4	0	3,593,821:06:1	
161	96	246	19:49:24.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2313.31 +/-	2R0	4	0	3,593,821:06:1	
162	96	246	19:49:54.866	175NI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,593,821:52:0	
163	96	246	19:49:54.866		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *2420.88 +/-	2R0	4	0	3,593,821:52:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
164	96	246	20:10:12.866	175NJ422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R0	4	0	3,593,841:59:0	
165	96	246	20:10:20.933		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *2423.19 +/-	2R0	4	0	3,593,841:7:1:1	
166	96	246	20:10:24.866	175NJ176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,593,841:77:0	
167	96	246	20:10:24.933		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2429.46 +/-	2R0	4	0	3,593,841:77:1	
168	96	246	20:10:24.933		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *2429.46 +/-	2R0	4	0	3,593,841:77:1	
169	96	246	20:10:55.533		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *2537.04 +/-	2R0	4	0	3,593,842:32:0	
170	96	246	20:10:55.533	175NJ422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R0	4	0	3,593,842:32:0	
171	96	246	20:15:28.200	117AA	CSMOS	GS	**** GROUP START CSMOS	2R0	4	0	3,593,846:77:0	
172	96	246	20:15:37.533	117AA105A106A4A	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,847:00:0	
173	96	246	20:17:38.866	117AA105A106A4B	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,849:00:0	
174	96	246	20:19:40.200	117AA105A106A4C	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,851:00:0	
175	96	246	20:21:41.533	117AA105A106A4D	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,853:00:0	
176	96	246	20:23:42.866	117AA105A106A4E	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,855:00:0	
177	96	246	20:25:44.200	117AA105A106A4F	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,857:00:0	
178	96	246	20:27:45.533	117AA105A106A4G	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,859:00:0	
179	96	246	20:29:46.200	175NK422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R0	4	0	3,593,860:90:0	
180	96	246	20:29:46.866	117AA105A106A4H	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,861:00:0	
181	96	246	20:29:54.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *2539.35 +/-	2R0	4	0	3,593,861:1:1:1	
182	96	246	20:29:58.200	175NK176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,593,861:17:0	
183	96	246	20:29:58.266		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *2545.62 +/-	2R0	4	0	3,593,861:17:1	
184	96	246	20:29:58.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2545.62 +/-	2R0	4	0	3,593,861:17:1	
185	96	246	20:30:28.866		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *2653.20 +/-	2R0	4	0	3,593,861:63:0	
186	96	246	20:30:28.866	175NK422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R0	4	0	3,593,861:63:0	
187	96	246	20:31:48.200	117AA105A106A4I	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,863:00:0	
188	96	246	20:33:49.533	117AA105A106A4J	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,865:00:0	
189	96	246	20:35:50.866	117AA105A106A4K	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,867:00:0	
190	96	246	20:37:52.200	117AA105A106A4L	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,869:00:0	
191	96	246	20:39:53.533	117AA105A106A4M	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,871:00:0	
192	96	246	20:41:54.866	117AA105A106A4N	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,873:00:0	
193	96	246	20:43:56.200	117AA105A106A4O	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,875:00:0	
194	96	246	20:45:57.533	117AA105A106A4P	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,877:00:0	
195	96	246	20:47:58.866	117AA105A106A4Q	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,879:00:0	
196	96	246	20:50:00.200	117AA105A106A4R	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,881:00:0	
197	96	246	20:52:01.533	117AA105A106A4S	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,883:00:0	
198	96	246	20:54:02.866	117AA105A106A4T	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,885:00:0	
199	96	246	20:56:04.200	117AA105A106A4U	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,887:00:0	
200	96	246	20:58:05.533	117AA105A106A4V	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,889:00:0	
201	96	246	20:59:46.200	175NL422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R0	4	0	3,593,890:60:0	
202	96	246	20:59:54.266		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *2655.51 +/-	2R0	4	0	3,593,890:72:1	
203	96	246	20:59:58.200	175NL176A6A	6TMREC	HPW	115.2 KBPS PWS RECORD Record Mode Change	2R0	4	0	3,593,890:78:0	
204	96	246	20:59:58.266		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2661.78 +/-	2R0	4	0	3,593,890:78:1	
205	96	246	20:59:58.266		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *2661.78 +/-	2R0	4	0	3,593,890:78:1	
206	96	246	21:00:06.866	117AA105A106A4W	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,891:00:0	
207	96	246	21:00:28.866		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *2769.35 +/-	2R0	4	0	3,593,891:33:0	
208	96	246	21:02:08.200	175NL422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R0	4	0	3,593,891:33:0	
209	96	246	21:02:08.200	117AA105A106A4X	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,893:00:0	
210	96	246	21:04:09.533	117AA105A106A4Y	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,895:00:0	
211	96	246	21:06:10.866	117AA105A106A4Z	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,897:00:0	
212	96	246	21:08:12.200	117AA105A106A4A	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,899:00:0	
213	96	246	21:10:13.533	117AA105A106A4AB	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,901:00:0	
214	96	246	21:12:14.866	117AA105A106A4AC	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,903:00:0	
215	96	246	21:14:16.200	117AA105A106A4AD	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,905:00:0	
216	96	246	21:16:17.533	117AA105A106A4AE	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,907:00:0	
217	96	246	21:18:18.866	117AA105A106A4AF	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,909:00:0	
218	96	246	21:20:20.200	117AA105A106A4AG	7STRP	-0.00016,0.0,0.0	Slew = 0.02	2R0	4	0	3,593,911:00:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
219	96	246	21:22:21.533	117AA105A106A44H	7STRP	-0.00016,0.0,0.0	Slew =0.02	2R0	4	0	3,593,913:00.0	
220	96	246	21:24:22.866	117AA105A106A44J	7STRP	-0.00016,0.0,0.0	Slew =0.02	2R0	4	0	3,593,915:00.0	
221	96	246	21:26:24.200	117AA105A106A44J	7STRP	-0.00016,0.0,0.0	Slew =0.02	2R0	4	0	3,593,917:00.0	
222	96	246	21:28:25.533	117AA105A106A44K	7STRP	-0.00016,0.0,0.0	Slew =0.02	2R0	4	0	3,593,919:00.0	
223	96	246	21:30:26.866	117AA105A106A44L	7STRP	-0.00016,0.0,0.0	Slew =0.02	2R0	4	0	3,593,921:00.0	
224	96	246	21:32:28.200	117AA105A106A44M	7STRP	-0.00016,0.0,0.0	Slew =0.02	2R0	4	0	3,593,923:00.0	
225	96	246	21:34:29.533	117AA105A106B4A	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,925:00.0	
226	96	246	21:36:30.866	117AA105A106B4B	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,927:00.0	
227	96	246	21:38:32.200	117AA105A106B4C	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,929:00.0	
228	96	246	21:40:33.533	117AA105A106B4D	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,931:00.0	
229	96	246	21:42:34.866	117AA105A106B4E	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,933:00.0	
230	96	246	21:44:36.200	117AA105A106B4F	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,935:00.0	
231	96	246	21:46:37.533	117AA105A106B4G	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,937:00.0	
232	96	246	21:48:38.866	117AA105A106B4H	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,939:00.0	
233	96	246	21:50:40.200	117AA105A106B4I	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,941:00.0	
234	96	246	21:52:41.533	117AA105A106B4J	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,943:00.0	
235	96	246	21:54:42.866	117AA105A106B4K	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,945:00.0	
236	96	246	21:56:44.200	117AA105A106B4L	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,947:00.0	
237	96	246	21:58:45.533	117AA105A106B4M	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,949:00.0	
238	96	246	22:00:46.866	117AA105A106B4N	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,951:00.0	
239	96	246	22:02:48.200	117AA105A106B4O	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,953:00.0	
240	96	246	22:04:49.533	117AA105A106B4P	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,955:00.0	
241	96	246	22:06:50.866	117AA105A106B4Q	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,957:00.0	
242	96	246	22:08:52.200	117AA105A106B4R	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,959:00.0	
243	96	246	22:10:53.533	117AA105A106B4S	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,961:00.0	
244	96	246	22:12:54.866	117AA105A106B4T	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,963:00.0	
245	96	246	22:14:56.200	117AA105A106B4U	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,965:00.0	
246	96	246	22:16:57.533	117AA105A106B4V	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,967:00.0	
247	96	246	22:18:58.866	117AA105A106B4W	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,969:00.0	
248	96	246	22:21:00.200	117AA105A106B4X	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,971:00.0	
249	96	246	22:23:01.533	117AA105A106B4Y	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,973:00.0	
250	96	246	22:25:02.866	117AA105A106B4Z	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,975:00.0	
251	96	246	22:27:04.200	117AA105A106B4AA	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,977:00.0	
252	96	246	22:29:05.533	117AA105A106B4AB	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,979:00.0	
253	96	246	22:31:06.866	117AA105A106B4AC	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,981:00.0	
254	96	246	22:33:08.200	117AA105A106B4AD	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,983:00.0	
255	96	246	22:34:40.200	488F6A	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R0	4	0	3,593,984:47.0	
256	96	246	22:35:09.533	117AA105A106B4AE	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,985:00.0	
257	96	246	22:36:01.533	488F6B	6TMSED	FILL, DL3	Sci, Eng, and D/L Chan	2R0	4	0	3,593,985:78.0	
258	96	246	22:37:10.866	117AA105A106B4AF	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,987:00.0	
259	96	246	22:39:12.200	117AA105A106B4AG	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,989:00.0	
260	96	246	22:41:13.533	117AA105A106B4AH	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,991:00.0	
261	96	246	22:43:14.866	117AA105A106B4AI	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,993:00.0	
262	96	246	22:45:16.200	117AA105A106B4AJ	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,995:00.0	
263	96	246	22:47:17.533	117AA105A106B4AK	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,997:00.0	
264	96	246	22:49:18.866	117AA105A106B4AL	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,593,999:00.0	
265	96	246	22:51:20.200	117AA105A106B4AM	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,594,001:00.0	
266	96	246	22:53:21.533	117AA105A106B4AN	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,594,003:00.0	
267	96	246	22:55:22.866	117AA105A106B4AO	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,594,005:00.0	
268	96	246	22:57:24.200	117AA105A106B4AP	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,594,007:00.0	
269	96	246	22:59:25.533	117AA105A106B4AQ	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,594,009:00.0	
270	96	246	23:01:26.866	117AA105A106B4AR	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,594,011:00.0	
271	96	246	23:03:28.200	117AA105A106B4AS	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,594,013:00.0	
272	96	246	23:05:29.533	117AA105A106B4AT	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,594,015:00.0	
273	96	246	23:07:30.866	117AA105A106B4AU	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3,594,017:00.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
274	96	246	23:09:32.200	117AA105A106B4AV	7STRP	-0.00032,0.0,0.0	Slew =0.02	2R0	4	0	3.594,019:00:0	
275	96	246	23:11:33.533	117AA11A	CSMOS	GE	**** GROUP END CSMOS	2R0	4	0	3.594,021:00:0	
276	96	246	23:13:05.533	488F6C	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R0	4	0	3.594,022:47:0	
277	96	246	23:14:28.866	165JG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3.594,023:81:0	
278	96	246	23:14:29.533	165JG4B	7SCAN	NORM,205.880999,	Check S/P Position	2R0	4	0	3.594,023:82:0	
279	96	246	23:14:39.533	118JG	SMOS	GS		2R0	4	0	3.594,024:06:0	
280	96	246	23:15:09.533	118JG110A111A4A	7STRP	0.00212,0.0,0.92,0	Slew =,1.05	2R0	4	0	3.594,024:51:0	
281	96	246	23:15:57.533	175JG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R0	4	0	3.594,025:32:0	
282	96	246	23:16:05.600		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC *2771.66 +/-	2R0	4	0	3.594,025:44:1	
283	96	246	23:16:09.533	175JG176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R0	4	0	3.594,025:50:0	
284	96	246	23:16:09.600		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *2777.93 +/-	2R0	4	0	3.594,025:50:1	
285	96	246	23:16:09.600		DMS:	:*AT_SPD	R115, TRACK 1, FWD, TIC 2777.93 +/-	2R0	4	0	3.594,025:50:1	
286	96	246	23:16:10.866	118JG11A	SMOS	GE		2R0	4	0	3.594,025:52:0	
287	96	246	23:16:35.533	165AZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3.594,025:89:0	
288	96	246	23:16:36.200	165AZ4B	7SCAN	NORM,201.015999,	Check S/P Position	2R0	4	0	3.594,025:90:0	
289	96	246	23:16:36.866	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3.594,026:00:0	
290	96	246	23:16:36.866		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *2873.79 +/-	2R0	4	0	3.594,026:00:0	
291	96	246	23:32:16.200	488F6D	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3.594,041:44:0	
292	96	246	23:46:56.866	116AB4A	7STRP	-0.005,0.0,0.0,0.0	Slew =4.01	2R0	4	0	3.594,056:00:0	
293	96	247	00:15:15.533	488F6E	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3.594,084:00:0	
294	96	247	00:19:11.533	165JH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3.594,087:81:0	
295	96	247	00:19:12.200	165JH4B	7SCAN	NORM,205.177999,	Check S/P Position	2R0	4	0	3.594,087:82:0	
296	96	247	00:19:22.200	118JH	SMOS	GS		2R0	4	0	3.594,088:06:0	
297	96	247	00:19:52.200	118JH110A111A4A	7STRP	0.00213,0.0,0.92,0	Slew =3,1.1	2R0	4	0	3.594,088:51:0	
298	96	247	00:20:40.200	175JH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R0	4	0	3.594,089:32:0	
299	96	247	00:20:48.266		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC *2876.10 +/- 1	2R0	4	0	3.594,089:44:1	
300	96	247	00:20:52.200	175JH176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R0	4	0	3.594,089:50:1	
301	96	247	00:20:52.266		DMS:	:*AT_SPD	R115, TRACK 1, FWD, TIC 2882.37 +/- 1	2R0	4	0	3.594,089:50:1	
302	96	247	00:20:52.266		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *2882.37 +/- 1	2R0	4	0	3.594,089:50:1	
303	96	247	00:20:53.533	118JH11A	SMOS	GE		2R0	4	0	3.594,089:52:0	
304	96	247	00:21:19.533		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *2978.23 +/- 1	2R0	4	0	3.594,090:00:0	
305	96	247	00:21:19.533	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3.594,090:00:0	
306	96	247	00:45:13.533	488G6A	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3.594,113:58:0	
307	96	247	01:00:04.866	20KB4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	4	0	3.594,128:30:0	
308	96	247	01:23:26.866	165JH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3.594,151:40:0	
309	96	247	01:23:27.533	165JH4B	7SCAN	NORM,204.362,-7.	Check S/P Position	2R0	4	0	3.594,151:41:0	
310	96	247	01:24:04.866	118JH	SMOS	GS		2R0	4	0	3.594,152:06:0	
311	96	247	01:24:34.866	118JH110A111A4A	7STRP	0.00214,0.0,0.92,0	Slew =3,1.1	2R0	4	0	3.594,152:51:0	
312	96	247	01:25:22.866	175JH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R0	4	0	3.594,153:32:0	
313	96	247	01:25:30.933		DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC *2980.54 +/- 1	2R0	4	0	3.594,153:44:1	
314	96	247	01:25:34.866	175JH176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R0	4	0	3.594,153:50:0	
315	96	247	01:25:34.933		DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *2986.81 +/- 1	2R0	4	0	3.594,153:50:1	
316	96	247	01:25:34.933		DMS:	:*AT_SPD	R115, TRACK 1, FWD, TIC 2986.81 +/- 1	2R0	4	0	3.594,153:50:1	
317	96	247	01:25:36.200	118JH11A	SMOS	GE		2R0	4	0	3.594,153:52:0	
318	96	247	01:26:02.200	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3.594,154:00:0	
319	96	247	01:26:02.200		DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *3082.67 +/- 1	2R0	4	0	3.594,154:00:0	
320	96	247	01:29:02.866	165BD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3.594,156:89:0	
321	96	247	01:29:03.533	165BD4B	7SCAN	NORM,196.040998,	Check S/P Position	2R0	4	0	3.594,156:90:0	
322	96	247	04:05:16.133	488G6B	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3.594,311:44:0	
323	96	247	04:35:14.800	488G6C	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3.594,341:12:0	
324	96	247	06:59:40.800	165AB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3.594,483:89:0	
325	96	247	06:59:41.466	165AB4B	7SCAN	NORM,204.532999,	Check S/P Position	2R0	4	0	3.594,483:90:0	
326	96	247	07:03:14.133	432AC6A	6RTSL1		R/T Select of DDS and	2R0	4	0	3.594,487:45:0	
327	96	247	07:03:43.466	165AB4C	7VECT		Inert vect update UTC	2R0	4	0	3.594,487:89:0	
328	96	247	07:03:44.133	165AB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R0	4	0	3.594,487:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
329	96	247	14:49:36.133	488H6A	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R0	4	0	3,594,948;67:0	
330	96	247	15:13:54.800	175KB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R0	4	0	3,594,972;7:1:0	
331	96	247	15:14:02.866		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC *3084.98 +/- 1	2R0	4	0	3,594,972;83:1	
332	96	247	15:14:06.800	175KB176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R0	4	0	3,594,972;89:0	
333	96	247	15:14:06.866		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC *3086.48 +/- 1	2R0	4	0	3,594,972;89:1	
334	96	247	15:14:06.866		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC *3086.48 +/- 1	2R0	4	0	3,594,972;89:1	
335	96	247	15:14:08.133		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *3087.59 +/- 1	2R0	4	0	3,594,973;00:0	
336	96	247	15:14:08.133	411JA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	3,594,973;00:0	
337	96	247	15:14:09.533		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *3087.81 +/- 1	2R0	4	0	3,594,973;02:1	
338	96	247	15:14:11.000		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *3087.93 +/- 1	2R0	4	0	3,594,973;04:3	
339	96	247	15:14:11.000		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3087.93 +/- 1	2R0	4	0	3,594,973;04:3	
340	96	247	15:14:11.466	411JA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R0	4	0	3,594,973;05:0	
341	96	247	15:14:43.466	488H6B	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R0	4	0	3,594,973;53:0	
342	96	247	15:16:12.800	411JA6C	6TMREC	NRC	NO RECORD Record Mode Change	2R0	4	0	3,594,975;05:0	
343	96	247	15:16:13.466	411JA6D	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,594,975;06:0	
344	96	247	15:16:13.466		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *3116.63 +/- 1	2R0	4	0	3,594,975;06:0	
345	96	247	15:47:02.133	488H6C	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R0	4	0	3,595,005;49:0	
346	96	247	16:25:36.133	488H6D	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,595,043;62:0	
347	96	247	16:30:19.466	488H6E	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,595,048;32:0	
348	96	247	16:57:37.466	488I6A	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,595,075;32:0	
349	96	247	16:59:59.333	G2NNCHOPON01-		----START-----		2R0	4	0	:	:
350	96	247	17:03:15.466	125FG	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	3,595,080;84:0	
351	96	247	17:03:15.466	125FG4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	2R0	4	0	3,595,080;84:0	
352	96	247	17:04:16.133	125FG4B	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	3,595,081;84:0	
353	96	247	17:05:16.800	125FG4C	37MB	0,0,0,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	3,595,082;84:0	
354	96	247	17:05:16.800	125FG11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	3,595,082;84:0	
355	96	247	17:05:59.333	G2NNCHOPON01-		----STOP-----		2R0	4	0	:	:
356	96	247	17:10:23.466	165IT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,595,087;89:0	
357	96	247	17:10:24.133	165IT4B	7SCAN	NORM,205,198,-8,	Check S/P Position	2R0	4	0	3,595,087;90:0	
358	96	247	17:12:30.000	G2NNRECOV01-		----START-----		2R0	4	0	:	:
359	96	247	17:13:22.133	125DC4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	3,595,090;84:0	
360	96	247	17:13:22.133	125DC	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	3,595,090;84:0	
361	96	247	17:13:22.133	125DC11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	3,595,090;84:0	
362	96	247	17:14:18.133	175IT422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R0	4	0	3,595,091;77:0	
363	96	247	17:14:21.466	118IT	SMOS	GS	%:%%:%% GROUP START TAB	2R0	4	0	3,595,091;82:0	
364	96	247	17:14:22.800	127EQ	NIMSTAB	GS	%:%%:%% GROUP END TAB	2R0	4	0	3,595,091;84:0	
365	96	247	17:14:22.800	127EQ4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,595,091;84:0	
366	96	247	17:14:23.466	127EQ4B	37ETB	07,C7,02,80,44,3	Loads wavelength edit table	2R3	4	0	3,595,091;85:0	
367	96	247	17:14:26.200		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *3118.09 +/- 1	2R3	4	0	3,595,091;89:1	
368	96	247	17:14:30.133	175IT176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,595,092;04:0	
369	96	247	17:14:30.200		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3124.36 +/- 1	2R3	4	0	3,595,092;04:1	
370	96	247	17:14:30.200		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *3124.36 +/- 1	2R3	4	0	3,595,092;04:1	
371	96	247	17:14:31.466	127EQ11A	NIMSTAB	GE	%:%%:%% GROUP END TAB	2R3	4	0	3,595,092;06:0	
372	96	247	17:14:31.466	118IT110A11A4A	7STRP	0,0,0,0,46,0,0,0,0	Slew =3.71	2R3	4	0	3,595,092;06:0	
373	96	247	17:14:46.800	118IT110A11B4A	7STRP	0,0012,-0,0073,0	Slew =3.71	2R3	4	0	3,595,092;29:0	
374	96	247	17:14:47.466	432DD6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	3,595,092;30:0	
375	96	247	17:15:02.133	118IT110A11B4B	7STRP	0,0,0,0,46,0,0,0,0	Slew =3.71	2R3	4	0	3,595,092;52:0	
376	96	247	17:15:17.466	118IT110A11C4A	7STRP	0,0043,-0,0073,0	Slew =3.71	2R3	4	0	3,595,092;75:0	
377	96	247	17:15:32.800	118IT110A11C4B	7STRP	0,0,0,0,46,0,0,0,0	Slew =3.71	2R3	4	0	3,595,093;07:0	
378	96	247	17:15:46.800	432DE6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R3	4	0	3,595,093;28:0	
379	96	247	17:15:48.133	118IT110A11D4A	7STRP	0,0073,0,0,0,0,0,0,0	Slew =3.71	2R3	4	0	3,595,093;30:0	
380	96	247	17:16:03.466	118IT110A11D4B	7STRP	0,0,0,0,46,0,0,0,0	Slew =3.71	2R3	4	0	3,595,093;53:0	
381	96	247	17:16:18.800	118IT110A11A4B	7STRP	-0,012801,0,0146	Slew =3.71	2R3	4	0	3,595,093;76:0	
382	96	247	17:16:32.667	G2NNRECOV01-		----STOP-----		2R3	4	0	:	:
383	96	247	17:16:34.133	118IT110A11A4C	7STRP	0,0,0,0,46,0,0,0,0	Slew =3.71	2R3	4	0	3,595,094;08:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
384	96	247	17:16:49.466	118IT110A111B4C	7STRP	0.0012,-0.0073,0	Slew =3.71	2R3	4	0	3,595,094:31.0	
385	96	247	17:17:04.800	118IT110A111B4D	7STRP	0.0004,0.0000,0.0000	Slew =3.71	2R3	4	0	3,595,094:54.0	
386	96	247	17:17:20.133	118IT110A111C4C	7STRP	0.0043,-0.0073,0	Slew =3.71	2R3	4	0	3,595,094:77.0	
387	96	247	17:17:35.466	118IT110A111C4D	7STRP	0.0004,0.0000,0.0000	Slew =3.71	2R3	4	0	3,595,095:09.0	
388	96	247	17:17:50.800	118IT110A111D4C	7STRP	0.0073,0.0000,0.0000	Slew =3.71	2R3	4	0	3,595,095:32.0	
389	96	247	17:18:06.133	118IT110A111D4D	7STRP	0.0000,0.0000,0.0000	Slew =3.71	2R3	4	0	3,595,095:55.0	
390	96	247	17:18:21.466	118IT111A	SMOS	GE		2R3	4	0	3,595,095:78.0	
391	96	247	17:18:30.133		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *3967.87 +/- 1	2R3	4	0	3,595,096:00.0	
392	96	247	17:18:30.133	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,595,096:00.0	
393	96	247	17:21:29.466	176EY6A	6TMREC		NO RECORD Record Mode Change	2R3	4	0	3,595,098:87.0	
394	96	247	17:21:30.800	165EY4A	7TMOT		Disable IVP - Target Motion	2R3	4	0	3,595,098:89.0	
395	96	247	17:21:31.466	165EY4B	7SCAN	NORM,205,016998,	Check S/P Position	2R3	4	0	3,595,098:90.0	
396	96	247	17:22:27.933	G2JNSL9LIM01-		-----START-----		2R3	4	0	:	:
397	96	247	17:22:28.133	125EY	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,595,099:84.0	
398	96	247	17:22:28.133	125EY11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,595,099:84.0	
399	96	247	17:22:28.133	125EY4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R3	4	0	3,595,099:84.0	
400	96	247	17:23:16.800	175KC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,595,100:66.0	
401	96	247	17:23:24.133	117EY	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,595,100:77.0	
402	96	247	17:23:24.866		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC *3970.18 +/- 1	2R3	4	0	3,595,100:78.1	
403	96	247	17:23:28.800	127EY4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,595,100:84.0	
404	96	247	17:23:28.800	175KC176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,595,100:84.0	
405	96	247	17:23:28.800	127EY	NIMSTAB	GS	%% %% GROUP START TAB	2R3	4	0	3,595,100:84.0	
406	96	247	17:23:28.866		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC *3971.68 +/- 1	2R3	4	0	3,595,100:84.1	
407	96	247	17:23:28.866		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC *3971.68 +/- 1	2R3	4	0	3,595,100:84.1	
408	96	247	17:23:29.466	127EY4B	37ETB		Loads wavelength edit table	2R3	4	0	3,595,100:85.0	
409	96	247	17:23:30.133	175EY422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,595,100:86.0	
410	96	247	17:23:30.133		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *3972.79 +/- 1	2R3	4	0	3,595,100:86.0	
411	96	247	17:23:31.533		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *3973.01 +/- 1	2R3	4	0	3,595,100:88.1	
412	96	247	17:23:32.800	175EY176A6A	6TMREC	LPV	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,595,100:90.0	
413	96	247	17:23:33.000		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *3973.13 +/- 1	2R3	4	0	3,595,100:90.3	
414	96	247	17:23:33.000		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *3973.13 +/- 1	2R3	4	0	3,595,100:90.3	
415	96	247	17:23:33.466	117EY105A106A4A	7STRP	0.01,0.00,0.00,0.00	Slew =0.03	2R3	4	0	3,595,101:00.0	
416	96	247	17:23:37.466	127EY11A	NIMSTAB	GE	%% %% GROUP END TAB	2R3	4	0	3,595,101:06.0	
417	96	247	17:29:33.466	117EY11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,595,106:85.0	
418	96	247	17:29:34.800	175EY6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,595,106:87.0	
419	96	247	17:29:34.800	175EY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,595,106:87.0	
420	96	247	17:29:34.800		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *4057.93 +/- 1	2R3	4	0	3,595,106:87.0	
421	96	247	17:30:36.800	165CA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,107:89.0	
422	96	247	17:30:37.466	165CA4B	7SCAN	NORM,202,691,-7,	Check S/P Position	2R3	4	0	3,595,107:90.0	
423	96	247	17:31:49.267	G2JNSL9LIM01-		-----STOP-----		2R3	4	0	:	:
424	96	247	18:03:58.800	165CB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,140:89.0	
425	96	247	18:03:59.466	165CB4B	7SCAN	NORM,203,151999,	Check S/P Position	2R3	4	0	3,595,140:90.0	
426	96	247	22:11:42.133	165AC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,385:89.0	
427	96	247	22:11:42.800	165AC4B	7SCAN	NORM,208,554998,	Check S/P Position	2R3	4	0	3,595,385:90.0	
428	96	247	22:15:15.466	432AE6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,595,389:45.0	
429	96	247	22:24:00.133	488I6B	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3,595,398:13.0	
430	96	247	22:42:02.133	165AD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,415:89.0	
431	96	247	22:42:02.800	165AD4B	7SCAN	NORM,208,868999,	Check S/P Position	2R3	4	0	3,595,415:90.0	
432	96	247	23:12:22.133	165AE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,445:89.0	
433	96	247	23:12:22.800	165AE4B	7SCAN	NORM,212,463999,	Check S/P Position	2R3	4	0	3,595,445:90.0	
434	96	247	23:28:00.133	488J6A	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R3	4	0	3,595,461:40.0	
435	96	247	23:46:44.800	165AF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,479:89.0	
436	96	247	23:46:45.466	165AF4B	7SCAN	NORM,208,543999,	Check S/P Position	2R3	4	0	3,595,479:90.0	
437	96	248	00:00:00.133	488J6B	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3,595,493:08.0	
438	96	248	00:15:21.466	488J6C	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3,595,508:25.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
439	96	248	00:20:41.466	165AG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,513:50:0	
440	96	248	00:20:42.133	165AG4B	7SCAN	NORM,208,096998,	Check S/P Position	2R3	4	0	3,595,513:51:0	
441	96	248	00:45:19.466	488J6D	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3,595,537:83:0	
442	96	248	01:21:47.466	165AH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,573:89:0	
443	96	248	01:21:48.133	165AH4B	7SCAN	NORM,208,931999,	Check S/P Position	2R3	4	0	3,595,573:90:0	
444	96	248	04:00:22.133	488J6E	6TMSED	FILL,DL,4	Sci, Eng, and D/L Chan	2R3	4	0	3,595,730:74:0	
445	96	248	04:23:47.466	165A4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,753:89:0	
446	96	248	04:23:48.133	165A4B	7SCAN	NORM,210,286999,	Check S/P Position	2R3	4	0	3,595,753:90:0	
447	96	248	04:30:20.800	488K6A	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3,595,760:42:0	
448	96	248	04:54:07.466	165A4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,783:89:0	
449	96	248	04:54:08.133	165A4B	7SCAN	NORM,210,25,-9,9	Check S/P Position	2R3	4	0	3,595,783:90:0	
450	96	248	05:24:27.466	165AK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,813:89:0	
451	96	248	05:24:28.133	165AK4B	7SCAN	NORM,210,161999,	Check S/P Position	2R3	4	0	3,595,813:90:0	
452	96	248	05:54:47.466	165AL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,843:89:0	
453	96	248	05:54:48.133	165AL4B	7SCAN	NORM,210,085999,	Check S/P Position	2R3	4	0	3,595,843:90:0	
454	96	248	06:29:10.133	165AM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,877:89:0	
455	96	248	06:29:10.800	165AM4B	7SCAN	NORM,212,612,-10	Check S/P Position	2R3	4	0	3,595,877:90:0	
456	96	248	06:32:57.466	175KD422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,595,881:66:0	
457	96	248	06:33:04.800	117AB	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,595,881:77:0	
458	96	248	06:33:05.533		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC *4059.38 +/- 1	2R3	4	0	3,595,881:78:1	
459	96	248	06:33:09.466	175KD176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,595,881:84:0	
460	96	248	06:33:09.533		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 4060.88 +/- 1	2R3	4	0	3,595,881:84:1	
461	96	248	06:33:09.533		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC *4060.88 +/- 1	2R3	4	0	3,595,881:84:1	
462	96	248	06:33:10.800	175AA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,595,881:86:0	
463	96	248	06:33:10.800		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *4061.99 +/- 1	2R3	4	0	3,595,881:86:0	
464	96	248	06:33:12.200		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *4062.21 +/- 1	2R3	4	0	3,595,881:88:1	
465	96	248	06:33:13.466	175AA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,595,881:90:0	
466	96	248	06:33:13.666		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4062.33 +/- 1	2R3	4	0	3,595,881:90:3	
467	96	248	06:33:13.666		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *4062.33 +/- 1	2R3	4	0	3,595,881:90:3	
468	96	248	06:33:14.133	117AB105A106A4A	7STRP	-0.061076,0.0,0.0,	Slew =0.12	2R3	4	0	3,595,882:00:0	
469	96	248	06:41:44.800	117AB105A106A4B	7STRP	0.06208,-0.01200	Slew =17.44	2R3	4	0	3,595,890:38:0	
470	96	248	06:41:59.466	117AB105A106A4C	7STRP	-0.061076,0.0,0.0,	Slew =0.12	2R3	4	0	3,595,890:60:0	
471	96	248	06:50:30.133	117AB105A106A4D	7STRP	0.06208,-0.01200	Slew =17.44	2R3	4	0	3,595,899:07:0	
472	96	248	06:50:44.800	117AB105A106A4E	7STRP	-0.061076,0.0,0.0,	Slew =0.12	2R3	4	0	3,595,899:29:0	
473	96	248	06:59:15.466	117AB11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,595,907:67:0	
474	96	248	07:00:00.800	165AO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,595,908:44:0	
475	96	248	07:00:01.466	165AO4B	7SCAN	NORM,211,817999,	Check S/P Position	2R3	4	0	3,595,908:45:0	
476	96	248	07:00:22.800	117AD	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,595,908:77:0	
477	96	248	07:00:32.133	117AD105A106A4A	7STRP	0.004,-0.090295,	Slew =0.19	2R3	4	0	3,595,909:00:0	
478	96	248	07:10:31.466	117AD11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,595,918:80:0	
479	96	248	07:10:38.800	175AA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,595,919:00:0	
480	96	248	07:10:38.800		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *4588.54 +/- 1	2R3	4	0	3,595,919:00:0	
481	96	248	12:39:15.400	165JA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,596,244:00:0	
482	96	248	12:39:16.066	165JA4B	7SCAN	NORM,222,037998,	Check S/P Position	2R3	4	0	3,596,244:01:0	
483	96	248	12:39:19.400	118JA	SMOS	GS		2R3	4	0	3,596,244:06:0	
484	96	248	12:39:49.400	118JA110A111A4A	7STRP	0.00255,0.0,92,0	Slew =,1.21	2R3	4	0	3,596,244:51:0	
485	96	248	12:40:37.400	175JA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,596,245:32:0	
486	96	248	12:40:45.466		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *4589.99 +/- 1	2R3	4	0	3,596,245:44:1	
487	96	248	12:40:49.400	175JA176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,596,245:50:0	
488	96	248	12:40:49.466		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *4596.26 +/- 1	2R3	4	0	3,596,245:50:1	
489	96	248	12:40:49.466		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4596.26 +/- 1	2R3	4	0	3,596,245:50:1	
490	96	248	12:40:50.733	118JA11A	SMOS	GE		2R3	4	0	3,596,245:52:0	
491	96	248	12:41:16.733	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,596,246:00:0	
492	96	248	12:41:16.733		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *4692.12 +/- 1	2R3	4	0	3,596,246:00:0	
493	96	248	12:44:58.733	165DA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,596,249:60:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
494	96	248	12:44:59.333	GZNNOPCAL_01-165DA4B	7SCAN	---START---	Check S/P Position	2R3	4	0	:	:
495	96	248	12:44:59.400	165DA4B	37IST	NORM,218,078999,	Gain State 4	4R3	4	0	3,596,249:61:0	
496	96	248	12:45:14.733	125DA4A	NIMSSINIT	0,0,0,OFF,0,1,1	##### GROUP START INIT	4R3	4	0	3,596,249:84:0	
497	96	248	12:45:14.733	125DA	NIMSSINIT	GS	##### GROUP END INIT	4R3	4	0	3,596,249:84:0	
498	96	248	12:46:15.400	125DA11A	NIMSSINIT	GE	##### GROUP END INIT	4R3	4	0	3,596,250:84:0	
499	96	248	12:46:15.400	125DA4B	37MB	1B,1B,0,0,0,0	Selects mirror (s partial) edit table	4R3	4	0	3,596,250:84:0	
500	96	248	12:47:16.066	127DA	NIMSSINIT	GS	##### GROUP START TAB	4R3	4	0	3,596,251:84:0	
501	96	248	12:47:16.066	127DA4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	3,596,251:84:0	
502	96	248	12:47:16.733	127DA4B	37ETB	07,C7,31,80,00,0	Loads wavelength edit table	4R3	4	0	3,596,251:85:0	
503	96	248	12:47:24.733	127DA11A	NIMSSINIT	GE	##### GROUP END TAB	4R3	4	0	3,596,252:06:0	
504	96	248	12:47:40.733	432DA6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	3,596,252:30:0	
505	96	248	12:48:16.733	125D11A	NIMSSINIT	GE	##### GROUP END INIT	4R3	4	0	3,596,252:84:0	
506	96	248	12:48:16.733	125D1	NIMSSINIT	GS	##### GROUP START INIT	4R3	4	0	3,596,252:84:0	
507	96	248	12:48:16.733	125D1A4	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	3,596,252:84:0	
508	96	248	12:48:40.066	432D16A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	3,596,253:28:0	
509	96	248	12:50:00.667	GZNNOPCAL_01-125EU4A	37MB	0,0,0,0,0,0	Selects mirror (s partial) edit table	4R3	4	0	3,596,254:84:0	
511	96	248	12:50:18.066	125EU	NIMSSINIT	GS	##### GROUP START INIT	4R3	4	0	3,596,254:84:0	
512	96	248	12:50:18.066	125EU11A	NIMSSINIT	GE	##### GROUP END INIT	4R3	4	0	3,596,254:84:0	
513	96	248	13:54:58.733	165JB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,596,318:81:0	
514	96	248	13:54:59.400	165JB4B	7SCAN	NORM,222,752998,	Check S/P Position	4R3	4	0	3,596,318:82:0	
515	96	248	13:55:09.400	118JB	SMOS	GS		4R3	4	0	3,596,319:06:0	
516	96	248	13:55:39.400	118JB110A11A4A	7STRP	0.00258,0.0,0.92,0	Slew =,1.21	4R3	4	0	3,596,319:51:0	
517	96	248	13:56:27.400	175JB42A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	4R3	4	0	3,596,320:32:0	
518	96	248	13:56:35.466	175JB176A6A	DMS:	:RUNUP	R115, TRACK 1, FWD, TIC *4694.43 +/- 1	4R3	4	0	3,596,320:44:1	
519	96	248	13:56:39.400	175JB176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3,596,320:50:0	
520	96	248	13:56:39.466	118JB	DMS:	:AT_SPD	R115, TRACK 1, FWD, TIC 4700.70 +/- 1	4R3	4	0	3,596,320:50:1	
521	96	248	13:56:39.466	118JB11A	SMOS	GE	R115, TRACK 1, FWD, TIC *4700.70 +/- 1	4R3	4	0	3,596,320:50:1	
522	96	248	13:56:40.733	175JB42A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,596,320:52:0	
523	96	248	13:57:06.733	165CG4A	DMS:	:RUNDOWN	R115, TRACK 1, FWD, TIC *4796.56 +/- 1	4R3	4	0	3,596,321:00:0	
525	96	248	13:59:06.733	165CG4B	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,596,322:89:0	
526	96	248	13:59:07.400	165CH4A	7SCAN	NORM,224,328999,	Check S/P Position	4R3	4	0	3,596,322:90:0	
527	96	248	14:32:28.733	165CH4B	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,596,355:89:0	
528	96	248	14:32:29.400	165CH4B	7SCAN	NORM,224,889999,	Check S/P Position	4R3	4	0	3,596,355:90:0	
529	96	248	14:38:56.733	488L6A	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,596,362:34:0	
530	96	248	15:08:54.066	165JC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,596,392:00:0	
531	96	248	15:08:54.733	165JC4B	7SCAN	NORM,223,172998,	Check S/P Position	4R3	4	0	3,596,392:01:0	
532	96	248	15:08:58.066	118JC	SMOS	GS		4R3	4	0	3,596,392:06:0	
533	96	248	15:09:28.066	118JC110A11A4A	7STRP	0.0026,0.0,0.92,0,	Slew =,1.21	4R3	4	0	3,596,392:51:0	
534	96	248	15:09:37.400	488L6B	6TMSED	FILL,DL,2	Sci, Eng, and D/L Chan	4R3	4	0	3,596,392:65:0	
535	96	248	15:10:16.066	175JC42A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	4R3	4	0	3,596,393:32:0	
536	96	248	15:10:24.133	175JC176A6A	DMS:	:RUNUP	R115, TRACK 1, FWD, TIC *4798.86 +/- 1	4R3	4	0	3,596,393:44:1	
537	96	248	15:10:28.066	175JC176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3,596,393:50:0	
538	96	248	15:10:28.133	175JC176A6A	DMS:	:RECORD	R115, TRACK 1, FWD, TIC *4805.13 +/- 1	4R3	4	0	3,596,393:50:1	
539	96	248	15:10:28.133	118JC11A	DMS:	:AT_SPD	R115, TRACK 1, FWD, TIC 4805.13 +/- 1	4R3	4	0	3,596,393:50:1	
540	96	248	15:10:29.400	118JC11A	SMOS	GE		4R3	4	0	3,596,393:52:0	
541	96	248	15:10:55.400	175JC42A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,596,394:00:0	
542	96	248	15:10:55.400	488L6C	DMS:	:RUNDOWN	R115, TRACK 1, FWD, TIC *4900.99 +/- 1	4R3	4	0	3,596,394:00:0	
543	96	248	15:51:56.066	488L6D	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,596,434:51:0	
544	96	248	16:12:48.733	488L6D	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	4R3	4	0	3,596,455:19:0	
545	96	248	16:19:40.733	165JD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,596,462:00:0	
546	96	248	16:19:41.400	165JD4B	7SCAN	NORM,223,292999,	Check S/P Position	4R3	4	0	3,596,462:01:0	
547	96	248	16:19:44.733	118JD	SMOS	GS		4R3	4	0	3,596,462:06:0	
548	96	248	16:20:14.733	118JD110A11A4A	7STRP	0.00262,0.0,0.92,0	Slew =,1.21	4R3	4	0	3,596,462:51:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
549	96	248	16:21:02.733	175JD422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	4R3	4	0	3.596,463:32.0	
550	96	248	16:21:10.800		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *4903.30 +/- 1	4R3	4	0	3.596,463:44.1	
551	96	248	16:21:14.733	175JD176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3.596,463:50.0	
552	96	248	16:21:14.800		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4909.57 +/- 1	4R3	4	0	3.596,463:50.1	
553	96	248	16:21:14.800		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *4909.57 +/- 1	4R3	4	0	3.596,463:50.1	
554	96	248	16:21:16.066	118JD11A	SMOS	GE		4R3	4	0	3.596,463:52.0	
555	96	248	16:21:42.066		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *5005.43 +/- 1	4R3	4	0	3.596,464:00.0	
556	96	248	16:21:42.066	175JD422A6B	6DMSC	RDY.0	DMS Control Tape stop	4R3	4	0	3.596,464:00.0	
557	96	248	16:23:20.733	488L6E	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	4R3	4	0	3.596,465:57.0	
558	96	248	16:57:28.733	488M6A	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	4R3	4	0	3.596,499:35.0	
559	96	248	16:58:20.733	488M6B	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	4R3	4	0	3.596,500:22.0	
560	96	248	17:27:28.733	488M6C	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	4R3	4	0	3.596,529:05.0	
561	96	248	17:30:27.400	165JE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3.596,532:00.0	
562	96	248	17:30:28.066	165JE4B	7SCAN	NORM,223.116999,	Check S/P Position	4R3	4	0	3.596,532:01.0	
563	96	248	17:30:31.400	118JE	SMOS	GS		4R3	4	0	3.596,532:06.0	
564	96	248	17:31:01.400	118JE110A11A4A	7STRP	0.00266,0.0,0.92,0	Slew =,1.21	4R3	4	0	3.596,532:51.0	
565	96	248	17:31:49.400	175JE422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	4R3	4	0	3.596,533:32.0	
566	96	248	17:31:57.466		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *5007.74 +/- 1	4R3	4	0	3.596,533:44.1	
567	96	248	17:32:01.400	175JE176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3.596,533:50.0	
568	96	248	17:32:01.466		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *5014.01 +/- 1	4R3	4	0	3.596,533:50.1	
569	96	248	17:32:01.466		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5014.01 +/- 1	4R3	4	0	3.596,533:50.1	
570	96	248	17:32:02.733	118JE11A	SMOS	GE		4R3	4	0	3.596,533:52.0	
571	96	248	17:32:28.733	175JE422A6B	6DMSC	RDY.0	DMS Control Tape stop	4R3	4	0	3.596,534:00.0	
572	96	248	17:32:28.733		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *5109.87 +/- 1	4R3	4	0	3.596,534:00.0	
573	96	248	17:33:38.733	488M6D	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4R3	4	0	3.596,535:14.0	
574	96	248	18:30:00.066	488M6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3.596,590:81.0	
575	96	248	18:37:11.400	165JF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3.596,598:00.0	
576	96	248	18:37:12.066	165JF4B	7SCAN	NORM,222.672998,	Check S/P Position	4R3	4	0	3.596,598:01.0	
577	96	248	18:37:15.400	118JF	SMOS	GS		4R3	4	0	3.596,598:06.0	
578	96	248	18:37:45.400	118JF110A11A4A	7STRP	0.00268,0.0,0.92,0	Slew =,1.21	4R3	4	0	3.596,598:51.0	
579	96	248	18:38:33.400	175JF422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	4R3	4	0	3.596,599:32.0	
580	96	248	18:38:41.466		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *5112.18 +/- 1	4R3	4	0	3.596,599:44.1	
581	96	248	18:38:45.400	175JF176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3.596,599:50.0	
582	96	248	18:38:45.466		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *5118.45 +/- 1	4R3	4	0	3.596,599:50.1	
583	96	248	18:38:45.466		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5118.45 +/- 1	4R3	4	0	3.596,599:50.1	
584	96	248	18:38:46.733	118JF11A	SMOS	GE		4R3	4	0	3.596,599:52.0	
585	96	248	18:39:12.733	175JF422A6B	6DMSC	RDY.0	DMS Control Tape stop	4R3	4	0	3.596,600:00.0	
586	96	248	18:39:12.733		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *5214.31 +/- 1	4R3	4	0	3.596,600:00.0	
587	96	248	18:39:20.066	20EA4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4R3	4	0	3.596,600:11.0	
588	96	248	18:40:00.066	41VA99A	POWER	PWR MODE change	Change to Maneuver Mode	4R3	4	0	3.596,600:71.0	
589	96	248	18:40:04.066	41VA3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	4R3	4	0	3.596,600:77.0	
590	96	248	18:40:14.066	41VA3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	4R3	4	0	3.596,601:01.0	
591	96	248	18:42:24.066	41VA3G	40T1P		1 PCT Heater 1 ON (primary relay)	4R3	4	0	3.596,603:14.0	
592	96	248	18:42:34.066	41VA3H	40T1P		2 PCT Heater 1 ON (primary relay)	4R3	4	0	3.596,603:29.0	
593	96	248	18:42:44.066	41VA3I	40T2		1 PCT Heater 2 ON	4R3	4	0	3.596,603:44.0	
594	96	248	18:42:54.066	41VA3J	40T2		2 PCT Heater 2 ON	4R3	4	0	3.596,603:59.0	
595	96	248	18:43:00.066	488N6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4R3	4	0	3.596,603:68.0	
596	96	248	21:15:44.066	488N6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4R3	4	0	3.596,754:73.0	
597	96	248	22:10:49.400	488N6C	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	4R3	4	0	3.596,809:26.0	
598	96	248	23:07:53.400	488N6D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4R3	4	0	3.596,865:66.0	
599	96	248	23:40:00.066	41WB99A	POWER	PWR MODE change	Change to Data Taking Mode	4R3	4	0	3.596,897:44.0	
600	96	248	23:40:04.066	41WB3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	4R3	4	0	3.596,897:50.0	
601	96	248	23:40:14.066	41WB3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	4R3	4	0	3.596,897:65.0	
602	96	248	23:40:24.066	41WB3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	4R3	4	0	3.596,897:80.0	
603	96	248	23:40:34.066	41WB3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	4R3	4	0	3.596,898:04.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
604	96	248	23:40:44.066	41WB3C	40T2R		1 PCT Heater 2 OFF	4R3	4	0	3,596,998	19:0
605	96	248	23:40:54.066	41WB3D	40T2R		2 PCT Heater 2 OFF	4R3	4	0	3,596,998	34:0
606	96	248	23:42:56.066	488O6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,596,900	35:0
607	96	248	23:50:27.400	488O6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,596,907	75:0
608	96	248	23:54:06.733	165JJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,596,911	40:0
609	96	248	23:54:07.400	165JJ4B	7TMOT	NORM,217,629,-12	Check S/P Position	4R3	4	0	3,596,911	41:0
610	96	248	23:55:59.400	432OE431A6A	6RCDLSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3,596,913	27:0
611	96	248	23:56:00.066	432OE6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3,596,913	28:0
612	96	248	23:58:04.066	175J422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,596,915	32:0
613	96	248	23:58:12.133	175J176A6A	6TMREC	:*RUNUP	R115, TRACK 1, FWD, TIC *5216.62 +/- 1	4R3	4	0	3,596,915	44:1
614	96	248	23:58:16.066	175J176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3,596,915	50:0
615	96	248	23:58:16.133	175J422A6B	DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *5222.89 +/- 1	4R3	4	0	3,596,915	50:1
616	96	248	23:58:16.133	175J422A6B	DMS:	:*AT_SPD	R115, TRACK 1, FWD, TIC 5222.89 +/- 1	4R3	4	0	3,596,915	50:1
617	96	248	23:58:43.400	175J422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,596,916	00:0
618	96	248	23:58:43.400	488O6C	DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *5318.75 +/- 1	4R3	4	0	3,596,916	00:0
619	96	249	00:40:25.400	165JK4A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,596,957	22:0
620	96	249	00:58:55.400	165JK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,596,975	49:0
621	96	249	00:58:56.066	165JK4B	7SCAN	NORM,216,282,-12	Check S/P Position	4R3	4	0	3,596,975	50:0
622	96	249	00:59:17.400	118JK	SMOS	GS		4R3	4	0	3,596,975	82:0
623	96	249	00:59:27.400	118JK110A11A4A	7STRP	0.00283,0.0.92,0	Slew =,1.21	4R3	4	0	3,596,976	06:0
624	96	249	00:59:44.733	175JK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,596,976	32:0
625	96	249	00:59:52.800	175JK422A6B	DMS:	:*RUNUP	R115, TRACK 1, FWD, TIC *5321.05 +/- 1	4R3	4	0	3,596,976	44:1
626	96	249	00:59:56.733	175JK176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3,596,976	50:0
627	96	249	00:59:56.800	165JK4A	DMS:	:*AT_SPD	R115, TRACK 1, FWD, TIC 5327.32 +/- 1	4R3	4	0	3,596,976	50:1
628	96	249	00:59:56.800	118JK11A	DMS:	:*RECORD	R115, TRACK 1, FWD, TIC *5327.32 +/- 1	4R3	4	0	3,596,976	50:1
629	96	249	00:59:58.066	118JK11A	SMOS	GE		4R3	4	0	3,596,976	52:0
630	96	249	01:00:24.066	175JK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,596,977	00:0
631	96	249	01:00:24.066	165DB4A	DMS:	:*RUNDOWN	R115, TRACK 1, FWD, TIC *5423.18 +/- 1	4R3	4	0	3,596,977	00:0
632	96	249	01:05:58.066	165DB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,596,982	46:0
633	96	249	01:05:58.733	165DB4B	7SCAN	NORM,219,7,12999,	Check S/P Position	4R3	4	0	3,596,982	47:0
634	96	249	01:06:59.267	G2JNGLGLOMOS01-		----START----		4R3	4	0	:	:
635	96	249	01:08:24.733	125DB11A	NIMSINIT	GE	#### GROUP END INIT	4R3	4	0	3,596,984	84:0
636	96	249	01:08:24.733	125DB4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R3	4	0	3,596,984	84:0
637	96	249	01:08:24.733	125DB	NIMSINIT	GS	#### GROUP START INIT	2R3	4	0	3,596,984	84:0
638	96	249	01:09:25.400	127DB	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	3,596,985	84:0
639	96	249	01:09:25.400	127DB4A	37IOP	7,5	Fixed Map, Gating Start Position =05	2R7	4	5	3,596,985	84:0
640	96	249	01:09:26.066	127DB4B	37ETB	07,C7,19,1F,E1,0	Loads wavelength edit table	2R7	4	5	3,596,985	84:0
641	96	249	01:09:34.066	127DB11A	NIMSTAB	GE	%%%% GROUP END TAB	2R7	4	5	3,596,986	06:0
642	96	249	01:09:45.400	175KE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	4	5	3,596,986	23:0
643	96	249	01:09:52.733	117DB	CSMOS	GS	**** GROUP START CSMOS	2R7	4	5	3,596,986	34:0
644	96	249	01:09:53.466	175KE176A6A	DMS:	:*RUNUP	R28, TRACK 1, FWD, TIC *5425.49 +/- 1	2R7	4	5	3,596,986	35:1
645	96	249	01:09:57.400	175KE176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R7	4	5	3,596,986	41:0
646	96	249	01:09:57.466	175DB176A6A	DMS:	:*AT_SPD	R28, TRACK 1, FWD, TIC 5426.99 +/- 2	2R7	4	5	3,596,986	41:1
647	96	249	01:09:57.466	175DB176A6A	DMS:	:*RECORD	R28, TRACK 1, FWD, TIC *5426.99 +/- 1	2R7	4	5	3,596,986	41:1
648	96	249	01:09:58.733	175DB422A6A	DMS:	:*RUNDOWN	R28, TRACK 1, FWD, TIC *5428.11 +/- 2	2R7	4	5	3,596,986	43:0
649	96	249	01:09:58.733	175DB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,596,986	43:0
650	96	249	01:10:00.133	175DB176A6A	DMS:	:*RUNUP	R7, TRACK 1, FWD, TIC *5428.33 +/- 2	2R7	4	5	3,596,986	45:1
651	96	249	01:10:01.400	175DB176A6A	6TMREC	LPW	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3,596,986	47:0
652	96	249	01:10:01.600	175DB176A6A	DMS:	:*RECORD	R7, TRACK 1, FWD, TIC *5428.44 +/- 2	2R7	4	5	3,596,986	47:3
653	96	249	01:10:01.600	175DB176A6A	DMS:	:*AT_SPD	R7, TRACK 1, FWD, TIC 5428.44 +/- 2	2R7	4	5	3,596,986	47:3
654	96	249	01:10:02.053	G2JNGLGLOMOS01-	NIMPBK	301DB	JUPITER GLOBAL MOSAIC PART 1	2R7	4	5	:	:
655	96	249	01:10:02.066	117DB105A106A4A	7STRP	-0.038018,0.0,0,0,	Slew =0.76	2R7	4	5	3,596,986	48:0
656	96	249	01:11:09.400	117DB105A106A4B	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,596,987	58:0
657	96	249	01:11:16.733	117DB105A106A4C	7STRP	-0.038018,0.0,0,0,	Slew =0.76	2R7	4	5	3,596,987	69:0
658	96	249	01:12:24.066	117DB105A106A4D	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,596,988	79:0



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
659	96	249	01:12:31.400	117DB105A106A4E	7STRP	-0.038018,0.0,0	Slew =0.76	2R7	4	5	3,596,988	90:0
660	96	249	01:13:38.733	117DB105A106A4F	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,596,990	09:0
661	96	249	01:13:46.066	117DB105A106A4G	7STRP	-0.038018,0.0,0	Slew =0.76	2R7	4	5	3,596,990	20:0
662	96	249	01:14:53.400	117DB105A106A4H	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,596,991	30:0
663	96	249	01:15:00.733	117DB105A106A4I	7STRP	-0.038018,0.0,0	Slew =0.76	2R7	4	5	3,596,991	41:0
664	96	249	01:16:08.066	117DB105A106A4J	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,596,992	51:0
665	96	249	01:16:15.400	117DB105A106A4K	7STRP	-0.038018,0.0,0	Slew =0.76	2R7	4	5	3,596,992	62:0
666	96	249	01:17:22.733	117DB105A106A4L	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,596,993	72:0
667	96	249	01:17:30.066	117DB105A106A4M	7STRP	-0.038018,0.0,0	Slew =0.76	2R7	4	5	3,596,993	83:0
668	96	249	01:18:37.400	117DB105A106A4N	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,596,995	02:0
669	96	249	01:18:44.733	117DB105A106A4O	7STRP	-0.038018,0.0,0	Slew =0.76	2R7	4	5	3,596,995	13:0
670	96	249	01:19:51.385	G2JNGLMOS01-	DESEL	3000DB	JUPITER GLOBAL MOSAIC PART 1	2R7	4	5	:	:
671	96	249	01:19:52.066	117DB11A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	5	3,596,996	23:0
672	96	249	01:19:53.400		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *5670.15 +/- 2	2R7	4	5	3,596,996	25:0
673	96	249	01:19:53.400	175DB6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	5	3,596,996	25:0
674	96	249	01:19:53.400	175DB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,596,996	25:0
675	96	249	01:21:00.600	G2JNGLMOS01-		-----STOP-----		2R7	4	5	:	:
676	96	249	01:30:00.066	48806D	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R7	4	5	3,597,006	25:0
677	96	249	02:01:36.733	165JL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,597,037	49:0
678	96	249	02:01:37.400	165JL4B	7SCAN	NORM,215.039,-11	Check S/P Position	2R7	4	5	3,597,037	50:0
679	96	249	02:01:58.733	118JL	SMOS	GS		2R7	4	5	3,597,037	82:0
680	96	249	02:02:08.733	118JL110A111A4A	7STRP	0.00286,0.0,92,0	Slew =1.21	2R7	4	5	3,597,038	06:0
681	96	249	02:02:26.066	175JL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R7	4	5	3,597,038	32:0
682	96	249	02:02:34.133		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC *5668.60 +/- 2	2R7	4	5	3,597,038	44:1
683	96	249	02:02:38.066	175JL176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	5	3,597,038	50:0
684	96	249	02:02:38.133		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5674.87 +/- 2	2R7	4	5	3,597,038	50:1
685	96	249	02:02:38.133		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *5674.87 +/- 2	2R7	4	5	3,597,038	50:1
686	96	249	02:02:39.400	118JL11A	SMOS	GE		2R7	4	5	3,597,038	52:0
687	96	249	02:03:05.400	175JL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,597,039	00:0
688	96	249	02:03:05.400		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *5670.73 +/- 2	2R7	4	5	3,597,039	00:0
689	96	249	02:45:58.066	165DC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,597,081	37:0
690	96	249	02:45:58.733	165DC4B	7SCAN	NORM,220.591999,	Check S/P Position	2R7	4	5	3,597,081	38:0
691	96	249	02:46:59.267	G2JNGLMOS02-		-----START-----		2R7	4	5	:	:
692	96	249	02:49:31.400	127DC	NIMSTAB	GS	%%%% GROUP START TAB	2R7	4	5	3,597,084	84:0
693	96	249	02:49:32.066	127DC4A	37ETB	07,C7,19,1F,E1,0	Loads wavelength edit table	2R7	4	5	3,597,084	85:0
694	96	249	02:49:40.066	127DC11A	NIMSTAB	GE	%%%% GROUP END TAB	2R7	4	5	3,597,085	06:0
695	96	249	02:49:45.400	175KF422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	4	5	3,597,085	14:0
696	96	249	02:49:52.733	117DC	CSMOS	GS	**** GROUP START CSMOS	2R7	4	5	3,597,085	25:0
697	96	249	02:49:53.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC *5673.04 +/- 2	2R7	4	5	3,597,085	26:1
698	96	249	02:49:57.400	175KF176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R7	4	5	3,597,085	32:0
699	96	249	02:49:57.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC *5674.54 +/- 2	2R7	4	5	3,597,085	32:1
700	96	249	02:49:57.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 5674.54 +/- 2	2R7	4	5	3,597,085	32:1
701	96	249	02:49:58.733	175DC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,597,085	34:0
702	96	249	02:49:58.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *5675.65 +/- 2	2R7	4	5	3,597,085	34:0
703	96	249	02:50:00.133	175DC176A6A	6TMREC	LPU	R7, TRACK 1, FWD, TIC *5675.87 +/- 2	2R7	4	5	3,597,085	36:1
704	96	249	02:50:01.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5675.99 +/- 2	2R7	4	5	3,597,085	38:0
705	96	249	02:50:01.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *5675.99 +/- 2	2R7	4	5	3,597,085	38:3
706	96	249	02:50:01.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *5675.99 +/- 2	2R7	4	5	3,597,085	38:3
707	96	249	02:50:02.049	G2JNGLMOS02-	NIMPBK	301DC	JUPITER GLOBAL MOSAIC PART 2	2R7	4	5	:	:
708	96	249	02:50:02.066	117DC105A106A4A	7STRP	-0.038018,0.0,0	Slew =0.76	2R7	4	5	3,597,085	39:0
709	96	249	02:51:09.400	117DC105A106A4B	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,086	49:0
710	96	249	02:51:16.733	117DC105A106A4C	7STRP	-0.038018,0.0,0	Slew =0.76	2R7	4	5	3,597,086	60:0
711	96	249	02:52:24.066	117DC105A106A4D	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,087	70:0
712	96	249	02:52:31.400	117DC105A106A4E	7STRP	-0.038018,0.0,0	Slew =0.76	2R7	4	5	3,597,087	81:0
713	96	249	02:53:38.733	117DC105A106A4F	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,089	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
714	96	249	02:53:46.066	117DC105A106A4G	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3,597,089:11.0	
715	96	249	02:54:53.400	117DC105A106A4H	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,090:21.0	
716	96	249	02:55:00.733	117DC105A106A4I	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3,597,090:32.0	
717	96	249	02:56:08.066	117DC105A106A4J	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,091:42.0	
718	96	249	02:56:15.400	117DC105A106A4K	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3,597,091:53.0	
719	96	249	02:57:22.733	117DC105A106A4L	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,092:63.0	
720	96	249	02:57:30.066	117DC105A106A4M	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3,597,092:74.0	
721	96	249	02:58:37.400	117DC105A106A4N	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,093:84.0	
722	96	249	02:58:44.733	117DC105A106A4O	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3,597,094:04.0	
723	96	249	02:59:51.383	G2JINGLOMOS02-	DESEL	300DC	JUPITER GLOBAL MOSAIC PART 2	2R7	4	5	:	
724	96	249	02:59:52.066	117DC111A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	5	:	
725	96	249	02:59:53.400		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *5814.69 +/- 2	2R7	4	5	3,597,095:14.0	
726	96	249	02:59:53.400	175DC6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	5	3,597,095:16.0	
727	96	249	02:59:53.400	175DC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,597,095:16.0	
728	96	249	03:01:00.600	G2JINGLOMOS02-		-----STOP-----		2R7	4	5	:	
729	96	249	03:05:18.733	165JM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,597,100:49.0	
730	96	249	03:05:19.400	165JM4B	7SCAN	NORM,213.894999,	Check S/P Position	2R7	4	5	3,597,100:50.0	
731	96	249	03:05:40.733	118JM	SMOS	GS		2R7	4	5	3,597,100:82.0	
732	96	249	03:05:50.733	118JM110A111A4A	7STRP	0.00287,0.0,92.0	Slew =,1.21	2R7	4	5	3,597,101:06.0	
733	96	249	03:06:08.066	175JM422A6A	6DMSC	R115.0	R115, Control Tape runup 115.2Kb	2R7	4	5	3,597,101:32.0	
734	96	249	03:06:16.133		DMS:	: *RUNUP		2R7	4	5	3,597,101:44.1	
735	96	249	03:06:20.066	175JM176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	5	3,597,101:50.0	
736	96	249	03:06:20.133		DMS:	: *AT_SPD		2R7	4	5	3,597,101:50.1	
737	96	249	03:06:20.133		DMS:	: *RECORD		2R7	4	5	3,597,101:50.1	
738	96	249	03:06:21.400	118JM11A	SMOS	GE		2R7	4	5	3,597,101:52.0	
739	96	249	03:06:47.400		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *5918.28 +/- 2	2R7	4	5	3,597,102:00.0	
740	96	249	03:06:47.400	175JM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,597,102:00.0	
741	96	249	03:11:44.066	465KC6A	6DTRN	CMD,6DTRN,465KC6	DMS TRACK TURNAROUND	2R7	4	5	3,597,106:81.0	
742	96	249	04:01:04.066	488O6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R7	4	5	3,597,155:62.0	
743	96	249	04:10:01.400	165JN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,597,164:49.0	
744	96	249	04:10:02.066	165JN4B	7SCAN	NORM,212.914999,	Check S/P Position	2R7	4	5	3,597,164:50.0	
745	96	249	04:10:23.400	118JN	SMOS	GS		2R7	4	5	3,597,164:82.0	
746	96	249	04:10:33.400	118JN110A111A4A	7STRP	0.00289,0.0,92.0	Slew =,1.21	2R7	4	5	3,597,165:06.0	
747	96	249	04:10:34.733	175JN422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2Kb	2R7	4	5	3,597,165:08.0	
748	96	249	04:10:42.800		DMS:	: *RUNUP	R115, TRACK *2, REV, TIC *6026.77 +/-	2R7	4	5	3,597,165:20.1	
749	96	249	04:10:46.733	175JN176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	5	3,597,165:26.0	
750	96	249	04:10:46.800		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *6020.50 +/-	2R7	4	5	3,597,165:26.1	
751	96	249	04:10:46.800		DMS:	: *AT_SPD		2R7	4	5	3,597,165:26.1	
752	96	249	04:11:04.066	118JN11A	SMOS	GE		2R7	4	5	3,597,165:52.0	
753	96	249	04:11:30.733		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *5866.05 +/-	2R7	4	5	3,597,166:01.0	
754	96	249	04:11:30.733	175JN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,597,166:01.0	
755	96	249	04:25:58.066	165DD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,597,180:28.0	
756	96	249	04:25:58.733	165DD4B	7SCAN	NORM,221.573,-13	Check S/P Position	2R7	4	5	3,597,180:29.0	
757	96	249	04:26:59.267	G2JINGLOMOS03-		-----START-----		2R7	4	5	:	
758	96	249	04:29:37.400	127DD	NIMSTAB	GS	%%%% GROUP START TAB	2R7	4	5	3,597,183:84.0	
759	96	249	04:29:38.066	127DD4A	37ETB	07,C7,19,1F,E1,0	Loads wavelength edit table	2R7	4	5	3,597,183:85.0	
760	96	249	04:29:46.066	127DD11A	NIMSTAB	GE	%%%% GROUP END TAB	2R7	4	5	3,597,184:06.0	
761	96	249	04:29:52.066	175DD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,597,184:15.0	
762	96	249	04:29:52.733	117DD	CSMOS	GS	**** GROUP START CSMOS	2R7	4	5	3,597,184:16.0	
763	96	249	04:30:00.133		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *5866.53 +/-	2R7	4	5	3,597,184:27.1	
764	96	249	04:30:01.400	175DD176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3,597,184:29.0	
765	96	249	04:30:01.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5866.41 +/-	2R7	4	5	3,597,184:29.3	
766	96	249	04:30:01.600		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *5866.41 +/-	2R7	4	5	3,597,184:29.3	
767	96	249	04:30:02.045	G2JINGLOMOS03-	NIMPBK	301DD	JUPITER GLOBAL MOSAIC PART 3	2R7	4	5	:	
768	96	249	04:30:02.066	117DD105A106A4A	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3,597,184:30.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
769	96	249	04:31:09.400	117DD105A106A4B	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,185:40.0	
770	96	249	04:31:16.733	117DD105A106A4C	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,185:51.0	
771	96	249	04:32:24.066	117DD105A106A4D	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,186:61.0	
772	96	249	04:32:31.400	117DD105A106A4E	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,186:72.0	
773	96	249	04:33:38.733	117DD105A106A4F	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,187:82.0	
774	96	249	04:33:46.066	117DD105A106A4G	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,188:02.0	
775	96	249	04:34:53.400	117DD105A106A4H	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,189:12.0	
776	96	249	04:35:00.733	117DD105A106A4I	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,189:23.0	
777	96	249	04:36:08.066	117DD105A106A4J	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,190:33.0	
778	96	249	04:36:15.400	117DD105A106A4K	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,190:44.0	
779	96	249	04:37:22.733	117DD105A106A4L	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,191:54.0	
780	96	249	04:37:30.066	117DD105A106A4M	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,191:65.0	
781	96	249	04:38:37.400	117DD105A106A4N	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,192:75.0	
782	96	249	04:38:44.733	117DD105A106A4O	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,192:86.0	
783	96	249	04:39:52.045	G2JINGL0M0S03-	DESEL	300DD	JUPITER GLOBAL MOSAIC PART 3	2R7	4	5	:	
784	96	249	04:39:52.066	117DD11A	CSMOS	GE	*** GROUP END CSMOS	2R7	4	5	:	
785	96	249	04:40:03.400	175DD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,597,194:05.0	
786	96	249	04:40:03.400		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *5725.36 +/-	2R7	4	5	3,597,194:22.0	
787	96	249	04:40:03.400	175DD6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	5	3,597,194:22.0	
788	96	249	04:41:00.600	G2JINGL0M0S03-		----STOP-----		2R7	4	5	:	
789	96	249	05:14:44.066	165JO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,597,228:49.0	
790	96	249	05:14:44.733	165JO4B	7SCAN	NORM,212.167,-11	Check S/P Position	2R7	4	5	3,597,228:50.0	
791	96	249	05:15:06.066	118JO	SMOS	GS	Slew =,1.21	2R7	4	5	3,597,228:82.0	
792	96	249	05:15:16.066	118JO10A111A4A	7STRP	0.00291,0.0,92.0	DMS Control Tape runup 115.2kb	2R7	4	5	3,597,229:06.0	
793	96	249	05:15:33.400	175JO422A6A	6DMSC	R115.0	R115, TRACK 2, REV, TIC *5729.44 +/-	2R7	4	5	3,597,229:32.0	
794	96	249	05:15:41.466		DMS:	: *RUNUP	DMS Control Tape stop	2R7	4	5	3,597,229:44.1	
795	96	249	05:15:45.400	175JO176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	5	3,597,229:50.1	
796	96	249	05:15:45.466		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *5720.42 +/-	2R7	4	5	3,597,229:50.1	
797	96	249	05:15:45.466		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5720.42 +/-	2R7	4	5	3,597,229:52.0	
798	96	249	05:15:46.733	118JO11A	SMOS	GE	DMS Control Tape stop	2R7	4	5	3,597,230:01.0	
799	96	249	05:16:13.400	175JO422A6B	6DMSC	RDY,0	R115, TRACK 2, REV, TIC *5622.22 +/-	2R7	4	5	3,597,230:01.0	
800	96	249	05:16:13.400		DMS:	: *RUNDOWN		2R7	4	5	:	
801	96	249	06:03:56.600	G2JINGL0M0S04-		----START-----		2R7	4	5	:	
802	96	249	06:03:56.733	165DE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,597,277:19.0	
803	96	249	06:03:57.400	165DE4B	7SCAN	NORM,222.606998,	Check S/P Position	2R7	4	5	3,597,277:20.0	
804	96	249	06:07:42.066	127DE	NIMSTAB	GS	Load wavelenght edit table	2R7	4	5	3,597,280:84.0	
805	96	249	06:07:42.733	127DE4A	37ETB	07,C7,19,1F,E1,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,597,281:06.0	
806	96	249	06:07:50.733	175DE422A6A	6DMSC	R7,0	*** GROUP START CSMOS	2R7	4	5	3,597,281:06.0	
807	96	249	06:07:50.733	127DE11A	NIMSTAB	GE	R7, TRACK *2, REV, TIC *5622.70 +/-	2R7	4	5	3,597,281:07.0	
808	96	249	06:07:51.400	117DE	CSMOS	GS	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3,597,281:20.3	
809	96	249	06:07:58.800		DMS:	: *RUNUP	R7, TRACK 2, REV, TIC *5622.58 +/-	2R7	4	5	3,597,281:20.3	
810	96	249	06:08:00.066	175DE176A6A	6TMREC	LPU	R7, TRACK 2, REV, TIC 5622.58 +/-	2R7	4	5	3,597,281:20.3	
811	96	249	06:08:00.266		DMS:	: *RECORD	JUPITER GLOBAL MOSAIC PART 4	2R7	4	5	:	
812	96	249	06:08:00.266		DMS:	: *AT_SPD	Slew =0.76	2R7	4	5	3,597,281:21.0	
813	96	249	06:08:00.709	G2JINGL0M0S04-	NIMPBK	301DE	Slew =12.01	2R7	4	5	3,597,282:31.0	
814	96	249	06:08:00.733	117DE105A106A4A	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,282:42.0	
815	96	249	06:09:08.066	117DE105A106A4B	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,283:52.0	
816	96	249	06:09:15.400	117DE105A106A4C	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,283:63.0	
817	96	249	06:10:22.733	117DE105A106A4D	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,284:73.0	
818	96	249	06:10:30.066	117DE105A106A4E	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,284:84.0	
819	96	249	06:11:37.400	117DE105A106A4F	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,286:03.0	
820	96	249	06:11:44.733	117DE105A106A4G	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,286:14.0	
821	96	249	06:12:52.066	117DE105A106A4H	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,287:24.0	
822	96	249	06:12:59.400	117DE105A106A4I	7STRP	-0.038018,0.0,0,	Slew =0.76	2R7	4	5	3,597,287:24.0	
823	96	249	06:14:06.733	117DE105A106A4J	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3,597,287:24.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
824	96	249	06:14:14.066	117DE105A106A4K	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3.597,287.35:0	
825	96	249	06:15:21.400	117DE105A106A4L	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3.597,288.45:0	
826	96	249	06:15:28.733	117DE105A106A4M	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3.597,288.56:0	
827	96	249	06:16:36.066	117DE105A106A4N	7STRP	0.038018,-0.008,	Slew =12.01	2R7	4	5	3.597,289.66:0	
828	96	249	06:16:43.400	117DE105A106A4O	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3.597,289.77:0	
829	96	249	06:17:50.708	G2JNGLGLOMOSA04-	DESEL	300DE	JUPITER GLOBAL MOSAIC PART 4	2R7	4	5	:	
830	96	249	06:17:50.733	117DE11A	CSMOS	GE	***** GROUP END CSMOS	2R7	4	5	3.597,290.87:0	
831	96	249	06:17:57.933	G2JNGLGLOMOSA04-	*****STOP	*****STOP		2R7	4	5	:	
832	96	249	06:18:02.066	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3.597,291.13:0	
833	96	249	06:18:02.066	175DE6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	5	3.597,291.13:0	
834	96	249	06:18:02.066		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *5481.54 +/-	2R7	4	5	3.597,291.13:0	
835	96	249	06:22:28.733	165JP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3.597,295.49:0	
836	96	249	06:22:29.400	165JP4B	7SCAN	NORM,211.665998,	Check S/P Position	2R7	4	5	3.597,295.50:0	
837	96	249	06:22:50.733	118JP	SMOS	GS		2R7	4	5	3.597,295.82:0	
838	96	249	06:23:00.733	118JP110A111A4A	7STRP	0.00293,0.0,92.0	Slew =1.21	2R7	4	5	3.597,296.06:0	
839	96	249	06:23:18.066	175JP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R7	4	5	3.597,296.32:0	
840	96	249	06:23:26.133		DMS:	: *RUNUP	R115, TRACK 2, *REV, TIC *5482.87 +/- 1	2R7	4	5	3.597,296.44:1	
841	96	249	06:23:30.066	175JP176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	5	3.597,296.50:0	
842	96	249	06:23:30.133		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *5476.60 +/- 1	2R7	4	5	3.597,296.50:1	
843	96	249	06:23:30.133		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC *5476.60 +/- 1	2R7	4	5	3.597,296.50:1	
844	96	249	06:23:31.400	118JP11A	SMOS	GE		2R7	4	5	3.597,296.52:0	
845	96	249	06:23:57.400	175JP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3.597,297.00:0	
846	96	249	06:23:57.400		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *5380.74 +/- 1	2R7	4	5	3.597,297.00:0	
847	96	249	06:30:00.066	488P6A	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R7	4	5	3.597,302.89:0	
848	96	249	06:36:48.066	488P6B	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	2R7	4	5	3.597,309.64:0	
849	96	249	07:32:08.066	165JQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3.597,364.39:0	
850	96	249	07:32:08.733	165JQ4B	7SCAN	NORM,211.476,-11	Check S/P Position	2R7	4	5	3.597,364.40:0	
851	96	249	07:32:36.733	118JQ	SMOS	GS		2R7	4	5	3.597,364.82:0	
852	96	249	07:32:46.733	118JQ10A111A4A	7STRP	0.00296,0.0,92.0	Slew =1.21	2R7	4	5	3.597,365.06:0	
853	96	249	07:33:04.066	175JQ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R7	4	5	3.597,365.32:0	
854	96	249	07:33:12.133		DMS:	: *RUNUP	R115, TRACK 2, *REV, TIC *5381.22 +/- 1	2R7	4	5	3.597,365.44:1	
855	96	249	07:33:16.066	175JQ176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	5	3.597,365.50:0	
856	96	249	07:33:16.133		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC *5374.95 +/- 1	2R7	4	5	3.597,365.50:1	
857	96	249	07:33:16.133		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *5374.95 +/- 1	2R7	4	5	3.597,365.50:1	
858	96	249	07:33:17.400	118JQ11A	SMOS	GE		2R7	4	5	3.597,365.52:0	
859	96	249	07:33:44.066		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *5276.75 +/- 1	2R7	4	5	3.597,366.01:0	
860	96	249	07:33:44.066	175JQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3.597,366.01:0	
861	96	249	07:39:38.733	488P6C	6TMSED	FILL,FL6	Sci, Eng, and D/L Chan	2R7	4	5	3.597,371.78:0	
862	96	249	07:45:58.066	165DF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3.597,378.10:0	
863	96	249	07:45:58.733	165DF4B	7SCAN	NORM,223.566,-14	Check S/P Position	2R7	4	5	3.597,378.11:0	
864	96	249	07:47:56.600	G2JNGLGLOMOSA05-	*****START	*****START		2R7	4	5	:	
865	96	249	07:49:49.400	127DF	NIMSTAB	GS	%%%% GROUP START TAB	2R7	4	5	3.597,381.84:0	
866	96	249	07:49:50.066	127DF4A	37ETB	07,C7,19,1F,E1,0	Loads wavelength edit table	2R7	4	5	3.597,381.85:0	
867	96	249	07:49:52.066	175DF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3.597,381.88:0	
868	96	249	07:49:52.733	117DF	CSMOS	GS	***** GROUP START CSMOS	2R7	4	5	3.597,381.89:0	
869	96	249	07:49:58.066	127DF11A	NIMSTAB	GE	%%%% GROUP START TAB	2R7	4	5	3.597,382.06:0	
870	96	249	07:50:00.133		DMS:	: *RUNUP	R7, TRACK 2, *REV, TIC *5277.22 +/- 1	2R7	4	5	3.597,382.09:1	
871	96	249	07:50:01.400	175DF176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3.597,382.11:0	
872	96	249	07:50:01.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5277.11 +/- 1	2R7	4	5	3.597,382.11:3	
873	96	249	07:50:01.600		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *5277.11 +/- 1	2R7	4	5	3.597,382.11:3	
874	96	249	07:50:02.038	G2JNGLGLOMOSA05-	NIMPBK	301DF	JUPITER GLOBAL MOSAIC PART 5	2R7	4	5	:	
875	96	249	07:50:02.066	117DF105A106A4A	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3.597,382.12:0	
876	96	249	07:51:09.400	117DF105A106A4B	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3.597,383.22:0	
877	96	249	07:51:16.733	117DF105A106A4C	7STRP	-0.038018,0.0,0.0,	Slew =0.76	2R7	4	5	3.597,383.33:0	
878	96	249	07:52:24.066	117DF105A106A4D	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3.597,384.43:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
879	96	249	07:52:31.400	117DF105A106A4E	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,384	54:0
880	96	249	07:53:18.066	488P6D	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	2R7	4	5	3,597,385	3:30
881	96	249	07:53:38.733	117DF105A106A4F	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,385	64:0
882	96	249	07:53:46.066	117DF105A106A4G	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,385	75:0
883	96	249	07:54:53.400	117DF105A106A4H	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,386	85:0
884	96	249	07:55:00.733	117DF105A106A4I	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,387	05:0
885	96	249	07:56:08.066	117DF105A106A4J	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,388	15:0
886	96	249	07:56:15.400	117DF105A106A4K	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,388	26:0
887	96	249	07:57:22.733	117DF105A106A4L	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,389	36:0
888	96	249	07:57:30.066	117DF105A106A4M	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,389	47:0
889	96	249	07:58:37.400	117DF105A106A4N	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,390	57:0
890	96	249	07:58:44.733	117DF105A106A4O	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,390	68:0
891	96	249	07:59:52.038	G2JINGL0M0S05-	DESEL	300DF	JUPITER GLOBAL MOSAIC PART 5	2R7	4	5	:	:
892	96	249	07:59:52.066	117DF11A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	5	3,597,391	78:0
893	96	249	08:00:03.400	175DF6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	5	3,597,392	04:0
894	96	249	08:00:03.400	175DF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,597,392	04:0
895	96	249	08:00:03.400		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *5136.06 +/- 1	2R7	4	5	3,597,392	04:0
896	96	249	08:00:04.600	G2JINGL0M0S05-		-----STOP-----		2R7	4	5	:	:
897	96	249	08:44:56.066	165JR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,597,436	39:0
898	96	249	08:44:56.733	165JR4B	7SCAN	NORM,211.636999,	Check S/P Position	2R7	4	5	3,597,436	40:0
899	96	249	08:45:24.733	118JR	SMOS	GS		2R7	4	5	3,597,436	82:0
900	96	249	08:45:34.733	118JR110A11A4A	7STRP	0.00295,0.0,0.92,0	Slew = 1.21	2R7	4	5	3,597,437	06:0
901	96	249	08:45:52.066	175JR422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R7	4	5	3,597,437	32:0
902	96	249	08:46:00.133		DMS:	: *RUNUP	R115, TRACK 2, REV, TIC *5137.39 +/- 1	2R7	4	5	3,597,437	44:1
903	96	249	08:46:04.066	175JR176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R7	4	5	3,597,437	50:0
904	96	249	08:46:04.133		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5131.12 +/- 1	2R7	4	5	3,597,437	50:1
905	96	249	08:46:04.133		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *5131.12 +/- 1	2R7	4	5	3,597,437	50:1
906	96	249	08:46:05.400	118JR11A	SMOS	GE		2R7	4	5	3,597,437	52:0
907	96	249	08:46:32.066	175JR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	3,597,438	01:0
908	96	249	08:46:32.066		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *5032.92 +/- 1	2R7	4	5	3,597,438	01:0
909	96	249	08:46:32.066	165DG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,597,477	04:0
910	96	249	09:26:00.733	165DG4B	7SCAN	NORM,224.681,-14	Check S/P Position	2R7	4	5	3,597,477	05:0
911	96	249	09:27:00.600	G2JINGL0M0S06-		-----START-----		2R7	4	5	:	:
912	96	249	09:28:54.733	127DG	NIMSTAB	GS	%%%% GROUP START TAB	2R7	4	5	3,597,479	84:0
913	96	249	09:28:55.400	127DG4A	37ETB	07,C7,19,1F,E1,0	Loads wavelength edit table	2R7	4	5	3,597,479	85:0
914	96	249	09:29:03.400	127DG11A	NIMSTAB	GE	%%%% GROUP END TAB	2R7	4	5	3,597,480	06:0
915	96	249	09:29:54.066	175DG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	3,597,480	82:0
916	96	249	09:29:54.733	117DG	CSMOS	GS	**** GROUP START CSMOS	2R7	4	5	3,597,480	83:0
917	96	249	09:30:02.133		DMS:	: *RUNUP	R7, TRACK 2, REV, TIC *5033.40 +/- 2	2R7	4	5	3,597,481	03:1
918	96	249	09:30:03.600	175DG176A6A	6TMREC	LPD	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	3,597,481	05:3
919	96	249	09:30:03.600		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5033.28 +/- 2	2R7	4	5	3,597,481	05:3
920	96	249	09:30:03.600		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *5033.28 +/- 2	2R7	4	5	3,597,481	05:3
921	96	249	09:30:04.034	G2JINGL0M0S06-	NIMPBK	301DG	JUPITER GLOBAL MOSAIC PART 6	2R7	4	5	:	:
922	96	249	09:30:04.066	117DG105A106A4A	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,481	06:0
923	96	249	09:31:11.400	117DG105A106A4B	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,482	16:0
924	96	249	09:31:18.733	117DG105A106A4C	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,482	27:0
925	96	249	09:32:26.066	117DG105A106A4D	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,483	37:0
926	96	249	09:32:33.400	117DG105A106A4E	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,483	48:0
927	96	249	09:33:40.733	117DG105A106A4F	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,484	58:0
928	96	249	09:33:48.066	117DG105A106A4G	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,484	69:0
929	96	249	09:34:55.400	117DG105A106A4H	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,485	79:0
930	96	249	09:35:02.733	117DG105A106A4I	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,485	90:0
931	96	249	09:36:10.066	117DG105A106A4J	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,487	09:0
932	96	249	09:36:17.400	117DG105A106A4K	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,487	20:0
933	96	249	09:37:24.733	117DG105A106A4L	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,488	30:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
934	96	249	09:37:32.066	117DG105A106A4M	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,488.4	1.0
935	96	249	09:38:39.400	117DG105A106A4N	7STRP	0.038018,-0.0085	Slew =12.01	2R7	4	5	3,597,489.5	1.0
936	96	249	09:38:46.733	117DG105A106A4O	7STRP	-0.038018,0.0,0.0	Slew =0.76	2R7	4	5	3,597,489.6	2.0
937	96	249	09:39:54.034	G2JNGLGLOS06-	DESEL	300DG	JUPITER GLOBAL MOSAIC PART 6	2R7	4	5	:	:
938	96	249	09:39:54.066	117DG11A	CSMOS	GE	***** GROUP END CSMOS	2R7	4	5	3,597,490.7	2.0
939	96	249	09:40:04.066	175DG6A	6TMREC	NRC	NO RECORD Record Mode Change	2R7	4	5	3,597,490.8	7.0
940	96	249	09:40:04.066		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *4892.55 +/- 2	2R7	4	5	3,597,490.8	7.0
941	96	249	09:40:04.066	175DG422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R7	4	5	3,597,490.8	7.0
942	96	249	09:41:00.600	G2JNGLGLOS06-		----STOP-----		2R7	4	5	:	:
943	96	249	09:41:33.400	165DH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	5	3,597,492.3	9.0
944	96	249	09:41:34.066	165DH4B	7SCAN	NORM,211.880999,	Check SIP Position	2R7	4	5	3,597,492.4	0.0
945	96	249	09:42:12.000	G2HNDARK_02-		----START-----		2R7	4	5	:	:
946	96	249	09:46:06.066	127DH4A	37IOP	3.0	Long Map, Grating Start Position =0	2R3	4	0	3,597,496.8	4.0
947	96	249	09:46:06.066	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,597,496.8	4.0
948	96	249	09:46:06.733	127DH4B	37ETB	07,C7,05,FF,FF.3	Loads wavelength edit table	2R3	4	0	3,597,496.8	5.0
949	96	249	09:46:14.733	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,597,497.0	6.0
950	96	249	09:47:01.400	175DH422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,597,497.7	6.0
951	96	249	09:47:09.466		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *4893.88 +/- 2	2R3	4	0	3,597,497.8	8.1
952	96	249	09:47:10.733	175DH176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,597,497.9	0.0
953	96	249	09:47:10.933		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *4893.76 +/- 2	2R3	4	0	3,597,497.9	0.3
954	96	249	09:47:10.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4893.76 +/- 2	2R3	4	0	3,597,497.9	0.3
955	96	249	09:47:11.368	G2HNDARK_02-	NIMPBK	301DH	DARK SKY	2R3	4	0	:	:
956	96	249	09:48:12.034	G2HNDARK_02-	DESEL	300DH	DARK SKY	2R3	4	0	:	:
957	96	249	09:48:26.066	175DH6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,597,499.2	1.0
958	96	249	09:48:26.066	175DH422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,597,499.2	1.0
959	96	249	09:48:26.066		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *4876.15 +/- 2	2R3	4	0	3,597,499.2	1.0
960	96	249	09:49:16.667	G2HNDARK_02-		----STOP-----		2R3	4	0	:	:
961	96	249	09:54:42.066	165JS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,597,505.3	9.0
962	96	249	09:54:42.733	165JS4B	7SCAN	NORM,212.132,-11	Check SIP Position	2R3	4	0	3,597,505.4	0.0
963	96	249	09:55:10.733	118JS	SMOS	GS		2R3	4	0	3,597,505.8	2.0
964	96	249	09:55:20.733	118JS10A111A4A	7STRP	0.00296,0.0,92.0	Slew =,1.21	2R3	4	0	3,597,506.0	6.0
965	96	249	09:55:38.066	175JS422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3,597,506.3	2.0
966	96	249	09:55:46.133		DMS:	: *RUNUP	R115, TRACK *2, REV, TIC *4877.49 +/- 2	2R3	4	0	3,597,506.4	4.1
967	96	249	09:55:50.066	175JS176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,597,506.5	0.0
968	96	249	09:55:50.133		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 4871.22 +/- 2	2R3	4	0	3,597,506.5	0.1
969	96	249	09:55:50.133		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *4871.22 +/- 2	2R3	4	0	3,597,506.5	0.1
970	96	249	09:55:51.400	118JS11A	SMOS	GE		2R3	4	0	3,597,506.5	2.0
971	96	249	09:56:18.066	175JS422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,597,507.0	1.0
972	96	249	09:56:18.066		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *4773.01 +/- 2	2R3	4	0	3,597,507.0	1.0
973	96	249	10:00:23.400	165GF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,597,511.0	10.0
974	96	249	10:00:24.066	165GF4B	7SCAN	NORM,223.098,-15	Check SIP Position	2R3	4	0	3,597,511.0	6.0
975	96	249	10:02:16.733	117GF	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	3,597,512.8	4.0
976	96	249	10:02:26.066	117GF105A106A4A	7STRP	0.0,-0.0,0.22806,0.	Slew =0.17	2R3	4	0	3,597,513.0	7.0
977	96	249	10:03:44.066	488P6E	6TMSED	NORM,FL5	Sci, Eng, and D/L Chan	2R3	4	0	3,597,514.3	3.0
978	96	249	10:05:20.733	117GF105A106A4B	7STRP	0.0012,0.0,0.2806,	Slew =,17.3	2R3	4	0	3,597,515.8	7.0
979	96	249	10:05:40.733	117GF105A106A4C	7STRP	0.0,-0.0,0.22806,0.	Slew =0.17	2R3	4	0	3,597,516.2	6.0
980	96	249	10:08:35.400	117GF105A106A4D	7STRP	0.0012,0.0,0.2806,	Slew =,17.3	2R3	4	0	3,597,519.1	15.0
981	96	249	10:08:55.400	117GF105A106A4E	7STRP	0.0,-0.0,0.22806,0.	Slew =0.17	2R3	4	0	3,597,519.4	5.0
982	96	249	10:11:17.400	175KY422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,597,521.7	6.0
983	96	249	10:11:25.466		DMS:	: *RUNUP	R7, TRACK *2, REV, TIC *4773.49 +/- 2	2R3	4	0	3,597,521.8	8.1
984	96	249	10:11:26.733	175KY176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,597,521.9	0.0
985	96	249	10:11:26.933		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4773.37 +/- 2	2R3	4	0	3,597,521.9	0.3
986	96	249	10:11:26.933		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *4773.37 +/- 2	2R3	4	0	3,597,521.9	0.3
987	96	249	10:11:50.066	117GF105A106A4F	7STRP	0.0012,0.0,0.2806,	Slew =,17.3	2R3	4	0	3,597,522.3	4.0
988	96	249	10:12:10.066	117GF105A106A4G	7STRP	0.0,-0.0,0.22806,0.	Slew =0.17	2R3	4	0	3,597,522.6	4.0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
989	96	249	10:15:04.733	117GF105A106A4H	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,525:53.0	
990	96	249	10:15:24.733	117GF105A106A4I	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,525:83.0	
991	96	249	10:18:19.400	117GF105A106A4J	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,528:72.0	
992	96	249	10:18:39.400	117GF105A106A4K	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,529:11.0	
993	96	249	10:21:34.066	117GF105A106A4L	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,532:00.0	
994	96	249	10:21:54.066	117GF105A106A4M	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,532:30.0	
995	96	249	10:23:08.733	175KY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,597,533:51.0	
996	96	249	10:23:08.733		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *4608.89 +/- 2	2R3	4	0	3,597,533:51.0	
997	96	249	10:24:48.733	117GF105A106A4N	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,535:19.0	
998	96	249	10:25:08.733	117GF105A106A4O	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,535:49.0	
999	96	249	10:28:03.400	117GF105A106A4P	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,538:38.0	
1000	96	249	10:28:23.400	117GF105A106A4Q	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,538:68.0	
1001	96	249	10:30:00.066	488Q6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	3,597,540:31.0	
1002	96	249	10:31:18.066	117GF105A106A4R	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,541:57.0	
1003	96	249	10:31:38.066	117GF105A106A4S	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,541:87.0	
1004	96	249	10:34:32.733	117GF105A106A4T	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,544:76.0	
1005	96	249	10:34:52.733	117GF105A106A4U	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,545:15.0	
1006	96	249	10:37:47.400	117GF105A106A4V	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,548:04.0	
1007	96	249	10:38:07.400	117GF105A106A4W	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,548:34.0	
1008	96	249	10:41:22.066	117GF105A106A4X	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,551:23.0	
1009	96	249	10:41:22.066	117GF105A106A4Y	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,551:53.0	
1010	96	249	10:44:16.733	117GF105A106A4Z	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,554:42.0	
1011	96	249	10:44:36.733	117GF105A106A4AA	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,554:72.0	
1012	96	249	10:47:31.400	117GF105A106A4AB	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,557:61.0	
1013	96	249	10:47:51.400	117GF105A106A4AC	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,558:00.0	
1014	96	249	10:50:46.066	117GF105A106A4AD	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,560:80.0	
1015	96	249	10:51:06.066	117GF105A106A4AE	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,561:19.0	
1016	96	249	10:54:00.733	117GF105A106A4AF	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,564:08.0	
1017	96	249	10:54:20.733	117GF105A106A4AG	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,564:38.0	
1018	96	249	10:57:15.400	117GF105A106A4AH	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,567:27.0	
1019	96	249	10:57:35.400	117GF105A106A4AJ	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,567:57.0	
1020	96	249	11:00:30.066	117GF105A106A4AK	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,570:46.0	
1021	96	249	11:00:50.066	117GF105A106A4AL	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,570:76.0	
1022	96	249	11:03:44.733	117GF105A106A4AM	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,573:65.0	
1023	96	249	11:04:04.733	117GF105A106A4AN	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,574:04.0	
1024	96	249	11:06:59.400	117GF105A106A4AO	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,576:84.0	
1025	96	249	11:07:19.400	117GF105A106A4AP	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,577:23.0	
1026	96	249	11:10:14.066	117GF105A106A4AQ	7STRP	0.0012,0.022806,	Slew =,17.3	2R3	4	0	3,597,580:12.0	
1027	96	249	11:10:34.066	117GF105A106A4AR	7STRP	0.0,-0.022806,0,	Slew =,0.17	2R3	4	0	3,597,580:42.0	
1028	96	249	11:13:28.733	117GF11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,597,583:31.0	
1029	96	249	11:21:26.066	165JT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,597,591:19.0	
1030	96	249	11:21:26.733	165JT4B	7SCAN	NORM,213.192999,	Check S/P Position	2R3	4	0	3,597,591:20.0	
1031	96	249	11:22:08.066	118JT	SMOS	GS		2R3	4	0	3,597,591:82.0	
1032	96	249	11:22:18.066	118JT110A111A4A	7STRP	0.00296,0.0,92.0	Slew =,1.21	2R3	4	0	3,597,592:06.0	
1033	96	249	11:22:35.400	175JT422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3,597,592:32.0	
1034	96	249	11:22:43.466		DMS:	: *RUNUP	R115, TRACK 2, *REV, TIC *4610.22 +/- 2	2R3	4	0	3,597,592:44.1	
1035	96	249	11:22:47.466		DMS:	: *RECORD	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,597,592:50.0	
1036	96	249	11:22:47.466		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC *4603.95 +/- 3	2R3	4	0	3,597,592:50.1	
1037	96	249	11:22:47.466		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC *4603.95 +/- 3	2R3	4	0	3,597,592:50.1	
1038	96	249	11:22:48.733	118JT11A	SMOS	GE		2R3	4	0	3,597,592:52.0	
1039	96	249	11:23:28.066	175JT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,597,593:20.0	
1040	96	249	11:23:28.066		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *4461.22 +/- 3	2R3	4	0	3,597,593:20.0	
1041	96	249	11:28:16.733	165CI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,597,597:89.0	
1042	96	249	11:28:17.400	165CI4B	7SCAN	NORM,243.573,-19	Check S/P Position	2R3	4	0	3,597,597:90.0	
1043	96	249	12:39:03.400	165JU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,597,597:89.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1044	96	249	12:39:04.066	165JU4B	7SCAN	NORM,214.535999,	Check S/P Position	2R3	4	0	3,597,667:90:0	
1045	96	249	12:39:59.400	118JU	SMOS	GS		2R3	4	0	3,597,668:82:0	
1046	96	249	12:40:09.400	118JU110A111A4A	7STRP	0.00298,0.0,0.92,0	Slew =,1.21	2R3	4	0	3,597,669:06:0	
1047	96	249	12:40:26.733	175JU422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3,597,669:32:0	
1048	96	249	12:40:34.800		DMS:	:*RUNUP	R115, TRACK 2, *REV, TIC *4461.70 +/- 3	2R3	4	0	3,597,669:44:1	
1049	96	249	12:40:38.733	175JU176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,597,669:50:0	
1050	96	249	12:40:38.800		DMS:	:*RECORD	R115, TRACK 2, REV, TIC *4455.43 +/- 3	2R3	4	0	3,597,669:50:1	
1051	96	249	12:40:38.800		DMS:	:*AT_SPD	R115, TRACK 2, REV, TIC 4455.43 +/- 3	2R3	4	0	3,597,669:50:1	
1052	96	249	12:40:40.066	118JU11A	SMOS	GE		2R3	4	0	3,597,669:52:0	
1053	96	249	12:41:06.066		DMS:	:*RUNDOWN	R115, TRACK 2, REV, TIC *4359.57 +/- 3	2R3	4	0	3,597,670:00:0	
1054	96	249	12:41:06.066	175JU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,597,670:00:0	
1055	96	249	14:00:32.066	488Q6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	3,597,748:51:0	
1056	96	249	14:03:32.733	165JV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,597,751:49:0	
1057	96	249	14:03:33.400	165JV4B	7SCAN	NORM,216.363998,	Check S/P Position	2R3	4	0	3,597,751:50:0	
1058	96	249	14:03:54.733	118JV	SMOS	GS		2R3	4	0	3,597,751:82:0	
1059	96	249	14:04:04.733	118JV110A111A4A	7STRP	0.00299,0.0,0.92,0	Slew =,1.21	2R3	4	0	3,597,752:06:0	
1060	96	249	14:04:22.066	175JV422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3,597,752:32:0	
1061	96	249	14:04:30.133		DMS:	:*RUNUP	R115, TRACK 2, *REV, TIC *4360.05 +/- 3	2R3	4	0	3,597,752:44:1	
1062	96	249	14:04:34.066	175JV176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,597,752:50:0	
1063	96	249	14:04:34.133		DMS:	:*AT_SPD	R115, TRACK 2, REV, TIC 4363.78 +/- 3	2R3	4	0	3,597,752:50:1	
1064	96	249	14:04:34.133		DMS:	:*RECORD	R115, TRACK 2, REV, TIC *4353.78 +/- 3	2R3	4	0	3,597,752:50:1	
1065	96	249	14:04:35.400	118JV11A	SMOS	GE		2R3	4	0	3,597,752:52:0	
1066	96	249	14:05:01.400		DMS:	:*RUNDOWN	R115, TRACK 2, REV, TIC *4257.92 +/- 3	2R3	4	0	3,597,753:00:0	
1067	96	249	14:05:01.400	175JV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,597,753:00:0	
1068	96	249	15:06:44.733	488Q6C	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	2R3	4	0	3,597,814:04:0	
1069	96	249	15:08:48.066	488Q6D	6TMSED	FILL,EL2	Sci, Eng, and D/L Chan	2R3	4	0	3,597,816:07:0	
1070	96	249	15:30:00.066	488Q6E	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3,597,837:04:0	
1071	96	249	15:30:30.066	165JV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,597,837:49:0	
1072	96	249	15:30:30.733	165JV4B	7SCAN	NORM,218.637999,	Check S/P Position	2R3	4	0	3,597,837:50:0	
1073	96	249	15:30:52.066	118JV	SMOS	GS		2R3	4	0	3,597,837:82:0	
1074	96	249	15:31:02.066	118JV110A111A4A	7STRP	0.003,0.0,0.92,0,0	Slew =,1.21	2R3	4	0	3,597,838:06:0	
1075	96	249	15:31:19.400	175JV422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3,597,838:32:0	
1076	96	249	15:31:27.466		DMS:	:*RUNUP	R115, TRACK 2, *REV, TIC *4258.40 +/- 3	2R3	4	0	3,597,838:44:1	
1077	96	249	15:31:31.400	175JV176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,597,838:50:0	
1078	96	249	15:31:31.466		DMS:	:*AT_SPD	R115, TRACK 2, REV, TIC 4252.13 +/- 3	2R3	4	0	3,597,838:50:1	
1079	96	249	15:31:31.466		DMS:	:*RECORD	R115, TRACK 2, REV, TIC *4252.13 +/- 3	2R3	4	0	3,597,838:50:1	
1080	96	249	15:31:32.733	118JV11A	SMOS	GE		2R3	4	0	3,597,838:52:0	
1081	96	249	15:31:58.733	175JV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,597,839:00:0	
1082	96	249	15:31:58.733		DMS:	:*RUNDOWN	R115, TRACK 2, REV, TIC *4156.27 +/- 3	2R3	4	0	3,597,839:00:0	
1083	96	249	15:51:48.666	488R6A	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3,597,858:56:0	
1084	96	249	16:21:20.666	488R6B	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R3	4	0	3,597,887:75:0	
1085	96	249	16:53:27.333	488R6C	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	2R3	4	0	3,597,919:53:0	
1086	96	249	17:00:00.667	G2NNRECOV002-		-----START-----		2R3	4	0	:	:
1087	96	249	17:00:52.666	127EX	NIMSTAB	GS	%%%%GROUP START TAB	2R3	4	0	3,597,926:84:0	
1088	96	249	17:00:53.333	127EX4A	37ETB	07,C7,02,80,44,3	Loads wavelength edit table	2R3	4	0	3,597,926:85:0	
1089	96	249	17:01:01.333	127EX11A	NIMSTAB	GE	%%%%GROUP END TAB	2R3	4	0	3,597,927:06:0	
1090	96	249	17:01:17.333	432DF6A	6RTSL2	NIMSEL,AAACNCG,RT	NIMS R/T SELECT	2R3	4	0	3,597,927:30:0	
1091	96	249	17:01:30.000	165JX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,597,927:49:0	
1092	96	249	17:01:30.666	165JX4B	7SCAN	NORM,221.390999,	Check S/P Position	2R3	4	0	3,597,927:50:0	
1093	96	249	17:01:52.000	118JX	SMOS	GS		2R3	4	0	3,597,927:82:0	
1094	96	249	17:02:02.000	118JX110A111A4A	7STRP	0.00302,0.0,0.92,0	Slew =,1.21	2R3	4	0	3,597,928:06:0	
1095	96	249	17:02:16.666	432DG6A	6RTDS2	NIMDSL,AAACNCG,RT	NIMS R/T DESELECT	2R3	4	0	3,597,928:28:0	
1096	96	249	17:02:19.333	175JV422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3,597,928:32:0	
1097	96	249	17:02:27.400		DMS:	:*RUNUP	R115, TRACK 2, *REV, TIC *4156.74 +/- 4	2R3	4	0	3,597,928:44:1	
1098	96	249	17:02:29.333	G2NNRECOV002-		-----STOP-----		2R3	4	0	:	:



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1099	96	249	17:02:31.333	175JX176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,597,928:50:0	
1100	96	249	17:02:31.400		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *4150.48 +/- 4	2R3	4	0	3,597,928:50:1	
1101	96	249	17:02:31.400		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 4150.48 +/- 4	2R3	4	0	3,597,928:50:1	
1102	96	249	17:02:32.666	118JX11A	SMOS	GE		2R3	4	0	3,597,928:52:0	
1103	96	249	17:02:58.666	175JX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,597,929:00:0	
1104	96	249	17:02:58.666		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *4054.62 +/- 4	2R3	4	0	3,597,929:00:0	
1105	96	249	17:30:15.333	488R6D	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R3	4	0	3,597,955:89:0	
1106	96	249	18:31:28.666	488R6E	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3,598,016:48:0	
1107	96	249	18:33:30.666	165JY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,598,018:49:0	
1108	96	249	18:33:31.333	165JY4B	7SCAN	NORM,224.525,-16	Check S/P Position	2R3	4	0	3,598,018:50:0	
1109	96	249	18:33:52.666	118JY	SMOS	GS		2R3	4	0	3,598,018:82:0	
1110	96	249	18:34:02.666	118JY110A11A4A	7STRP	0.00304,0.0,0.92,0	Slew = 1.21	2R3	4	0	3,598,019:06:0	
1111	96	249	18:34:20.000	175JY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,598,019:32:0	
1112	96	249	18:34:28.066		DMS:	: *RUNUP	R115, TRACK 2, REV, TIC *4055.09 +/- 4	2R3	4	0	3,598,019:44:1	
1113	96	249	18:34:32.000	175JY176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,598,019:50:0	
1114	96	249	18:34:32.066		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 4048.82 +/- 4	2R3	4	0	3,598,019:50:1	
1115	96	249	18:34:32.066		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *4048.82 +/- 4	2R3	4	0	3,598,019:50:1	
1116	96	249	18:34:33.333	118JY11A	SMOS	GE		2R3	4	0	3,598,019:52:0	
1117	96	249	18:34:59.333	175JY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,598,020:00:0	
1118	96	249	18:34:59.333		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *3952.96 +/- 4	2R3	4	0	3,598,020:00:0	
1119	96	249	19:35:28.666	488S6A	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R3	4	0	3,598,079:75:0	
1120	96	249	20:09:34.000	165JZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,598,113:49:0	
1121	96	249	20:09:34.666	165JZ4B	7SCAN	NORM,228.129,-18	Check S/P Position	2R3	4	0	3,598,113:50:0	
1122	96	249	20:09:56.000	118JZ	SMOS	GS		2R3	4	0	3,598,113:82:0	
1123	96	249	20:10:06.000	118JZ110A11A4A	7STRP	0.00308,0.0,0.92,0	Slew = 1.21	2R3	4	0	3,598,114:06:0	
1124	96	249	20:10:23.333	175JZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,598,114:32:0	
1125	96	249	20:10:31.400		DMS:	: *RUNUP	R115, TRACK 2, REV, TIC *3953.44 +/- 4	2R3	4	0	3,598,114:44:1	
1126	96	249	20:10:35.333	175JZ176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,598,114:50:0	
1127	96	249	20:10:35.400		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *3947.17 +/- 4	2R3	4	0	3,598,114:50:1	
1128	96	249	20:10:35.400		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 3947.17 +/- 4	2R3	4	0	3,598,114:50:1	
1129	96	249	20:10:36.666	118JZ11A	SMOS	GE		2R3	4	0	3,598,114:52:0	
1130	96	249	20:11:02.666	175JZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,598,115:00:0	
1131	96	249	20:11:02.666		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *3851.31 +/- 4	2R3	4	0	3,598,115:00:0	
1132	96	249	20:11:06.000	165GG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,598,115:05:0	
1133	96	249	20:11:06.666	165GG4B	7SCAN	NORM,233.053999,	Check S/P Position	2R3	4	0	3,598,115:06:0	
1134	96	249	20:15:00.666	117GG	CSMOS	GS	*** GROUP START CSMOS	2R3	4	0	3,598,118:84:0	
1135	96	249	20:15:10.000	117GG105A106A4A	7STRP	0.0,-0.021007,0,	Slew = 0.41	2R3	4	0	3,598,119:07:0	
1136	96	249	20:16:51.333	117GG105A106A4B	7STRP	0.0011,0.021007,	Slew = 17.3	2R3	4	0	3,598,120:68:0	
1137	96	249	20:17:08.000	117GG105A106A4C	7STRP	0.0,-0.021007,0,	Slew = 0.41	2R3	4	0	3,598,121:02:0	
1138	96	249	20:18:49.333	117GG105A106A4D	7STRP	0.0011,0.021007,	Slew = 17.3	2R3	4	0	3,598,122:63:0	
1139	96	249	20:19:06.000	117GG105A106A4E	7STRP	0.0,-0.021007,0,	Slew = 0.41	2R3	4	0	3,598,122:88:0	
1140	96	249	20:20:47.333	117GG105A106A4F	7STRP	0.0011,0.021007,	Slew = 17.3	2R3	4	0	3,598,124:58:0	
1141	96	249	20:21:04.000	117GG105A106A4G	7STRP	0.0,-0.021007,0,	Slew = 0.41	2R3	4	0	3,598,124:83:0	
1142	96	249	20:22:45.333	117GG105A106A4H	7STRP	0.0011,0.021007,	Slew = 17.3	2R3	4	0	3,598,126:53:0	
1143	96	249	20:23:02.000	117GG105A106A4I	7STRP	0.0,-0.021007,0,	Slew = 0.41	2R3	4	0	3,598,126:78:0	
1144	96	249	20:24:43.333	117GG105A106A4J	7STRP	0.0011,0.021007,	Slew = 17.3	2R3	4	0	3,598,128:48:0	
1145	96	249	20:25:00.000	117GG105A106A4K	7STRP	0.0,-0.021007,0,	Slew = 0.41	2R3	4	0	3,598,128:73:0	
1146	96	249	20:26:41.333	117GG105A106A4L	7STRP	0.0011,0.021007,	Slew = 17.3	2R3	4	0	3,598,130:43:0	
1147	96	249	20:26:58.000	117GG105A106A4M	7STRP	0.0,-0.021007,0,	Slew = 0.41	2R3	4	0	3,598,130:68:0	
1148	96	249	20:28:39.333	117GG105A106A4N	7STRP	0.0011,0.021007,	Slew = 17.3	2R3	4	0	3,598,132:38:0	
1149	96	249	20:28:56.000	117GG105A106A4O	7STRP	0.0,-0.021007,0,	Slew = 0.41	2R3	4	0	3,598,132:63:0	
1150	96	249	20:30:37.333	117GG105A106A4P	7STRP	0.0011,0.021007,	Slew = 17.3	2R3	4	0	3,598,134:33:0	
1151	96	249	20:30:54.000	117GG105A106A4Q	7STRP	0.0,-0.021007,0,	Slew = 0.41	2R3	4	0	3,598,134:58:0	
1152	96	249	20:32:35.333	117GG105A106A4R	7STRP	0.0011,0.021007,	Slew = 17.3	2R3	4	0	3,598,136:28:0	
1153	96	249	20:32:52.000	117GG105A106A4S	7STRP	0.0,-0.021007,0,	Slew = 0.41	2R3	4	0	3,598,136:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1154	96	249	20:34:33.333	117GG105A106A4T	7STRP	0.0011,0.021007,	Slew =,17.3	2R3	4	0	3,598,138:23.0	
1155	96	249	20:34:50.000	117GG105A106A4U	7STRP	0.0,-0.021007,0,	Slew =,0.41	2R3	4	0	3,598,138:48.0	
1156	96	249	20:36:31.333	117GG105A106A4V	7STRP	0.0011,0.021007,	Slew =,17.3	2R3	4	0	3,598,140:18.0	
1157	96	249	20:36:48.000	117GG105A106A4W	7STRP	0.0,-0.021007,0,	Slew =,0.41	2R3	4	0	3,598,140:43.0	
1158	96	249	20:38:29.333	117GG105A106A4X	7STRP	0.0011,0.021007,	Slew =,17.3	2R3	4	0	3,598,142:13.0	
1159	96	249	20:38:46.000	117GG105A106A4Y	7STRP	0.0,-0.021007,0,	Slew =,0.41	2R3	4	0	3,598,142:38.0	
1160	96	249	20:40:27.333	117GG105A106A4Z	7STRP	0.0011,0.021007,	Slew =,17.3	2R3	4	0	3,598,144:08.0	
1161	96	249	20:40:44.000	117GG105A106A4AA	7STRP	0.0,-0.021007,0,	Slew =,0.41	2R3	4	0	3,598,144:33.0	
1162	96	249	20:42:25.333	117GG105A106A4AB	7STRP	0.0011,0.021007,	Slew =,17.3	2R3	4	0	3,598,146:03.0	
1163	96	249	20:42:42.000	117GG105A106A4AC	7STRP	0.0,-0.021007,0,	Slew =,0.41	2R3	4	0	3,598,146:28.0	
1164	96	249	20:44:23.333	117GG105A106A4AD	7STRP	0.0011,0.021007,	Slew =,17.3	2R3	4	0	3,598,147:89.0	
1165	96	249	20:44:40.000	117GG105A106A4AE	7STRP	0.0,-0.021007,0,	Slew =,0.41	2R3	4	0	3,598,148:23.0	
1166	96	249	20:46:21.333	117GG105A106A4AF	7STRP	0.0011,0.021007,	Slew =,17.3	2R3	4	0	3,598,149:84.0	
1167	96	249	20:46:38.000	117GG105A106A4AG	7STRP	0.0,-0.021007,0,	Slew =,0.41	2R3	4	0	3,598,150:18.0	
1168	96	249	20:48:19.333	117GG105A106A4AH	7STRP	0.0011,0.021007,	Slew =,17.3	2R3	4	0	3,598,151:79.0	
1169	96	249	20:48:36.000	117GG105A106A4AJ	7STRP	0.0,-0.021007,0,	Slew =,0.41	2R3	4	0	3,598,152:13.0	
1170	96	249	20:50:17.333	117GG105A106A4AK	7STRP	0.0011,0.021007,	Slew =,17.3	2R3	4	0	3,598,153:74.0	
1171	96	249	20:50:34.000	117GG105A106A4AL	7STRP	0.0,-0.021007,0,	Slew =,0.41	2R3	4	0	3,598,154:08.0	
1172	96	249	20:52:15.333	117GG105A106A4AM	7STRP	0.0011,0.021007,	Slew =,17.3	2R3	4	0	3,598,155:69.0	
1173	96	249	20:52:32.000	117GG105A106A4AN	7STRP	0.0,-0.021007,0,	Slew =,0.41	2R3	4	0	3,598,156:03.0	
1174	96	249	20:54:13.333	117GG11A	CSMOS	GE	*** GROUP END CSMOS	2R3	4	0	3,598,157:64.0	
1175	96	249	21:18:50.666	165GH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,598,182:05.0	
1176	96	249	21:18:51.333	165GH4B	7SCAN	NORM,232,407999,	Check S/P Position	2R3	4	0	3,598,182:06.0	
1177	96	249	21:22:45.333	117GH	CSMOS	GS	*** GROUP START CSMOS	2R3	4	0	3,598,185:84.0	
1178	96	249	21:22:54.666	117GH105A106A4A	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,186:07.0	
1179	96	249	21:28:30.000	117GH105A106A4B	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,191:55.0	
1180	96	249	21:28:46.666	117GH105A106A4C	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,191:80.0	
1181	96	249	21:34:22.000	117GH105A106A4D	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,197:37.0	
1182	96	249	21:34:38.666	117GH105A106A4E	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,197:62.0	
1183	96	249	21:40:14.000	117GH105A106A4F	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,203:19.0	
1184	96	249	21:40:30.666	117GH105A106A4G	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,203:44.0	
1185	96	249	21:46:06.000	117GH105A106A4H	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,209:01.0	
1186	96	249	21:46:22.666	117GH105A106A4I	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,209:26.0	
1187	96	249	21:51:58.000	117GH105A106A4J	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,214:74.0	
1188	96	249	21:52:14.666	117GH105A106A4K	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,215:08.0	
1189	96	249	21:54:08.666	488S6B	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3,598,216:88.0	
1190	96	249	21:57:50.000	117GH105A106A4L	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,220:56.0	
1191	96	249	21:58:06.666	117GH105A106A4M	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,220:81.0	
1192	96	249	22:03:42.000	117GH105A106A4N	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,226:38.0	
1193	96	249	22:03:58.666	117GH105A106A4O	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,226:63.0	
1194	96	249	22:09:34.000	117GH105A106A4P	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,232:20.0	
1195	96	249	22:09:50.666	117GH105A106A4Q	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,232:45.0	
1196	96	249	22:15:26.000	117GH105A106A4R	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,238:02.0	
1197	96	249	22:15:42.666	117GH105A106A4S	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,238:27.0	
1198	96	249	22:19:28.666	488S6C	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3,598,242:02.0	
1199	96	249	22:21:18.000	117GH105A106A4T	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,243:75.0	
1200	96	249	22:21:34.666	117GH105A106A4U	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,244:09.0	
1201	96	249	22:27:10.000	117GH105A106A4V	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,249:57.0	
1202	96	249	22:27:26.666	117GH105A106A4W	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,249:82.0	
1203	96	249	22:33:02.000	117GH105A106A4X	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,255:39.0	
1204	96	249	22:33:18.666	117GH105A106A4Y	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,255:64.0	
1205	96	249	22:38:54.000	117GH105A106A4Z	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,261:21.0	
1206	96	249	22:39:10.666	117GH105A106A4AA	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,261:46.0	
1207	96	249	22:44:46.000	117GH105A106A4AB	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3,598,267:03.0	
1208	96	249	22:45:02.666	117GH105A106A4AC	7STRP	0.0,-0.022108,0,	Slew =,0.1	2R3	4	0	3,598,267:28.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	96	249	22:50:38.000	117GH105A106A4AD	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3.598,272:76.0	
1210	96	249	22:50:54.666	117GH105A106A4AE	7STRP	0.0,-0.022108.0,	Slew =0,0.1	2R3	4	0	3.598,273:10.0	
1211	96	249	22:56:30.000	117GH105A106A4AF	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3.598,278:58.0	
1212	96	249	22:56:46.666	488S6D	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3.598,278:83.0	
1213	96	249	22:56:46.666	117GH105A106A4AG	7STRP	0.0,-0.022108.0,	Slew =0,0.1	2R3	4	0	3.598,278:83.0	
1214	96	249	23:02:22.000	117GH105A106A4AH	7STRP	0.0011,0.022008,	Slew =,17.3	2R3	4	0	3.598,284:40.0	
1215	96	249	23:02:38.666	117GH105A106A4AI	7STRP	0.0,-0.022108.0,	Slew =0,0.1	2R3	4	0	3.598,284:65.0	
1216	96	249	23:08:14.000	117GH11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3.598,290:22.0	
1217	96	249	23:15:12.666	488S6E	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R3	4	0	3.598,297:13.0	
1218	96	249	23:43:29.333	488T6A	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	2R3	4	0	3.598,325:10.0	
1219	96	250	00:12:48.666	488T6B	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3.598,354:10.0	
1220	96	250	00:35:32.666	488T6C	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3.598,376:54.0	
1221	96	250	01:09:52.000	165IU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3.598,410:49.0	
1222	96	250	01:09:52.666	165IU4B	7SCAN	NORM,241.195999,	Check S/P Position	2R3	4	0	3.598,410:50.0	
1223	96	250	01:10:14.000	118IU	SMOS	GS		2R3	4	0	3.598,410:82.0	
1224	96	250	01:10:24.000	118IU10A111A4A	7STRP	0.00326,0.0,92.0	Slew =,1.21	2R3	4	0	3.598,411:06.0	
1225	96	250	01:10:41.333	175IU422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3.598,411:32.0	
1226	96	250	01:10:49.400		DMS:	: *RUNUP	R115, TRACK 2, REV, TIC *3851.79 +/- 4	2R3	4	0	3.598,411:44:1	
1227	96	250	01:10:53.333	175IU176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3.598,411:50.0	
1228	96	250	01:10:53.400		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *3845.52 +/- 4	2R3	4	0	3.598,411:50:1	
1229	96	250	01:10:53.400		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 3845.52 +/- 5	2R3	4	0	3.598,411:50:1	
1230	96	250	01:10:54.666	118IU11A	SMOS	GE		2R3	4	0	3.598,411:52.0	
1231	96	250	01:11:20.666		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *3749.66 +/- 5	2R3	4	0	3.598,412:00.0	
1232	96	250	01:11:20.666	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3.598,412:00.0	
1233	96	250	02:53:00.000	165IV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3.598,512:49.0	
1234	96	250	02:53:00.666	165IV4B	7SCAN	NORM,246.171,-22	Check S/P Position	2R3	4	0	3.598,512:50.0	
1235	96	250	02:53:22.000	118IV	SMOS	GS		2R3	4	0	3.598,512:82.0	
1236	96	250	02:53:32.000	118IV10A111A4A	7STRP	0.00335,0.0,92.0	Slew =,1.21	2R3	4	0	3.598,513:06.0	
1237	96	250	02:53:49.333	175IV422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3.598,513:32.0	
1238	96	250	02:53:57.400		DMS:	: *RUNUP	R115, TRACK 2, REV, TIC *3750.14 +/- 5	2R3	4	0	3.598,513:44:1	
1239	96	250	02:54:01.333	175IV176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3.598,513:50.0	
1240	96	250	02:54:01.400		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 3743.87 +/- 5	2R3	4	0	3.598,513:50:1	
1241	96	250	02:54:01.400		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *3743.87 +/- 5	2R3	4	0	3.598,513:50:1	
1242	96	250	02:54:02.666		SMOS	GE		2R3	4	0	3.598,513:52.0	
1243	96	250	02:54:28.666		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *3648.01 +/- 5	2R3	4	0	3.598,514:00.0	
1244	96	250	02:54:28.666	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3.598,514:00.0	
1245	96	250	03:37:00.000	165GI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3.598,556:05.0	
1246	96	250	03:37:00.666	165GI4B	7SCAN	NORM,240.698999,	Check S/P Position	2R3	4	0	3.598,556:06.0	
1247	96	250	03:40:54.666	117GI	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	3.598,559:84.0	
1248	96	250	03:41:04.000	117GI105A106A4A	7STRP	0.012001,-0.1020	Slew =0,0.15	2R3	4	0	3.598,560:07.0	
1249	96	250	03:50:35.333	488T6D	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3.598,569:45.0	
1250	96	250	04:02:18.000	117GI11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3.598,581:07.0	
1251	96	250	04:20:33.333	488T6E	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3.598,599:12.0	
1252	96	250	06:24:06.000	165IW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3.598,721:29.0	
1253	96	250	06:24:06.666	165IW4B	7SCAN	NORM,256.843998,	Check S/P Position	2R3	4	0	3.598,721:30.0	
1254	96	250	06:24:41.333	118IW	SMOS	GS		2R3	4	0	3.598,721:82.0	
1255	96	250	06:24:51.333	118IW10A111A4A	7STRP	0.00358,0.0,92.0	Slew =,1.21	2R3	4	0	3.598,722:06.0	
1256	96	250	06:25:08.666	175IW422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3.598,722:32.0	
1257	96	250	06:25:16.733		DMS:	: *RUNUP	R115, TRACK 2, REV, TIC *3648.49 +/- 5	2R3	4	0	3.598,722:44:1	
1258	96	250	06:25:20.666	175IW176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3.598,722:50.0	
1259	96	250	06:25:20.733		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *3642.22 +/- 5	2R3	4	0	3.598,722:50:1	
1260	96	250	06:25:20.733		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 3642.22 +/- 5	2R3	4	0	3.598,722:50:1	
1261	96	250	06:25:22.000	118IW11A	SMOS	GE		2R3	4	0	3.598,722:52.0	
1262	96	250	06:25:48.666	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3.598,723:01.0	
1263	96	250	06:25:48.666		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *3544.02 +/- 5	2R3	4	0	3.598,723:01.0	

Line	YR	DOY	SCET	GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1264	96	250	07:17:57.933		G2JNTHRMNS03-165DK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	:	:
1265	96	250	07:17:58.000		165DK4A	7SCAN	NORM,246.441999,	Check S/P Position	2R3	4	0	3,598,774:54:0	
1266	96	250	07:17:58.666		165DK4B	NIMSTAB	GS	Load wavelenght edit table	2R3	4	0	3,598,777:84:0	
1267	96	250	07:21:20.000		127DK	37ETB	GE	DMS Control Tape runup 7.68kps	2R3	4	0	3,598,778:06:0	
1268	96	250	07:21:20.666		127DK4A	6DMSC	R7.0	**** GROUP START CSMOS	2R3	4	0	3,598,778:41:0	
1269	96	250	07:21:28.666		127DK11A	CSMOS	GS	R7, TRACK *2, *REV, TIC *3544.50 +/- 5	2R3	4	0	3,598,778:42:0	
1270	96	250	07:21:52.000		175DK422A6A	DMS:	: *RUNUP	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,598,778:53:1	
1271	96	250	07:21:52.666		117DK	6TMREC	LPU	R7, TRACK 2, REV, TIC *3544.38 +/- 5	2R3	4	0	3,598,778:55:3	
1272	96	250	07:22:00.666		175DK176A6A	DMS:	: *AT SPD	R7, TRACK 2, REV, TIC 3544.38 +/- 5	2R3	4	0	3,598,778:55:3	
1273	96	250	07:22:01.333		175DK176A6A	DMS:	: *AT SPD	JUPITER THERMAL NORTH-SOUTH STRI	2R3	4	0	:	:
1274	96	250	07:22:01.533		175DK176A6A	DMS:	: *AT SPD	Slew = 0.04	2R3	4	0	3,598,778:56:0	
1275	96	250	07:22:01.533		175DK176A6A	DMS:	: *AT SPD	Slew = 12.01	2R3	4	0	3,598,780:30:0	
1276	96	250	07:22:01.987		G2JNTHRMNS03-117DK105A106A4A	NIMPBK	301DK	Slew = 0.04	2R3	4	0	3,598,782:22:0	
1277	96	250	07:22:02.000		117DK105A106A4A	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,782:40:0	
1278	96	250	07:23:46.000		117DK105A106A4B	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,784:14:0	
1279	96	250	07:23:46.000		117DK105A106A4C	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,788:16:0	
1280	96	250	07:23:58.000		117DK105A106A4D	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,791:73:0	
1281	96	250	07:25:54.000		117DK105A106A4E	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,792:00:0	
1282	96	250	07:27:38.000		117DK105A106A4F	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,793:65:0	
1283	96	250	07:27:50.000		117DK105A106A4G	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,795:57:0	
1284	96	250	07:27:54.653		G2JNTHRMNS03-117DK105A106A4H	DESEL	300DK	Slew = 0.04	2R3	4	0	3,598,799:41:0	
1285	96	250	07:29:34.000		117DK105A106A4H	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,799:59:0	
1286	96	250	07:29:46.000		117DK105A106A4I	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,801:33:0	
1287	96	250	07:31:30.000		117DK105A106A4J	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,801:51:0	
1288	96	250	07:31:32.000		117DK105A106A4K	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,803:25:0	
1289	96	250	07:33:26.000		117DK105A106A4L	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1290	96	250	07:33:38.000		117DK105A106A4M	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1291	96	250	07:35:22.000		117DK105A106A4N	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1292	96	250	07:35:34.000		117DK105A106A4O	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1293	96	250	07:37:18.000		117DK105A106A4P	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1294	96	250	07:37:30.000		117DK105A106A4Q	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1295	96	250	07:39:14.000		117DK105A106A4R	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1296	96	250	07:39:26.000		117DK105A106A4S	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1297	96	250	07:41:10.000		117DK105A106A4T	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1298	96	250	07:41:22.000		117DK105A106A4U	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1299	96	250	07:43:06.000		117DK105A106A4V	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1300	96	250	07:43:18.000		117DK105A106A4W	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1301	96	250	07:45:02.000		117DK105A106A4X	7STRP	0.0052,-0.008001	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1302	96	250	07:45:14.000		117DK105A106A4Y	7STRP	-0.0039,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,803:42:0	
1303	96	250	07:46:58.000		117DK11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,598,803:42:0	
1304	96	250	07:47:09.333		175DK6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,598,803:42:0	
1305	96	250	07:47:09.333		175DK422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,598,803:42:0	
1306	96	250	07:47:09.333		175DK422A6B	DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *3190.99 +/- 5	2R3	4	0	3,598,803:42:0	
1307	96	250	07:47:59.267		G2JNTHRMNS03-165IX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	:	:
1308	96	250	08:10:16.000		165IX4A	7SCAN	NORM,262.320999,	Check S/P Position	2R3	4	0	3,598,826:29:0	
1309	96	250	08:10:16.666		165IX4B	SMOS	GS		2R3	4	0	3,598,826:30:0	
1310	96	250	08:10:51.333		118IX	7STRP	0.00374,0.0,92.0	Slew = 1.21	2R3	4	0	3,598,827:06:0	
1311	96	250	08:11:01.333		118IX110A11A4A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3,598,827:32:0	
1312	96	250	08:11:18.666		175IX422A6A	DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *3192.32 +/- 5	2R3	4	0	3,598,827:44:1	
1313	96	250	08:11:26.733		175IX176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,598,827:50:1	
1314	96	250	08:11:30.666		175IX176A6A	DMS:	: *AT SPD	R115, TRACK 2, REV, TIC 3186.05 +/- 6	2R3	4	0	3,598,827:50:1	
1315	96	250	08:11:30.733		118IX11A	DMS:	: *RECORD	R115, TRACK 2, REV, TIC *3186.05 +/- 5	2R3	4	0	3,598,827:50:1	
1316	96	250	08:11:30.733		118IX11A	SMOS	GE		2R3	4	0	3,598,827:52:0	
1317	96	250	08:11:32.000		175IX422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,598,828:00:0	
1318	96	250	08:11:58.000		175IX422A6B	6DMSC	RDY.0		2R3	4	0	3,598,828:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1319	96	250	08:11:58.000		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *3090.19 +/- 6	2R3	4	0	3,598,928:00:0	
1320	96	250	08:46:19.333	165CJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,598,961:89:0	
1321	96	250	08:46:20.000	165CJ4B	7SCAN	NORM,226.938,-17	Check S/P Position	2R3	4	0	3,598,961:90:0	
1322	96	250	09:53:03.333	165IY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,598,927:89:0	
1323	96	250	09:53:04.000	165IY4B	7SCAN	NORM,267.619999,	Check S/P Position	2R3	4	0	3,598,927:90:0	
1324	96	250	09:53:59.333	118IY	SMOS	GS		2R3	4	0	3,598,928:82:0	
1325	96	250	09:54:09.333	118IY110A111A4A	7STRP	0.00393,0.0,0.92,0	Slew = 1.21	2R3	4	0	3,598,929:06:0	
1326	96	250	09:54:26.666	175IY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,598,929:32:0	
1327	96	250	09:54:34.733		DMS:	: *RUNUP	R115, TRACK 2, REV, TIC *3090.67 +/- 6	2R3	4	0	3,598,929:44:1	
1328	96	250	09:54:38.666	175IY176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3,598,929:50:0	
1329	96	250	09:54:38.733		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *3084.40 +/- 6	2R3	4	0	3,598,929:50:1	
1330	96	250	09:54:38.733		DMS:	: *AT SPD	R115, TRACK 2, REV, TIC 3084.40 +/- 6	2R3	4	0	3,598,929:50:1	
1331	96	250	09:54:40.000	118IY11A	SMOS	GE		2R3	4	0	3,598,929:52:0	
1332	96	250	09:55:06.666	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,598,930:01:0	
1333	96	250	09:55:06.666		DMS:	: *RUNDOWN	R115, TRACK 2, REV, TIC *2986.20 +/- 6	2R3	4	0	3,598,930:01:0	
1334	96	250	09:59:11.333	165GJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,598,934:04:0	
1335	96	250	09:59:12.000	165GJ4B	7SCAN	NORM,255.459999,	Check S/P Position	2R3	4	0	3,598,934:05:0	
1336	96	250	10:03:06.000	117GJ	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,598,937:83:0	
1337	96	250	10:03:15.333	117GJ105A106A4A	7STRP	0.004,0.0060001,0	Slew = 0.83	2R3	4	0	3,598,938:06:0	
1338	96	250	10:03:38.666	117GJ11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,598,938:41:0	
1339	96	250	10:05:57.933	G2JNTHRMS04-		-----START-----		2R3	4	0	:	:
1340	96	250	10:05:58.000	165DL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,598,940:68:0	
1341	96	250	10:05:58.666	165DL4B	7SCAN	NORM,250.247999,	Check S/P Position	2R3	4	0	3,598,940:69:0	
1342	96	250	10:09:10.666	127DL	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	3,598,943:84:0	
1343	96	250	10:09:11.333	127DL4A	37ETB		Loads wavelength edit table	2R3	4	0	3,598,943:85:0	
1344	96	250	10:09:19.333	127DL11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	3,598,944:06:0	
1345	96	250	10:09:52.000	175DL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,598,944:55:0	
1346	96	250	10:09:52.666	117DL	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,598,944:56:0	
1347	96	250	10:10:00.066		DMS:	: *RUNUP	R7, TRACK 2, REV, TIC *2986.68 +/- 6	2R3	4	0	3,598,944:67:1	
1348	96	250	10:10:01.333	175DL176A6A	6TMREC	LPD	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,598,944:69:0	
1349	96	250	10:10:01.533		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2986.56 +/- 6	2R3	4	0	3,598,944:69:3	
1350	96	250	10:10:01.533		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC 2986.56 +/- 6	2R3	4	0	3,598,944:69:3	
1351	96	250	10:10:01.981	G2JNTHRMS04-	NIMPBK	301DL	JUPITER THERMAL NORTH-SOUTH STRI	2R3	4	0	:	:
1352	96	250	10:10:02.000	117DL105A106A4A	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,944:70:0	
1353	96	250	10:10:28.647	G2JNTHRMS04-	DESEL	300DL	JUPITER THERMAL NORTH-SOUTH STRI	2R3	4	0	:	:
1354	96	250	10:11:26.000	117DL105A106A4B	7STRP	0.0052,-0.008001	Slew = 12.01	2R3	4	0	3,598,946:29:0	
1355	96	250	10:11:49.333	117DL105A106A4C	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,946:49:0	
1356	96	250	10:13:23.333	117DL105A106A4D	7STRP	0.0052,-0.008001	Slew = 12.01	2R3	4	0	3,598,948:08:0	
1357	96	250	10:13:36.666	117DL105A106A4E	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,948:28:0	
1358	96	250	10:15:10.666	117DL105A106A4F	7STRP	0.0052,-0.008001	Slew = 12.01	2R3	4	0	3,598,949:78:0	
1359	96	250	10:15:24.000	117DL105A106A4G	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,950:07:0	
1360	96	250	10:16:58.000	117DL105A106A4H	7STRP	0.0052,-0.008001	Slew = 12.01	2R3	4	0	3,598,951:57:0	
1361	96	250	10:17:11.333	117DL105A106A4I	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,951:77:0	
1362	96	250	10:18:45.333	117DL105A106A4J	7STRP	0.0052,-0.008001	Slew = 12.01	2R3	4	0	3,598,953:36:0	
1363	96	250	10:18:58.666	117DL105A106A4K	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,953:56:0	
1364	96	250	10:20:32.666	117DL105A106A4L	7STRP	0.0052,-0.008001	Slew = 12.01	2R3	4	0	3,598,955:15:0	
1365	96	250	10:20:46.000	117DL105A106A4M	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,955:35:0	
1366	96	250	10:22:20.000	117DL105A106A4N	7STRP	0.0052,-0.008001	Slew = 12.01	2R3	4	0	3,598,956:85:0	
1367	96	250	10:22:33.333	117DL105A106A4O	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,957:14:0	
1368	96	250	10:24:07.333	117DL105A106A4P	7STRP	0.0052,-0.008001	Slew = 12.01	2R3	4	0	3,598,958:64:0	
1369	96	250	10:24:20.666	117DL105A106A4Q	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,958:84:0	
1370	96	250	10:25:54.666	117DL105A106A4R	7STRP	0.0052,-0.008001	Slew = 12.01	2R3	4	0	3,598,960:43:0	
1371	96	250	10:26:08.000	117DL105A106A4S	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,960:63:0	
1372	96	250	10:27:42.000	117DL105A106A4T	7STRP	0.0052,-0.008001	Slew = 12.01	2R3	4	0	3,598,962:22:0	
1373	96	250	10:27:55.333	117DL105A106A4U	7STRP	-0.0035,0.0,0.0,	Slew = 0.04	2R3	4	0	3,598,962:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1374	96	250	10:29:29.333	117DL105A106A4V	7STRP	0.0052,-0.008001	Slew =12.01	2R3	4	0	3.598,964:0.10	
1375	96	250	10:29:42.666	117DL105A106A4W	7STRP	-0.0035,0.00.0.	Slew =0.04	2R3	4	0	3.598,964:2.10	
1376	96	250	10:31:16.666	117DL105A106A4X	7STRP	0.0052,-0.008001	Slew =12.01	2R3	4	0	3.598,965:7.10	
1377	96	250	10:31:30.000	117DL105A106A4Y	7STRP	-0.0035,0.00.0.	Slew =0.04	2R3	4	0	3.598,966:00:0	
1378	96	250	10:33:04.000	117DL105A106A4Z	7STRP	0.0052,-0.008001	Slew =12.01	2R3	4	0	3.598,967:50:0	
1379	96	250	10:33:17.333	117DL105A106A4AA	7STRP	-0.0035,0.00.0.	Slew =0.04	2R3	4	0	3.598,967:70:0	
1380	96	250	10:34:51.333	117DL11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3.598,969:29:0	
1381	96	250	10:35:02.666		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2634.73 +/- 6	2R3	4	0	3.598,969:46:0	
1382	96	250	10:35:02.666	175DL6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3.598,969:46:0	
1383	96	250	10:35:02.666	175DL422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3.598,969:46:0	
1384	96	250	10:35:59.267	G2JNTHRMNS04-		----STOP-----		2R3	4	0	:	
1385	96	250	11:39:18.667	G2NNRECOVY03-		----START-----		2R3	4	0	:	
1386	96	250	11:40:10.666	127FQ	NIMSTAB	GS	%% %% GROUP START TAB	2R3	4	0	3.599,033:84:0	
1387	96	250	11:40:11.333	127FQ4A	37ETB	07,C7,02,80,44,3	Loads wavelength edit table	2R3	4	0	3.599,033:85:0	
1388	96	250	11:40:14.000	165IZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3.599,033:89:0	
1389	96	250	11:40:14.666	165IZ4B	7SCAN	NORM,273.015999,	Check S/P Position	2R3	4	0	3.599,033:90:0	
1390	96	250	11:40:19.333	127FQ11A	NIMSTAB	GE	%% %% GROUP END TAB	2R3	4	0	3.599,034:06:0	
1391	96	250	11:40:35.333	432DK6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	3.599,034:30:0	
1392	96	250	11:41:10.000	118IZ	SMOS	GS	Slew =,1.21	2R3	4	0	3.599,034:82:0	
1393	96	250	11:41:20.000	118IZ110A111A4A	7STRP	0.00416,0.0.92.0		2R3	4	0	3.599,035:06:0	
1394	96	250	11:41:34.666	432DL6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R3	4	0	3.599,035:28:0	
1395	96	250	11:41:37.333	175IZ422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R3	4	0	3.599,035:32:0	
1396	96	250	11:41:45.400		DMS:	: *RUNUP	R115, TRACK 2, *REV, TIC *2636.06 +/- 6	2R3	4	0	3.599,035:44:1	
1397	96	250	11:41:47.333	G2NNRECOVY03-		----STOP-----		2R3	4	0	:	
1398	96	250	11:41:49.333	175IZ176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R3	4	0	3.599,035:50:0	
1399	96	250	11:41:49.400		DMS:	: *RECORD	R115, TRACK 2, REV, TIC *2629.79 +/- 6	2R3	4	0	3.599,035:50:1	
1400	96	250	11:41:49.400		DMS:	: *AT SPD	R115, TRACK 2, REV, TIC 2629.79 +/- 6	2R3	4	0	3.599,035:50:1	
1401	96	250	11:41:50.666	118IZ11A	SMOS	GE	DMS Control Tape stop	2R3	4	0	3.599,035:52:0	
1402	96	250	11:42:17.333	175IZ422A6B	6DMSC	RDY.0	R115, TRACK 2, REV, TIC *2531.59 +/- 6	2R3	4	0	3.599,036:01:0	
1403	96	250	11:42:17.333		DMS:	: *RUNDOWN	Disable IVP - Target Motion	2R3	4	0	3.599,036:01:0	
1404	96	250	12:00:27.333	165CK4A	7TMOT	DIS,TMC	Check S/P Position	2R3	4	0	3.599,053:90:0	
1405	96	250	12:00:28.000	165CK4B	7SCAN	NORM,282.107998,	R/T Select of DDS and	2R3	4	0	3.599,057:45:0	
1406	96	250	12:04:00.666	432CA6A	6RTSL1		Sci, Eng, and D/L Chan	2R3	4	0	3.599,147:38:0	
1407	96	250	13:34:56.000	488U6A	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R3	4	0	3.599,210:65:0	
1408	96	250	14:38:56.000	488U6B	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3.599,216:10:0	
1409	96	250	14:44:23.333	488U6C	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3.599,292:50:0	
1410	96	250	16:01:40.666	488U6D	6TMSED	NORM,DL2	Disable IVP - Target Motion	2R3	4	0	3.599,297:88:0	
1411	96	250	16:07:09.333	165E S4A	7TMOT	DIS,TMC	Check S/P Position	2R3	4	0	3.599,297:89:0	
1412	96	250	16:07:10.000	165E S4B	7SCAN	NORM,255.261,-20		2R3	4	0	3.599,297:89:0	
1413	96	250	16:07:15.333	G2NNSIPPAP01-		----START-----		2R3	4	0	:	
1414	96	250	16:07:20.666	488U6E	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3.599,298:14:0	
1415	96	250	16:09:08.000	127ES	NIMSTAB	GS	%% %% GROUP START TAB	2R3	4	0	3.599,299:84:0	
1416	96	250	16:09:08.666	127ES4A	37ETB	07,C7,02,06,00,0	Loads wavelength edit table	2R3	4	0	3.599,299:85:0	
1417	96	250	16:09:16.666	127ES11A	NIMSTAB	GE	%% %% GROUP END TAB	2R3	4	0	3.599,300:06:0	
1418	96	250	16:10:00.666	175DI422A6A	6DMSC	RDY.0	DMS Control Tape runup 7.68kps	2R3	4	0	3.599,300:72:0	
1419	96	250	16:10:04.000	117ES	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3.599,300:77:0	
1420	96	250	16:10:08.733		DMS:	: *RUNUP	R7, TRACK 2, *REV, TIC *2532.07 +/- 6	2R3	4	0	3.599,300:84:1	
1421	96	250	16:10:10.000	175DI176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3.599,300:86:0	
1422	96	250	16:10:10.200		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC 2531.95 +/- 7	2R3	4	0	3.599,300:86:3	
1423	96	250	16:10:10.200		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2531.95 +/- 7	2R3	4	0	3.599,300:86:3	
1424	96	250	16:10:13.301	G2NNSIPPAP01-	NIMPBK	301ES	SIPPAP REGION MAP	2R3	4	0	:	
1425	96	250	16:10:13.333	117ES105A106A4A	7STRP	0.00978,0.00.0.	Slew =0.03	2R3	4	0	3.599,301:00:0	
1426	96	250	16:12:11.300	G2NNSIPPAP01-	DESEL	300ES	SIPPAP REGION MAP	2R3	4	0	:	
1427	96	250	16:15:40.666	117ES105A106A4B	7STRP	-0.00978,0.0055,	Slew =12.01	2R3	4	0	3.599,306:36:0	
1428	96	250	16:15:51.333	117ES105A106A4C	7STRP	0.00978,0.00.0.	Slew =0.03	2R3	4	0	3.599,306:52:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1429	96	250	16:21:18.666	117ES11A	CSMOS	GE	*** GROUP END CSMOS	2R3	4	0	3,599,311.88:0	
1430	96	250	16:21:23.333	165GK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,599,312:04:0	
1431	96	250	16:21:24.000	165GK4B	7SCAN	NORM,253.070999,	Check S/P Position	2R3	4	0	3,599,312:05:0	
1432	96	250	16:21:24.667	G2GNSIPPAR01-		----STOP-----		2R3	4	0	:	
1433	96	250	16:21:32.000	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,599,312:17:0	
1434	96	250	16:21:32.000	175DI6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,599,312:17:0	
1435	96	250	16:21:32.000		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2372.15 +/- 7	2R3	4	0	3,599,312:17:0	
1436	96	250	16:22:16.000	117GK	CSMOS	GS	*** GROUP START CSMOS	2R3	4	0	3,599,312:83:0	
1437	96	250	16:22:25.333	117GK105A106A4A	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,313:06:0	
1438	96	250	16:23:17.333	117GK105A106A4B	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,313:84:0	
1439	96	250	16:23:26.000	117GK105A106A4C	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,314:06:0	
1440	96	250	16:24:18.000	117GK105A106A4D	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,314:84:0	
1441	96	250	16:24:26.666	117GK105A106A4E	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,315:06:0	
1442	96	250	16:25:18.666	117GK105A106A4F	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,315:84:0	
1443	96	250	16:25:27.333	117GK105A106A4G	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,316:06:0	
1444	96	250	16:26:19.333	117GK105A106A4H	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,316:84:0	
1445	96	250	16:26:28.000	117GK105A106A4I	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,317:06:0	
1446	96	250	16:27:20.000	117GK105A106A4J	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,317:84:0	
1447	96	250	16:27:28.666	117GK105A106A4K	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,318:06:0	
1448	96	250	16:28:20.666	117GK105A106A4L	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,318:84:0	
1449	96	250	16:28:29.333	117GK105A106A4M	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,319:06:0	
1450	96	250	16:29:21.333	117GK105A106A4N	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,319:84:0	
1451	96	250	16:29:30.000	117GK105A106A4O	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,320:06:0	
1452	96	250	16:30:22.000	117GK105A106A4P	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,320:84:0	
1453	96	250	16:30:30.666	117GK105A106A4Q	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,321:06:0	
1454	96	250	16:31:22.666	117GK105A106A4R	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,321:84:0	
1455	96	250	16:31:31.333	117GK105A106A4S	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,322:06:0	
1456	96	250	16:32:23.333	117GK105A106A4T	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,322:84:0	
1457	96	250	16:32:32.000	117GK105A106A4U	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,323:06:0	
1458	96	250	16:33:24.000	117GK105A106A4V	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,323:84:0	
1459	96	250	16:33:32.666	117GK105A106A4W	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,324:06:0	
1460	96	250	16:34:24.666	117GK105A106A4X	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,324:84:0	
1461	96	250	16:34:33.333	117GK105A106A4Y	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,325:06:0	
1462	96	250	16:35:25.333	117GK105A106A4Z	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,325:84:0	
1463	96	250	16:35:34.000	117GK105A106A4AA	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,326:06:0	
1464	96	250	16:36:26.000	117GK105A106A4AB	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,326:84:0	
1465	96	250	16:36:34.666	117GK105A106A4AC	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,327:06:0	
1466	96	250	16:37:26.666	117GK105A106A4AD	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,327:84:0	
1467	96	250	16:37:35.333	117GK105A106A4AE	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,328:06:0	
1468	96	250	16:38:27.333	117GK105A106A4AF	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,328:84:0	
1469	96	250	16:38:36.000	117GK105A106A4AG	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,329:06:0	
1470	96	250	16:39:28.000	117GK105A106A4AH	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,329:84:0	
1471	96	250	16:39:36.666	117GK105A106A4AI	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,330:06:0	
1472	96	250	16:40:28.666	117GK105A106A4AJ	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,330:84:0	
1473	96	250	16:41:37.333	117GK105A106A4AK	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,331:06:0	
1474	96	250	16:41:29.333	117GK105A106A4AL	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,331:84:0	
1475	96	250	16:41:38.000	117GK105A106A4AM	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,332:06:0	
1476	96	250	16:42:30.000	117GK105A106A4AN	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,332:84:0	
1477	96	250	16:42:38.666	117GK105A106A4AO	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,333:06:0	
1478	96	250	16:43:30.666	117GK105A106A4AP	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,333:84:0	
1479	96	250	16:43:39.333	117GK105A106A4AQ	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,334:06:0	
1480	96	250	16:44:31.333	117GK105A106A4AR	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,334:84:0	
1481	96	250	16:44:40.000	117GK105A106A4AS	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,335:06:0	
1482	96	250	16:45:32.000	117GK105A106A4AT	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,335:84:0	
1483	96	250	16:45:40.666	117GK105A106A4AU	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,336:06:0	

Line	YR	DOY	SCET	G-MT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1484	96	250	16:46:32.666		117GK105A106A4AV	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,336:84:0	
1485	96	250	16:46:41.333		117GK105A106A4AW	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,337:06:0	
1486	96	250	16:47:33.333		117GK105A106A4AX	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,337:84:0	
1487	96	250	16:47:42.000		117GK105A106A4AY	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,338:06:0	
1488	96	250	16:48:34.000		117GK105A106A4AZ	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,338:84:0	
1489	96	250	16:48:42.666		117GK105A106A4BA	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,339:06:0	
1490	96	250	16:49:34.666		117GK105A106A4BB	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,339:84:0	
1491	96	250	16:49:43.333		117GK105A106A4BC	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,340:06:0	
1492	96	250	16:50:35.333		117GK105A106A4BD	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,340:84:0	
1493	96	250	16:50:44.000		117GK105A106A4BE	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,341:06:0	
1494	96	250	16:51:12.000		488V6A	6TMSD	FILL, DL3	Sci, Eng, and D/L Chan	2R3	4	0	3,599,341:48:0	
1495	96	250	16:51:36.000		117GK105A106A4BF	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,341:84:0	
1496	96	250	16:51:44.666		117GK105A106A4BG	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,342:06:0	
1497	96	250	16:52:36.666		117GK105A106A4BH	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,342:84:0	
1498	96	250	16:52:45.333		117GK105A106A4BI	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,343:06:0	
1499	96	250	16:53:37.333		117GK105A106A4BJ	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,343:84:0	
1500	96	250	16:53:46.000		117GK105A106A4BK	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,344:06:0	
1501	96	250	16:54:38.000		117GK105A106A4BL	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,344:84:0	
1502	96	250	16:54:46.666		117GK105A106A4BM	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,345:06:0	
1503	96	250	16:55:38.666		117GK105A106A4BN	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,345:84:0	
1504	96	250	16:55:47.333		117GK105A106A4BO	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,346:06:0	
1505	96	250	16:56:39.333		117GK105A106A4BP	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,346:84:0	
1506	96	250	16:56:48.000		117GK105A106A4BQ	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,347:06:0	
1507	96	250	16:57:40.000		117GK105A106A4BR	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,347:84:0	
1508	96	250	16:57:48.666		117GK105A106A4BS	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,348:06:0	
1509	96	250	16:58:40.666		117GK105A106A4BT	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,348:84:0	
1510	96	250	16:58:49.333		117GK105A106A4BU	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,349:06:0	
1511	96	250	16:59:41.333		117GK105A106A4BV	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,349:84:0	
1512	96	250	16:59:50.000		117GK105A106A4BW	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,350:06:0	
1513	96	250	17:00:00.000		488V6B	6TMSD	FILL, EL3	Sci, Eng, and D/L Chan	2R3	4	0	3,599,350:21:0	
1514	96	250	17:00:42.000		117GK105A106A4BX	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,350:84:0	
1515	96	250	17:00:50.666		117GK105A106A4BY	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,351:06:0	
1516	96	250	17:01:42.666		117GK105A106A4BZ	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,351:84:0	
1517	96	250	17:01:51.333		117GK105A106A4CA	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,352:06:0	
1518	96	250	17:02:43.333		117GK105A106A4CB	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,352:84:0	
1519	96	250	17:02:52.000		117GK105A106A4CC	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,353:06:0	
1520	96	250	17:03:44.000		117GK105A106A4CD	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,353:84:0	
1521	96	250	17:03:52.666		117GK105A106A4CE	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,354:06:0	
1522	96	250	17:04:44.666		117GK105A106A4CF	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,354:84:0	
1523	96	250	17:04:53.333		117GK105A106A4CG	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,355:06:0	
1524	96	250	17:05:45.333		117GK105A106A4CH	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,355:84:0	
1525	96	250	17:05:54.000		117GK105A106A4CI	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,356:06:0	
1526	96	250	17:06:46.000		117GK105A106A4CJ	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,356:84:0	
1527	96	250	17:06:54.666		117GK105A106A4CK	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,357:06:0	
1528	96	250	17:07:46.666		117GK105A106A4CL	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,357:84:0	
1529	96	250	17:07:55.333		117GK105A106A4CM	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,358:06:0	
1530	96	250	17:08:47.333		117GK105A106A4CN	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,358:84:0	
1531	96	250	17:08:56.000		117GK105A106A4CO	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,359:06:0	
1532	96	250	17:09:48.000		117GK105A106A4CP	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,359:84:0	
1533	96	250	17:09:56.666		117GK105A106A4CQ	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,360:06:0	
1534	96	250	17:10:48.666		117GK105A106A4CR	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,360:84:0	
1535	96	250	17:10:57.333		117GK105A106A4CS	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,361:06:0	
1536	96	250	17:11:49.333		117GK105A106A4CT	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,361:84:0	
1537	96	250	17:11:58.000		117GK105A106A4CU	7STRP	0.083695,0.0000	Slew =0,1.8	2R3	4	0	3,599,362:06:0	
1538	96	250	17:12:50.000		117GK105A106A4CV	7STRP	-0.083695,0.0008	Slew =17.44	2R3	4	0	3,599,362:84:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1539	96	250	17:12:58.666	117GK105A106A4CW	7STRP	0.083695,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,363.060	
1540	96	250	17:13:50.666	117GK105A106B4A	7STRP	-0.072125,0.0008	Slew =17.44	2R3	4	0	3,599,363.840	
1541	96	250	17:13:58.000	117GK105A106B4B	7STRP	0.072125,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,364.040	
1542	96	250	17:14:41.333	117GK105A106B4C	7STRP	-0.072125,0.0008	Slew =17.44	2R3	4	0	3,599,364.690	
1543	96	250	17:14:48.666	117GK105A106B4D	7STRP	0.072125,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,364.800	
1544	96	250	17:15:32.000	117GK105A106B4E	7STRP	-0.072125,0.0008	Slew =17.44	2R3	4	0	3,599,365.540	
1545	96	250	17:15:39.333	117GK105A106B4F	7STRP	0.072125,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,365.650	
1546	96	250	17:16:22.666	117GK105A106B4G	7STRP	-0.072125,0.0008	Slew =17.44	2R3	4	0	3,599,366.390	
1547	96	250	17:16:30.000	117GK105A106B4H	7STRP	0.072125,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,366.500	
1548	96	250	17:17:13.333	117GK105A106B4I	7STRP	-0.072125,0.0008	Slew =17.44	2R3	4	0	3,599,367.240	
1549	96	250	17:17:20.666	117GK105A106B4J	7STRP	0.072125,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,367.350	
1550	96	250	17:18:04.000	117GK105A106B4K	7STRP	-0.072125,0.0008	Slew =17.44	2R3	4	0	3,599,368.090	
1551	96	250	17:18:11.333	117GK105A106B4L	7STRP	0.072125,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,368.200	
1552	96	250	17:18:54.666	117GK105A106B4M	7STRP	-0.072125,0.0008	Slew =17.44	2R3	4	0	3,599,368.850	
1553	96	250	17:19:02.000	117GK105A106B4N	7STRP	0.072125,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,369.050	
1554	96	250	17:19:45.333	117GK105A106B4O	7STRP	-0.072125,0.0008	Slew =17.44	2R3	4	0	3,599,369.700	
1555	96	250	17:19:52.666	117GK105A106B4P	7STRP	0.072125,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,369.810	
1556	96	250	17:20:36.000	117GK105A106B4Q	7STRP	-0.072125,0.0008	Slew =17.44	2R3	4	0	3,599,370.550	
1557	96	250	17:20:43.333	117GK105A106B4R	7STRP	0.072125,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,370.660	
1558	96	250	17:21:26.666	117GK105A106B4S	7STRP	-0.072125,0.0008	Slew =17.44	2R3	4	0	3,599,371.400	
1559	96	250	17:21:34.000	117GK105A106B4T	7STRP	0.072125,0.0,0.0	Slew =0,1.8	2R3	4	0	3,599,371.510	
1560	96	250	17:22:17.333	117GK11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,599,372.250	
1561	96	250	17:26:59.333	125DN4A	37IST	0.2,0,OFF,0.1,2	Gain State 3	3R3	4	0	3,599,376.840	
1562	96	250	17:26:59.333	125DN11A	NIMSINIT	GE	#### GROUP END INIT	3R3	4	0	3,599,376.840	
1563	96	250	17:26:59.333	125DN	NIMSINIT	DIS	#### GROUP START INIT	3R3	4	0	3,599,376.840	
1564	96	250	17:27:06.666	165DN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,599,377.040	
1565	96	250	17:27:06.667	G2GNRPOLE01-		----START-----		3R3	4	0	:	
1566	96	250	17:27:07.333	165DN4B	7SCAN	NORM,257.869999,	Check S/P Position	3R3	4	0	3,599,377.050	
1567	96	250	17:27:56.000	175DN422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	3,599,377.780	
1568	96	250	17:27:59.333	117DN	CSMOS	GS	**** GROUP START CSMOS	3R3	4	0	3,599,377.830	
1569	96	250	17:28:00.000	127DN	NIMSTAB	GS	%%:%%:%% GROUP START TAB	3R3	4	0	3,599,377.840	
1570	96	250	17:28:00.000	127DN4A	37IOP	1,0	Full Map, Grating Start Position =00	3R1	4	0	3,599,377.850	
1571	96	250	17:28:00.666	127DN4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	3R1	4	0	3,599,377.850	
1572	96	250	17:28:04.066		DMS:	: RUNUP	R28, TRACK 2, REV, TIC *2373.49 +/- 7	3R1	4	0	3,599,377.90:1	
1573	96	250	17:28:07.333	165DN4C	7VECT		Inert vect update UTC	3R1	4	0	3,599,378.040	
1574	96	250	17:28:08.000	175DN176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R1	4	0	3,599,378.050	
1575	96	250	17:28:08.000	165DN4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R1	4	0	3,599,378.050	
1576	96	250	17:28:08.066		DMS:	: RECORD	R28, TRACK 2, REV, TIC *2371.99 +/- 7	3R1	4	0	3,599,378.05:1	
1577	96	250	17:28:08.066		DMS:	: AT_SPD	R28, TRACK 2, REV, TIC 2371.99 +/- 7	3R1	4	0	3,599,378.05:1	
1578	96	250	17:28:08.666	117DN105A106A4A	7STRP	-0.018002,0.0,0.0,	Slew =0.06	3R1	4	0	3,599,378.060	
1579	96	250	17:28:08.666	127DN11A	NIMSTAB	GE	%%:%%:%% GROUP END TAB	3R1	4	0	3,599,378.060	
1580	96	250	17:30:23.333	488V6C	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	3R1	4	0	3,599,380.260	
1581	96	250	17:33:19.333	117DN105A106B4A	7STRP	0.001,-0.0025,0,	Slew =4.01	3R1	4	0	3,599,383.170	
1582	96	250	17:33:29.333	117DN105A106B4B	7STRP	-0.015001,0.0,0.0,	Slew =0.06	3R1	4	0	3,599,383.320	
1583	96	250	17:33:35.984	G2GNRPOLE01-	NIMPBK	301DN	NORTH POLE REGION MAP	3R1	4	0	:	
1584	96	250	17:37:45.333	117DN105A106C4A	7STRP	0.001,-0.003,0.0	Slew =4.01	3R1	4	0	3,599,387.520	
1585	96	250	17:37:55.333	117DN105A106C4B	7STRP	-0.017002,0.0,0.0,	Slew =0.06	3R1	4	0	3,599,387.670	
1586	96	250	17:39:05.984	G2GNRPOLE01-	DESEL	300DN	NORTH POLE REGION MAP	3R1	4	0	:	
1587	96	250	17:42:44.666	117DN105A106D4A	7STRP	0.008,-0.008001,	Slew =4.01	3R1	4	0	3,599,392.460	
1588	96	250	17:42:54.666	117DN105A106D4B	7STRP	-0.016001,0.0,0.0,	Slew =0.06	3R1	4	0	3,599,392.610	
1589	96	250	17:47:30.666	117DN11A	CSMOS	GE	**** GROUP END CSMOS	3R1	4	0	3,599,397.200	
1590	96	250	17:47:31.333	G2GNRPOLE01-		----STOP-----		3R1	4	0	:	
1591	96	250	17:47:34.666		DMS:	: RUNDOWN	R28, TRACK 2, REV, TIC *1346.66 +/- 7	3R1	4	0	3,599,397.260	
1592	96	250	17:47:34.666	175DN422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,599,397.260	
1593	96	250	17:52:20.666	411JB6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,599,402.000	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1594	96	250	17:52:28.733		DMS:	: *RUNUP	R7, TRACK 2, REV, TIC *1347.83 +/- 7	3R1	4	0	3,599,402:12:1	
1595	96	250	17:52:30.200		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC 1347.71 +/- 7	3R1	4	0	3,599,402:14:3	
1596	96	250	17:52:30.200		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *1347.71 +/- 7	3R1	4	0	3,599,402:14:3	
1597	96	250	17:52:30.666	411JB6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	3R1	4	0	3,599,402:15:0	
1598	96	250	17:54:32.000	411JB6C	6TMREC	LPC	NO RECORD Record Mode Change	3R1	4	0	3,599,404:15:0	
1599	96	250	17:54:34.666	175TK176A6A	6TMREC	LPC	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R1	4	0	3,599,404:19:0	
1600	96	250	17:54:35.333	175TK422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	3R1	4	0	3,599,404:20:0	
1601	96	250	17:54:42.000		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *1316.82 +/- 7	3R1	4	0	3,599,404:30:0	
1602	96	250	17:54:42.000	175TK422A6B	6DMSC	RDY.0	DMS Control Tape stop	3R1	4	0	3,599,404:30:0	
1603	96	250	17:56:22.000	G2GNTAMMUZ01-		----START-----		3R1	4	0	:	:
1604	96	250	17:56:22.000	165DM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,599,405:89:0	
1605	96	250	17:56:22.666	165DM4B	7SCAN	NORM,260.739998,	Check S/P Position	3R1	4	0	3,599,405:90:0	
1606	96	250	17:58:20.000	125DM4A	37IST	0.2,0,OFF,0,1,0	Gain State 2	2R1	4	0	3,599,407:84:0	
1607	96	250	17:58:20.000	125DM11A	NIMSINIT	GE	##### GROUP END INIT	2R1	4	0	3,599,407:84:0	
1608	96	250	17:58:20.000	125DM	NIMSINIT	GS	##### GROUP START INIT	2R1	4	0	3,599,407:84:0	
1609	96	250	17:58:20.666	127DM	NIMSTAB	GS	%%:%%:%% GROUP START TAB	2R1	4	0	3,599,408:84:0	
1610	96	250	17:59:20.666	127DM4A	37IOP	3.0	Long Map, Grating Start Position =00	2R3	4	0	3,599,408:84:0	
1611	96	250	17:59:21.333	127DM4B	37ETB	07,C7,02,0C,00,0	Loads wavelength edit table	2R3	4	0	3,599,408:85:0	
1612	96	250	17:59:29.333	127DM11A	NIMSTAB	GE	%%:%%:%% GROUP END TAB	2R3	4	0	3,599,409:06:0	
1613	96	250	18:00:13.333	175DM422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,599,409:72:0	
1614	96	250	18:00:16.666	117DM	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,599,409:77:0	
1615	96	250	18:00:21.400		DMS:	: *RUNUP	R7, TRACK 2, REV, TIC *1318.16 +/- 7	2R3	4	0	3,599,409:84:1	
1616	96	250	18:00:22.666	175DM176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,599,409:86:0	
1617	96	250	18:00:22.666		DMS:	: *AT SPD	R7, TRACK 2, REV, TIC 1318.04 +/- 7	2R3	4	0	3,599,409:86:3	
1618	96	250	18:00:22.866		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *1318.04 +/- 7	2R3	4	0	3,599,409:86:3	
1619	96	250	18:00:24.666	165DM4C	7VECT		Inert vect update UTC	2R3	4	0	3,599,409:89:0	
1620	96	250	18:00:25.333	165DM4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,599,409:90:0	
1621	96	250	18:00:25.963	G2GNTAMMUZ01-	NIMPBK	301DM	BRIGHT RAYED CRATER TAMMUZ	2R3	4	0	:	:
1622	96	250	18:00:26.000	117DM105A106A4A	7STRP	-0.015501,0.0,0,	Slew =0.03	2R3	4	0	3,599,410:00:0	
1623	96	250	18:09:31.296	G2GNTAMMUZ01-	DESEL	300DM	BRIGHT RAYED CRATER TAMMUZ	2R3	4	0	:	:
1624	96	250	18:09:32.000	117DM11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,599,419:00:0	
1625	96	250	18:09:33.333	175DM422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,599,419:02:0	
1626	96	250	18:09:33.333		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *1189.02 +/- 7	2R3	4	0	3,599,419:02:0	
1627	96	250	18:09:33.333	175DM6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,599,419:02:0	
1628	96	250	18:09:47.333	G2GNTAMMUZ01-		----STOP-----		2R3	4	0	:	:
1629	96	250	18:14:12.666	165IB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,599,423:57:0	
1630	96	250	18:14:13.333	165IB4B	7SCAN	NORM,255.856998,	Check S/P Position	2R3	4	0	3,599,423:58:0	
1631	96	250	18:14:24.000	175IB422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,599,423:74:0	
1632	96	250	18:14:27.333	118IB	SMOS	GS		2R3	4	0	3,599,423:79:0	
1633	96	250	18:14:32.066		DMS:	: *RUNUP	R806, TRACK 2, REV, TIC *1190.36 +/- 7	2R3	4	0	3,599,423:86:1	
1634	96	250	18:14:34.000	165IB4C	7VECT		Inert vect update UTC	2R3	4	0	3,599,423:89:0	
1635	96	250	18:14:34.666	165IB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,599,423:90:0	
1636	96	250	18:14:36.666	175IB176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,599,424:02:0	
1637	96	250	18:14:37.266		DMS:	: *RECORD	R806, TRACK 2, REV, TIC *1126.34 +/- 7	2R3	4	0	3,599,424:02:9	
1638	96	250	18:14:37.266		DMS:	: *AT SPD	R806, TRACK 2, REV, TIC 1126.34 +/- 8	2R3	4	0	3,599,424:02:9	
1639	96	250	18:14:37.333	118IB110A111A4A	7STRP	0.0073,0.0,0,26.0,	Slew =2,2.5	2R3	4	0	3,599,424:03:0	
1640	96	250	18:14:46.000	118IB110A111A4B	7STRP	-0.0073,0.0,0,07301,	Slew =0.5,0	2R3	4	0	3,599,424:16:0	
1641	96	250	18:14:54.666	118IB110A111A4C	7STRP	0.0073,0.0,0,26.0,	Slew =2,2.5	2R3	4	0	3,599,424:29:0	
1642	96	250	18:15:03.333	118IB11A	SMOS	GE		2R3	4	0	3,599,424:42:0	
1643	96	250	18:15:10.000	175IB422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,599,424:52:0	
1644	96	250	18:15:10.000		DMS:	: *RUNDOWN	R806, TRACK 2, REV, TIC * 320.79 +/- 8	2R3	4	0	3,599,424:52:0	
1645	96	250	18:19:32.000	465KB6A	6DTRN	CMD,6DTRN,465KB6	DMS TRACK TURNAROUND	2R3	4	0	3,599,428:81:0	
1646	96	250	18:30:06.666	165IA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,599,439:32:0	
1647	96	250	18:30:07.333	165IA4B	7SCAN	NORM,252.905998,	Check S/P Position	2R3	4	0	3,599,439:33:0	
1648	96	250	18:30:34.666	175IA422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,599,439:74:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1649	96	250	18:30:42.733		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC * 203.02 +/-	2R3	4	0	3,599,439,86:1	
1650	96	250	18:30:44.666	165IA4C	7VECT		Inert vect update UTC	2R3	4	0	3,599,439,89:0	
1651	96	250	18:30:45.333	165IA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,599,439,90:0	
1652	96	250	18:30:47.333	175IA176A8A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,599,440,02:0	
1653	96	250	18:30:47.933		DMS:	: *RECORD	R806, TRACK 3, FWD, TIC * 267.03 +/-	2R3	4	0	3,599,440,02:9	
1654	96	250	18:30:47.933		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC * 267.03 +/-	2R3	4	0	3,599,440,02:9	
1655	96	250	18:30:54.666		DMS:	: *RUNDOWN	R806, TRACK 3, FWD, TIC * 432.74 +/-	2R3	4	0	3,599,440,13:0	
1656	96	250	18:30:54.666	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,599,440,13:0	
1657	96	250	18:31:32.666	165IC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,599,440,70:0	
1658	96	250	18:31:33.333	165IC4B	7SCAN	NORM,246.5,-31.6	Check S/P Position	2R3	4	0	3,599,440,71:0	
1659	96	250	18:32:06.000	175IC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,599,441,29:0	
1660	96	250	18:32:14.066		DMS:	: *RUNUP	R115, TRACK *3, FWD, TIC * 445.13 +/-	2R3	4	0	3,599,441,41:1	
1661	96	250	18:32:15.333	165IC4C	7VECT		Inert vect update UTC	2R3	4	0	3,599,441,43:0	
1662	96	250	18:32:16.000	165IC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,599,441,44:0	
1663	96	250	18:32:18.000	175IC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,599,441,47:0	
1664	96	250	18:32:18.066		DMS:	: *AT_SPD	R115, TRACK 3, FWD, TIC * 451.40 +/-	2R3	4	0	3,599,441,47:1	
1665	96	250	18:32:18.066		DMS:	: *RECORD	R115, TRACK 3, FWD, TIC * 451.40 +/-	2R3	4	0	3,599,441,47:1	
1666	96	250	18:32:42.666	282NG431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl)	2R3	4	0	3,599,441,84:0	
1667	96	250	18:32:47.333	431FB6A	6RCSEL	DDSEL,PLSNCG,EP	Record Select (DDS onl)	2R3	4	0	3,599,442,00:0	
1668	96	250	18:32:47.333	428PA6B	6RCCLR			2R3	4	0	3,599,442,00:0	
1669	96	250	18:32:48.000	428PA6B	6RCSET			2R3	4	0	3,599,442,01:0	
1670	96	250	18:33:18.000	175TA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,599,442,46:0	
1671	96	250	18:33:18.000		DMS:	: *RUNDOWN	R115, TRACK 3, FWD, TIC * 662.10 +/-	2R3	4	0	3,599,442,46:0	
1672	96	250	18:33:19.400		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC * 663.02 +/-	2R3	4	0	3,599,442,48:1	
1673	96	250	18:33:20.666	175TA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,599,442,50:0	
1674	96	250	18:33:20.666		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC * 663.14 +/-	2R3	4	0	3,599,442,50:3	
1675	96	250	18:33:20.666		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC * 663.14 +/-	2R3	4	0	3,599,442,50:3	
1676	96	250	18:34:10.666	428PB6A	6RCCLR			2R3	4	0	3,599,443,34:0	
1677	96	250	18:34:11.333	428PB6B	6RCSET			2R3	4	0	3,599,443,35:0	
1678	96	250	18:34:26.000	165IE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,599,443,57:0	
1679	96	250	18:34:26.666	165IE4B	7SCAN	NORM,260,302998,	Check S/P Position	2R3	4	0	3,599,443,58:0	
1680	96	250	18:34:52.666	118IE	SMOS	GS		2R3	4	0	3,599,444,06:0	
1681	96	250	18:35:01.333	175IE422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,599,444,19:0	
1682	96	250	18:35:01.333		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC * 686.68 +/-	2R3	4	0	3,599,444,19:0	
1683	96	250	18:35:02.733		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC * 686.74 +/-	2R3	4	0	3,599,444,21:1	
1684	96	250	18:35:04.666	165IE4C	7VECT		Inert vect update UTC	2R3	4	0	3,599,444,24:0	
1685	96	250	18:35:05.333	165IE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,599,444,25:0	
1686	96	250	18:35:07.333	175IE176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,599,444,28:0	
1687	96	250	18:35:07.933		DMS:	: *RECORD	R806, TRACK 3, FWD, TIC * 750.76 +/-	2R3	4	0	3,599,444,28:9	
1688	96	250	18:35:07.933		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC * 750.76 +/-	2R3	4	0	3,599,444,28:9	
1689	96	250	18:35:08.000	118IE110A111A4A	7STRP	-0.002,0.007302,	Slew =6.01	2R3	4	0	3,599,444,29:0	
1690	96	250	18:35:19.333	428PC6A	6RCCLR			2R3	4	0	3,599,444,46:0	
1691	96	250	18:35:20.000	428PC6B	6RCSET			2R3	4	0	3,599,444,47:0	
1692	96	250	18:35:25.333	118IE11A	SMOS	GE		2R3	4	0	3,599,444,55:0	
1693	96	250	18:35:26.666	165IF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,599,444,57:0	
1694	96	250	18:35:27.333	165IF4B	7SCAN	NORM,260,232998,	Check S/P Position	2R3	4	0	3,599,444,58:0	
1695	96	250	18:35:32.000	175TB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,599,444,65:0	
1696	96	250	18:35:32.000		DMS:	: *RUNDOWN	R806, TRACK 3, FWD, TIC *1343.02 +/-	2R3	4	0	3,599,444,65:0	
1697	96	250	18:35:35.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1354.02 +/-	2R3	4	0	3,599,444,69:7	
1698	96	250	18:35:36.000	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,599,444,71:0	
1699	96	250	18:35:36.600		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *1354.14 +/-	2R3	4	0	3,599,444,71:9	
1700	96	250	18:35:36.600		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *1354.14 +/-	2R3	4	0	3,599,444,71:9	
1701	96	250	18:36:23.333	428PD6A	6RCCLR			2R3	4	0	3,599,445,51:0	
1702	96	250	18:36:24.000	428PD6B	6RCSET			2R3	4	0	3,599,445,52:0	
1703	96	250	18:36:54.000	118IF	SMOS	GS		2R3	4	0	3,599,446,06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1704	96	250	18:37:11.333		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *1376.35 +/-	2R3	4	0	3,599,446:32.0	
1705	96	250	18:37:11.333	175IF422A6A	6DMSC	R806.0	DMS Control Tape runup 806.4kb	2R3	4	0	3,599,446:32.0	
1706	96	250	18:37:12.733		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *1376.41 +/-	2R3	4	0	3,599,446:34.1	
1707	96	250	18:37:14.666	165IF4C	7VECT		Inert vect update UTC	2R3	4	0	3,599,446:37.0	
1708	96	250	18:37:15.333	165IF4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,599,446:38.0	
1709	96	250	18:37:17.333	175IF176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,599,446:41.0	
1710	96	250	18:37:17.933		DMS:	: *RECORD	R806, TRACK 3, FWD, TIC *1440.42 +/-	2R3	4	0	3,599,446:41.9	
1711	96	250	18:37:17.933		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 1440.42 +/- 1	2R3	4	0	3,599,446:42.0	
1712	96	250	18:37:18.000	118IF110A111A4A	7STRP	0.0073,0.0,26.0,	Slew =2,2.5	2R3	4	0	3,599,446:55.0	
1713	96	250	18:37:26.666	118IF110A111A4B	7STRP	-0.0073,0.007302	Slew =7.01	2R3	4	0	3,599,446:65.0	
1714	96	250	18:37:33.333	428PE6A	6RCCLR			2R3	4	0	3,599,446:66.0	
1715	96	250	18:37:34.000	428PE6B	6RCSET			2R3	4	0	3,599,446:68.0	
1716	96	250	18:37:35.333	118IF110A111A4C	7STRP	0.0073,0.0,26.0,	Slew =2,2.5	2R3	4	0	3,599,446:81.0	
1717	96	250	18:37:44.000	118IF11A	SMOS	GE	Disable IVP - Target Motion	2R3	4	0	3,599,446:83.0	
1718	96	250	18:37:45.333	165IG4B	7TMOT	DIS,TMC	Check S/P Position	2R3	4	0	3,599,446:84.0	
1719	96	250	18:37:46.000	165IG4A	7SCAN	NORM,244,141998,	Gain State 2	2R3	4	0	3,599,446:84.0	
1720	96	250	18:37:46.000	125DO4A	37IST	0.2,0,OFF,0,1,0	##### GROUP END INIT	2R3	4	0	3,599,446:84.0	
1721	96	250	18:37:46.000	125DO11A	NIMSNIT	GE	##### GROUP START INIT	2R3	4	0	3,599,446:84.0	
1722	96	250	18:37:46.000	125DO	NIMSNIT	GS	R806, TRACK 3, FWD, TIC *2245.97 +/- 1	2R3	4	0	3,599,447:00.0	
1723	96	250	18:37:50.666		DMS:	: *RUNDOWN	DMS Control Tape runup 7.68kps	2R3	4	0	3,599,447:00.0	
1724	96	250	18:37:50.666	175TC422A6A	6DMSC	R7,0	R7, TRACK 3, FWD, TIC *2256.97 +/- 1	2R3	4	0	3,599,447:04.0	
1725	96	250	18:37:53.800		DMS:	: *RUNUP	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,599,447:06.0	
1726	96	250	18:37:54.666	175TC176A6A	6TMREC	LPW	R7, TRACK 3, FWD, TIC 2257.09 +/- 1	2R3	4	0	3,599,447:06.9	
1727	96	250	18:37:55.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *2257.09 +/- 1	2R3	4	0	3,599,447:18.0	
1728	96	250	18:37:55.266		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *2257.09 +/- 1	2R3	4	0	3,599,447:19.0	
1729	96	250	18:38:02.666	428PF6A	6RCCLR			2R3	4	0	3,599,447:32.0	
1730	96	250	18:38:03.333	428PF6B	6RCSET			2R3	4	0	3,599,447:32.0	
1731	96	250	18:38:12.000		DMS:	: *RUNDOWN	DMS Control Tape runup 806.4kb	2R3	4	0	3,599,447:34.1	
1732	96	250	18:38:12.000	175IG422A6A	6DMSC	R806.0	Inert vect update UTC	2R3	4	0	3,599,447:37.0	
1733	96	250	18:38:13.400		DMS:	: *RUNUP	Enable IVP - Target Motion	2R3	4	0	3,599,447:41.0	
1734	96	250	18:38:15.333	165IG4C	7VECT		806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,599,447:41.9	
1735	96	250	18:38:16.000	165IG4D	7TMOT	ENA,TMC	R806, TRACK 3, FWD, TIC *2325.08 +/- 1	2R3	4	0	3,599,447:41.9	
1736	96	250	18:38:18.000	175IG176A6A	6TMREC	IM8	R806, TRACK 3, FWD, TIC 2325.08 +/- 1	2R3	4	0	3,599,447:44.0	
1737	96	250	18:38:18.600		DMS:	: *RECORD	DMS Control Tape runup 7.68kps	2R3	4	0	3,599,447:45.0	
1738	96	250	18:38:18.600		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *2468.97 +/- 1	2R3	4	0	3,599,447:54.7	
1739	96	250	18:38:20.000	428PG6A	6RCCLR		7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,599,447:56.0	
1740	96	250	18:38:20.666	428PG6B	6RCSET		R7, TRACK 3, FWD, TIC 2469.09 +/- 1	2R3	4	0	3,599,447:56.9	
1741	96	250	18:38:22.000	G2GNANTUM_01-		-----START-----	##### GROUP START TAB	2R3	4	0	3,599,447:84.0	
1742	96	250	18:38:22.000	165DO4A	7TMOT	DIS,TMC	Full Map, Grating Start Position =00	2R1	4	0	3,599,447:84.0	
1743	96	250	18:38:22.666	165DO4B	7SCAN	NORM,269,606998,	Loads wavelength edit table	2R1	4	0	3,599,447:85.0	
1744	96	250	18:38:24.000		DMS:	: *RUNDOWN	##### GROUP END TAB	2R1	4	0	3,599,448:06.0	
1745	96	250	18:38:24.000	175TD422A6A	6DMSC	R7.0	**** GROUP START CSMOS	2R1	4	0	3,599,448:06.0	
1746	96	250	18:38:27.133		DMS:	: *RUNUP		2R1	4	0	3,599,448:14.0	
1747	96	250	18:38:28.000	175TD176A6A	6TMREC	LPW		2R1	4	0	3,599,448:15.0	
1748	96	250	18:38:28.600		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *2484.11 +/- 1	2R1	4	0	3,599,448:62.0	
1749	96	250	18:38:28.600		DMS:	: *RECORD	DMS Control Tape runup 28.8kbp	2R1	4	0	3,599,448:62.0	
1750	96	250	18:38:46.666	127DO	NIMSTAB	GS		2R1	4	0	3,599,448:62.0	
1751	96	250	18:38:46.666	127DO4A	37IOP	1,0		2R1	4	0	3,599,448:62.0	
1752	96	250	18:38:47.333	127DO4B	37ETB	04,C4,1B,FF,FF		2R1	4	0	3,599,448:62.0	
1753	96	250	18:38:55.333	127DO11A	NIMSTAB	GE		2R1	4	0	3,599,448:62.0	
1754	96	250	18:38:55.333	117DO	CSMOS	GS		2R1	4	0	3,599,448:62.0	
1755	96	250	18:39:00.666	428PH6A	6RCCLR			2R1	4	0	3,599,448:62.0	
1756	96	250	18:39:01.333	428PH6B	6RCSET			2R1	4	0	3,599,448:62.0	
1757	96	250	18:39:32.666		DMS:	: *RUNDOWN		2R1	4	0	3,599,448:62.0	
1758	96	250	18:39:32.666	175DO422A6A	6DMSC	R28,0		2R1	4	0	3,599,448:62.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1759	96	250	18:39:34.066		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *2484.17 +/- 1	2R1	4	0	3,599,448:64:1	
1760	96	250	18:39:37.333	165DO4C	7VECT		Inert vect update UTC	2R1	4	0	3,599,448:69:0	
1761	96	250	18:39:38.000	175DO176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R1	4	0	3,599,448:70:0	
1762	96	250	18:39:38.000	165DO4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R1	4	0	3,599,448:70:0	
1763	96	250	18:39:38.066		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *2485.67 +/- 1	2R1	4	0	3,599,448:70:1	
1764	96	250	18:39:38.066		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC *2485.67 +/- 1	2R1	4	0	3,599,448:70:1	
1765	96	250	18:39:38.629	G2GNANTUM01_	NIMPBK	301DO	DARK RAYED CRATER ANTUM	2R1	4	0	:	:
1766	96	250	18:39:38.666	117DO105A106A4A	7STRP	-0.017002,0.0,0.0,	Slew =0.06	2R1	4	0	3,599,448:71:0	
1767	96	250	18:42:01.333	428PI6A	6RCCLR			2R1	4	0	3,599,451:12:0	
1768	96	250	18:42:02.000	428PI6B	6RCSET			2R1	4	0	3,599,451:13:0	
1769	96	250	18:44:24.629	G2GNANTUM 01-	DESEL	300DO	DARK RAYED CRATER ANTUM	2R1	4	0	:	:
1770	96	250	18:44:24.666	117DO11A	CSMOS	GE	***** GROUP END CSMOS	2R1	4	0	3,599,453:45:0	
1771	96	250	18:44:25.333	G2GNANTUM 01-		*****STOP*****		2R1	4	0	:	:
1772	96	250	18:44:26.000		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *2738.73 +/- 1	2R1	4	0	3,599,453:47:0	
1773	96	250	18:44:26.000	175TE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R1	4	0	3,599,453:47:0	
1774	96	250	18:44:27.400		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2738.95 +/- 1	2R1	4	0	3,599,453:49:1	
1775	96	250	18:44:28.666	175TE176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R1	4	0	3,599,453:51:0	
1776	96	250	18:44:28.666		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2739.07 +/- 1	2R1	4	0	3,599,453:51:3	
1777	96	250	18:44:28.666		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *2739.07 +/- 1	2R1	4	0	3,599,453:51:3	
1778	96	250	18:44:30.000	165I14A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R1	4	0	3,599,453:53:0	
1779	96	250	18:44:30.666	165I14B	7SCAN	NORM,255.4499999,	Check SIP Position	2R1	4	0	3,599,453:54:0	
1780	96	250	18:44:50.666	127DP4A	37IOP	7.1	Fixed Map, Grating Start Position =01	2R7	4	1	3,599,453:84:0	
1781	96	250	18:44:50.666	127DP	NIMSTAB	GS	%%%% GROUP START TAB	2R7	4	1	3,599,453:84:0	
1782	96	250	18:44:51.333	127DP4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	2R7	4	1	3,599,453:85:0	
1783	96	250	18:44:59.333	117I1	CSMOS	GS	***** GROUP START CSMOS	2R7	4	1	3,599,454:06:0	
1784	96	250	18:44:59.333	127DP11A	NIMSTAB	GE	%%%% GROUP END TAB	2R7	4	1	3,599,454:06:0	
1785	96	250	18:45:05.333	428PJ6A	6RCCLR			2R7	4	1	3,599,454:15:0	
1786	96	250	18:45:06.000	428PJ6B	6RCSET			2R7	4	1	3,599,454:16:0	
1787	96	250	18:45:36.000		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *2754.81 +/- 1	2R7	4	1	3,599,454:61:0	
1788	96	250	18:45:36.000	175IH422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R7	4	1	3,599,454:61:0	
1789	96	250	18:45:36.000	165I14C	7VECT		Inert vect update UTC	2R7	4	1	3,599,454:61:0	
1790	96	250	18:45:36.666	165I14D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R7	4	1	3,599,454:62:0	
1791	96	250	18:45:37.333	117I105A106A4A	7STRP	-0.103679,0.0,0.0,	Slew =3.16	2R7	4	1	3,599,454:63:0	
1792	96	250	18:45:37.400		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2754.87 +/- 1	2R7	4	1	3,599,454:63:1	
1793	96	250	18:45:42.000	175IH176A6A	6TMREC	A18	806.4 KBPS SSI RECORD Record Mode Change	2R7	4	1	3,599,454:70:0	
1794	96	250	18:45:42.600		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 2818.88 +/- 2	2R7	4	1	3,599,454:70:9	
1795	96	250	18:45:42.600		DMS:	: *RECORD	R806, TRACK 3, FWD, TIC *2818.88 +/- 1	2R7	4	1	3,599,454:70:9	
1796	96	250	18:45:51.333	125DP	37IST	0.2,0,OFF,0.1,1	Gain State 4	4R7	4	1	3,599,454:84:0	
1797	96	250	18:45:51.333	125DP	NIMSINIT	GS	##### GROUP START INIT	4R7	4	1	3,599,454:84:0	
1798	96	250	18:45:56.666	428PK6A	6RCCLR			4R7	4	1	3,599,455:01:0	
1799	96	250	18:45:57.333	428PK6B	6RCSET			4R7	4	1	3,599,455:02:0	
1800	96	250	18:46:12.666	175TF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,599,455:25:0	
1801	96	250	18:46:12.666		DMS:	: *RUNDOWN	R806, TRACK 3, FWD, TIC *3558.80 +/- 2	4R7	4	1	3,599,455:25:0	
1802	96	250	18:46:15.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3569.80 +/- 2	4R7	4	1	3,599,455:29:7	
1803	96	250	18:46:16.666	175TF176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R7	4	1	3,599,455:31:0	
1804	96	250	18:46:17.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3569.92 +/- 2	4R7	4	1	3,599,455:31:9	
1805	96	250	18:46:17.266		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *3569.92 +/- 2	4R7	4	1	3,599,455:31:9	
1806	96	250	18:46:17.333	117I11A	CSMOS	GE	***** GROUP END CSMOS	4R7	4	1	3,599,455:32:0	
1807	96	250	18:46:32.000	165I14A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,599,455:54:0	
1808	96	250	18:46:32.666	165I14B	7SCAN	NORM,238.57,47.	Check SIP Position	4R7	4	1	3,599,455:55:0	
1809	96	250	18:46:34.000	428PL6A	6RCCLR			4R7	4	1	3,599,455:57:0	
1810	96	250	18:46:34.666	428PL6B	6RCSET			4R7	4	1	3,599,455:58:0	
1811	96	250	18:46:48.666	118IH	SMOS	GS		4R7	4	1	3,599,455:79:0	
1812	96	250	18:46:52.000	175I422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R7	4	1	3,599,455:84:0	
1813	96	250	18:46:52.000	125DP11A	NIMSINIT	GE	##### GROUP END INIT	4R7	4	1	3,599,455:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1814	96	250	18:46:52.000	125DP4B	37MPT	1,1,1	Modify Parameter Table (affects scanning m	4R7	4	1	3,599,455:84:0	
1815	96	250	18:46:52.000		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *3578.06 +/- 2	4R7	4	1	3,599,455:84:0	
1816	96	250	18:46:53.400		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *3578.12 +/- 2	4R7	4	1	3,599,455:86:1	
1817	96	250	18:46:55.333	165IH4C	7VECT		Inert vect update UTC	4R7	4	1	3,599,455:89:0	
1818	96	250	18:46:56.000	165IH4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R7	4	1	3,599,455:90:0	
1819	96	250	18:46:58.000	175I176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R7	4	1	3,599,456:02:0	
1820	96	250	18:46:58.600		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3642.14 +/- 2	4R7	4	1	3,599,456:02:9	
1821	96	250	18:46:58.600		DMS:	: *RECORD	R806, TRACK 3, FWD, TIC *3642.14 +/- 2	4R7	4	1	3,599,456:02:9	
1822	96	250	18:46:58.666	118IH10A111A4A	7STRP	0.0073,0.0,26.0,	Slew =2,2.5	4R7	4	1	3,599,456:03:0	
1823	96	250	18:47:00.667	G2GNLIMBSC01+		-----START-----		4R7	4	1	:	
1824	96	250	18:47:05.333	428PM6A	6RCCLR			4R7	4	1	3,599,456:13:0	
1825	96	250	18:47:06.000	428PM6B	6RCSET			4R7	4	1	3,599,456:14:0	
1826	96	250	18:47:07.333	165CL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,599,456:16:0	
1827	96	250	18:47:07.333	118IH1A	SMOS	GE		4R7	4	1	3,599,456:16:0	
1828	96	250	18:47:08.000	165CL4B	7SCAN	NORM,265.2,69997,	Check S/P Position	4R7	4	1	3,599,456:17:0	
1829	96	250	18:47:14.000	175TG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,599,456:26:0	
1830	96	250	18:47:14.000		DMS:	: *RUNDOWN	R806, TRACK 3, FWD, TIC *4021.12 +/- 2	4R7	4	1	3,599,456:26:0	
1831	96	250	18:47:17.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4032.12 +/- 2	4R7	4	1	3,599,456:30:7	
1832	96	250	18:47:18.000	175TG176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R7	4	1	3,599,456:32:0	
1833	96	250	18:47:18.600		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4032.24 +/- 2	4R7	4	1	3,599,456:32:9	
1834	96	250	18:47:18.600		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4032.24 +/- 2	4R7	4	1	3,599,456:32:9	
1835	96	250	18:47:34.000	428PN6A	6RCCLR			4R7	4	1	3,599,456:56:0	
1836	96	250	18:47:34.666	428PN6B	6RCSET			4R7	4	1	3,599,456:57:0	
1837	96	250	18:47:51.333		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4039.91 +/- 2	4R7	4	1	3,599,456:82:0	
1838	96	250	18:47:51.333	175CA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R7	4	1	3,599,456:82:0	
1839	96	250	18:47:52.733		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *4039.97 +/- 2	4R7	4	1	3,599,456:84:1	
1840	96	250	18:47:56.666	175CA176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R7	4	1	3,599,456:90:0	
1841	96	250	18:47:56.733		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *4041.47 +/- 2	4R7	4	1	3,599,456:90:1	
1842	96	250	18:47:56.733		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 4041.47 +/- 2	4R7	4	1	3,599,456:90:1	
1843	96	250	18:47:57.295	G2GNLIMBSC01+	NIMPBK	301DP	LIMB SCAN FOR ATMOSPHERE	4R7	4	1	:	
1844	96	250	18:49:27.333	428PO6A	6RCCLR			4R7	4	1	3,599,458:44:0	
1845	96	250	18:49:28.000	428PO6B	6RCSET			4R7	4	1	3,599,458:45:0	
1846	96	250	18:50:58.629	G2GNLIMBSC01+	DESEL	300DP	LIMB SCAN FOR ATMOSPHERE	4R7	4	1	:	
1847	96	250	18:50:59.333		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *4201.96 +/- 2	4R7	4	1	3,599,460:00:0	
1848	96	250	18:50:59.333	175TH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R7	4	1	3,599,460:00:0	
1849	96	250	18:51:00.733		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4202.18 +/- 2	4R7	4	1	3,599,460:02:1	
1850	96	250	18:51:02.000	175TH176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R7	4	1	3,599,460:04:0	
1851	96	250	18:51:02.200		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *4202.30 +/- 2	4R7	4	1	3,599,460:04:3	
1852	96	250	18:51:02.200		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4202.30 +/- 2	4R7	4	1	3,599,460:04:3	
1853	96	250	18:51:03.333	G2GNLIMBSC01+		-----STOP-----		4R7	4	1	:	
1854	96	250	18:51:06.666	165J4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	4	1	3,599,460:11:0	
1855	96	250	18:51:07.333	165J4B	7SCAN	NORM,253.327,-34	Check S/P Position	4R7	4	1	3,599,460:12:0	
1856	96	250	18:51:44.666	428P6A	6RCCLR			4R7	4	1	3,599,460:68:0	
1857	96	250	18:51:45.333	428P6B	6RCSET			4R7	4	1	3,599,460:69:0	
1858	96	250	18:52:04.000	117IJ	C-SMOS	GS	***** GROUP START CSMOS	4R7	4	1	3,599,461:06:0	
1859	96	250	18:52:17.333	165J4C	7VECT		Inert vect update UTC	4R7	4	1	3,599,461:26:0	
1860	96	250	18:52:17.333	175J422A6A	6DMSC	R806.0	DMS Control Tape runup 806.4kb	4R7	4	1	3,599,461:26:0	
1861	96	250	18:52:17.333		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *4219.91 +/- 2	4R7	4	1	3,599,461:26:0	
1862	96	250	18:52:18.000	165J4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R7	4	1	3,599,461:27:0	
1863	96	250	18:52:18.666	117IJ05A106A4A	7STRP	0.040021,0.10476	Slew =7.01	4R7	4	1	3,599,461:28:1	
1864	96	250	18:52:18.733		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *4219.97 +/- 2	4R7	4	1	3,599,461:28:1	
1865	96	250	18:52:23.333	175J176A6A	6TMREC	A/B	806.4 KBPS SSI RECORD Record Mode Change	4R7	4	1	3,599,461:35:0	
1866	96	250	18:52:23.933		DMS:	: *RECORD	R806, TRACK 3, FWD, TIC *4283.98 +/- 2	4R7	4	1	3,599,461:35:9	
1867	96	250	18:52:23.933		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 4283.98 +/- 2	4R7	4	1	3,599,461:35:9	
1868	96	250	18:52:42.000	428PO6A	6RCCLR			4R7	4	1	3,599,461:63:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1869	96	250	18:52:42.666	428PQ6B	6RCSET			4R7	4	1	3,599,461:64:0	
1870	96	250	18:52:56.000	125DQ11A	NIMSINIT	GE	##### GROUP END INIT	4R7	4	1	3,599,461:84:0	
1871	96	250	18:52:56.000	125DQ4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R7	4	1	3,599,461:84:0	
1872	96	250	18:52:56.000	125DQ	NIMSINIT	GS	##### GROUP START INIT	3R7	4	1	3,599,461:84:0	
1873	96	250	18:53:00.666		DMS:	: *RUNDOWN	R806, TRACK 3, FWD, TIC *5187.97 +/- 2	3R7	4	1	3,599,462:00:0	
1874	96	250	18:53:00.666	175T1422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R7	4	1	3,599,462:00:0	
1875	96	250	18:53:03.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5198.97 +/- 3	3R7	4	1	3,599,462:04:7	
1876	96	250	18:53:04.666	175T1176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R7	4	1	3,599,462:06:0	
1877	96	250	18:53:05.266		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *5199.09 +/- 3	3R7	4	1	3,599,462:06:9	
1878	96	250	18:53:05.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5199.09 +/- 3	3R7	4	1	3,599,462:06:9	
1879	96	250	18:53:08.000	G2GNBRFRGR01-		----START-----		3R7	4	1	:	:
1880	96	250	18:53:08.000	117LJ11A	CSMOS	GE	##### GROUP END CSMOS	3R7	4	1	3,599,462:11:0	
1881	96	250	18:53:25.333	165DQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R7	4	1	3,599,462:37:0	
1882	96	250	18:53:26.000	165DQ4B	7SCAN	NORM,274,790997,	Check S/P Position	3R7	4	1	3,599,462:38:0	
1883	96	250	18:53:56.666	127DQ4A	37IOP	1,0	Full Map, Grating Start Position =00	3R1	4	0	3,599,462:84:0	
1884	96	250	18:53:56.666	127DQ	NIMSTAB	GS	##### GROUP START TAB	3R1	4	0	3,599,462:84:0	
1885	96	250	18:53:57.333	127DQ4B	37ETB	04,C4,1B,FF,FF	Loads wavelength edit table	3R1	4	0	3,599,462:85:0	
1886	96	250	18:54:00.666	428PR6A	6RCCLR			3R1	4	0	3,599,462:90:0	
1887	96	250	18:54:01.333	428PR6B	6RCSET			3R1	4	0	3,599,463:00:0	
1888	96	250	18:54:05.333	127DQ11A	NIMSTAB	GE	##### GROUP END TAB	3R1	4	0	3,599,463:06:0	
1889	96	250	18:54:52.666	117DQ	CSMOS	GS	##### GROUP START CSMOS	3R1	4	0	3,599,463:77:0	
1890	96	250	18:54:53.333		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *5224.42 +/- 3	3R1	4	0	3,599,463:78:0	
1891	96	250	18:54:53.333	175DQ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R1	4	0	3,599,463:78:0	
1892	96	250	18:54:54.733		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *5224.48 +/- 3	3R1	4	0	3,599,463:80:1	
1893	96	250	18:54:58.666	175DQ176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R1	4	0	3,599,463:86:0	
1894	96	250	18:54:58.733		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *5225.98 +/- 3	3R1	4	0	3,599,463:86:1	
1895	96	250	18:54:58.733		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 5225.98 +/- 3	3R1	4	0	3,599,463:86:1	
1896	96	250	18:55:00.666	165DQ4C	7VECT		Inert vect update UTC	3R1	4	0	3,599,463:89:0	
1897	96	250	18:55:01.333	165DQ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R1	4	0	3,599,463:90:0	
1898	96	250	18:55:01.981	G2GNBRFRGR01-	NIMPBK	301DQ	BRIGHT FROST AND GROOVE TERRAIN	3R1	4	0	:	:
1899	96	250	18:55:02.000	117DQ105A106A4A	7STRP	-0.00955,0,0,0,0	Slew =-0.06	3R1	4	0	3,599,464:00:0	
1900	96	250	18:56:20.666	428P S6A	6RCCLR			3R1	4	0	3,599,465:27:0	
1901	96	250	18:56:21.333	428P S6B	6RCSET			3R1	4	0	3,599,465:28:0	
1902	96	250	18:57:42.628	G2GNBRFRGR01-	DESEL	300DQ	BRIGHT FROST AND GROOVE TERRAIN	3R1	4	0	:	:
1903	96	250	18:57:42.666	117DQ11A	CSMOS	GE	##### GROUP END CSMOS	3R1	4	0	3,599,466:59:0	
1904	96	250	18:57:44.000	175TJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,599,466:61:0	
1905	96	250	18:57:44.000		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *5371.23 +/- 3	3R1	4	0	3,599,466:61:0	
1906	96	250	18:57:45.400		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5371.45 +/- 3	3R1	4	0	3,599,466:63:1	
1907	96	250	18:57:46.666	175TJ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R1	4	0	3,599,466:65:0	
1908	96	250	18:57:46.866		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *5371.57 +/- 3	3R1	4	0	3,599,466:65:3	
1909	96	250	18:57:46.866		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5371.57 +/- 3	3R1	4	0	3,599,466:65:3	
1910	96	250	18:59:03.333	165C4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,599,467:89:0	
1911	96	250	18:59:04.000	165C4B	7SCAN	NORM,34,389,-82,	Check S/P Position	3R1	4	0	3,599,467:90:0	
1912	96	250	18:59:08.667	G2GNBRFRGR01-		----STOP-----		3R1	4	0	:	:
1913	96	250	19:11:15.333	165GL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,599,480:04:0	
1914	96	250	19:11:16.000	165GL4B	7SCAN	NORM,67,235999,-	Check S/P Position	3R1	4	0	3,599,480:05:0	
1915	96	250	19:12:13.333	428PT6A	6RCCLR			3R1	4	0	3,599,481:00:0	
1916	96	250	19:12:17.333	117GL	CSMOS	GS	##### GROUP START CSMOS	3R1	4	0	3,599,481:06:0	
1917	96	250	19:12:35.333	165GL4C	7VECT		Inert vect update UTC	3R1	4	0	3,599,481:33:0	
1918	96	250	19:12:36.000	165GL4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R1	4	0	3,599,481:34:0	
1919	96	250	19:12:36.666	117GL105A106A4A	7STRP	-0.04503,0,0,0,0	Slew =2.01	3R1	4	0	3,599,481:35:0	
1920	96	250	19:13:04.000	117GL105A106A4B	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,481:76:0	
1921	96	250	19:13:10.000	117GL105A106A4C	7STRP	-0.04503,0,0,0,0	Slew =2.01	3R1	4	0	3,599,481:85:0	
1922	96	250	19:13:37.333	117GL105A106A4D	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,482:35:0	
1923	96	250	19:13:43.333	117GL105A106A4E	7STRP	-0.04503,0,0,0,0	Slew =2.01	3R1	4	0	3,599,482:44:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1924	96	250	19:14:10.666	117GL105A106A4F	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,482,85:0	
1925	96	250	19:14:16.666	117GL105A106A4G	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,483:0:3:0	
1926	96	250	19:14:44.000	117GL105A106A4H	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,483:4:4:0	
1927	96	250	19:14:50.000	117GL105A106A4I	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,483:5:3:0	
1928	96	250	19:15:17.333	117GL105A106A4J	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,484:0:3:0	
1929	96	250	19:15:23.333	117GL105A106A4K	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,484:1:2:0	
1930	96	250	19:15:50.666	117GL105A106A4L	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,484:5:3:0	
1931	96	250	19:15:56.666	117GL105A106A4M	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,484:6:2:0	
1932	96	250	19:16:24.000	117GL105A106A4N	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,485:1:2:0	
1933	96	250	19:16:30.000	117GL105A106A4O	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,485:2:1:0	
1934	96	250	19:16:57.333	117GL105A106A4P	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,485:6:2:0	
1935	96	250	19:17:03.333	117GL105A106A4Q	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,485:7:1:0	
1936	96	250	19:17:30.666	117GL105A106A4R	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,486:2:1:0	
1937	96	250	19:17:36.666	117GL105A106A4S	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,486:3:0:0	
1938	96	250	19:18:04.000	117GL105A106A4T	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,486:7:1:0	
1939	96	250	19:18:10.000	117GL105A106A4U	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,486:8:0:0	
1940	96	250	19:18:37.333	117GL105A106A4V	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,487:3:0:0	
1941	96	250	19:18:43.333	117GL105A106A4W	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,487:3:9:0	
1942	96	250	19:19:10.666	117GL105A106A4X	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,487:8:0:0	
1943	96	250	19:19:16.666	117GL105A106A4Y	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,487:8:9:0	
1944	96	250	19:19:44.000	117GL105A106A4Z	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,488:3:9:0	
1945	96	250	19:19:50.000	117GL105A106A4A	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,488:4:8:0	
1946	96	250	19:20:17.333	117GL105A106A4B	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,488:8:9:0	
1947	96	250	19:20:23.333	117GL105A106A4C	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,489:0:7:0	
1948	96	250	19:20:50.666	117GL105A106A4D	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,489:4:8:0	
1949	96	250	19:20:56.666	117GL105A106A4E	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,489:5:7:0	
1950	96	250	19:21:24.000	117GL105A106A4F	7STRP	0.045531,-0.003,	Slew =17.44	3R1	4	0	3,599,490:0:7:0	
1951	96	250	19:21:30.000	117GL105A106A4G	7STRP	-0.04503,0.0,0.0	Slew =2.01	3R1	4	0	3,599,490:16:0	
1952	96	250	19:21:57.333	117GL11A	CSMOS	GE	**** GROUP END CSMOS	3R1	4	0	3,599,490:57:0	
1953	96	250	19:24:20.000	165GA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,599,492:89:0	
1954	96	250	19:24:20.666	165GA4B	7SCAN	NORM,78.639999,5	Check S/P Position	3R1	4	0	3,599,492:90:0	
1955	96	250	19:24:21.333	432MZ6A	6RTSL1		R/T Select of DDS and	3R1	4	0	3,599,493:00:0	
1956	96	250	19:25:12.666	117GA	CSMOS	GS	**** GROUP START CSMOS	3R1	4	0	3,599,493:77:0	
1957	96	250	19:25:20.666	165GA4C	7VECT		Inert vect update UTC	3R1	4	0	3,599,493:89:0	
1958	96	250	19:25:21.333	165GA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R1	4	0	3,599,493:90:0	
1959	96	250	19:25:22.000	117GA105A106A4A	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,494:00:0	
1960	96	250	19:26:47.333	117GA105A106A4B	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,495:37:0	
1961	96	250	19:26:52.666	117GA105A106A4C	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,495:45:0	
1962	96	250	19:28:18.000	117GA105A106A4D	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,496:82:0	
1963	96	250	19:28:22.000	432FA431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	3R1	4	0	3,599,496:88:0	
1964	96	250	19:28:22.666	432FA6A	6RTSL1		R/T Select of DDS and	3R1	4	0	3,599,496:89:0	
1965	96	250	19:28:23.333	117GA105A106A4E	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,496:90:0	
1966	96	250	19:28:24.000	432FB431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	3R1	4	0	3,599,497:00:0	
1967	96	250	19:28:24.666	432FB6A	6RTSL1		R/T Select of DDS and	3R1	4	0	3,599,497:0:1:0	
1968	96	250	19:28:26.000	175TJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,599,497:0:3:0	
1969	96	250	19:28:26.000		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *5802.61 +/- 3	3R1	4	0	3,599,497:0:3:0	
1970	96	250	19:28:32.000	282NH431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R1	4	0	3,599,497:12:0	
1971	96	250	19:29:20.666	282NH432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R1	4	0	3,599,497:85:0	
1972	96	250	19:29:21.333	282NH432A6A	6RTSL1		R/T Select of DDS and	3R1	4	0	3,599,497:86:0	
1973	96	250	19:29:48.666	117GA105A106A4F	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,498:36:0	
1974	96	250	19:29:54.000	117GA105A106A4G	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,498:44:0	
1975	96	250	19:31:19.333	117GA105A106A4H	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,499:8:1:0	
1976	96	250	19:31:24.666	117GA105A106A4I	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,499:89:0	
1977	96	250	19:32:50.000	117GA105A106A4J	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,501:35:0	
1978	96	250	19:32:55.333	117GA105A106A4K	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,501:43:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
1979	96	250	19:34:20.666	117GA105A106A4L	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,502:80:0	
1980	96	250	19:34:26.000	117GA105A106A4M	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,502:88:0	
1981	96	250	19:35:51.333	117GA105A106A4N	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,504:34:0	
1982	96	250	19:35:56.666	117GA105A106A4O	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,504:42:0	
1983	96	250	19:37:22.000	117GA105A106A4P	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,505:79:0	
1984	96	250	19:37:27.333	117GA105A106A4Q	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,505:87:0	
1985	96	250	19:38:52.666	117GA105A106A4R	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,507:33:0	
1986	96	250	19:38:58.000	117GA105A106A4S	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,507:41:0	
1987	96	250	19:40:23.333	117GA105A106A4T	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,508:78:0	
1988	96	250	19:40:28.666	117GA105A106A4U	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,508:86:0	
1989	96	250	19:41:54.000	117GA105A106A4V	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,510:32:0	
1990	96	250	19:41:59.333	117GA105A106A4W	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,510:40:0	
1991	96	250	19:43:24.666	117GA105A106A4X	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,511:77:0	
1992	96	250	19:43:30.000	117GA105A106A4Y	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,511:85:0	
1993	96	250	19:44:55.333	117GA105A106A4Z	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,513:31:0	
1994	96	250	19:45:00.666	117GA105A106A4AA	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,513:39:0	
1995	96	250	19:46:26.000	117GA105A106A4AB	7STRP	-0.024205,-0.000	Slew =12.01	3R1	4	0	3,599,514:76:0	
1996	96	250	19:46:31.333	117GA105A106A4AC	7STRP	0.025405,0.0,0.0	Slew =0.31	3R1	4	0	3,599,514:84:0	
1997	96	250	19:47:56.666	117GA11A	CSMOS	GE	**** GROUP END CSMOS	3R1	4	0	3,599,516:30:0	
1998	96	250	19:49:58.666	4325B6A	6RTDS2	NIMNCG,AACNCG,RT	R/T ENG DESLECT	3R1	4	0	3,599,518:31:0	
1999	96	250	19:50:36.666	488V6D	6TMSED	FILL,EL3	Sci, Eng, and D/L Chan	3R1	4	0	3,599,518:88:0	
2000	96	250	19:53:31.333	175KG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R1	4	0	3,599,521:77:0	
2001	96	250	19:53:39.400		DMS:	: *RUNUP	R28, TRACK *3, FWD, TIC *5804.07 +/- 3	3R1	4	0	3,599,521:89:1	
2002	96	250	19:53:43.333	175KG176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R1	4	0	3,599,522:04:0	
2003	96	250	19:53:43.400		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *5805.57 +/- 3	3R1	4	0	3,599,522:04:1	
2004	96	250	19:53:43.400		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC *5805.57 +/- 3	3R1	4	0	3,599,522:04:1	
2005	96	250	19:53:44.666	411AA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,599,522:06:0	
2006	96	250	19:53:44.666		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *5806.68 +/- 3	3R1	4	0	3,599,522:06:0	
2007	96	250	19:53:46.066		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5806.90 +/- 3	3R1	4	0	3,599,522:08:1	
2008	96	250	19:53:47.533		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *5807.02 +/- 3	3R1	4	0	3,599,522:10:3	
2009	96	250	19:53:47.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC *5807.02 +/- 3	3R1	4	0	3,599,522:10:3	
2010	96	250	19:53:48.000	411AA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	3R1	4	0	3,599,522:11:0	
2011	96	250	19:55:49.333	411AA6C	6TMREC	NRC	NO RECORD Record Mode Change	3R1	4	0	3,599,524:11:0	
2012	96	250	19:55:50.000	411AA6D	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,599,524:12:0	
2013	96	250	19:55:50.000		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *5835.72 +/- 3	3R1	4	0	3,599,524:12:0	
2014	96	250	19:56:47.333	41VB99A	POWER	PWR MODE change	Change to Maneuver Mode	3R1	4	0	3,599,525:07:0	
2015	96	250	19:56:51.333	41VB3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	3R1	4	0	3,599,525:13:0	
2016	96	250	19:57:01.333	41VB3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	3R1	4	0	3,599,525:28:0	
2017	96	250	19:59:11.333	41VB3G	40T1P		1 PCT Heater 1 ON (primary relay)	3R1	4	0	3,599,527:41:0	
2018	96	250	19:59:21.333	41VB3H	40T1P		2 PCT Heater 1 ON (primary relay)	3R1	4	0	3,599,527:56:0	
2019	96	250	19:59:31.333	41VB3J	40T2		1 PCT Heater 2 ON	3R1	4	0	3,599,527:71:0	
2020	96	250	19:59:41.333	41VB3I	40T2		2 PCT Heater 2 ON	3R1	4	0	3,599,527:86:0	
2021	96	250	20:11:55.333	490UA412A4B	7MODE	INT	AACS INERTIAL MODE	3R1	4	0	3,599,540:04:0	
2022	96	250	20:16:53.333	490UA412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	3R1	4	0	3,599,544:87:0	
2023	96	250	20:19:00.000	4325C6A	6RTSL2	NIMNCG,AACNCG,RT	R/T ENG SELECT	3R1	4	0	3,599,547:04:0	
2024	96	250	20:21:03.333	490UA412A4E	7VECT		Inert vect update UTC	3R1	4	0	3,599,549:07:0	
2025	96	250	20:21:07.333	490UA412A4F	7TURN	1,RTH	ALERT Thruster	3R1	4	0	3,599,549:13:0	
2026	96	250	20:24:55.333	490UA412A406A4A	7STAR	1,632,104,165,-2	Star catalog update	3R1	4	0	3,599,552:82:0	
2027	96	250	20:24:57.333	490UA412A406A4B	7STAR	2,183,84,459,-34	Star catalog update	3R1	4	0	3,599,552:85:0	
2028	96	250	20:24:59.333	490UA412A406A4C	7STAR	3,184,2,664,14.9	Star catalog update	3R1	4	0	3,599,552:88:0	
2029	96	250	20:25:01.333	490UA412A406A4D	7STAR	4,530,309,931,45	Star catalog update	3R1	4	0	3,599,553:00:0	
2030	96	250	20:25:03.333	490UA412A406A4E	7STAR	5,0,0,0,0.0	Star catalog update	3R1	4	0	3,599,553:03:0	
2031	96	250	20:25:05.333	490UA412A406A4F	7STAR	6,0,0,0,0.0	Star catalog update	3R1	4	0	3,599,553:06:0	
2032	96	250	21:00:52.666	432OG431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	3R1	4	0	3,599,588:42:0	
2033	96	250	21:00:53.333	432OG6A	6RTSL1		R/T Select of DDS and	3R1	4	0	3,599,588:43:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2034	96	250	21:02:00.000	41WC99A	POWER		Change to Data Taking Mode	3R1	4	0	3,599,589	52:0
2035	96	250	21:02:04.000	41WC3K	37F2PR	PWR MODE change	1 Shield Flash Heater OFF (primary relay)	3R1	4	0	3,599,589	58:0
2036	96	250	21:02:14.000	41WC3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	3R1	4	0	3,599,589	73:0
2037	96	250	21:02:24.000	41WC3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	3R1	4	0	3,599,589	88:0
2038	96	250	21:02:34.000	41WC3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	3R1	4	0	3,599,590	12:0
2039	96	250	21:02:44.000	41WC3C	40T2R		1 PCT Heater 2 OFF	3R1	4	0	3,599,590	27:0
2040	96	250	21:02:54.000	41WC3D	40T2R		2 PCT Heater 2 OFF	3R1	4	0	3,599,590	42:0
2041	96	250	21:12:26.000	465KA6A	6DTRN	CMD,6DTRN,465KA6	DMS TRACK TURNAROUND	3R1	4	0	3,599,599	81:0
2042	96	250	21:16:39.333	G2NNMMRYLD01		-----START-----		3R1	4	0	:	:
2043	96	250	21:17:40.000	20EB5A	37PL		Program Load (halts microprocessor & unwri	3R1	4	0	3,599,605	06:0
2044	96	250	21:18:40.666	20EB5B	37MRL		Memory Realocate (software operates from R	3R1	4	0	3,599,606	06:0
2045	96	250	21:19:41.333	20EB6A	6MCPY	NIMS	NIMS,1000,LLM1A,7300,77F7	3R1	4	0	3,599,607	06:0
2046	96	250	21:20:42.000	20EB6B	6MCPY	NIMS	NIMS,1598,LLM1A,77F8,781D	3R1	4	0	3,599,608	06:0
2047	96	250	21:21:42.666	20EB6C	6CKSUM	NIMS	NIMS,1000,14B3	3R1	4	0	3,599,609	06:0
2048	96	250	21:22:43.333	20EB5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	3,599,610	06:0
2049	96	250	21:23:44.000	20EB5D	37MNI		Memory Normal (software operates from ROM)	260	4	0	3,599,611	06:0
2050	96	250	21:24:44.666	20EB4A	37IST	1,2,0,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	3,599,612	06:0
2051	96	250	21:25:45.333	G2NNMMRYLD01		-----STOP-----		2R0	4	0	:	:
2052	96	250	21:35:57.333	165AN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,599,623	14:0
2053	96	250	21:35:58.000	165AN4B	7SCAN	NORM,276.410999,	Check S/P Position	2R0	4	0	3,599,623	15:0
2054	96	250	21:37:39.333	175AB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	3,599,624	76:0
2055	96	250	21:37:47.400		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *6026.77 +/-	2R0	4	0	3,599,624	88:1
2056	96	250	21:37:48.666	175AB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R0	4	0	3,599,624	90:0
2057	96	250	21:37:48.866		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *6026.65 +/-	2R0	4	0	3,599,624	90:3
2058	96	250	21:37:48.866		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 6026.65 +/-	2R0	4	0	3,599,624	90:3
2059	96	250	21:38:40.666	117AC	CSMOS	GS	**** GROUP START CSMOS	2R0	4	0	3,599,625	77:0
2060	96	250	21:38:48.666	165AN4C	7VECT		Inert vect update UTC	2R0	4	0	3,599,625	89:0
2061	96	250	21:38:49.333	165AN4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R0	4	0	3,599,625	90:0
2062	96	250	21:38:50.000	117AC105A106A4A	7STRP	0.161379,0.03004	Slew = 0.08	2R0	4	0	3,599,626	00:0
2063	96	250	22:06:58.600	432SD6A	6RTDS2	NIMNCG,AACNCG,RT	R/T ENG DESLECT	2R0	4	0	3,599,653	76:0
2064	96	250	22:15:11.266	117AC11A	CSMOS	GE	**** GROUP END CSMOS	2R0	4	0	3,599,661	87:0
2065	96	250	22:15:12.600	165GB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,599,661	89:0
2066	96	250	22:15:13.266	165GB4B	7SCAN	NORM,294.487,-23	Check S/P Position	2R0	4	0	3,599,661	90:0
2067	96	250	22:15:23.933		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *5498.12 +/-	2R0	4	0	3,599,662	15:0
2068	96	250	22:15:23.933	175AB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,599,662	15:0
2069	96	250	22:18:06.600	117GB	CSMOS	GS	**** GROUP START CSMOS	2R0	4	0	3,599,664	77:0
2070	96	250	22:18:15.933	117GB105A106A4A	7STRP	0.0073,0.0,0.0,0.0	Slew = 0.04	2R0	4	0	3,599,665	00:0
2071	96	250	22:21:22.600	117GB105A106A4B	7STRP	-0.0075,0.00135,	Slew = 2.66	2R0	4	0	3,599,668	07:0
2072	96	250	22:21:29.933	117GB105A106A4C	7STRP	0.0073,0.0,0.0,0.0	Slew = 0.04	2R0	4	0	3,599,668	18:0
2073	96	250	22:24:36.600	117GB105A106A4D	7STRP	-0.0075,0.00135,	Slew = 2.66	2R0	4	0	3,599,671	25:0
2074	96	250	22:24:43.933	117GB105A106A4E	7STRP	0.0073,0.0,0.0,0.0	Slew = 0.04	2R0	4	0	3,599,671	36:0
2075	96	250	22:27:50.600	117GB105A106A4F	7STRP	-0.0075,0.00135,	Slew = 2.66	2R0	4	0	3,599,674	43:0
2076	96	250	22:27:57.933	117GB105A106A4G	7STRP	0.0073,0.0,0.0,0.0	Slew = 0.04	2R0	4	0	3,599,674	54:0
2077	96	250	22:31:04.600	117GB105A106A4H	7STRP	-0.0075,0.00135,	Slew = 2.66	2R0	4	0	3,599,677	61:0
2078	96	250	22:31:11.933	117GB105A106A4I	7STRP	0.0073,0.0,0.0,0.0	Slew = 0.04	2R0	4	0	3,599,677	72:0
2079	96	250	22:33:59.933	432SE6A	6RTSL2	NIMNCG,AACNCG,RT	R/T ENG SELECT	2R0	4	0	3,599,680	51:0
2080	96	250	22:34:18.600	117GB11A	CSMOS	GE	**** GROUP END CSMOS	2R0	4	0	3,599,680	79:0
2081	96	250	22:40:34.600	411AC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	3,599,687	06:0
2082	96	250	22:40:42.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5499.46 +/-	2R0	4	0	3,599,687	18:1
2083	96	250	22:40:44.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5499.34 +/-	2R0	4	0	3,599,687	20:3
2084	96	250	22:40:44.133		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *5499.34 +/-	2R0	4	0	3,599,687	20:3
2085	96	250	22:40:44.600	411AC6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R0	4	0	3,599,687	21:0
2086	96	250	22:42:45.933	411AC6C	6TMREC	NRC	NO RECORD Record Mode Change	2R0	4	0	3,599,689	21:0
2087	96	250	22:42:48.600	175TL176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R0	4	0	3,599,689	25:0
2088	96	250	22:42:49.266	175TL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	3,599,689	26:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2089	96	250	22:42:55.933	175TL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,599,689	36:0
2090	96	250	22:42:55.933		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *5468.45 +/-	2R0	4	0	3,599,689	36:0
2091	96	250	22:46:38.666	G2INCHEMIS01-		-----START-----		2R0	4	0	:	:
2092	96	250	22:47:33.933	165DR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,599,693	89:0
2093	96	250	22:47:34.600	165DR4B	7SCAN	NORM;294,704998,	Check S/P Position	2R0	4	0	3,599,693	90:0
2094	96	250	22:48:31.266	125DR	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	3,599,694	84:0
2095	96	250	22:48:31.266	125DR4A	37IST	1,2,0,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	3,599,694	84:0
2096	96	250	22:48:31.266	125DR11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	3,599,694	84:0
2097	96	250	22:49:31.933	127DR4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,599,695	84:0
2098	96	250	22:49:31.933	127DR	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	3,599,695	84:0
2099	96	250	22:49:32.600	127DR4B	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,599,695	85:0
2100	96	250	22:49:40.600	127DR11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	3,599,696	06:0
2101	96	250	22:50:21.933	175DR422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,599,696	68:0
2102	96	250	22:50:27.933	117DR	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,599,696	77:0
2103	96	250	22:50:30.000		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *5469.78 +/-	2R3	4	0	3,599,696	80:1
2104	96	250	22:50:33.933	175DR176A6A	6TMREC	MPW	R28, TRACK 4, REV, TIC *5468.28 +/-	2R3	4	0	3,599,696	86:0
2105	96	250	22:50:34.000		DMS:	: *AT SPD	R28, TRACK 4, REV, TIC *5468.28 +/-	2R3	4	0	3,599,696	86:1
2106	96	250	22:50:34.000		DMS:	: *RECORD	R28, TRACK 4, REV, TIC *5468.28 +/-	2R3	4	0	3,599,696	86:1
2107	96	250	22:50:37.266	117DR105A106A4A	7STRP	0,00592,0,0,0,0,0,	Slew =0.03	2R3	4	0	3,599,697	00:0
2108	96	250	22:50:37.287	G2INCHEMIS01-	NIMPBK	301DR	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2109	96	250	22:53:55.933	117DR11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,599,700	25:0
2110	96	250	22:53:55.954	G2INCHEMIS01-	DESEL	300DR	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2111	96	250	22:53:57.266	175DR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,599,700	27:0
2112	96	250	22:53:57.266		DMS:	: *RUNDOWN	R28, TRACK 4, REV, TIC *5289.63 +/-	2R3	4	0	3,599,700	27:0
2113	96	250	22:53:59.933	41VC99A	POWER	PWR MODE change	Change to Maneuver Mode	2R3	4	0	3,599,700	31:0
2114	96	250	22:54:00.000	G2INCHEMIS01-		-----STOP-----		2R3	4	0	:	:
2115	96	250	22:54:03.933	41VC3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	2R3	4	0	3,599,700	37:0
2116	96	250	22:54:13.933	41VC3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	2R3	4	0	3,599,700	52:0
2117	96	250	22:56:23.933	41VC3G	40T1P		1 PCT Heater 1 ON (primary relay)	2R3	4	0	3,599,702	65:0
2118	96	250	22:56:33.933	41VC3H	40T1P		2 PCT Heater 1 ON (primary relay)	2R3	4	0	3,599,702	80:0
2119	96	250	22:56:43.933	41VC3J	40T2		1 PCT Heater 2 ON	2R3	4	0	3,599,703	04:0
2120	96	250	22:56:53.933	41VC3I	40T2		2 PCT Heater 2 ON	2R3	4	0	3,599,703	19:0
2121	96	250	23:09:01.933	490A412A4B	7MODE	INT	AACS INERTIAL MODE	2R3	4	0	3,599,715	19:0
2122	96	250	23:13:59.933	490A412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	2R3	4	0	3,599,720	11:0
2123	96	250	23:18:09.933	490A412A4E	7VECT		Inert vect update UTC	2R3	4	0	3,599,724	22:0
2124	96	250	23:18:13.933	490A412A4F	7TURN	1,RTH	ALERT Thruster	2R3	4	0	3,599,724	28:0
2125	96	250	23:22:01.933	490A412A406A4A	7STAR	1,3000,95,710999	Star catalog update	2R3	4	0	3,599,728	06:0
2126	96	250	23:22:03.933	490A412A406A4B	7STAR	2,293,1,451,28.8	Star catalog update	2R3	4	0	3,599,728	09:0
2127	96	250	23:22:05.933	490A412A406A4C	7STAR	3,131,322.01	Star catalog update	2R3	4	0	3,599,728	12:0
2128	96	250	23:22:07.933	490A412A406A4D	7STAR	4,142,193.42	Star catalog update	2R3	4	0	3,599,728	15:0
2129	96	250	23:22:09.933	490A412A406A4E	7STAR	5,0,0,0,0,0,0	Star catalog update	2R3	4	0	3,599,728	18:0
2130	96	250	23:22:11.933	490A412A406A4F	7STAR	6,0,0,0,0,0,0	Star catalog update	2R3	4	0	3,599,728	21:0
2131	96	251	00:35:25.266	488W6A	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	2R3	4	0	3,599,800	59:0
2132	96	251	00:37:17.266	432O1431A6A	6RCDSL	DDSNCG,PL,SDSL,EP	Record Deselect (DDS o	2R3	4	0	3,599,802	45:0
2133	96	251	00:37:17.933	432O16A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,599,802	46:0
2134	96	251	01:01:52.600	488W6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	3,599,826	74:0
2135	96	251	01:01:59.933	41WD99A	POWER	PWR MODE change	Change to Data Taking Mode	2R3	4	0	3,599,826	85:0
2136	96	251	01:02:03.933	41WD3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	2R3	4	0	3,599,827	00:0
2137	96	251	01:02:13.933	41WD3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	2R3	4	0	3,599,827	15:0
2138	96	251	01:02:23.933	41WD3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	2R3	4	0	3,599,827	30:0
2139	96	251	01:02:33.933	41WD3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	2R3	4	0	3,599,827	45:0
2140	96	251	01:02:43.933	41WD3C	40T2R		1 PCT Heater 2 OFF	2R3	4	0	3,599,827	60:0
2141	96	251	01:02:53.933	41WD3D	40T2R		2 PCT Heater 2 OFF	2R3	4	0	3,599,827	75:0
2142	96	251	01:36:25.266	165IM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,599,860	89:0
2143	96	251	01:36:25.933	165IM4B	7SCAN	NORM;293,098,-24	Check S/P Position	2R3	4	0	3,599,860	90:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2144	96	251	01:40:27.933	165IM4C	7VECT		Inert vect update UTC	2R3	4	0	3,599,864	89:0
2145	96	251	01:40:28.600	165IM4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,599,864	90:0
2146	96	251	01:41:09.933	175IM422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,599,865	61:0
2147	96	251	01:41:18.000		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5290.80 +/-	2R3	4	0	3,599,865	73:1
2148	96	251	01:41:22.600	176IM6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,599,865	80:0
2149	96	251	01:41:23.200		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *5226.79 +/-	2R3	4	0	3,599,865	80:9
2150	96	251	01:41:23.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC *5226.79 +/- 1	2R3	4	0	3,599,865	80:9
2151	96	251	01:41:29.933	176IN6A	6TMREC	A18	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,599,866	00:0
2152	96	251	01:41:37.266	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,599,866	1:10
2153	96	251	01:41:37.266		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC *4880.61 +/- 1	2R3	4	0	3,599,866	1:10
2154	96	251	01:43:58.600	G2INCHEMIS02-		-----START-----		2R3	4	0	:	:
2155	96	251	01:43:58.600	165DT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,599,868	4:10
2156	96	251	01:43:59.266	165DT4B	7SCAN	NORM,292.7359986,	Check S/P Position	2R3	4	0	3,599,868	4:20
2157	96	251	01:45:27.933	125DT4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (RefGain State	2R3	4	0	3,599,869	84:0
2158	96	251	01:45:27.933	125DT	NIM5INIT	GS	##### GROUP START INIT	2R3	4	0	3,599,869	84:0
2159	96	251	01:45:27.933	125DT11A	NIM5INIT	GE	##### GROUP END INIT	2R3	4	0	3,599,869	84:0
2160	96	251	01:46:28.600	127DT	NIM5TAB	GS	##### GROUP START TAB	2R3	4	0	3,599,870	84:0
2161	96	251	01:46:28.600	127DT4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,599,870	84:0
2162	96	251	01:46:29.266	127DT4B	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,599,870	85:0
2163	96	251	01:46:37.266	127DT11A	NIM5TAB	GE	##### GROUP END TAB	2R3	4	0	3,599,871	06:0
2164	96	251	01:46:51.933	175DT422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,599,871	28:0
2165	96	251	01:46:52.600	117DT	CSMOS	GS	##### GROUP START CSMOS	2R3	4	0	3,599,871	29:0
2166	96	251	01:47:00.000		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4871.01 +/- 1	2R3	4	0	3,599,871	40:1
2167	96	251	01:47:01.266	175DT176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,599,871	42:0
2168	96	251	01:47:01.466		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4870.89 +/- 1	2R3	4	0	3,599,871	42:3
2169	96	251	01:47:01.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4870.89 +/- 1	2R3	4	0	3,599,871	42:3
2170	96	251	01:47:01.933	117DT105A106A4A	7STRP	-0.007,0,0,0,0,0,0	Slew =0.03	2R3	4	0	3,599,871	43:0
2171	96	251	01:47:01.947	G2INCHEMIS02-	NIMPBK	301DT	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2172	96	251	01:51:04.600	117DT11A	CSMOS	GE	##### GROUP END CSMOS	2R3	4	0	3,599,875	43:0
2173	96	251	01:51:04.813	G2INCHEMIS02-	DESEL	300DT	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2174	96	251	01:51:15.933	175DT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,599,875	60:0
2175	96	251	01:51:15.933	175DT6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,599,875	60:0
2176	96	251	01:51:15.933		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *4811.25 +/- 1	2R3	4	0	3,599,875	60:0
2177	96	251	01:53:27.266	G2INCHEMIS02-		-----STOP-----		2R3	4	0	:	:
2178	96	251	02:50:19.333	G2HNDARK_03-		-----START-----		2R3	4	0	:	:
2179	96	251	02:50:51.933	165DS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,599,934	55:0
2180	96	251	02:50:52.600	165DS4B	7SCAN	NORM,291.024998,	Check S/P Position	2R3	4	0	3,599,934	56:0
2181	96	251	02:54:13.266	127DS	NIM5TAB	GS	##### GROUP START TAB	2R3	4	0	3,599,937	84:0
2182	96	251	02:54:13.933	127DS4A	37ETB	07,C7,05,FF,FF,3	Loads wavelength edit table	2R3	4	0	3,599,937	85:0
2183	96	251	02:54:21.933	127DS11A	NIM5TAB	GE	##### GROUP END TAB	2R3	4	0	3,599,938	06:0
2184	96	251	02:55:05.933	175DS422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,599,938	72:0
2185	96	251	02:55:13.933	125DS4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R3	4	0	3,599,938	84:0
2186	96	251	02:55:13.933	125DS	NIM5INIT	GS	##### GROUP START INIT	3R3	4	0	3,599,938	84:0
2187	96	251	02:55:13.933	125DS11A	NIM5INIT	GE	##### GROUP END INIT	3R3	4	0	3,599,938	84:0
2188	96	251	02:55:14.000	175DS176A6A	6TMREC	MPW	R28, TRACK *4, *REV, TIC *4812.58 +/- 1	3R3	4	0	3,599,938	84:1
2189	96	251	02:55:17.933		DMS:	: *RECORD	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,599,938	90:0
2190	96	251	02:55:18.000		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC *4811.08 +/- 1	3R3	4	0	3,599,938	90:1
2191	96	251	02:55:18.000		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 4811.08 +/- 1	3R3	4	0	3,599,938	90:1
2192	96	251	02:55:18.611	G2HNDARK_03-	NIMPBK	301DS	DARK SKY	3R3	4	0	:	:
2193	96	251	02:56:19.278	G2HNDARK_03-	DESEL	300DS	DARK SKY	3R3	4	0	:	:
2194	96	251	02:56:25.933	175DS422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,599,940	10:0
2195	96	251	02:56:25.933		DMS:	: *RUNDOWN	R28, TRACK 4, REV, TIC *4751.38 +/- 1	3R3	4	0	3,599,940	10:0
2196	96	251	02:57:23.999	G2HNDARK_03-		-----STOP-----		3R3	4	0	:	:
2197	96	251	03:00:21.933	192GN4A	7CONE	17,45,0,0	Check S/P Position	3R3	4	0	3,599,944	00:0
2198	96	251	03:39:44.600	488W6C	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	3R3	4	0	3,599,982	86:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2199	96	251	03:48:39.266	488W6D	6TMSED	FILL,EL3	Sci, Eng, and D/L Chan	3R3	4	0	3,599,991:69:0	
2200	96	251	04:25:27.266	488W6E	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	3R3	4	0	3,600,028:14:0	
2201	96	251	04:43:44.600	488X6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	3R3	4	0	3,600,046:22:0	
2202	96	251	04:51:57.933	165G04A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,600,054:34:0	
2203	96	251	04:51:58.600	165G04B	7SCAN	NORM;289,900997,	Check S/P Position	3R3	4	0	3,600,054:35:0	
2204	96	251	04:55:41.933	117G0	CSMOS	GS	**** GROUP START CSMOS	3R3	4	0	3,600,058:06:0	
2205	96	251	04:56:01.933	117G0105A106A4A	7STRP	0.009,0.0,0.0,0.0	Slew = 0.06	3R3	4	0	3,600,058:36:0	
2206	96	251	04:58:41.266	117G0105A106A4B	7STRP	-0.0086,0.0012,0	Slew = 4.01	3R3	4	0	3,600,061:02:0	
2207	96	251	04:58:46.600	117G0105A106A4C	7STRP	0.009,0.0,0.0,0.0	Slew = 0.06	3R3	4	0	3,600,061:10:0	
2208	96	251	05:01:25.933	117G0105A106A4D	7STRP	-0.0086,0.0012,0	Slew = 4.01	3R3	4	0	3,600,063:67:0	
2209	96	251	05:01:31.266	117G0105A106A4E	7STRP	0.009,0.0,0.0,0.0	Slew = 0.06	3R3	4	0	3,600,063:75:0	
2210	96	251	05:04:10.600	117G0105A106A4F	7STRP	-0.0086,0.0012,0	Slew = 4.01	3R3	4	0	3,600,066:41:0	
2211	96	251	05:04:15.933	117G0105A106A4G	7STRP	0.009,0.0,0.0,0.0	Slew = 0.06	3R3	4	0	3,600,066:49:0	
2212	96	251	05:06:55.266	117G0105A106A4H	7STRP	-0.0086,0.0012,0	Slew = 4.01	3R3	4	0	3,600,069:15:0	
2213	96	251	05:07:00.600	117G0105A106A4I	7STRP	0.009,0.0,0.0,0.0	Slew = 0.06	3R3	4	0	3,600,069:23:0	
2214	96	251	05:09:39.933	117G0105A106A4J	7STRP	-0.0086,0.0012,0	Slew = 4.01	3R3	4	0	3,600,071:80:0	
2215	96	251	05:09:45.266	117G0105A106A4K	7STRP	0.009,0.0,0.0,0.0	Slew = 0.06	3R3	4	0	3,600,071:88:0	
2216	96	251	05:12:24.600	117G0105A106A4L	7STRP	-0.0086,0.0012,0	Slew = 4.01	3R3	4	0	3,600,074:54:0	
2217	96	251	05:12:29.933	117G0105A106A4M	7STRP	0.009,0.0,0.0,0.0	Slew = 0.06	3R3	4	0	3,600,074:62:0	
2218	96	251	05:15:09.266	117G0105A106A4N	7STRP	-0.0086,0.0012,0	Slew = 4.01	3R3	4	0	3,600,077:28:0	
2219	96	251	05:15:14.600	117G0105A106A4O	7STRP	0.009,0.0,0.0,0.0	Slew = 0.06	3R3	4	0	3,600,077:36:0	
2220	96	251	05:17:53.933	117G011A	CSMOS	GE	**** GROUP END CSMOS	3R3	4	0	3,600,080:02:0	
2221	96	251	05:21:01.266	G2INHRSPEC01-		****START****		3R3	4	0	:	
2222	96	251	05:21:01.266	165DV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,600,083:10:0	
2223	96	251	05:21:01.933	165DV4B	7SCAN	NORM;289,133999,	Check S/P Position	3R3	4	0	3,600,083:11:0	
2224	96	251	05:22:51.266	125DV4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R3	4	0	3,600,084:84:0	
2225	96	251	05:22:51.266	125DV11A	NIMSINIT	GE	#### GROUP END INIT	2R3	4	0	3,600,084:84:0	
2226	96	251	05:22:51.266	125DV	NIMSINIT	GS	#### GROUP START INIT	2R3	4	0	3,600,084:84:0	
2227	96	251	05:23:51.933	127DV	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	3,600,085:84:0	
2228	96	251	05:23:51.933	175DV422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,600,085:84:0	
2229	96	251	05:23:51.933	127DV4A	37IOP	3,0	Long Map, Grating Start Position = 0	2R3	4	0	3,600,085:84:0	
2230	96	251	05:23:52.600	127DV4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	3,600,085:85:0	
2231	96	251	05:23:55.266	117DV	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600,085:89:0	
2232	96	251	05:24:00.000		DMS:	: *RUNUP	R28, TRACK 4, *REV, TIC *4752.55 +/- 1	2R3	4	0	3,600,086:05:1	
2233	96	251	05:24:00.600	127DV11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	3,600,086:06:0	
2234	96	251	05:24:03.933	175DV176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,600,086:11:0	
2235	96	251	05:24:04.000		DMS:	: *AT SPD	R28, TRACK 4, REV, TIC 4751.05 +/- 1	2R3	4	0	3,600,086:11:1	
2236	96	251	05:24:04.000		DMS:	: *RECORD	R28, TRACK 4, REV, TIC *4751.05 +/- 1	2R3	4	0	3,600,086:11:1	
2237	96	251	05:24:04.600	117DV105A106A4A	7STRP	-0.0082,0.0,0.0,0.0	Slew = 0.03	2R3	4	0	3,600,086:12:0	
2238	96	251	05:24:04.600	G2INHRSPEC01-	NIMPBK	301DV	HIGH SPAT. AND SPECT. OBS. OF IO	2R3	4	0	:	
2239	96	251	05:28:47.266	117DV11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,600,090:72:0	
2240	96	251	05:28:47.272	G2INHRSPEC01-	DESEL	300DV	HIGH SPAT. AND SPECT. OBS. OF IO	2R3	4	0	:	
2241	96	251	05:28:51.266		DMS:	: *RUNDOWN	R28, TRACK 4, REV, TIC *4498.57 +/- 1	2R3	4	0	3,600,090:78:0	
2242	96	251	05:28:51.266	175DV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,600,090:78:0	
2243	96	251	05:31:53.266	G2INHRSPEC01-		****STOP****		2R3	4	0	:	
2244	96	251	05:37:07.933	165GP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600,099:04:0	
2245	96	251	05:37:08.600	165GP4B	7SCAN	NORM;303,285999,	Check S/P Position	2R3	4	0	3,600,099:05:0	
2246	96	251	05:39:06.600	411JC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,600,101:00:0	
2247	96	251	05:39:14.666		DMS:	: *RUNUP	R7, TRACK 4, *REV, TIC *4499.74 +/- 2	2R3	4	0	3,600,101:12:1	
2248	96	251	05:39:16.133		DMS:	: *AT SPD	R7, TRACK 4, REV, TIC 4499.62 +/- 2	2R3	4	0	3,600,101:14:3	
2249	96	251	05:39:16.133		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4499.62 +/- 2	2R3	4	0	3,600,101:14:3	
2250	96	251	05:39:16.600	411JC6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	3,600,101:15:0	
2251	96	251	05:41:02.600	117GP	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600,102:83:0	
2252	96	251	05:41:11.933	117GP105A106A4A	7STRP	-0.030009,0.1650	Slew = 0.01	2R3	4	0	3,600,103:06:0	
2253	96	251	05:41:17.933	411JC6C	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,600,103:15:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2254	96	251	05:41:20.600	175TM176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD	2R3	4	0	3,600	103:19:0
2255	96	251	05:41:21.266	175TM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,600	103:20:0
2256	96	251	05:41:27.933	175TM422A6B	DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *4468.73 +/- 2	2R3	4	0	3,600	103:30:0
2257	96	251	05:41:27.933	175TM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,600	103:30:0
2258	96	251	06:41:51.933	117GP11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,600	163:06:0
2259	96	251	08:02:39.933	165FA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600	242:89:0
2260	96	251	08:02:40.600	165FA4B	7SCAN	NORM,290.801998,	Check S/P Position	2R3	4	0	3,600	242:90:0
2261	96	251	08:02:45.266	G2INIOMON_01-		-----START-----		2R3	4	0	:	:
2262	96	251	08:03:37.266	125FA	NIMSINIT	GS	#### GROUP START INIT	2R3	4	0	3,600	243:84:0
2263	96	251	08:03:37.266	125FA4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R3	4	0	3,600	243:84:0
2264	96	251	08:04:37.933	125FA4B	37MB	1C,07,0,0,0,0	Selects mirror (spatial) edit table	2R3	4	0	3,600	244:84:0
2265	96	251	08:04:37.933	125FA11A	NIMSINIT	GE	#### GROUP END INIT	2R3	4	0	3,600	244:84:0
2266	96	251	08:06:03.266	432DZ6A	6RTSL2	NIMSEL, AACNCG,RT	NIMS R/T SELECT	2R3	4	0	3,600	246:30:0
2267	96	251	08:06:34.600	117FA	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600	246:77:0
2268	96	251	08:06:39.266	127FA	NIMSTAB	GS	%% %% % GROUP START TAB	2R3	4	0	3,600	246:84:0
2269	96	251	08:06:39.266	127FA4A	37IOP	7,21	Fixed Map, Grating Start Position =21	2R7	4	21	3,600	246:84:0
2270	96	251	08:06:39.933	127FA4B	37ETB	07,C7,19,2A,95,0	Loads wavelength edit table	2R7	4	21	3,600	246:85:0
2271	96	251	08:06:43.933	117FA105A106A4A	7STRP	0.003,0,0,0,0,0,0,	Slew =0.76	2R7	4	21	3,600	247:00:0
2272	96	251	08:06:47.933	127FA11A	NIMSTAB	GE	%% %% % GROUP END TAB	2R7	4	21	3,600	247:06:0
2273	96	251	08:06:51.933	117FA11A	CSMOS	GE	**** GROUP END CSMOS	2R7	4	21	3,600	247:12:0
2274	96	251	08:07:02.600	432DY6A	6RTDS2	NIMDSL, AACNCG,RT	NIMS R/T DESELECT	2R7	4	21	3,600	247:28:0
2275	96	251	08:09:41.266	125FB4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R7	4	21	3,600	249:84:0
2276	96	251	08:09:41.266	125FB	NIMSINIT	GS	#### GROUP START INIT	2R7	4	21	3,600	249:84:0
2277	96	251	08:09:41.266	125FB11A	NIMSINIT	GE	#### GROUP END INIT	2R7	4	21	3,600	249:84:0
2278	96	251	08:09:49.932	G2INIOMON_01-		-----STOP-----		2R7	4	21	:	:
2279	96	251	08:13:47.266	165IO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,600	253:89:0
2280	96	251	08:13:47.933	165IO4B	7SCAN	NORM,323.591999,	Check S/P Position	2R7	4	21	3,600	253:90:0
2281	96	251	08:17:43.266	118IO	SMOS	GS	Inert vect update UTC	2R7	4	21	3,600	257:79:0
2282	96	251	08:17:49.933	165IO4C	7VECT	165IO4C		2R7	4	21	3,600	257:89:0
2283	96	251	08:17:50.600	165IO4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R7	4	21	3,600	257:90:0
2284	96	251	08:17:53.266	118IO110A111A4A	7STRP	0.00151,0,0,26,0	Slew =0.76	2R7	4	21	3,600	258:03:0
2285	96	251	08:18:06.600	175IO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R7	4	21	3,600	258:23:0
2286	96	251	08:18:14.666		DMS:	: *RUNUP	R115, TRACK *4, REV, TIC *4470.07 +/- 2	2R7	4	21	3,600	258:35:1
2287	96	251	08:18:18.600	175IO176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	2R7	4	21	3,600	258:41:0
2288	96	251	08:18:18.666		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4463.80 +/- 2	2R7	4	21	3,600	258:41:1
2289	96	251	08:18:18.666		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *4463.80 +/- 2	2R7	4	21	3,600	258:41:1
2290	96	251	08:18:19.266	118IO11A	SMOS	GE		2R7	4	21	3,600	258:42:0
2291	96	251	08:18:26.600		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *4435.91 +/- 2	2R7	4	21	3,600	258:53:0
2292	96	251	08:18:26.600	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	21	3,600	258:53:0
2293	96	251	08:19:27.933	G2JNTHRMS07-		-----START-----		2R7	4	21	:	:
2294	96	251	08:19:27.933	165DW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	4	21	3,600	259:54:0
2295	96	251	08:19:28.600	165DW4B	7SCAN	NORM,318.445999,	Check S/P Position	2R7	4	21	3,600	259:55:0
2296	96	251	08:21:49.266	127DW4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,600	261:84:0
2297	96	251	08:21:49.266	127DW	NIMSTAB	GS	%% %% % GROUP START TAB	2R3	4	0	3,600	261:84:0
2298	96	251	08:21:49.933	127DW4B	37ETB		Loads wavelength edit table	2R3	4	0	3,600	261:85:0
2299	96	251	08:21:57.933	127DW11A	NIMSTAB	GE	%% %% % GROUP END TAB	2R3	4	0	3,600	262:06:0
2300	96	251	08:23:21.933	175DW422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,600	263:41:0
2301	96	251	08:23:22.600	117DW	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600	263:42:0
2302	96	251	08:23:30.000		DMS:	: *RUNUP	R7, TRACK *4, REV, TIC *4436.39 +/- 2	2R3	4	0	3,600	263:53:1
2303	96	251	08:23:31.266	175DW176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,600	263:55:0
2304	96	251	08:23:31.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4436.27 +/- 2	2R3	4	0	3,600	263:55:3
2305	96	251	08:23:31.466		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *4436.27 +/- 2	2R3	4	0	3,600	263:55:3
2306	96	251	08:23:31.932	G2JNTHRMS07-	NIMPBK	301DW	JUPITER THERMAL NORTH-SOUTH STRI	2R3	4	0	:	:
2307	96	251	08:23:31.933	117DW105A106A4A	7STRP	0.005,0,0,0,0,0,	Slew =0.04	2R3	4	0	3,600	263:56:0
2308	96	251	08:25:44.600	117DW105A106A4B	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600	265:73:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2309	96	251	08:25:57.933	117DW105A106A4C	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,266	02.0
2310	96	251	08:28:10.600	117DW105A106A4D	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,268	19.0
2311	96	251	08:28:23.933	117DW105A106A4E	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,268	39.0
2312	96	251	08:30:36.600	117DW105A106A4F	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,270	56.0
2313	96	251	08:30:49.933	117DW105A106A4G	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,270	76.0
2314	96	251	08:33:02.600	117DW105A106A4H	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,273	02.0
2315	96	251	08:33:15.933	117DW105A106A4I	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,273	22.0
2316	96	251	08:35:28.600	117DW105A106A4J	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,275	39.0
2317	96	251	08:35:41.933	117DW105A106A4K	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,275	59.0
2318	96	251	08:37:54.900	117DW105A106A4L	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,277	76.0
2319	96	251	08:38:07.933	117DW105A106A4M	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,278	05.0
2320	96	251	08:40:20.600	117DW105A106A4N	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,280	22.0
2321	96	251	08:40:33.933	117DW105A106A4O	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,280	42.0
2322	96	251	08:42:46.600	117DW105A106A4P	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,282	59.0
2323	96	251	08:42:59.933	117DW105A106A4Q	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,282	79.0
2324	96	251	08:45:12.600	117DW105A106A4R	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,285	05.0
2325	96	251	08:45:25.933	117DW105A106A4S	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,285	25.0
2326	96	251	08:47:38.600	117DW105A106A4T	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,287	42.0
2327	96	251	08:47:51.933	117DW105A106A4U	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,287	62.0
2328	96	251	08:50:04.900	117DW105A106A4V	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,289	79.0
2329	96	251	08:50:17.933	117DW105A106A4W	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,290	08.0
2330	96	251	08:51:49.265	G2JNTHRMS07-	DESEL	300DW	JUPITER THERMAL NORTH-SOUTH STRI	2R3	4	0	:	:
2331	96	251	08:52:30.600	117DW105A106A4X	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,292	25.0
2332	96	251	08:52:43.933	117DW105A106A4Y	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,292	45.0
2333	96	251	08:54:56.600	117DW105A106A4Z	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,294	62.0
2334	96	251	08:55:09.933	117DW105A106A4A	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,294	82.0
2335	96	251	08:57:22.600	117DW105A106A4B	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,297	08.0
2336	96	251	08:57:35.933	117DW105A106A4C	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,297	28.0
2337	96	251	08:59:48.600	117DW105A106A4D	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,299	45.0
2338	96	251	09:00:01.933	117DW105A106A4E	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,299	65.0
2339	96	251	09:02:14.600	117DW105A106A4F	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,301	82.0
2340	96	251	09:02:27.933	117DW105A106A4G	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,302	1.0
2341	96	251	09:04:40.600	117DW105A106A4H	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,304	28.0
2342	96	251	09:04:53.933	117DW105A106A4I	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,304	48.0
2343	96	251	09:07:06.600	117DW105A106A4J	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,306	65.0
2344	96	251	09:07:19.933	117DW105A106A4K	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,306	85.0
2345	96	251	09:09:32.600	117DW105A106A4L	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,309	1.0
2346	96	251	09:09:45.933	117DW105A106A4M	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,309	31.0
2347	96	251	09:11:58.600	117DW105A106A4N	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,311	48.0
2348	96	251	09:12:11.933	117DW105A106A4O	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,311	68.0
2349	96	251	09:14:24.600	117DW105A106A4P	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,313	85.0
2350	96	251	09:14:37.933	117DW105A106A4Q	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,314	14.0
2351	96	251	09:16:50.600	117DW105A106A4R	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,316	31.0
2352	96	251	09:17:03.933	117DW105A106A4S	7STRP	0.005,0.0,0.0,0.0	Slew =0.04	2R3	4	0	3,600,316	51.0
2353	96	251	09:19:16.600	117DW105A106A4T	7STRP	-0.0075,-0.008,0	Slew =12.01	2R3	4	0	3,600,318	68.0
2354	96	251	09:19:27.933	DMS:	CSMOS	GE	GROUP END CSMOS	2R3	4	0	3,600,318	85.0
2355	96	251	09:19:27.933	175DW422A6B	6DMS:	RDY,0	R7, TRACK 4, REV, TIC *3649.60 +/- 2	2R3	4	0	3,600,318	85.0
2356	96	251	09:19:27.933	175DW6A	6TMREC	NRC	DMS Control Tape stop	2R3	4	0	3,600,318	85.0
2357	96	251	09:19:29.267	G2JNTHRMS07-			NO RECORD Record Mode Change	2R3	4	0	3,600,318	85.0
2358	96	251	09:34:59.932	G2INCHEMIS03-			STOP	2R3	4	0	:	:
2359	96	251	09:35:09.933	165DX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600,334	42.0
2360	96	251	09:35:10.600	165DX4B	7SCAN	NORM,293.75,-24.	Check S/P Position	2R3	4	0	3,600,334	43.0
2361	96	251	09:37:39.266	127DX	NIMSTAB	GS	GROUP START TAB	2R3	4	0	3,600,336	84.0
2362	96	251	09:37:39.933	127DX4A	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,600,336	85.0
2363	96	251	09:37:47.933	127DX11A	NIMSTAB	GE	GROUP END TAB	2R3	4	0	3,600,337	06.0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2364	96	251	09:38:01.266	117DX	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600,337.26:0	
2365	96	251	09:38:03.266	175DX422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,600,337.29:0	
2366	96	251	09:38:11.333		DMS:	: *RUNUP	R7, TRACK 4, REV, TIC *3650.93 +/- 2	2R3	4	0	3,600,337.4:1	
2367	96	251	09:38:11.933	165DX4C	7VECT		Inert vect update UTC	2R3	4	0	3,600,337.42:0	
2368	96	251	09:38:12.600	175DX176A6A	6TMREC	LPD	7.68 KBPS NIMS-UVS-PPR RECORD	2R3	4	0	3,600,337.43:0	
2369	96	251	09:38:12.600	165DX4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,600,337.43:0	
2370	96	251	09:38:12.800		DMS:	: *AT SPD	R7, TRACK 4, REV, TIC 3650.81 +/- 2	2R3	4	0	3,600,337.43:3	
2371	96	251	09:38:12.800		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *3650.81 +/- 2	2R3	4	0	3,600,337.43:3	
2372	96	251	09:38:13.266	117DX105A106A4A	7STRP	0.0078,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,600,337.44:0	
2373	96	251	09:42:49.266	117DX11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,600,342:0:3:0	
2374	96	251	09:43:00.600		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *3583.36 +/- 2	2R3	4	0	3,600,342:20:0	
2375	96	251	09:43:00.600	175DX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,600,342:20:0	
2376	96	251	09:43:00.600	175DX6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,600,342:20:0	
2377	96	251	09:44:19.932	G2INCHEMIS03-		----STOP-----		2R3	4	0	:	
2378	96	251	12:36:40.800	165GC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600,513:89:0	
2379	96	251	12:36:41.266	165GC4B	7SCAN	NORM,303.9999998,	Check S/P Position	2R3	4	0	3,600,513:90:0	
2380	96	251	12:40:35.266	117GC	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600,517:7:0	
2381	96	251	12:40:44.600	117GC105A106A4A	7STRP	0.00465,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,600,518:00:0	
2382	96	251	12:43:21.266	117GC105A106A4B	7STRP	-0.008,0.0013,0	Slew = 2.66	2R3	4	0	3,600,520:53:0	
2383	96	251	12:43:27.266	117GC105A106A4C	7STRP	0.00465,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,600,520:62:0	
2384	96	251	12:46:03.933	117GC105A106A4D	7STRP	-0.008,0.0013,0	Slew = 2.66	2R3	4	0	3,600,523:24:0	
2385	96	251	12:46:09.933	117GC105A106A4E	7STRP	0.00465,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,600,523:33:0	
2386	96	251	12:48:46.600	117GC105A106A4F	7STRP	-0.008,0.0013,0	Slew = 2.66	2R3	4	0	3,600,525:86:0	
2387	96	251	12:48:52.600	117GC105A106A4G	7STRP	0.00465,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,600,526:04:0	
2388	96	251	12:51:29.266	117GC105A106A4H	7STRP	-0.008,0.0013,0	Slew = 2.66	2R3	4	0	3,600,528:57:0	
2389	96	251	12:51:35.266	117GC105A106A4J	7STRP	0.00465,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,600,528:66:0	
2390	96	251	12:54:11.933	117GC105A106A4I	7STRP	-0.008,0.0013,0	Slew = 2.66	2R3	4	0	3,600,531:28:0	
2391	96	251	12:54:17.933	117GC105A106A4K	7STRP	0.00465,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,600,531:37:0	
2392	96	251	12:56:54.600	117GC11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,600,533:90:0	
2393	96	251	13:02:57.933	165GQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600,539:89:0	
2394	96	251	13:02:58.600	165GQ4B	7SCAN	NORM,335.8559999,	Check S/P Position	2R3	4	0	3,600,539:90:0	
2395	96	251	13:06:52.600	117GC	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600,543:7:0	
2396	96	251	13:07:01.933	117GC105A106A4A	7STRP	0.0,0.127965,0.0	Slew = 0.11	2R3	4	0	3,600,544:00:0	
2397	96	251	13:30:11.933	117GC105A106B4A	7STRP	-0.009,-0.151585	Slew = 17.3	2R3	4	0	3,600,566:83:0	
2398	96	251	13:30:31.933	117GC105A106B4B	7STRP	0.0,0.0,0.0,0.0,0	Slew = 0.11	2R3	4	0	3,600,567:22:0	
2399	96	251	13:30:37.266	117GQ11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,600,567:30:0	
2400	96	251	13:31:08.600	117HJ	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600,567:77:0	
2401	96	251	13:31:17.933	117HJ105A106A4A	7STRP	0.0,0.166066,0.0	Slew = 0.21	2R3	4	0	3,600,568:00:0	
2402	96	251	13:39:11.933	488Y6A	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	2R3	4	0	3,600,575:74:0	
2403	96	251	13:46:57.933	117HJ11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,600,583:45:0	
2404	96	251	13:59:57.932	G2INCHEMIS04-		----START-----		2R3	4	0	:	
2405	96	251	13:59:58.600	165DZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600,596:33:0	
2406	96	251	13:59:59.266	165DZ4B	7SCAN	NORM,309.8699999,	Check S/P Position	2R3	4	0	3,600,596:34:0	
2407	96	251	14:02:33.933	127DZ	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	3,600,598:84:0	
2408	96	251	14:02:34.600	127DZ4A	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,600,598:85:0	
2409	96	251	14:02:42.600	127DZ11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	3,600,599:06:0	
2410	96	251	14:02:51.933	175DZ422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,600,599:20:0	
2411	96	251	14:02:52.600	117DZ	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600,599:21:0	
2412	96	251	14:03:00.000		DMS:	: *RUNUP	R7, TRACK 4, REV, TIC *3584.69 +/- 2	2R3	4	0	3,600,599:32:1	
2413	96	251	14:03:00.600	165DZ4C	7VECT		Inert vect update UTC	2R3	4	0	3,600,599:33:0	
2414	96	251	14:03:01.266	165DZ4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,600,599:34:0	
2415	96	251	14:03:01.266	175DZ176A6A	6TMREC	LPD	7.68 KBPS NIMS-UVS-PPR RECORD	2R3	4	0	3,600,599:34:0	
2416	96	251	14:03:01.466		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *3584.57 +/- 3	2R3	4	0	3,600,599:34:3	
2417	96	251	14:03:01.466		DMS:	: *AT SPD	R7, TRACK 4, REV, TIC 3584.57 +/- 3	2R3	4	0	3,600,599:34:3	
2418	96	251	14:03:01.933	117DZ105A106A4A	7STRP	0.0065,0.0,0.0,0	Slew = 0.03	2R3	4	0	3,600,599:35:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2419	96	251	14:06:53.933	117DZ11A	CSMOS	GE	*** GROUP END CSMOS	2R3	4	0	3,600,603:19:0	
2420	96	251	14:06:55.266		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *3529.78 +/- 3	2R3	4	0	3,600,603:21:0	
2421	96	251	14:06:55.266	175DZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,600,603:21:0	
2422	96	251	14:06:55.266	175DZ6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,600,603:21:0	
2423	96	251	14:08:31.266	G2INCHEMIS04-		***STOP***		2R3	4	0	:	
2424	96	251	14:15:49.933	165GR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600,612:04:0	
2425	96	251	14:15:50.600	165GR4B	7SCAN	NORM,311.012997,	Check S/P Position	2R3	4	0	3,600,612:05:0	
2426	96	251	14:19:44.600	117GR	CSMOS	GS	*** GROUP START CSMOS	2R3	4	0	3,600,615:83:0	
2427	96	251	14:19:53.933	117GR105A106A4A	7STRP	0.0.0.006,0.0.0,	Slew = 0.61	2R3	4	0	3,600,616:06:0	
2428	96	251	14:20:17.266	117GR11A	CSMOS	GE	*** GROUP END CSMOS	2R3	4	0	3,600,616:41:0	
2429	96	251	14:34:39.933	488Y6B	6TMSED	NORM,EL2	Sci, Eng, and D/L Chan	2R3	4	0	3,600,630:61:0	
2430	96	251	14:39:01.266	165IS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600,634:89:0	
2431	96	251	14:39:01.933	165IS4B	7SCAN	NORM,289.250999,	Check S/P Position	2R3	4	0	3,600,634:90:0	
2432	96	251	14:39:13.266	488Y6C	6TMSED	FILL,EL2	Sci, Eng, and D/L Chan	2R3	4	0	3,600,635:16:0	
2433	96	251	14:42:53.933	175IS422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,600,638:74:0	
2434	96	251	14:43:02.000		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *3531.11 +/- 3	2R3	4	0	3,600,638:86:1	
2435	96	251	14:43:03.933	165IS4C	7VECT		Inert vect update UTC	2R3	4	0	3,600,638:89:0	
2436	96	251	14:43:04.600	165IS4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,600,638:90:0	
2437	96	251	14:43:06.600	175IS176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Change	2R3	4	0	3,600,639:02:0	
2438	96	251	14:43:07.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 3467.09 +/- 3	2R3	4	0	3,600,639:02:9	
2439	96	251	14:43:07.200		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *3467.09 +/- 3	2R3	4	0	3,600,639:02:9	
2440	96	251	14:43:29.933		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC *2907.64 +/- 3	2R3	4	0	3,600,639:37:0	
2441	96	251	14:43:29.933	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,600,639:37:0	
2442	96	251	15:24:32.600	411JD6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,600,680:00:0	
2443	96	251	15:24:40.966		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *2897.92 +/- 3	2R3	4	0	3,600,680:12:1	
2444	96	251	15:24:42.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2897.92 +/- 3	2R3	4	0	3,600,680:14:3	
2445	96	251	15:24:42.133		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2897.92 +/- 3	2R3	4	0	3,600,680:14:3	
2446	96	251	15:24:42.600	411JD6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	3,600,680:15:0	
2447	96	251	15:26:43.933	411JD6C	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,600,682:15:0	
2448	96	251	15:26:46.600	175TN176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,600,682:19:0	
2449	96	251	15:26:47.266	175TN22A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,600,682:20:0	
2450	96	251	15:26:53.933		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2867.03 +/- 3	2R3	4	0	3,600,682:30:0	
2451	96	251	15:26:53.933	175TN22A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,600,682:30:0	
2452	96	251	15:35:27.266	175NO422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,600,690:72:0	
2453	96	251	15:35:35.333		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *2868.36 +/- 4	2R3	4	0	3,600,690:84:1	
2454	96	251	15:35:39.266	175NO176A6A	6TMREC	MPP	28.8 KBPS PWS RECORD Record Mode Change	2R3	4	0	3,600,690:90:0	
2455	96	251	15:35:39.333		DMS:	: *RECORD	R28, TRACK 4, REV, TIC *2866.86 +/- 4	2R3	4	0	3,600,690:90:1	
2456	96	251	15:35:39.333		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 2866.86 +/- 4	2R3	4	0	3,600,690:90:1	
2457	96	251	15:44:59.933	488Y6D	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3,600,700:21:0	
2458	96	251	15:45:48.600		DMS:	: *RUNDOWN	R28, TRACK 4, REV, TIC *2331.37 +/- 4	2R3	4	0	3,600,701:03:0	
2459	96	251	15:45:48.600	175NO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,600,701:03:0	
2460	96	251	15:49:59.933	480EA6A	6MROH	37,1030,0,A2	read from NIMS37.1030,0,A2	2R3	4	0	3,600,705:16:0	
2461	96	251	15:51:31.933	488Y6E	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3,600,706:63:0	
2462	96	251	15:56:39.933	480EA6B	6MROH	37,142E,0,A2	read from NIMS37.142E,0,A2	2R3	4	0	3,600,711:70:0	
2463	96	251	16:02:30.600	488Z6A	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3,600,717:50:0	
2464	96	251	16:06:10.600	20FX5A	37PL		Program Load (halts microprocessor & unwrt	2R3	4	0	3,600,721:16:0	
2465	96	251	16:07:11.266	20FX5B	37MRL		Memory Reallocate (software operates from R	2R3	4	0	3,600,722:16:0	
2466	96	251	16:08:11.933	20FX6A	6MCPY	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	3,600,723:16:0	
2467	96	251	16:09:12.600	20FX6B	6MCPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	3,600,724:16:0	
2468	96	251	16:10:13.266	20FX6C	6CKSUM	NIMS	NIMS,1000,14B3	2R3	4	0	3,600,725:16:0	
2469	96	251	16:11:13.933	20FX5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	3,600,726:16:0	
2470	96	251	16:12:14.600	20FX5D	37MNN		Memory Normal (software operates from ROM)	260	4	0	3,600,727:16:0	
2471	96	251	16:13:15.266	20FX4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	3,600,728:16:0	
2472	96	251	16:15:01.266	127FX	NIMSTAB	GS	%%%% GROUP START TAB	2R0	4	0	3,600,729:84:0	
2473	96	251	16:15:01.266	127FX4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,600,729:84:0	

Line	YR	DOY	SCET	G-MT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2474	96	251	16:15:01.933		127FX4B	37ETB	07,C7,02,0C,00,0	Loads wavelength edit table	2R3	4	0	3,600,729:85:0	
2475	96	251	16:15:16.600		127FX11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	3,600,730:16:0	
2476	96	251	16:16:17.266		480EB6A	6MROH	37,1030,0,A2	read from NIMS37,1030,0,A2	2R3	4	0	3,600,731:16:0	
2477	96	251	16:19:11.266		165GS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600,734:04:0	
2478	96	251	16:19:11.933		165GS4B	7SCAN	NORM,320.778,-16	Check S/P Position	2R3	4	0	3,600,734:05:0	
2479	96	251	16:22:57.266		480EB6B	6MROH	37,142E,0,A2	read from NIMS37,142E,0,A2	2R3	4	0	3,600,737:0:0	
2480	96	251	16:23:05.933		117GS	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600,737:8:0	
2481	96	251	16:23:15.266		117GS105A106A4A	7STRP	0.0,0.006,0,0,0	Slew =0.47	2R3	4	0	3,600,738:06:0	
2482	96	251	16:23:38.600		117GS11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,600,738:4:0	
2483	96	251	16:34:21.266		165GT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600,749:04:0	
2484	96	251	16:34:21.933		165GT4B	7SCAN	NORM,352.025997,	Check S/P Position	2R3	4	0	3,600,749:05:0	
2485	96	251	16:35:13.933		117GT	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,600,749:8:0	
2486	96	251	16:35:23.266		117GT105A106A4A	7STRP	-0.0065,0.177956	Slew =0.11	2R3	4	0	3,600,750:06:0	
2487	96	251	16:46:55.933		488Z6B	6TMSED	FILL,DL,3	Sci, Eng, and D/L Chan	2R3	4	0	3,600,761:44:0	
2488	96	251	17:03:41.933		117GT11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,600,778:06:0	
2489	96	251	17:07:43.933		165EA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,600,782:05:0	
2490	96	251	17:07:44.600		165EA4B	7SCAN	NORM,302.107998,	Check S/P Position	2R3	4	0	3,600,782:06:0	
2491	96	251	17:07:45.932		G2LENLEADMP01-		-----START-----		2R3	4	0	..	
2492	96	251	17:09:37.266		125EA4A	37IST	0.2,0,OFF,0,1,2	Gain State 3	3R3	4	0	3,600,783:84:0	
2493	96	251	17:09:37.266		125EA	NIMSinIT	GS	#### GROUP START INIT	3R3	4	0	3,600,783:84:0	
2494	96	251	17:09:37.266		125EA11A	NIMSinIT	GE	#### GROUP END INIT	3R3	4	0	3,600,783:84:0	
2495	96	251	17:10:37.266		175EA422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	3R3	4	0	3,600,784:8:0	
2496	96	251	17:10:37.933		117EA	CSMOS	GS	**** GROUP START CSMOS	3R3	4	0	3,600,784:84:0	
2497	96	251	17:10:37.933		127EA	NIMSTAB	GS	%%%% GROUP START TAB	3R3	4	0	3,600,784:84:0	
2498	96	251	17:10:38.600		127EA4A	37ETB	07,C7,02,0C,00,0	Loads wavelength edit table	3R3	4	0	3,600,784:85:0	
2499	96	251	17:10:45.933		165EA4C	DMS:	: *RUNUP	R7, TRACK 4, REV, TIC *2332.55 +/- 4	3R3	4	0	3,600,785:04:1	
2500	96	251	17:10:45.933		127EA11A	7VECT		Inert vect update UTC	3R3	4	0	3,600,785:05:0	
2501	96	251	17:10:46.600		127EA11A	NIMSTAB	GE	%%%% GROUP END TAB	3R3	4	0	3,600,785:06:0	
2502	96	251	17:10:46.600		175EA176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	3,600,785:06:0	
2503	96	251	17:10:46.600		165EA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	4	0	3,600,785:06:0	
2504	96	251	17:10:46.800			DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2332.43 +/- 4	3R3	4	0	3,600,785:06:3	
2505	96	251	17:10:46.800			DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2332.43 +/- 4	3R3	4	0	3,600,785:06:3	
2506	96	251	17:10:47.246		G2LENLEADMP01-	NIMPBK	301EA	EUROPA MAIN CIRCULAR FEATURE	3R3	4	0	..	
2507	96	251	17:10:47.266		117EA105A106A4A	7STRP	0.0053,0,0,0,0,0	Slew =0.03	3R3	4	0	3,600,785:07:0	
2508	96	251	17:13:45.912		G2LENLEADMP01-	DESEL	300EA	EUROPA MAIN CIRCULAR FEATURE	3R3	4	0	..	
2509	96	251	17:13:45.933		117EA11A	CSMOS	GE	**** GROUP END CSMOS	3R3	4	0	3,600,788:02:0	
2510	96	251	17:13:50.599		G2LENLEADMP01-		-----STOP-----		3R3	4	0	..	
2511	96	251	17:13:57.266			DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2287.79 +/- 4	3R3	4	0	3,600,788:19:0	
2512	96	251	17:13:57.266		175EA6A	6TMREC	NRC	NO RECORD Record Mode Change	3R3	4	0	3,600,788:19:0	
2513	96	251	17:13:57.266		175EA422A6B	6DMSC	RDY.0	DMS Control Tape stop	3R3	4	0	3,600,788:19:0	
2514	96	251	17:16:50.666		G2HNDARK_04-		-----START-----		3R3	4	0	..	
2515	96	251	17:17:49.266		165EB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,600,792:03:0	
2516	96	251	17:17:49.933		165EB4B	7SCAN	NORM,314.760998,	Check S/P Position	3R3	4	0	3,600,792:04:0	
2517	96	251	17:22:45.933		127EB4A	37IOP	3.0	Long Map, Grating Start Position =00	3R3	4	0	3,600,796:84:0	
2518	96	251	17:22:45.933		127EB	NIMSTAB	GS	%%%% GROUP START TAB	3R3	4	0	3,600,796:84:0	
2519	96	251	17:22:46.600		127EB4B	37ETB	07,C7,05,FF,FF,3	Loads wavelength edit table	3R3	4	0	3,600,796:85:0	
2520	96	251	17:22:54.600		127EB11A	NIMSTAB	GE	%%%% GROUP END TAB	3R3	4	0	3,600,797:06:0	
2521	96	251	17:22:54.666		G2HNDARK_04-		-----STOP-----		3R3	4	0	..	
2522	96	251	17:23:35.933		175EB422A6A	6DMSC	R28.0	DMS Control Tape runup 28.8kbp	3R3	4	0	3,600,797:68:0	
2523	96	251	17:23:44.000		175EB176A6A	DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *2289.12 +/- 4	3R3	4	0	3,600,797:80:1	
2524	96	251	17:23:47.933		175EB176A6A	6TMREC	MPW	R28 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	3,600,797:86:0	
2525	96	251	17:23:48.000			DMS:	: *RECORD	R28, TRACK 4, REV, TIC *2287.62 +/- 4	3R3	4	0	3,600,797:86:1	
2526	96	251	17:23:48.000			DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 2287.62 +/- 4	3R3	4	0	3,600,797:86:1	
2527	96	251	17:23:51.246		G2HNDARK_04-	NIMPBK	301EB	DARK SKY	3R3	4	0	..	
2528	96	251	17:24:51.912		G2HNDARK_04-	DESEL	300EB	DARK SKY	3R3	4	0	..	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2529	96	251	17:24:55.266		DMS:	: *RUNDOWN	R28, TRACK 4, REV, TIC *2228.50 +/- 4	3R3	4	0	3,600,799:05:0	
2530	96	251	17:24:55.266	175EB422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	3,600,799:05:0	
2531	96	251	17:25:33.266	488Z6C	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	3R3	4	0	3,600,799:62:0	
2532	96	251	17:28:53.266	165FC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,600,802:89:0	
2533	96	251	17:28:53.933	165FC4B	7SCAN	NORM,303.871998,	Check S/P Position	3R3	4	0	3,600,802:90:0	
2534	96	251	17:28:58.599	G2ENEURORT01-		----START-----		3R3	4	0	:	:
2535	96	251	17:30:51.266	125FC11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,600,804:84:0	
2536	96	251	17:30:51.266	125FC	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,600,804:84:0	
2537	96	251	17:30:51.266	125FC4A	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	3R3	4	0	3,600,804:84:0	
2538	96	251	17:31:51.933	127FC	NIMSTAB	GS	%% %% GROUP START TAB	3R3	4	0	3,600,805:84:0	
2539	96	251	17:31:51.933	127FC4A	37IOP	3,0	Long Map, Grating Start Position =00	3R3	4	0	3,600,805:84:0	
2540	96	251	17:31:52.600	127FC4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	3R3	4	0	3,600,805:85:0	
2541	96	251	17:32:00.600	127FC11A	NIMSTAB	GE	%% %% GROUP END TAB	3R3	4	0	3,600,806:06:0	
2542	96	251	17:32:16.600	432DX6A	6RTSL2	NIMSEL, AACNCG,RT	NIMS R/T SELECT	3R3	4	0	3,600,806:30:0	
2543	96	251	17:32:47.933	117FF	CSMOS	GS	#### GROUP START CSMOS	3R3	4	0	3,600,806:77:0	
2544	96	251	17:32:57.266	117FF105A106A4A	7STRP	-0.0036,0,0,0,0,	Slew =0.03	3R3	4	0	3,600,807:00:0	
2545	96	251	17:34:16.600	432DW6A	6RTDS2	NIMDSL, AACNCG,RT	NIMS R/T DESELECT	3R3	4	0	3,600,808:28:0	
2546	96	251	17:34:58.600	117FF11A	CSMOS	GE	#### GROUP END CSMOS	3R3	4	0	3,600,809:00:0	
2547	96	251	17:35:54.600	125FD4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	3R3	4	0	3,600,809:84:0	
2548	96	251	17:35:54.600	125FD	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	3,600,809:84:0	
2549	96	251	17:35:54.600	125FD11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,600,809:84:0	
2550	96	251	17:37:03.932	G2ENEURORT01-		----STOP-----		3R3	4	0	:	:
2551	96	251	18:19:30.600	165GU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,600,853:04:0	
2552	96	251	18:19:31.266	165GU4B	7SCAN	NORM,330.609997,	Check S/P Position	3R3	4	0	3,600,853:05:0	
2553	96	251	18:23:25.266	117GU	CSMOS	GS	#### GROUP START CSMOS	3R3	4	0	3,600,856:83:0	
2554	96	251	18:23:34.600	117GU105A106A4A	7STRP	0,0,0,0,0,0,0,	Slew =0.39	3R3	4	0	3,600,857:06:0	
2555	96	251	18:23:57.933	117GU11A	CSMOS	GE	#### GROUP END CSMOS	3R3	4	0	3,600,857:41:0	
2556	96	251	18:59:59.933	481S4A	7VECT		Inert vect update UTC	3R3	4	0	3,600,893:08:0	
2557	96	251	20:10:43.933	165GV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,600,963:04:0	
2558	96	251	20:10:44.600	165GV4B	7SCAN	NORM,339.642998,	Check S/P Position	3R3	4	0	3,600,963:05:0	
2559	96	251	20:14:38.600	117GV	CSMOS	GS	#### GROUP START CSMOS	3R3	4	0	3,600,966:83:0	
2560	96	251	20:14:47.933	117GV105A106A4A	7STRP	0,0,0,0,0,0,0,0,	Slew =0.35	3R3	4	0	3,600,967:06:0	
2561	96	251	20:15:11.266	117GV11A	CSMOS	GE	#### GROUP END CSMOS	3R3	4	0	3,600,967:41:0	
2562	96	251	21:20:59.932	G2INCHEMIS05-		----START-----		3R3	4	0	:	:
2563	96	251	21:21:00.600	165EC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	4	0	3,601,032:50:0	
2564	96	251	21:21:01.266	165EC4B	7SCAN	NORM,345.299999,	Check S/P Position	3R3	4	0	3,601,032:51:0	
2565	96	251	21:22:23.933	125EC11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	3,601,033:84:0	
2566	96	251	21:22:23.933	125EC4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (RefGain State	2R3	4	0	3,601,033:84:0	
2567	96	251	21:22:23.933	125EC	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,601,033:84:0	
2568	96	251	21:23:24.600	127EC4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,601,034:84:0	
2569	96	251	21:23:24.600	127EC4B	NIMSTAB	GS	%% %% GROUP START TAB	2R3	4	0	3,601,034:84:0	
2570	96	251	21:23:25.266	127EC4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	3,601,034:85:0	
2571	96	251	21:23:33.266	127EC11A	NIMSTAB	GE	%% %% GROUP END TAB	2R3	4	0	3,601,035:06:0	
2572	96	251	21:23:51.266	175EC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,601,035:33:0	
2573	96	251	21:23:54.600	117EC	CSMOS	GS	#### GROUP START CSMOS	2R3	4	0	3,601,035:38:0	
2574	96	251	21:23:59.333		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *2229.67 +/- 4	2R3	4	0	3,601,035:45:1	
2575	96	251	21:24:02.600	165EC4C	7VECT		Inert vect update UTC	2R3	4	0	3,601,035:50:0	
2576	96	251	21:24:03.266	175EC176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,601,035:51:0	
2577	96	251	21:24:03.266	165EC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,601,035:51:0	
2578	96	251	21:24:03.333		DMS:	: *RECORD	R28, TRACK 4, REV, TIC *2228.17 +/- 4	2R3	4	0	3,601,035:51:1	
2579	96	251	21:24:03.333		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 2228.17 +/- 4	2R3	4	0	3,601,035:51:1	
2580	96	251	21:24:03.904	G2INCHEMIS05-	NIMPBK	301EC	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2581	96	251	21:24:03.933	117EC105A106A4A	7STRP	0.004,0,0,0,0,0,	Slew =0.03	2R3	4	0	3,601,035:52:0	
2582	96	251	21:25:31.237	G2INCHEMIS05-	DESEL	300EC	MONITORING OF IO'S DAYSIDE	2R3	4	0	:	:
2583	96	251	21:26:21.933	117EC11A	CSMOS	GE	#### GROUP END CSMOS	2R3	4	0	3,601,037:77:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2584	96	251	21:26:25.933		DMS:	: *RUNDOWN	R28, TRACK 4, REV, TIC *2102.84 +/- 4	2R3	4	0	3,601,037:83.0	
2585	96	251	21:26:25.933	175EC422A6B	6DMSC	RDY.0	DMS Control Tape stop	2R3	4	0	3,601,037:83.0	
2586	96	251	21:26:41.932	G2INCHMIS05-		----STOP-----		2R3	4	0	:	:
2587	96	251	21:27:59.932	G2INTHRMAL01-		----START-----		2R3	4	0	:	:
2588	96	251	21:28:31.933	488Z6D	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3,601,039:90.0	
2589	96	251	21:29:31.933	165ED4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,601,040:89.0	
2590	96	251	21:29:32.600	165ED4B	7SCAN	NORM,345.834,-6.	Check S/P Position	2R3	4	0	3,601,040:90.0	
2591	96	251	21:30:29.266	125ED4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	3,601,041:84.0	
2592	96	251	21:30:29.266	125ED11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,601,041:84.0	
2593	96	251	21:30:29.266	125ED	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,601,041:84.0	
2594	96	251	21:31:29.933	127ED	NIMSTAB	GS	Loads wavelength edit table	4R3	4	0	3,601,042:84.0	
2595	96	251	21:31:30.600	127ED4A	37ETB	07,CT,03,80,00,0	Loads wavelength edit table	4R3	4	0	3,601,042:85.0	
2596	96	251	21:31:38.600	127ED11A	NIMSTAB	GE	##### GROUP END TAB	4R3	4	0	3,601,043:06.0	
2597	96	251	21:32:22.600	175ED422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	4R3	4	0	3,601,043:72.0	
2598	96	251	21:32:25.933	117ED	CSMOS:	GS	##### GROUP START CSMOS	4R3	4	0	3,601,043:77.0	
2599	96	251	21:32:30.666		DMS:	: *RUNUP	R7, TRACK *4, REV, TIC *2104.01 +/- 4	4R3	4	0	3,601,043:84.1	
2600	96	251	21:32:31.933	175ED176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Mode	4R3	4	0	3,601,043:86.0	
2601	96	251	21:32:32.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2103.90 +/- 5	4R3	4	0	3,601,043:86.3	
2602	96	251	21:32:32.133		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2103.90 +/- 5	4R3	4	0	3,601,043:86.3	
2603	96	251	21:32:33.933	165ED4C	7VECT		Inert vect update UTC	4R3	4	0	3,601,043:89.0	
2604	96	251	21:32:34.600	165ED4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,601,043:90.0	
2605	96	251	21:32:35.237	G2INTHRMAL01-	NIMPBK	301ED	MONITORING OF IO'S NIGHTSIDE	4R3	4	0	:	:
2606	96	251	21:32:35.266	117ED105A106A4A	7STRP	0.00125,0.0,0.0,0.	Slew =0.03	4R3	4	0	3,601,044:00.0	
2607	96	251	21:33:25.237	G2INTHRMAL01-	DESEL	300ED	MONITORING OF IO'S NIGHTSIDE	4R3	4	0	:	:
2608	96	251	21:33:25.266	117ED11A	CSMOS:	GE	##### GROUP END CSMOS	4R3	4	0	3,601,044:75.0	
2609	96	251	21:33:36.600		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2088.79 +/- 5	4R3	4	0	3,601,045:01.0	
2610	96	251	21:33:36.600	175ED6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,601,045:01.0	
2611	96	251	21:33:36.600	175ED422A6B	6DMSC	RDY.0	DMS Control Tape stop	4R3	4	0	3,601,045:01.0	
2612	96	251	21:33:53.266	G2INTHRMAL01-		----STOP-----		4R3	4	0	:	:
2613	96	251	21:44:41.933	165CC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,601,055:89.0	
2614	96	251	21:44:42.600	165CC4B	7SCAN	NORM,347.517998,	Check S/P Position	4R3	4	0	3,601,055:90.0	
2615	96	251	21:47:57.266	165GW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,601,069:08.0	
2616	96	251	21:57:57.933	165GW4B	7SCAN	NORM,326.344997,	Check S/P Position	4R3	4	0	3,601,069:09.0	
2617	96	251	21:58:47.933	117GW	CSMOS	GS	##### GROUP START CSMOS	4R3	4	0	3,601,069:84.0	
2618	96	251	21:58:57.266	117GW105A106A4A	7STRP	0,0,0,006,0,0,0.	Slew =0.41	4R3	4	0	3,601,070:07.0	
2619	96	251	21:59:20.600	117GW11A	CSMOS	GE	##### GROUP END CSMOS	4R3	4	0	3,601,070:42.0	
2620	96	251	21:59:51.933	165CD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,601,070:89.0	
2621	96	251	21:59:52.600	165CD4B	7SCAN	NORM,348.658997,	Check S/P Position	4R3	4	0	3,601,070:90.0	
2622	96	251	22:09:09.266	488AA6A	6TMSED	FILL,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3,601,080:15.0	
2623	96	251	22:20:10.599	G2INVOLCAN01-		----START-----		4R3	4	0	:	:
2624	96	251	22:21:05.933	165EE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,601,091:89.0	
2625	96	251	22:21:06.600	165EE4B	7SCAN	NORM,349.889999,	Check S/P Position	4R3	4	0	3,601,091:90.0	
2626	96	251	22:22:03.266	125EE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,601,092:84.0	
2627	96	251	22:22:03.266	125EE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,601,092:84.0	
2628	96	251	22:22:03.266	125EE4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R3	4	0	3,601,092:84.0	
2629	96	251	22:23:03.933	127EE	NIMSTAB	GS	Loads wavelength edit table	2R3	4	0	3,601,093:84.0	
2630	96	251	22:23:04.600	127EE4A	37ETB	07,CT,03,80,00,0	Loads wavelength edit table	2R3	4	0	3,601,093:85.0	
2631	96	251	22:23:12.600	127EE11A	NIMSTAB	GE	##### GROUP END TAB	2R3	4	0	3,601,094:06.0	
2632	96	251	22:23:56.600	175EE422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	2R3	4	0	3,601,094:72.0	
2633	96	251	22:23:59.933	117EE	CSMOS:	GS	##### GROUP START CSMOS	2R3	4	0	3,601,094:77.0	
2634	96	251	22:24:04.666		DMS:	: *RUNUP	R7, TRACK *4, REV, TIC *2090.12 +/- 5	2R3	4	0	3,601,094:84.1	
2635	96	251	22:24:05.933	175EE176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Mode	2R3	4	0	3,601,094:86.0	
2636	96	251	22:24:06.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2090.00 +/- 5	2R3	4	0	3,601,094:86.3	
2637	96	251	22:24:06.133		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2090.00 +/- 5	2R3	4	0	3,601,094:86.3	
2638	96	251	22:24:07.933	165EE4C	7VECT		Inert vect update UTC	2R3	4	0	3,601,094:89.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2639	96	251	22:24:08.600	165EE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,601,094	90:0
2640	96	251	22:24:09.235	G2INVOLCAN01-	NIMPBK	301EE	MON. OF SELECTED VOLCANIC REG.	2R3	4	0	:	:
2641	96	251	22:24:09.266	117EE105A106A4A	7STRP	0.0008,0.0,0.0,0	Slew =0.03	2R3	4	0	3,601,095	00:0
2642	96	251	22:24:39.235	G2INVOLCAN01-	DESELC	300EE	MON. OF SELECTED VOLCANIC REG.	2R3	4	0	:	:
2643	96	251	22:24:39.266	117EE11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,601,095	45:0
2644	96	251	22:24:50.600	175EE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,601,095	62:0
2645	96	251	22:24:50.600	175EE6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,601,095	62:0
2646	96	251	22:24:50.600		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2079.59 +/- 5	2R3	4	0	3,601,095	62:0
2647	96	251	22:25:13.932	G2INVOLCAN01-		----STOP----		2R3	4	0	:	:
2648	96	251	22:51:27.933	488AA6B	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	2R3	4	0	3,601,122	01:0
2649	96	251	23:10:55.933	488AA6C	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	2R3	4	0	3,601,141	24:0
2650	96	251	23:20:50.599	G2INVOLCAN02-		----START----		2R3	4	0	:	:
2651	96	251	23:21:45.933	165EF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,601,151	89:0
2652	96	251	23:21:46.600	165EF4B	7SCAN	NORM,354.558998,	Check S/P Position	2R3	4	0	3,601,151	90:0
2653	96	251	23:23:43.933	127EF	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	3,601,153	84:0
2654	96	251	23:23:44.600	127EF4A	37ETB	07,C7,03,80,00,0	Loads wavelenght edit table	2R3	4	0	3,601,153	85:0
2655	96	251	23:23:52.600	127EF11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	3,601,154	06:0
2656	96	251	23:24:36.600	175EF422A6A	6DMSC	RDY,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,601,154	72:0
2657	96	251	23:24:39.933	117EF	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3,601,154	77:0
2658	96	251	23:24:44.666	175EF176A6A	DMS:	: *RUNUP	R7, TRACK *4, REV, TIC *2080.91 +/- 5	2R3	4	0	3,601,154	84:1
2659	96	251	23:24:45.933		DMS:	: *RECORD	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,601,154	86:0
2660	96	251	23:24:46.133		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *2080.80 +/- 5	2R3	4	0	3,601,154	86:3
2661	96	251	23:24:46.133	165EF4C	7VECT		Inert vect update UTC	2R3	4	0	3,601,154	89:0
2662	96	251	23:24:47.933	165EF4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,601,154	90:0
2663	96	251	23:24:48.600		NIMPBK	301EF	MON. OF SELECTED VOLCANIC REG.	2R3	4	0	:	:
2664	96	251	23:24:49.232	G2INVOLCAN02-	7STRP	0.0008,0.0,0.0,0	Slew =0.03	2R3	4	0	3,601,155	00:0
2665	96	251	23:25:19.232	G2INVOLCAN02-	DESELC	300EF	MON. OF SELECTED VOLCANIC REG.	2R3	4	0	:	:
2666	96	251	23:25:19.266	117EF11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,601,155	45:0
2667	96	251	23:25:30.600	175EF6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3,601,155	62:0
2668	96	251	23:25:30.600	175EF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,601,155	62:0
2669	96	251	23:25:30.600		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2070.37 +/- 5	2R3	4	0	3,601,155	62:0
2670	96	251	23:25:30.600		DMS:	----STOP----		2R3	4	0	:	:
2671	96	251	23:25:53.932	G2INVOLCAN02-	6TMSED	FILL,DL3	Sci, Eng, and D/L Chan	2R3	4	0	3,601,163	81:0
2672	96	251	23:33:48.600	488AA6D	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,601,190	89:0
2673	96	252	00:01:11.933	165CE4A	7SCAN	NORM,357.996998,	Check S/P Position	2R3	4	0	3,601,190	90:0
2674	96	252	00:01:12.600	165CE4B	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,601,205	89:0
2675	96	252	00:16:21.933	165CF4A	7SCAN	NORM,359.126999,	Check S/P Position	2R3	4	0	3,601,205	90:0
2676	96	252	00:16:22.600	165CF4B	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3,601,210	81:0
2677	96	252	00:21:19.933	488AA6E	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R3	4	0	3,601,218	24:0
2678	96	252	00:28:47.266	488AA6A	6TMSED			2R3	4	0	:	:
2679	96	252	00:35:39.932	G2INVOLCAN03-	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,601,225	89:0
2680	96	252	00:36:35.266	165EH4A	7SCAN	NORM,0.199,0.645	Check S/P Position	2R3	4	0	3,601,225	90:0
2681	96	252	00:36:35.933	165EH4B	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	3,601,227	84:0
2682	96	252	00:38:33.266	127EH	37ETB	07,C7,03,80,00,0	Loads wavelenght edit table	2R3	4	0	3,601,227	85:0
2683	96	252	00:38:33.933	127EH4A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	3,601,228	06:0
2684	96	252	00:38:41.933	127EH11A	NIMSTAB	RDY,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,601,228	72:0
2685	96	252	00:39:25.933	175EH422A6A	6DMSC	RDY,0	**** GROUP START CSMOS	2R3	4	0	3,601,228	77:0
2686	96	252	00:39:29.266	117EH	DMS:	: *RUNUP	R7, TRACK *4, REV, TIC *2071.71 +/- 5	2R3	4	0	3,601,228	84:1
2687	96	252	00:39:34.000		DMS:	: *RECORD	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,601,228	86:0
2688	96	252	00:39:35.266	175EH176A6A	6TMREC	LPU	R7, TRACK 4, REV, TIC *2071.59 +/- 5	2R3	4	0	3,601,228	86:3
2689	96	252	00:39:35.466		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2071.59 +/- 5	2R3	4	0	3,601,228	86:3
2690	96	252	00:39:35.466		7VECT		Inert vect update UTC	2R3	4	0	3,601,228	89:0
2691	96	252	00:39:37.266	165EH4C	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,601,228	90:0
2692	96	252	00:39:37.933	165EH4D				2R3	4	0	:	:
2693	96	252	00:39:38.563	G2INVOLCAN03-	NIMPBK	301EH	MON. OF SELECTED VOLCANIC REG.	2R3	4	0	:	:

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2694	96	252	00:39:38.600	117EH105A106A4A	7STRP	0.0008,0.0,0.0,0.0	Slew =0.03	2R3	4	0	3.601,229:00:0	
2695	96	252	00:40:08.563	G2INVOLCAN03-	DESEL	300EH	MON. OF SELECTED VOLCANIC REG.	2R3	4	0	:	
2696	96	252	00:40:08.600	117EH11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3.601,229:45:0	
2697	96	252	00:40:19.933	175EH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3.601,229:62:0	
2698	96	252	00:40:19.933		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2061.17 +/- 5	2R3	4	0	3.601,229:62:0	
2699	96	252	00:40:19.933	175EH6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3.601,229:62:0	
2700	96	252	00:40:43.266	G2INVOLCAN03-		-----STOP-----		2R3	4	0	:	
2701	96	252	00:48:47.266	165GX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3.601,238:04:0	
2702	96	252	00:48:47.933	165GX4B	7SCAN	NORM,339.735996,	Check S/P Position	2R3	4	0	3.601,238:05:0	
2703	96	252	00:52:41.933	117GX	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3.601,241:83:0	
2704	96	252	00:52:51.266	117GX105A106A4A	7STRP	0.0,0.006,0.0,0.0,	Slew =0.35	2R3	4	0	3.601,242:06:0	
2705	96	252	00:53:14.600	117GX11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3.601,242:41:0	
2706	96	252	01:59:59.933	481SB4A	7VECT		Inert vect update UTC	2R3	4	0	3.601,308:43:0	
2707	96	252	03:06:19.266	G2INVOLCAN04-		-----START-----		2R3	4	0	:	
2708	96	252	03:07:14.800	165EI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3.601,374:89:0	
2709	96	252	03:07:15.266	165EI4B	7SCAN	NORM,11.184,5.94	Check S/P Position	2R3	4	0	3.601,374:90:0	
2710	96	252	03:09:12.600	127EI	NIMSTAB	GS	%% %% % GROUP START TAB	2R3	4	0	3.601,376:84:0	
2711	96	252	03:09:13.266	127EI4A	37ETB	07,C7,03,80,00,0	Loads wavelenght edit table	2R3	4	0	3.601,376:85:0	
2712	96	252	03:09:21.266	127EI11A	NIMSTAB	GE	%% %% % GROUP END TAB	2R3	4	0	3.601,377:06:0	
2713	96	252	03:10:05.266	175EI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3.601,377:72:0	
2714	96	252	03:10:08.600	117EI	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3.601,377:77:0	
2715	96	252	03:10:13.333		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *2062.50 +/- 5	2R3	4	0	3.601,377:84:1	
2716	96	252	03:10:14.600	175EI176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3.601,377:86:0	
2717	96	252	03:10:14.800		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2062.38 +/- 5	2R3	4	0	3.601,377:86:3	
2718	96	252	03:10:14.800		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2062.38 +/- 5	2R3	4	0	3.601,377:86:3	
2719	96	252	03:10:17.891	G2INVOLCAN04-	NIMPBK	301EI	MON. OF SELECTED VOLCANIC REG.	2R3	4	0	:	
2720	96	252	03:10:17.933	117EI105A106A4A	7STRP	0.0008,0.0,0.0,0.0	Slew =0.03	2R3	4	0	3.601,378:00:0	
2721	96	252	03:10:47.891	G2INVOLCAN04-	DESEL	300EI	MON. OF SELECTED VOLCANIC REG.	2R3	4	0	:	
2722	96	252	03:10:47.933	117EI11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3.601,378:45:0	
2723	96	252	03:10:59.266	175EI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3.601,378:62:0	
2724	96	252	03:10:59.266		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2051.96 +/- 5	2R3	4	0	3.601,378:62:0	
2725	96	252	03:10:59.266	175EI6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	3.601,378:62:0	
2726	96	252	03:11:22.599	G2INVOLCAN04-		-----STOP-----		2R3	4	0	:	
2727	96	252	03:14:23.266	165GY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3.601,382:04:0	
2728	96	252	03:14:23.933	165GY4B	7SCAN	NORM,30.671,18.4	Check S/P Position	2R3	4	0	3.601,382:05:0	
2729	96	252	03:18:17.933	117GY	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3.601,385:83:0	
2730	96	252	03:18:27.266	117GY105A106A4A	7STRP	-0.035014,0.1378	Slew =0.11	2R3	4	0	3.601,386:06:0	
2731	96	252	03:43:43.933	117GY11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3.601,411:06:0	
2732	96	252	04:39:28.533	488AB6B	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	2R3	4	0	3.601,466:18:0	
2733	96	252	04:44:59.866	488AB6C	6TMSED	NORM,CL5	Sci, Eng, and D/L Chan	2R3	4	0	3.601,471:60:0	
2734	96	252	05:14:43.932	G2INVOLCAN05-		-----START-----		2R3	4	0	:	
2735	96	252	05:15:39.200	165EJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3.601,501:89:0	
2736	96	252	05:15:39.866	165EJ4B	7SCAN	NORM,20.227,10.0	Check S/P Position	2R3	4	0	3.601,501:90:0	
2737	96	252	05:17:37.200	127EJ	NIMSTAB	GS	%% %% % GROUP START TAB	2R3	4	0	3.601,503:84:0	
2738	96	252	05:17:37.866	127EJ4A	37ETB	07,C7,03,80,00,0	Loads wavelenght edit table	2R3	4	0	3.601,503:85:0	
2739	96	252	05:17:45.866	127EJ11A	NIMSTAB	GE	%% %% % GROUP END TAB	2R3	4	0	3.601,504:06:0	
2740	96	252	05:18:29.866	175EJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3.601,504:72:0	
2741	96	252	05:18:33.200	117EJ	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	3.601,504:77:0	
2742	96	252	05:18:37.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *2053.30 +/- 6	2R3	4	0	3.601,504:84:1	
2743	96	252	05:18:39.200	175EJ176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3.601,504:86:0	
2744	96	252	05:18:39.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2053.18 +/- 6	2R3	4	0	3.601,504:86:3	
2745	96	252	05:18:39.400		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2053.18 +/- 6	2R3	4	0	3.601,504:86:3	
2746	96	252	05:18:42.533	117EJ105A106A4A	7STRP	0.0008,0.0,0.0,0.0	Slew =0.03	2R3	4	0	3.601,505:00:0	
2747	96	252	05:18:42.583	G2INVOLCAN05-	NIMPBK	301EJ	MON. OF SELECTED VOLCANIC REG.	2R3	4	0	:	
2748	96	252	05:19:12.533	117EJ11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3.601,505:45:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2749	96	252	05:19:12.553	G2INVOLCAN05-	DESEL	300EJ	MON OF SELECTED VOLCANIC REG.	2R3	4	0	:	:
2750	96	252	05:19:23.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2042.76 +/- 6	2R3	4	0	:	3,601,505:62:0
2751	96	252	05:19:23.866	175EJ6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	:	3,601,505:62:0
2752	96	252	05:19:23.866	175EJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	:	3,601,505:62:0
2753	96	252	05:20:47.266	G2INVOLCAN05-		----STOP		2R3	4	0	:	:
2754	96	252	05:20:47.999	G2HNDARK_05-		----START		2R3	4	0	:	:
2755	96	252	05:21:28.533	165E K4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	:	3,601,507:67:0
2756	96	252	05:21:29.200	165E K4B	7SCAN	NORM,33.976,7.21	Check S/P Position	2R3	4	0	:	3,601,507:68:0
2757	96	252	05:24:41.866	127EK	NIMSTAB	GS	%%%% GROUP START TAB	2R3	4	0	:	3,601,510:84:0
2758	96	252	05:24:42.533	127EK4A	37ETB	GE,C7,05,FF,FF.3	Loads wavelength edit table	2R3	4	0	:	3,601,510:85:0
2759	96	252	05:24:50.533	127EK11A	NIMSTAB	GE	%%%% GROUP END TAB	2R3	4	0	:	3,601,511:06:0
2760	96	252	05:25:34.533	175EK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	:	3,601,511:72:0
2761	96	252	05:25:42.600		DMS:	: *RUNUP	R7, TRACK *4, REV, TIC *2044.09 +/- 6	2R3	4	0	:	3,601,511:84:1
2762	96	252	05:25:43.866	175EK176A6A	6TMREC	LPW	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	:	3,601,511:86:0
2763	96	252	05:25:44.066		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2043.97 +/- 6	2R3	4	0	:	3,601,511:86:3
2764	96	252	05:25:44.066		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2043.97 +/- 6	2R3	4	0	:	3,601,511:86:3
2765	96	252	05:25:47.220	G2HNDARK_05-	NIMPBK	301EK	DARK SKY	2R3	4	0	:	:
2766	96	252	05:26:47.866	G2HNDARK_05-	DESEL	300EK	DARK SKY	2R3	4	0	:	:
2767	96	252	05:26:59.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *2026.36 +/- 6	2R3	4	0	:	3,601,513:17:0
2768	96	252	05:26:59.200	175EK6A	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	:	3,601,513:17:0
2769	96	252	05:26:59.200	175EK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	:	3,601,513:17:0
2770	96	252	05:27:52.666	G2HNDARK_05-		----STOP		2R3	4	0	:	:
2771	96	252	05:29:53.200	165GZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	:	3,601,516:05:0
2772	96	252	05:29:53.866	165GZ4B	7SCAN	NORM,40.412,18.2	Check S/P Position	2R3	4	0	:	3,601,516:06:0
2773	96	252	05:33:47.866	117GZ	CSMOS	GS	**** GROUP START CSMOS	2R3	4	0	:	3,601,519:84:0
2774	96	252	05:33:57.200	117GZ105A106A4A	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,520:07:0
2775	96	252	05:36:37.866	117GZ105A106A4B	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,522:66:0
2776	96	252	05:36:54.533	117GZ105A106A4C	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,523:00:0
2777	96	252	05:39:35.200	117GZ105A106A4D	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,525:59:0
2778	96	252	05:39:51.866	117GZ105A106A4E	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,525:84:0
2779	96	252	05:42:32.533	117GZ105A106A4F	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,528:52:0
2780	96	252	05:42:49.200	117GZ105A106A4G	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,528:77:0
2781	96	252	05:44:49.866	175KZ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	:	3,601,530:76:0
2782	96	252	05:44:57.933		DMS:	: *RUNUP	R7, TRACK *4, REV, TIC *2027.70 +/- 6	2R3	4	0	:	3,601,530:88:1
2783	96	252	05:44:59.200	175KZ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	:	3,601,530:90:0
2784	96	252	05:44:59.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2027.58 +/- 6	2R3	4	0	:	3,601,530:90:3
2785	96	252	05:44:59.400		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 2027.58 +/- 6	2R3	4	0	:	3,601,530:90:3
2786	96	252	05:45:29.866	117GZ105A106A4H	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,531:45:0
2787	96	252	05:45:46.533	117GZ105A106A4I	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,531:70:0
2788	96	252	05:48:27.200	117GZ105A106A4J	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,534:38:0
2789	96	252	05:48:43.866	117GZ105A106A4K	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,534:63:0
2790	96	252	05:51:24.533	117GZ105A106A4L	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,537:31:0
2791	96	252	05:51:41.200	117GZ105A106A4M	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,537:56:0
2792	96	252	05:54:21.866	117GZ105A106A4N	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,540:24:0
2793	96	252	05:54:38.533	117GZ105A106A4O	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,540:49:0
2794	96	252	05:57:19.200	117GZ105A106A4P	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,543:17:0
2795	96	252	05:57:35.866	117GZ105A106A4Q	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,543:42:0
2796	96	252	06:00:16.533	117GZ105A106A4R	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,546:10:0
2797	96	252	06:00:33.200	117GZ105A106A4S	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,546:35:0
2798	96	252	06:03:13.866	117GZ105A106A4T	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,549:03:0
2799	96	252	06:03:30.533	117GZ105A106A4U	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,549:28:0
2800	96	252	06:06:11.200	117GZ105A106A4V	7STRP	-0.002,-0.011031	Slew =17.3	2R3	4	0	:	3,601,551:87:0
2801	96	252	06:06:27.866	117GZ105A106A4W	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	:	3,601,552:21:0
2802	96	252	06:06:51.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1720.12 +/- 6	2R3	4	0	:	3,601,552:56:0
2803	96	252	06:06:51.200	175KZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	:	3,601,552:56:0

Line	YR	DOY	SCET	G-MT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2804	96	252	06:09:08.533		117GZ105A106A4X	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,554:80.0	
2805	96	252	06:09:25.200		117GZ105A106A4Y	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,555:14.0	
2806	96	252	06:12:05.866		117GZ105A106A4Z	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,557:73.0	
2807	96	252	06:12:22.533		117GZ105A106A4AA	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,558:07.0	
2808	96	252	06:15:03.200		117GZ105A106A4AB	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,560:66.0	
2809	96	252	06:15:19.866		117GZ105A106A4AC	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,561:00.0	
2810	96	252	06:18:00.533		117GZ105A106A4AD	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,563:59.0	
2811	96	252	06:18:17.200		117GZ105A106A4AE	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,563:84.0	
2812	96	252	06:20:57.866		117GZ105A106A4AF	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,566:52.0	
2813	96	252	06:21:14.533		117GZ105A106A4AG	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,566:77.0	
2814	96	252	06:23:55.200		117GZ105A106A4AH	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,569:45.0	
2815	96	252	06:24:11.866		117GZ105A106A4AI	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,569:70.0	
2816	96	252	06:26:52.533		117GZ105A106A4AJ	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,572:38.0	
2817	96	252	06:27:09.200		117GZ105A106A4AK	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,572:63.0	
2818	96	252	06:29:49.866		117GZ105A106A4AL	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,575:31.0	
2819	96	252	06:30:06.533		117GZ105A106A4AM	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,575:56.0	
2820	96	252	06:32:47.200		117GZ105A106A4AN	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,578:24.0	
2821	96	252	06:33:03.866		117GZ105A106A4AO	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,578:49.0	
2822	96	252	06:35:44.533		117GZ105A106A4AP	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,581:17.0	
2823	96	252	06:36:01.200		117GZ105A106A4AQ	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,581:42.0	
2824	96	252	06:38:41.866		117GZ105A106A4AR	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,584:10.0	
2825	96	252	06:38:58.533		117GZ105A106A4AS	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,584:35.0	
2826	96	252	06:41:39.200		117GZ105A106A4AT	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,587:03.0	
2827	96	252	06:41:55.866		117GZ105A106A4AU	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,587:28.0	
2828	96	252	06:44:36.533		117GZ105A106A4AV	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,589:87.0	
2829	96	252	06:44:53.200		117GZ105A106A4AW	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,590:21.0	
2830	96	252	06:47:33.866		117GZ105A106A4AX	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,592:80.0	
2831	96	252	06:47:50.533		117GZ105A106A4AY	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,593:14.0	
2832	96	252	06:50:31.200		117GZ105A106A4AZ	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,595:73.0	
2833	96	252	06:50:47.866		117GZ105A106A4BA	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,596:07.0	
2834	96	252	06:53:28.533		117GZ105A106A4BB	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,598:66.0	
2835	96	252	06:53:45.200		117GZ105A106A4BC	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,599:00.0	
2836	96	252	06:56:25.866		117GZ105A106A4BD	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,601:59.0	
2837	96	252	06:56:42.533		117GZ105A106A4BE	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,601:84.0	
2838	96	252	06:59:23.200		117GZ105A106A4BF	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,604:52.0	
2839	96	252	06:59:39.866		117GZ105A106A4BG	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,604:77.0	
2840	96	252	07:02:20.533		117GZ105A106A4BH	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,607:45.0	
2841	96	252	07:02:37.200		117GZ105A106A4BI	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,607:70.0	
2842	96	252	07:05:17.866		117GZ105A106A4BJ	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,610:38.0	
2843	96	252	07:05:34.533		117GZ105A106A4BK	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,610:63.0	
2844	96	252	07:08:15.200		117GZ105A106A4BL	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,613:31.0	
2845	96	252	07:08:31.866		117GZ105A106A4BM	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,613:56.0	
2846	96	252	07:11:12.533		117GZ105A106A4BN	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,616:24.0	
2847	96	252	07:11:29.200		117GZ105A106A4BO	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,616:49.0	
2848	96	252	07:14:09.866		117GZ105A106A4BP	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,619:17.0	
2849	96	252	07:14:26.533		117GZ105A106A4BQ	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,619:42.0	
2850	96	252	07:17:07.200		117GZ105A106A4BR	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,622:10.0	
2851	96	252	07:17:23.866		117GZ105A106A4BS	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,622:35.0	
2852	96	252	07:20:04.533		117GZ105A106A4BT	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,625:03.0	
2853	96	252	07:20:21.200		117GZ105A106A4BU	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,625:28.0	
2854	96	252	07:23:01.866		117GZ105A106A4BV	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,627:87.0	
2855	96	252	07:23:18.533		117GZ105A106A4BW	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,628:21.0	
2856	96	252	07:25:59.200		117GZ105A106A4BX	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,630:80.0	
2857	96	252	07:26:15.866		117GZ105A106A4BY	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,631:14.0	
2858	96	252	07:28:43.200		488AC6A	6TMSD	FILL, CL5	Sci, Eng, and D/L Chan	2R3	4	0	3,601,633:53.0	



Line	YR	DOY	SCET	G-MT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2859	96	252	07:28:56.533		117GZ105A106A4BZ	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,633.730	
2860	96	252	07:29:13.200		117GZ105A106A4CA	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,634.070	
2861	96	252	07:31:53.866		117GZ105A106A4CB	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,636.660	
2862	96	252	07:32:10.533		117GZ105A106A4CC	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,637.000	
2863	96	252	07:34:51.200		117GZ105A106A4CD	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,639.590	
2864	96	252	07:35:07.866		117GZ105A106A4CE	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,639.840	
2865	96	252	07:37:48.533		117GZ105A106A4CF	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,642.520	
2866	96	252	07:38:05.200		117GZ105A106A4CG	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,642.770	
2867	96	252	07:40:45.866		117GZ105A106A4CH	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,645.450	
2868	96	252	07:41:02.533		117GZ105A106A4CI	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,645.700	
2869	96	252	07:43:43.200		117GZ105A106A4CJ	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,648.380	
2870	96	252	07:43:59.866		117GZ105A106A4CK	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,648.630	
2871	96	252	07:46:40.533		117GZ105A106A4CL	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,651.310	
2872	96	252	07:46:55.866		488AC6B	6TMSED	NORM,CL5	Sci, Eng, and D/L Chan	2R3	4	0	3,601,651.540	
2873	96	252	07:46:57.200		117GZ105A106A4CM	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,651.560	
2874	96	252	07:49:37.866		117GZ105A106A4CN	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,654.240	
2875	96	252	07:49:54.533		117GZ105A106A4CO	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,654.490	
2876	96	252	07:52:35.200		117GZ105A106A4CP	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,657.170	
2877	96	252	07:52:51.866		117GZ105A106A4CQ	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,657.420	
2878	96	252	07:55:32.533		117GZ105A106A4CR	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,660.100	
2879	96	252	07:55:49.200		117GZ105A106A4CS	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,660.350	
2880	96	252	07:58:29.866		117GZ105A106A4CT	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,663.030	
2881	96	252	07:58:46.533		117GZ105A106A4CU	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,663.280	
2882	96	252	08:01:27.200		117GZ105A106A4CV	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,665.870	
2883	96	252	08:01:43.866		117GZ105A106A4CW	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,666.210	
2884	96	252	08:04:24.533		117GZ105A106A4CX	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,668.800	
2885	96	252	08:04:41.200		117GZ105A106A4CY	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,669.140	
2886	96	252	08:07:21.866		117GZ105A106A4CZ	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,671.730	
2887	96	252	08:07:38.533		117GZ105A106A4DA	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,672.070	
2888	96	252	08:10:19.200		117GZ105A106A4DB	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,674.660	
2889	96	252	08:10:35.866		117GZ105A106A4DC	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,675.000	
2890	96	252	08:13:16.533		117GZ105A106A4DD	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,677.590	
2891	96	252	08:13:33.200		117GZ105A106A4DE	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,677.840	
2892	96	252	08:16:13.866		117GZ105A106A4DF	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,680.520	
2893	96	252	08:16:30.533		117GZ105A106A4DG	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,680.770	
2894	96	252	08:19:11.200		117GZ105A106A4DH	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,683.450	
2895	96	252	08:19:27.866		117GZ105A106A4DI	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,683.700	
2896	96	252	08:19:59.866		481SC4A	7VECT		Inert vect update UTC	2R3	4	0	3,601,684.270	
2897	96	252	08:22:08.533		117GZ105A106A4DJ	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,686.380	
2898	96	252	08:22:25.200		117GZ105A106A4DK	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,686.630	
2899	96	252	08:25:05.866		117GZ105A106A4DL	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,689.310	
2900	96	252	08:25:22.533		117GZ105A106A4DM	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,689.560	
2901	96	252	08:28:03.200		117GZ105A106A4DN	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,692.240	
2902	96	252	08:28:19.866		117GZ105A106A4DO	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,692.490	
2903	96	252	08:31:00.533		117GZ105A106A4DP	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,695.170	
2904	96	252	08:31:17.200		117GZ105A106A4DQ	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,695.420	
2905	96	252	08:33:57.866		117GZ105A106A4DR	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,698.100	
2906	96	252	08:34:14.533		117GZ105A106A4DS	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,698.350	
2907	96	252	08:36:55.200		117GZ105A106A4DT	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,701.030	
2908	96	252	08:37:11.866		117GZ105A106A4DU	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,701.280	
2909	96	252	08:39:52.533		117GZ105A106A4DV	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,703.870	
2910	96	252	08:40:09.200		117GZ105A106A4DW	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,704.210	
2911	96	252	08:42:49.866		117GZ105A106A4DX	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,706.800	
2912	96	252	08:43:06.533		117GZ105A106A4DY	7STRP	0.0,0.011001,0.0	Slew =0,0.1	2R3	4	0	3,601,707.140	
2913	96	252	08:45:47.200		117GZ105A106A4DZ	7STRP	-0.002,-0.011031	Slew =,17.3	2R3	4	0	3,601,709.730	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2914	96	252	08:46:03.866	117GZ105A106A4EA	7STRP	0.0,0.011001,0.0	Slew =0.0,1	2R3	4	0	3,601,710:07.0	
2915	96	252	08:48:44.533	117GZ11A	CSMOS	GE	GROUP END CSMOS	2R3	4	0	3,601,712:66.0	
2916	96	252	08:51:05.866	165HA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,601,715:05.0	
2917	96	252	08:51:06.533	165HA4B	7SCAN	NORM,41.878,18.7	Check S/P Position	2R3	4	0	3,601,715:06.0	
2918	96	252	08:55:00.533	117HA	CSMOS	GS	GROUP START CSMOS	2R3	4	0	3,601,718:84.0	
2919	96	252	08:55:09.866	117HA105A106A4A	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,719:07.0	
2920	96	252	08:55:47.866	117HA105A106A4B	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,719:64.0	
2921	96	252	08:56:03.866	117HA105A106A4C	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,719:88.0	
2922	96	252	08:56:41.866	117HA105A106A4D	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,720:54.0	
2923	96	252	08:56:57.866	117HA105A106A4E	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,720:78.0	
2924	96	252	08:57:35.866	117HA105A106A4F	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,721:44.0	
2925	96	252	08:57:51.866	117HA105A106A4G	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,721:68.0	
2926	96	252	08:58:29.866	117HA105A106A4H	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,722:34.0	
2927	96	252	08:58:45.866	117HA105A106A4I	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,722:58.0	
2928	96	252	08:59:23.866	117HA105A106A4J	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,723:24.0	
2929	96	252	08:59:39.866	117HA105A106A4K	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,723:48.0	
2930	96	252	09:00:17.866	117HA105A106A4L	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,724:14.0	
2931	96	252	09:00:33.866	117HA105A106A4M	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,724:38.0	
2932	96	252	09:01:11.866	117HA105A106A4N	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,725:04.0	
2933	96	252	09:01:27.866	117HA105A106A4O	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,725:28.0	
2934	96	252	09:02:05.866	117HA105A106A4P	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,725:85.0	
2935	96	252	09:02:21.866	117HA105A106A4Q	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,726:18.0	
2936	96	252	09:02:59.866	117HA105A106A4R	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,726:75.0	
2937	96	252	09:03:15.866	117HA105A106A4S	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,727:08.0	
2938	96	252	09:03:53.866	117HA105A106A4T	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,727:65.0	
2939	96	252	09:04:09.866	117HA105A106A4U	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,727:89.0	
2940	96	252	09:04:47.866	117HA105A106A4V	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,728:55.0	
2941	96	252	09:05:03.866	117HA105A106A4W	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,728:79.0	
2942	96	252	09:05:41.866	117HA105A106A4X	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,729:45.0	
2943	96	252	09:05:57.866	117HA105A106A4Y	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,729:69.0	
2944	96	252	09:06:35.866	117HA105A106A4Z	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,730:35.0	
2945	96	252	09:06:51.866	117HA105A106A4A	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,730:59.0	
2946	96	252	09:07:29.866	117HA105A106A4AB	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,731:25.0	
2947	96	252	09:07:45.866	117HA105A106A4AC	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,731:49.0	
2948	96	252	09:08:23.866	117HA105A106A4AD	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,732:15.0	
2949	96	252	09:08:39.866	117HA105A106A4AE	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,732:39.0	
2950	96	252	09:09:17.866	117HA105A106A4AF	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,733:05.0	
2951	96	252	09:09:33.866	117HA105A106A4AG	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,733:29.0	
2952	96	252	09:10:11.866	117HA105A106A4AH	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,733:86.0	
2953	96	252	09:10:27.866	117HA105A106A4AI	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,734:19.0	
2954	96	252	09:11:05.866	117HA105A106A4AJ	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,734:76.0	
2955	96	252	09:11:21.866	117HA105A106A4AK	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,735:09.0	
2956	96	252	09:11:59.866	117HA105A106A4AL	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,735:66.0	
2957	96	252	09:12:15.866	117HA105A106A4AM	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,735:90.0	
2958	96	252	09:12:53.866	117HA105A106A4AN	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,736:56.0	
2959	96	252	09:13:09.866	117HA105A106A4AO	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,736:80.0	
2960	96	252	09:13:47.866	117HA105A106A4AP	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,737:46.0	
2961	96	252	09:14:03.866	117HA105A106A4AQ	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,737:70.0	
2962	96	252	09:14:41.866	117HA105A106A4AR	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,738:36.0	
2963	96	252	09:14:57.866	117HA105A106A4AS	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,738:60.0	
2964	96	252	09:15:35.866	117HA105A106A4AT	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,739:26.0	
2965	96	252	09:15:51.866	117HA105A106A4AU	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,739:50.0	
2966	96	252	09:16:29.866	117HA105A106A4AV	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,740:16.0	
2967	96	252	09:16:45.866	117HA105A106A4AW	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,740:40.0	
2968	96	252	09:17:23.866	117HA105A106A4AX	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,741:06.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
2969	96	252	09:17:39.866	117HA105A106A4AY	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,741:30.0	
2970	96	252	09:18:17.866	117HA105A106A4AZ	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,741:87.0	
2971	96	252	09:18:33.866	117HA105A106A4BA	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,742:20.0	
2972	96	252	09:19:11.866	117HA105A106A4BB	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,742:77.0	
2973	96	252	09:19:27.866	117HA105A106A4BC	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,743:10.0	
2974	96	252	09:20:05.866	117HA105A106A4BD	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,743:67.0	
2975	96	252	09:20:21.866	117HA105A106A4BE	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,744:00.0	
2976	96	252	09:20:59.866	117HA105A106A4BF	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,744:57.0	
2977	96	252	09:21:15.866	117HA105A106A4BG	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,744:81.0	
2978	96	252	09:21:53.866	117HA105A106A4BH	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,745:47.0	
2979	96	252	09:22:09.866	117HA105A106A4BI	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,745:71.0	
2980	96	252	09:22:47.866	117HA105A106A4BJ	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,746:37.0	
2981	96	252	09:23:03.866	117HA105A106A4BK	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,746:61.0	
2982	96	252	09:23:41.866	117HA105A106A4BL	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,747:27.0	
2983	96	252	09:23:57.866	117HA105A106A4BM	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,747:51.0	
2984	96	252	09:24:35.866	117HA105A106A4BN	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,748:17.0	
2985	96	252	09:24:51.866	117HA105A106A4BO	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,748:41.0	
2986	96	252	09:25:29.866	117HA105A106A4BP	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,749:07.0	
2987	96	252	09:25:45.866	117HA105A106A4BQ	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,749:31.0	
2988	96	252	09:26:23.866	117HA105A106A4BR	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,749:88.0	
2989	96	252	09:26:39.866	117HA105A106A4BS	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,750:21.0	
2990	96	252	09:27:17.866	117HA105A106A4BT	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,750:78.0	
2991	96	252	09:27:33.866	117HA105A106A4BU	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,751:11.0	
2992	96	252	09:28:11.866	117HA105A106A4BV	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,751:68.0	
2993	96	252	09:28:27.866	117HA105A106A4BW	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,752:01.0	
2994	96	252	09:29:05.866	117HA105A106A4BX	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,752:58.0	
2995	96	252	09:29:21.866	117HA105A106A4BY	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,752:82.0	
2996	96	252	09:29:59.866	117HA105A106A4BZ	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,753:48.0	
2997	96	252	09:30:15.866	117HA105A106A4CA	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,753:72.0	
2998	96	252	09:30:53.866	117HA105A106A4CB	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,754:38.0	
2999	96	252	09:31:09.866	117HA105A106A4CC	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,754:62.0	
3000	96	252	09:31:47.866	117HA105A106A4CD	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,755:28.0	
3001	96	252	09:32:03.866	117HA105A106A4CE	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,755:52.0	
3002	96	252	09:32:41.866	117HA105A106A4CF	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,756:18.0	
3003	96	252	09:32:57.866	117HA105A106A4CG	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,756:42.0	
3004	96	252	09:33:35.866	117HA105A106A4CH	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,757:08.0	
3005	96	252	09:33:51.866	117HA105A106A4CI	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,757:32.0	
3006	96	252	09:34:29.866	117HA105A106A4CJ	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,757:89.0	
3007	96	252	09:34:45.866	117HA105A106A4CK	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,758:22.0	
3008	96	252	09:35:23.866	117HA105A106A4CL	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,758:79.0	
3009	96	252	09:35:39.866	117HA105A106A4CM	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,759:12.0	
3010	96	252	09:36:17.866	117HA105A106A4CN	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,759:69.0	
3011	96	252	09:36:33.866	117HA105A106A4CO	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,760:02.0	
3012	96	252	09:37:11.866	117HA105A106A4CP	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,760:59.0	
3013	96	252	09:37:27.866	117HA105A106A4CQ	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,760:83.0	
3014	96	252	09:38:05.866	117HA105A106A4CR	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,761:49.0	
3015	96	252	09:38:21.866	117HA105A106A4CS	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,761:73.0	
3016	96	252	09:38:59.866	117HA105A106A4CT	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,762:39.0	
3017	96	252	09:39:15.866	117HA105A106A4CU	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,762:63.0	
3018	96	252	09:39:53.866	117HA105A106A4CV	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,763:29.0	
3019	96	252	09:40:09.866	117HA105A106A4CW	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,763:53.0	
3020	96	252	09:40:47.866	117HA105A106A4CX	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,764:19.0	
3021	96	252	09:41:03.866	117HA105A106A4CY	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,764:43.0	
3022	96	252	09:41:41.866	117HA105A106A4CZ	7STRP	-0.002,-0.00953,	Slew =17.3	2R3	4	0	3,601,765:09.0	
3023	96	252	09:41:57.866	117HA105A106A4DA	7STRP	0.0,0.0095,0.0,0	Slew =0.41	2R3	4	0	3,601,765:33.0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
3024	96	252	09:42:35.866	117HA105A106A4DB	7STRP	-0.002,-0.00953,	Slew =,17.3	2R3	4	0	3,601,765	90:0
3025	96	252	09:42:51.866	117HA105A106A4DC	7STRP	0.0,0.0095,0.0,0	Slew =,0.41	2R3	4	0	3,601,766	2:30
3026	96	252	09:43:29.866	117HA105A106A4DD	7STRP	-0.002,-0.00953,	Slew =,17.3	2R3	4	0	3,601,766	80:0
3027	96	252	09:43:45.866	117HA105A106A4DE	7STRP	0.0,0.0095,0.0,0	Slew =,0.41	2R3	4	0	3,601,767	1:30
3028	96	252	09:44:23.866	117HA105A106A4DF	7STRP	-0.002,-0.00953,	Slew =,17.3	2R3	4	0	3,601,767	70:0
3029	96	252	09:44:39.866	117HA105A106A4DG	7STRP	0.0,0.0095,0.0,0	Slew =,0.41	2R3	4	0	3,601,768	0:30
3030	96	252	09:45:17.866	117HA105A106A4DH	7STRP	-0.002,-0.00953,	Slew =,17.3	2R3	4	0	3,601,768	60:0
3031	96	252	09:45:33.866	117HA105A106A4DI	7STRP	0.0,0.0095,0.0,0	Slew =,0.41	2R3	4	0	3,601,768	84:0
3032	96	252	09:46:11.866	117HA105A106A4DJ	7STRP	-0.002,-0.00953,	Slew =,17.3	2R3	4	0	3,601,769	50:0
3033	96	252	09:46:27.866	117HA105A106A4DK	7STRP	0.0,0.0095,0.0,0	Slew =,0.41	2R3	4	0	3,601,769	74:0
3034	96	252	09:47:05.866	117HA105A106A4DL	7STRP	-0.002,-0.00953,	Slew =,17.3	2R3	4	0	3,601,770	40:0
3035	96	252	09:47:21.866	117HA105A106A4DM	7STRP	0.0,0.0095,0.0,0	Slew =,0.41	2R3	4	0	3,601,770	64:0
3036	96	252	09:47:59.866	117HA105A106A4DN	7STRP	-0.002,-0.00953,	Slew =,17.3	2R3	4	0	3,601,771	30:0
3037	96	252	09:48:15.866	117HA105A106A4DO	7STRP	0.0,0.0095,0.0,0	Slew =,0.41	2R3	4	0	3,601,771	54:0
3038	96	252	09:48:53.866	117HA105A106A4DP	7STRP	-0.002,-0.00953,	Slew =,17.3	2R3	4	0	3,601,772	20:0
3039	96	252	09:49:09.866	117HA105A106A4DQ	7STRP	0.0,0.0095,0.0,0	Slew =,0.41	2R3	4	0	3,601,772	44:0
3040	96	252	09:49:47.866	117HA11A	CSMOS	GE	**** GROUP END CSMOS	2R3	4	0	3,601,773	10:0
3041	96	252	09:59:59.866	488AC6C	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	2R3	4	0	3,601,783	18:0
3042	96	252	10:05:55.999	G2NNMMRYLD02-		-----START-----		2R3	4	0	:	:
3043	96	252	10:06:56.533	20EC5A	37PL		Program Load (halts microprocessor & unwr	2R3	4	0	3,601,790	06:0
3044	96	252	10:07:57.200	20EC5B	37MLR		Memory Realocate (software operates from R	2R3	4	0	3,601,791	06:0
3045	96	252	10:08:57.866	20EC6A	6MCPY	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	3,601,792	06:0
3046	96	252	10:09:58.533	20EC6B	6MCPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	3,601,793	06:0
3047	96	252	10:10:59.200	20EC6C	6CKSUM	NIMS	NIMS,1000,14B3	2R3	4	0	3,601,794	06:0
3048	96	252	10:11:59.866	20EC5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	3,601,795	06:0
3049	96	252	10:13:00.533	20EC5D	37MN		Memory Normal (software operates from ROM)	260	4	0	3,601,796	06:0
3050	96	252	10:14:01.200	20EC4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	3,601,797	06:0
3051	96	252	10:15:01.999	G2NNMMRYLD02-		-----STOP-----		2R0	4	0	:	:
3052	96	252	12:58:40.533	488AC6D	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R0	4	0	3,601,959	83:0
3053	96	252	13:19:43.200	165IL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,601,980	66:0
3054	96	252	13:19:43.866	165IL4B	7SCAN	NORM,289,174999,	Check S/P Position	2R0	4	0	3,601,980	67:0
3055	96	252	13:23:36.533	175IL422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R0	4	0	3,601,984	52:0
3056	96	252	13:23:44.600		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1721.46 +/- 6	2R0	4	0	3,601,984	64:1
3057	96	252	13:23:45.866	165IL4C	7VECT		Inert vect update UTC	2R0	4	0	3,601,984	66:0
3058	96	252	13:23:46.533	165IL4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R0	4	0	3,601,984	67:0
3059	96	252	13:23:48.533	175IL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R0	4	0	3,601,984	70:0
3060	96	252	13:23:48.600		DMS:	: *AT SPD	R115, TRACK 4, REV, TIC 1715.19 +/- 6	2R0	4	0	3,601,984	70:1
3061	96	252	13:23:48.600		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *1715.19 +/- 6	2R0	4	0	3,601,984	70:1
3062	96	252	13:23:53.866		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *1696.67 +/- 6	2R0	4	0	3,601,984	78:0
3063	96	252	13:23:53.866	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,601,984	78:0
3064	96	252	13:28:39.866	175IQ422A6A	6DMSC		DMS Control Tape runup 115.2kb	2R0	4	0	3,601,989	52:0
3065	96	252	13:28:47.933		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1697.15 +/- 6	2R0	4	0	3,601,989	64:1
3066	96	252	13:28:51.866	175IQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R0	4	0	3,601,989	70:0
3067	96	252	13:28:51.933		DMS:	: *AT SPD	R115, TRACK 4, REV, TIC 1690.88 +/- 7	2R0	4	0	3,601,989	70:1
3068	96	252	13:28:51.933		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *1690.88 +/- 7	2R0	4	0	3,601,989	70:1
3069	96	252	13:28:57.200		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *1672.37 +/- 7	2R0	4	0	3,601,989	78:0
3070	96	252	13:28:57.200	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,601,989	78:0
3071	96	252	13:33:43.200	175LA422A6A	6DMSC	R115.0	DMS Control Tape runup 115.2kb	2R0	4	0	3,601,994	52:0
3072	96	252	13:33:51.266		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1672.84 +/- 7	2R0	4	0	3,601,994	64:1
3073	96	252	13:33:55.200	175LA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R0	4	0	3,601,994	70:0
3074	96	252	13:33:55.266		DMS:	: *AT SPD	R115, TRACK 4, REV, TIC 1666.57 +/- 7	2R0	4	0	3,601,994	70:1
3075	96	252	13:33:55.266		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *1666.57 +/- 7	2R0	4	0	3,601,994	70:1
3076	96	252	13:34:01.200		DMS:	: *RUNDOWN	R115, TRACK 4, REV, TIC *1645.72 +/- 7	2R0	4	0	3,601,994	79:0
3077	96	252	13:34:01.200	175LA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,601,994	79:0
3078	96	252	13:54:26.666	G2NNPCTCAL01-		-----START-----		2R0	4	0	:	:

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3079	96	252	13:54:59.866	444UB443A4A	7MODE	CRU	AACS CRUISE MODE	2R0	4	0	3.602,015:56.0	
3080	96	252	14:00:59.866	444UC443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	4	0	3.602,021:50.0	
3081	96	252	14:04:59.866	444UC443A4B	7MODE	SPNL	AACS ALL-SP-IN LOW	2R0	4	0	3.602,025:46.0	
3082	96	252	14:13:59.866	444UC443A4C	7CLK	17.45,0.0	Check S/P Position	2R0	4	0	3.602,034:37.0	
3083	96	252	14:26:39.200	127EP	NIMSTAB	GS	%%GROUP START TAB	2R0	4	0	3.602,046:84.0	
3084	96	252	14:26:39.866	127EP4A	37ETB	0A,CA,19,FF,C0,1	Loads wavelength edit table	2R0	4	0	3.602,046:85.0	
3085	96	252	14:26:47.866	127EP11A	NIMSTAB	GE	%%GROUP END TAB	2R0	4	0	3.602,047:06.0	
3086	96	252	14:40:48.533	157EP156A121A4A	37IOP	3.0	Long Map, Grating Start Position =00	2R3	4	0	3.602,060:84.0	
3087	96	252	14:41:49.200	157EP156A121B4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R3	4	0	3.602,061:84.0	
3088	96	252	14:41:53.866	192EP4A	7CONE	17.0,110.0	Check S/P Position	4R3	4	0	3.602,062:00.0	
3089	96	252	14:41:54.533	192EP4B	7CLK	17.0,90.0	Check S/P Position	4R3	4	0	3.602,062:01.0	
3090	96	252	14:44:24.533	488AD6A	6TMSED	FILL, DL4	Sci, Eng, and D/L Chan	4R3	4	0	3.602,064:44.0	
3091	96	252	14:44:43.200	175EP422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	4R3	4	0	3.602,064:72.0	
3092	96	252	14:44:51.266		DMS:	: *RUNUP	R7, TRACK *4, REV, TIC *1646.19 +/- 7	4R3	4	0	3.602,064:84.1	
3093	96	252	14:44:52.533	175EP176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3.602,064:86.0	
3094	96	252	14:44:52.733		DMS:	: *RECORD	R7, TRACK 4, REV, TIC 1646.08 +/- 7	4R3	4	0	3.602,064:86.3	
3096	96	252	14:48:09.866	175EP422A6B	6DMSC	RDY.0	DMS Control Tape stop	4R3	4	0	3.602,068:18.0	
3097	96	252	14:48:09.866	175EP6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3.602,068:18.0	
3098	96	252	14:48:09.866		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1599.87 +/- 7	4R3	4	0	3.602,068:18.0	
3099	96	252	14:49:35.866	488AD6B	6TMSED	FILL, DL2	Sci, Eng, and D/L Chan	4R3	4	0	3.602,069:56.0	
3100	96	252	14:49:59.200	192EP4C	7CONE	17.0,54.88	Check S/P Position	4R3	4	0	3.602,070:00.0	
3101	96	252	14:49:59.866	192EP4D	7CLK	17.0,244.07	Check S/P Position	4R3	4	0	3.602,070:01.0	
3102	96	252	14:52:48.533	175ER422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	4R3	4	0	3.602,072:72.0	
3103	96	252	14:52:56.600		DMS:	: *RUNUP	R7, TRACK *4, REV, TIC *1601.21 +/- 7	4R3	4	0	3.602,072:84.1	
3104	96	252	14:52:57.866	175ER176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3.602,072:86.0	
3106	96	252	14:52:58.066		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1601.09 +/- 7	4R3	4	0	3.602,072:86.3	
3107	96	252	14:53:01.198	G2NNPCTCAL01-	NIMPBK	301ER	PCTCAL	4R3	4	0	:	
3108	96	252	14:56:05.198	G2NNPCTCAL01-	DESEL	300ER	PCTCAL	4R3	4	0	:	
3109	96	252	14:56:15.200		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1554.89 +/- 7	4R3	4	0	3.602,076:18.0	
3110	96	252	14:56:15.200	175ER6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3.602,076:18.0	
3111	96	252	14:56:15.200	175ER422A6B	6DMSC	RDY.0	DMS Control Tape stop	4R3	4	0	3.602,076:18.0	
3112	96	252	14:58:04.533	192EP4E	7CONE	17.0,110.0	Check S/P Position	4R3	4	0	3.602,078:00.0	
3113	96	252	14:58:05.200	192EP4F	7CLK	17.0,90.0	Check S/P Position	4R3	4	0	3.602,078:01.0	
3114	96	252	15:00:53.866	175EQ422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	4R3	4	0	3.602,080:72.0	
3115	96	252	15:01:01.866	157EP156A121C4A	37IST	0,2,1,OFF,1,1,1	OPCALGain State 4	4R3	4	0	3.602,080:84.0	
3116	96	252	15:01:01.933		DMS:	: *RUNUP	R7, TRACK *4, REV, TIC *1556.22 +/- 7	4R3	4	0	3.602,080:84.1	
3117	96	252	15:01:03.200	175EQ176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3.602,080:86.0	
3118	96	252	15:01:03.400		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *1556.10 +/- 7	4R3	4	0	3.602,080:86.3	
3119	96	252	15:01:03.400		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 1556.10 +/- 7	4R3	4	0	3.602,080:86.3	
3120	96	252	15:04:08.533	192EP4G	7CONE	17.0,153.0	Check S/P Position	4R3	4	0	3.602,084:00.0	
3121	96	252	15:04:09.200	192EP4H	7CLK	17.0,0.0	Check S/P Position	4R3	4	0	3.602,084:01.0	
3122	96	252	15:04:10.533	175EQ422A6B	6DMSC	RDY.0	DMS Control Tape stop	4R3	4	0	3.602,084:03.0	
3123	96	252	15:04:10.533	175EQ6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3.602,084:03.0	
3124	96	252	15:04:10.533		DMS:	: *RUNDOWN	R7, TRACK 4, REV, TIC *1512.24 +/- 7	4R3	4	0	3.602,084:03.0	
3125	96	252	15:10:59.866	444UD443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4R3	4	0	3.602,090:71.0	
3126	96	252	15:14:59.866	444UD443A4B	7MODE	CRU	AACS CRUISE MODE	4R3	4	0	3.602,094:67.0	
3127	96	252	15:25:29.200	432OW431A6A	6RCDSL	DDSCNG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3.602,105:10.0	
3128	96	252	15:25:29.866	432OW6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3.602,105:11.0	
3129	96	252	15:38:35.333	G2NNPCTCAL01-		----	STOP-----	4R3	4	0	:	
3130	96	252	16:01:19.866	488AD6C	6TMSED	NORM,DL2	Sci, Eng, and D/L Chan	4R3	4	0	3.602,140:51.0	
3131	96	252	16:04:59.866		DMS:	: READY	RDY, TRACK 4, REV, TIC 1512.18 +/- 7	4R3	4	0	3.602,144:17.0	
3132	96	252	16:05:00.000	20A3FE	40T1PR	Final Condition	PCT Heater 1 OFF (primary relay)	4R3	4	0	3.602,144:17.2	
3133	96	252	16:05:00.000	20A3EX	37HR	Final Condition	Replacement Heaters OFF	4R3	4	0	3.602,144:17.2	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
3134	96	252	16:05:00.000	20A3EW	37A	Final Condition	NIMS Power ON	4R3	4	0	3,602,144:17:2	
3135	96	252	16:05:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	4R3	4	0	3,602,144:17:2	
3136	96	252	16:05:00.000	20A3EY	37C1PR	Final Condition	Optics Heater 1 OFF (primary relay)	4R3	4	0	3,602,144:17:2	
3137	96	252	16:05:00.000	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	4R3	4	0	3,602,144:17:2	
3138	96	252	16:05:00.000	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	4R3	4	0	3,602,144:17:2	
3139	96	252	16:05:00.000	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	4R3	4	0	3,602,144:17:2	
3140	96	252	16:05:00.000	20A3FF	40T2R	Final Condition	PCT Heater 2 OFF	4R3	4	0	3,602,144:17:2	

Line	YR	DOY	SCET - GMT	Sequence:	G02B-AR	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	96	252	16:04:59.866			DMS:	: READY	RDY, TRACK 4, REV, TIC 1633.00 +/-	4R3	4	0	3,602,144:17:0	
2	96	252	16:05:00.000			37A	Initial Condition	NIMS Power ON	4R3	4	0	3,602,144:17:2	
3	96	252	16:05:00.000			20A3EW	Initial Condition	Replacement Heaters OFF	4R3	4	0	3,602,144:17:2	
4	96	252	16:05:00.000			20A3EX	Initial Condition	Optics Heater 1 OFF (primary relay)	4R3	4	0	3,602,144:17:2	
5	96	252	16:05:00.000			20A3EY	Initial Condition	PCT Heater 2 OFF	4R3	4	0	3,602,144:17:2	
6	96	252	16:05:00.000			20A3FF	Initial Condition	PCT Heater 1 OFF (primary relay)	4R3	4	0	3,602,144:17:2	
7	96	252	16:05:00.000			20A3FE	Initial Condition	RCT Heater OFF (primary relay)	4R3	4	0	3,602,144:17:2	
8	96	252	16:05:00.000			20A3FD	Initial Condition	Shield Flash Heater OFF (primary relay)	4R3	4	0	3,602,144:17:2	
9	96	252	16:05:00.000			20A3FB	Initial Condition	Radiation Flash Heater OFF (primary relay)	4R3	4	0	3,602,144:17:2	
10	96	252	16:05:00.000			20A3FA	Initial Condition	Optics Heater 2 OFF (primary relay)	4R3	4	0	3,602,144:17:2	
11	96	252	16:06:49.200			20A3EZ	Initial Condition	Record Deselect (DDS o	4R3	4	0	3,602,145:00:0	
12	96	252	16:06:49.866			432JB431A6A	6RCDLSL	R/T Select of DDS and	4R3	4	0	3,602,146:00:0	
13	96	252	16:06:49.866			432JB6A	6RTSL1	AACS SELECT	4R3	4	0	3,602,146:00:0	
14	96	252	16:06:59.866			488A6A	6RTSL2	Sci, Eng, and D/L Chan	4R3	4	0	3,602,146:15:0	
15	96	252	16:07:59.866			432SA6A	6RTSL2	R/T ENG SELECT	4R3	4	0	3,602,147:14:0	
16	96	252	16:10:59.866			481UF4A	7VECT	Inert ved update UTC	4R3	4	0	3,602,150:11:0	
17	96	252	16:21:19.866			20UN4B	7SAFE	S/P TO 153 deg cone	4R3	4	0	3,602,160:31:0	
18	96	252	16:26:29.866			20UN6A	6MROH	read from AACSA7,73C0,0,A2	4R3	4	0	3,602,165:41:0	
19	96	252	16:33:09.866			20UN6B	6MROH	read from AACSA7,73C0,0,A2	4R3	4	0	3,602,172:04:0	
20	96	252	16:36:15.866			488A6B	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,175:10:0	
21	96	252	16:40:19.866			20UN4D	7MODE	AACS INERTIAL MODE	4R3	4	0	3,602,179:12:0	
22	96	252	16:43:56.533			488A6C	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,182:64:0	
23	96	252	17:20:44.533			488A6D	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,219:09:0	
24	96	252	21:05:03.866			488A6E	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,440:87:0	
25	96	252	21:53:19.200			488B6A	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,488:62:0	
26	96	252	22:02:39.866			488B6B	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,497:84:0	
27	96	252	22:47:17.866			488B6C	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,542:06:0	
28	96	252	22:57:48.533			488B6D	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,552:42:0	
29	96	252	23:29:44.533			165HB4A	7TMOT	Disable IVP - Target Motion	4R3	4	0	3,602,584:04:0	
30	96	252	23:29:45.200			165HB4B	7SCAN	Check S/P Position	4R3	4	0	3,602,584:05:0	
31	96	252	23:30:46.666			G2NNRECOVY04-	----START----		4R3	4	0	:	
32	96	252	23:31:38.533			125FX11A	NIMSINIT	#### GROUP END INIT	4R3	4	0	3,602,585:84:0	
33	96	252	23:31:38.533			125FX	NIMSINIT	#### GROUP START INIT	4R3	4	0	3,602,585:84:0	
34	96	252	23:31:38.533			125FX4A	37IST	Gain State 4	4R3	4	0	3,602,585:84:0	
35	96	252	23:32:39.200			127FX4A	37IOP	Long Map, Grating Start Position =00	4R3	4	0	3,602,586:84:0	
36	96	252	23:32:39.200			127FX	NIMSTAB	%% %% %% GROUP START TAB	4R3	4	0	3,602,586:84:0	
37	96	252	23:32:39.866			127FX4B	37ETB	Loads wavelength edit table	4R3	4	0	3,602,586:85:0	
38	96	252	23:32:47.866			127FX11A	NIMSTAB	%% %% %% GROUP END TAB	4R3	4	0	3,602,587:06:0	
39	96	252	23:33:03.866			432DM6A	6RTSL2	NIMS R/T SELECT	4R3	4	0	3,602,587:30:0	
40	96	252	23:33:39.200			117HB	CSMOS	#### GROUP START CSMOS	4R3	4	0	3,602,587:83:0	
41	96	252	23:33:48.533			117HB105A106A4A	7STRP	Slew =0.41	4R3	4	0	3,602,588:06:0	
42	96	252	23:34:03.200			432DN6A	6RTDS2	NIMS R/T DESELECT	4R3	4	0	3,602,588:28:0	
43	96	252	23:34:11.866			117HB11A	CSMOS	#### GROUP END CSMOS	4R3	4	0	3,602,588:41:0	
44	96	252	23:34:49.333			G2NNRECOVY04-	----STOP----		4R3	4	0	:	
45	96	253	00:49:03.866			488B6E	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,662:45:0	
46	96	253	00:54:16.533			488C6A	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,667:59:0	
47	96	253	02:39:49.866			165HC4A	7TMOT	Disable IVP - Target Motion	4R3	4	0	3,602,772:04:0	
48	96	253	02:39:50.533			165HC4B	7SCAN	Check S/P Position	4R3	4	0	3,602,772:05:0	
49	96	253	02:43:44.533			117HC	CSMOS	#### GROUP START CSMOS	4R3	4	0	3,602,775:83:0	
50	96	253	02:43:53.866			117HC105A106A4A	7STRP	Slew =0.47	4R3	4	0	3,602,776:06:0	
51	96	253	02:44:17.200			117HC11A	CSMOS	#### GROUP END CSMOS	4R3	4	0	3,602,776:41:0	
52	96	253	03:41:06.533			488C6B	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,832:59:0	
53	96	253	04:11:04.533			488C6C	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,602,862:26:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	253	05:23:37.866	165HD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,602,934:04:0	
55	96	253	05:23:38.533	165HD4B	7SCAN	NORM,329.884998,	Check S/P Position	4R3	4	0	3,602,934:05:0	
56	96	253	05:27:32.533	117HD	CSMOS	GS	GROUP START CSMOS	4R3	4	0	3,602,937:83:0	
57	96	253	05:27:41.866	117HD105A106A4A	7STRP	0.0,0.006,0.0,0,	Slew =0.41	4R3	4	0	3,602,938:06:0	
58	96	253	05:28:05.200	117HD11A	CSMOS	GE	GROUP END CSMOS	4R3	4	0	3,602,938:41:0	
59	96	253	07:40:07.866	165HE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,603,069:04:0	
60	96	253	07:40:08.533	165HE4B	7SCAN	NORM,338.940998,	Check S/P Position	4R3	4	0	3,603,069:05:0	
61	96	253	07:44:02.533	117HE	CSMOS	GS	GROUP START CSMOS	4R3	4	0	3,603,072:83:0	
62	96	253	07:44:11.866	117HE105A106A4A	7STRP	0.0,0.006,0.0,0,	Slew =0.35	4R3	4	0	3,603,073:06:0	
63	96	253	07:44:35.200	117HE11A	CSMOS	GE	GROUP END CSMOS	4R3	4	0	3,603,073:41:0	
64	96	253	09:40:27.200	165HF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,603,188:04:0	
65	96	253	09:40:27.866	165HF4B	7SCAN	NORM,347.285999,	Check S/P Position	4R3	4	0	3,603,188:05:0	
66	96	253	09:44:21.866	117HF	CSMOS	GS	GROUP START CSMOS	4R3	4	0	3,603,191:83:0	
67	96	253	09:44:31.200	117HF105A106A4A	7STRP	0.0,0.006,0.0,0,	Slew =0.34	4R3	4	0	3,603,192:06:0	
68	96	253	09:44:54.533	117HF11A	CSMOS	GE	GROUP END CSMOS	4R3	4	0	3,603,192:41:0	
69	96	253	09:59:59.866	488D6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4R3	4	0	3,603,207:34:0	
70	96	253	10:21:17.200	165IK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,603,228:39:0	
71	96	253	10:21:17.866	165IK4B	7SCAN	NORM,349.970997,	Check S/P Position	4R3	4	0	3,603,228:40:0	
72	96	253	10:21:46.533	175IK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,603,228:83:0	
73	96	253	10:21:49.200	118IK	SMOS	GS	Inert vcd update UTC	4R3	4	0	3,603,228:87:0	
74	96	253	10:21:50.533	165IK4C	7VECT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,603,228:89:0	
75	96	253	10:21:51.200	165IK4D	7TMOT	GE	R115, TRACK 4, *REV, TIC *1634.39 +/-	4R3	4	0	3,603,228:90:0	
76	96	253	10:21:54.600		DMS:	: *RUNUP	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3,603,229:04:1	
77	96	253	10:21:58.533	176IK6A	6TMREC	HIM	Chopper ON, Sync, Chopper (Ref)Gain State	4R3	4	0	3,603,229:10:0	
78	96	253	10:21:58.600		DMS:	: *AT SPD	R115, TRACK 4, REV, TIC 1628.12 +/-	4R3	4	0	3,603,229:10:1	
79	96	253	10:21:58.600		DMS:	: *RECORD	R115, TRACK 4, REV, TIC *1628.12 +/-	4R3	4	0	3,603,229:10:1	
80	96	253	10:21:59.200	118IK110A111A4A	7STRP	0.0,0.00731,26,0	Slew =2.2,2.2	4R3	4	0	3,603,229:11:0	
81	96	253	10:22:07.866	118IK11A	SMOS	GE	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	3,603,229:24:0	
82	96	253	10:22:52.533	176L6A	6TMREC	HMA	R115, TRACK 4, REV, TIC *1328.59 +/-	4R3	4	0	3,603,230:00:0	
83	96	253	10:23:23.800		DMS:	: *RUNDOWN	DMS Control Tape stop	4R3	4	0	3,603,230:47:0	
84	96	253	10:23:23.800	175IK422A6B	6DMSC	RDY,0		4R3	4	0	3,603,230:47:0	
85	96	253	10:25:58.466	G2CNGLOBAL01-		---START----		4R3	4	0	:	
86	96	253	10:26:50.466	125EL	NIMSINIT	GS	GROUP START INIT	4R3	4	0	3,603,233:84:0	
87	96	253	10:26:50.466	125EL11A	NIMSINIT	GE	GROUP END INIT	4R3	4	0	3,603,233:84:0	
88	96	253	10:26:50.466	125EL4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R3	4	0	3,603,233:84:0	
89	96	253	10:27:28.466	165EL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,603,234:50:0	
90	96	253	10:27:29.133	165EL4B	7SCAN	NORM,350.660999,	Check S/P Position	4R3	4	0	3,603,234:51:0	
91	96	253	10:27:51.133	127EL	NIMSTAB	GS	GROUP START TAB	4R3	4	0	3,603,234:84:0	
92	96	253	10:27:51.800	127EL4A	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	4R3	4	0	3,603,234:85:0	
93	96	253	10:27:59.800	127EL11A	NIMSTAB	GE	GROUP END TAB	4R3	4	0	3,603,235:06:0	
94	96	253	10:27:59.800	117EL	CSMOS	GS	GROUP START CSMOS	4R3	4	0	3,603,235:06:0	
95	96	253	10:28:17.800	175EL422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	3,603,235:33:0	
96	96	253	10:28:25.866		DMS:	: *RUNUP	R28, TRACK 4, *REV, TIC *1329.07 +/-	4R3	4	0	3,603,235:45:1	
97	96	253	10:28:29.133	165EL4C	7VECT		Inert vcd update UTC	4R3	4	0	3,603,235:50:0	
98	96	253	10:28:29.800	165EL4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,603,235:51:0	
99	96	253	10:28:29.800	175EL176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,603,235:51:0	
100	96	253	10:28:29.866		DMS:	: *AT SPD	R28, TRACK 4, REV, TIC 1327.57 +/-	4R3	4	0	3,603,235:51:1	
101	96	253	10:28:29.866		DMS:	: *RECORD	R28, TRACK 4, REV, TIC *1327.57 +/-	4R3	4	0	3,603,235:51:1	
102	96	253	10:28:30.466	117EL105A106A4A	7STRP	0.009,0.0,0.0,0,	Slew =0.03	4R3	4	0	3,603,235:52:0	
103	96	253	10:28:30.490	G2CNGLOBAL01-	NIMPBK	301EL	CALLISTO GLOBAL COVERAGE	4R3	4	0	:	
104	96	253	10:33:33.800	117EL105A106A4B	7STRP	-0.00925,0.0065,	Slew =0.5,0	4R3	4	0	3,603,240:52:0	
105	96	253	10:33:45.133	117EL105A106A4C	7STRP	0.009,0.0,0.0,0,	Slew =0.03	4R3	4	0	3,603,240:69:0	
106	96	253	10:38:47.823	G2CNGLOBAL01-	DESEL	300EL	CALLISTO GLOBAL COVERAGE	4R3	4	0	:	
107	96	253	10:38:48.466	117EL11A	CSMOS	GE	GROUP END CSMOS	4R3	4	0	3,603,245:69:0	
108	96	253	10:38:52.466		DMS:	: *RUNDOWN	R28, TRACK 4, REV, TIC *780.36 +/-	4R3	4	0	3,603,245:75:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MFI
109	96	253	10:38:52.466	175EL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,603,245:75:0	
110	96	253	10:44:10.466	G2CNGLOBAL01-		---STOP---		4R3	4	0	::	
111	96	253	10:49:13.999	G2HNDARK_06-		---START---		4R3	4	0	::	
112	96	253	10:49:45.800	165EM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,603,256:54:0	
113	96	253	10:49:46.466	165EM4B	7SCAN	NORM,351,397999,	Check S/P Position	4R3	4	0	3,603,256:55:0	
114	96	253	10:53:07.800	127EM	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,603,259:84:0	
115	96	253	10:53:08.466	127EM4A	37ETB	07,C7,05,FF,FF,3	Loads wavelength edit table	4R3	4	0	3,603,259:85:0	
116	96	253	10:53:16.466	127EM11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,603,260:06:0	
117	96	253	10:54:00.466	175EM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,603,260:72:0	
118	96	253	10:54:08.533		DMS:	:*RUNUP	R7, TRACK *4, *REV, TIC *781.54 +/-	4R3	4	0	3,603,260:84:1	
119	96	253	10:54:09.800	175EM176A6A	6TMREC	LPU	7.68 KBPS NIMS-JVS-PPR RECORD Record Mode	4R3	4	0	3,603,260:86:0	
120	96	253	10:54:10.000		DMS:	:*AT SPD	R7, TRACK 4, REV, TIC 781.42 +/-	4R3	4	0	3,603,260:86:3	
121	96	253	10:54:10.000		DMS:	:*RECORD	R7, TRACK 4, REV, TIC *781.42 +/-	4R3	4	0	3,603,260:86:3	
122	96	253	10:54:13.155	G2HNDARK 06-	NIMPBK	301EM	DARK SKY	4R3	4	0	::	
123	96	253	10:55:13.822	G2HNDARK 06-	DESEL	300EM	DARK SKY	4R3	4	0	::	
124	96	253	10:55:25.133	175EM6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	3,603,262:17:0	
125	96	253	10:55:25.133	175EM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,603,262:17:0	
126	96	253	10:55:25.133		DMS:	:*RUNDOWN	R7, TRACK 4, REV, TIC *763.81 +/-	4R3	4	0	3,603,262:17:0	
127	96	253	10:56:18.666	G2HNDARK_06-		---STOP---		4R3	4	0	::	
128	96	253	10:59:15.133	165ET4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,603,265:89:0	
129	96	253	10:59:15.800	165ET4B	7SCAN	NORM,353,071999,	Check S/P Position	4R3	4	0	3,603,265:90:0	
130	96	253	10:59:20.466	G2CNCALLRT01-		---START---		4R3	4	0	::	
131	96	253	11:00:12.466	125EW	NIMSINIT	GS	#### GROUP START INIT	4R3	4	0	3,603,266:84:0	
132	96	253	11:00:12.466	125EW4A	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	4R3	4	0	3,603,266:84:0	
133	96	253	11:00:12.466	125EW11A	NIMSINIT	GE	#### GROUP END INIT	4R3	4	0	3,603,266:84:0	
134	96	253	11:01:13.133	127EW	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,603,267:84:0	
135	96	253	11:01:13.800	127EW4A	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	4R3	4	0	3,603,267:85:0	
136	96	253	11:01:21.800	127EW11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,603,268:06:0	
137	96	253	11:02:38.466	432EW6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	3,603,269:30:0	
138	96	253	11:03:09.800	117ET	CSMOS	GS	#### GROUP START CSMOS	4R3	4	0	3,603,269:77:0	
139	96	253	11:03:19.133	117ET105A106A4A	7STRP	0.0035,0.0,0.0,0.0	Slew =,0.03	4R3	4	0	3,603,270:00:0	
140	96	253	11:04:38.466	432EX6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	3,603,271:28:0	
141	96	253	11:05:20.466	117ET11A	CSMOS	GE	#### GROUP END CSMOS	4R3	4	0	3,603,272:00:0	
142	96	253	11:05:24.466	G2CNCALLRT01-		---STOP---		4R3	4	0	::	
143	96	253	11:06:16.466	127FS4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	3,603,272:84:0	
144	96	253	11:06:16.466	125FZ4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	3,603,272:84:0	
145	96	253	11:06:16.466	127FS	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	3,603,272:84:0	
146	96	253	11:06:16.466	125FZ	NIMSINIT	GS	#### GROUP START INIT	4R0	4	0	3,603,272:84:0	
147	96	253	11:06:17.133	127FS4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	3,603,272:85:0	
148	96	253	11:06:25.133	G2NCHOPFO1-		---START---		4R0	4	0	::	
149	96	253	11:06:25.133	127FS11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	3,603,273:06:0	
150	96	253	11:07:17.133	125FZ4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	3,603,273:84:0	
151	96	253	11:08:17.800	125FZ11A	NIMSINIT	GE	#### GROUP END INIT	460	4	0	3,603,274:84:0	
152	96	253	11:08:17.800	125FZ4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, NA, 63Hz (Ref)	400	4	0	3,603,274:84:0	
153	96	253	11:16:31.799	G2NCHOPFO1-		---STOP---		400	4	0	::	
154	96	253	11:58:58.466	165HG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,603,325:04:0	
155	96	253	11:58:59.133	165HG4B	7SCAN	NORM,356,917999,	Check S/P Position	400	4	0	3,603,325:05:0	
156	96	253	12:02:53.133	117HG	CSMOS	GS	#### GROUP START CSMOS	400	4	0	3,603,328:83:0	
157	96	253	12:03:02.466	117HG105A106A4A	7STRP	0.0,0.006,0.0,0.0,	Slew =,0.31	400	4	0	3,603,329:06:0	
158	96	253	12:03:25.800	117HG11A	CSMOS	GE	#### GROUP END CSMOS	400	4	0	3,603,329:41:0	
159	96	253	12:07:59.800	488D6B	6TMSED	NORM,AL4	Sci, Eng, and DVL Chan	400	4	0	3,603,333:88:0	
160	96	253	13:05:04.466	488D6C	6TMSED	NORM,AL3	Sci, Eng, and DVL Chan	400	4	0	3,603,390:38:0	
161	96	253	14:14:27.800	165HH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3,603,459:04:0	
162	96	253	14:14:28.466	165HH4B	7SCAN	NORM,5,929,5,534	Check S/P Position	400	4	0	3,603,459:05:0	
163	96	253	14:18:22.466	117HH	CSMOS	GS	#### GROUP START CSMOS	400	4	0	3,603,462:83:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	96	253	14:18:31.800	117HH105A106A4A	7STRP	0.0.0.006,0.0.0.	Slew = -0.31	400	4	0	3,603,463	06:0
165	96	253	14:18:55.133	117HH11A	CSMOS	GE	GROUP END CSMOS	400	4	0	3,603,463	41:0
166	96	253	14:19:44.466	488D6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,603,464	24:0
167	96	253	14:20:59.800	481UD4A	7VECT		Inert vect update UTC	400	4	0	3,603,465	46:0
168	96	253	14:23:51.133	488D6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,603,468	30:0
169	96	253	16:48:10.466	175LB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	400	4	0	3,603,611	06:0
170	96	253	16:48:18.533	DMS:		: *RUNUP	R115, TRACK 4, *REV, TIC * 765.14 +/-	400	4	0	3,603,611	18:1
171	96	253	16:48:22.466	175LB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	400	4	0	3,603,611	24:0
172	96	253	16:48:22.533	DMS:		: *RECORD	R115, TRACK 4, REV, TIC * 758.87 +/-	400	4	0	3,603,611	24:1
173	96	253	16:48:22.533	DMS:		: *AT SPD	R115, TRACK 4, REV, TIC 758.87 +/-	400	4	0	3,603,611	24:1
174	96	253	16:49:22.466	DMS:		: *RUNDOWN	R115, TRACK 4, REV, TIC * 548.17 +/-	400	4	0	3,603,612	23:0
175	96	253	16:49:22.466	175LB422A6B	6DMSC	RDY,0	DMS Control Tape stop	400	4	0	3,603,612	23:0
176	96	253	16:59:16.466	165HI4A	7TMOT	DIS,TMC	Disable VP - Target Motion	400	4	0	3,603,622	04:0
177	96	253	16:59:17.133	165HI4B	7SCAN	NORM,15.894,10.0	Check S/P Position	400	4	0	3,603,622	05:0
178	96	253	17:03:11.133	117HI	CSMOS	GS	GROUP START CSMOS	400	4	0	3,603,625	83:0
179	96	253	17:03:20.466	117HI105A106A4A	7STRP	0.0.0.006,0.0.0.	Slew = -0.31	400	4	0	3,603,626	06:0
180	96	253	17:03:43.800	117HI11A	CSMOS	GE	GROUP END CSMOS	400	4	0	3,603,626	41:0
181	96	253	17:05:03.800	20UF4A	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,603,627	70:0
182	96	253	17:18:56.466	488E6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,603,641	45:0
183	96	253	17:26:01.133	488E6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,603,648	45:0
184	96	253	19:05:30.466	465KD6A	6DTRN	CMD,6DTRN,465KD6	DMS TRACK TURNAROUND	400	4	0	3,603,746	81:0
185	96	253	20:14:21.133	432JC6B	6RTDS2	NIMCG,AACDSL,RT	AACS DESELECT	400	4	0	3,603,814	89:0
186	96	253	20:47:59.800	488E6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,603,848	23:0
187	96	253	21:19:59.800	41SB99A	POWER	PWR MODE change	Change to Maneuver Mode	400	4	0	3,603,879	82:0
188	96	253	21:20:03.800	41SB3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,603,879	88:0
189	96	253	21:20:13.800	41SB3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,603,880	12:0
190	96	253	21:22:23.800	41SB3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,603,882	25:0
191	96	253	21:22:33.800	41SB3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,603,882	40:0
192	96	253	21:22:43.800	41SB3I	40T2		1 PCT Heater 2 ON	400	4	0	3,603,882	55:0
193	96	253	21:22:53.800	41SB3J	40T2		2 PCT Heater 2 ON	400	4	0	3,603,882	70:0
194	96	253	21:22:59.800	488E6D	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	400	4	0	3,603,882	79:0
195	96	253	21:28:31.800	488E6E	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	400	4	0	3,603,888	31:0
196	96	253	21:30:29.800	20A4A	7STAT	17.45,7.8223,4.8	Stator inertial point	400	4	0	3,603,890	26:0
197	96	253	21:37:01.800	468A412A4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	3,603,896	68:0
198	96	253	21:41:59.800	468A412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,603,901	60:0
199	96	253	21:46:09.800	468A412A4E	7VECT		Inert vect update UTC	400	4	0	3,603,905	71:0
200	96	253	21:46:13.800	468A412A4F	7TURJN	1,MVR	ALERT Thruster	400	4	0	3,603,905	77:0
201	96	253	21:49:59.800	20A6C	6TMSED	FILL,AH1	Sci, Eng, and D/L Chan	400	4	0	3,603,909	52:0
202	96	253	21:50:01.800	20A6D	6RTDS2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,603,909	55:0
203	96	253	22:18:21.800	20A6E	6RTSL2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,603,937	57:0
204	96	253	22:26:01.800	468A416A4B	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,603,945	19:0
205	96	253	22:29:21.800	20A6F	6RTDS2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,603,948	46:0
206	96	253	22:30:15.800	468A416A4C	7BURN	11.1102,69.90599	ALERT - Thruster fire	400	4	0	3,603,949	36:0
207	96	253	23:23:03.800	20A6G	6RTSL2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,001	56:0
208	96	253	23:30:03.800	20A6H	6RTDS2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,008	49:0
209	96	254	00:06:11.800	20A6K	6RTSL2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,044	25:0
210	96	254	00:08:11.800	468A416A4I	7BURN	11.1102,69.90599	ALERT - Thruster fire	400	4	0	3,604,046	23:0
211	96	254	00:13:11.800	20A6L	6RTDS2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,051	18:0
212	96	254	01:00:59.800	20A6M	6RTSL2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,098	43:0
213	96	254	01:07:59.800	20A6N	6RTDS2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,105	36:0
214	96	254	01:44:07.800	20A6P	6RTSL2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,141	12:0
215	96	254	01:46:07.800	468A416A4O	7BURN	11.1102,69.90599	ALERT - Thruster fire	400	4	0	3,604,143	10:0
216	96	254	01:51:07.800	20A6Q	6RTDS2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,148	05:0
217	96	254	02:38:19.133	20A6R	6RTSL2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,194	66:0
218	96	254	02:45:19.133	20A6S	6RTDS2	NIMCG,AACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,201	59:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	96	254	03:12:13.800	468A412B4B	7MODE	INT	AACS INERTIAL MODE	400	4	0	3,604,228:24:0	
220	96	254	03:16:25.800	20A6U	6RTSL2	NIMNCGAACNCG,RT	R/T ENG SELECT	400	4	0	3,604,232:38:0	
221	96	254	03:17:11.800	468A412B4D	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,604,233:16:0	
222	96	254	03:21:25.800	468A412B4E	7TURJN	1,RTH	ALERT Thruster	400	4	0	3,604,237:33:0	
223	96	254	03:23:25.800	20A6V	6RTDS2	NIMNCGAACNCG,RT	R/T ENG DESLECT	400	4	0	3,604,239:31:0	
224	96	254	04:00:59.800	20A4Y	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,604,276:45:0	
225	96	254	04:19:59.800	20A6W	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	400	4	0	3,604,295:26:0	
226	96	254	04:20:01.800	20A6X	6RTSL2	NIMNCGAACNCG,RT	R/T ENG SELECT	400	4	0	3,604,295:29:0	
227	96	254	05:14:59.800	20A4AA	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,604,349:62:0	
228	96	254	13:29:59.800	444A443A4A	7MODE	CRU	AACS CRUISE MODE	400	4	0	3,604,839:22:0	
229	96	254	13:34:59.800	41SA99A	POWER	PWR MODE change	Change to Data Taking Mode	400	4	0	3,604,844:17:0	
230	96	254	13:35:00.334	G2NNSHD0FF01-		----	START	400	4	0	:	
231	96	254	13:35:03.800	41SA3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,604,844:23:0	
232	96	254	13:35:13.800	41SA3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,604,844:38:0	
233	96	254	13:35:23.800	41SA3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,604,844:53:0	
234	96	254	13:35:33.800	41SA3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,604,844:68:0	
235	96	254	13:35:43.800	41SA3C	40T2R		1 PCT Heater 2 OFF	400	4	0	3,604,844:83:0	
236	96	254	13:35:53.800	41SA3D	40T2R		2 PCT Heater 2 OFF	400	4	0	3,604,845:07:0	
237	96	254	13:37:03.800	488F6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,604,846:21:0	
238	96	254	13:46:55.800	432JD431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	400	4	0	3,604,855:90:0	
239	96	254	13:46:56.466	432JD6A	6RTSL1		R/T Select of DDS and	400	4	0	3,604,856:00:0	
240	96	254	13:46:56.466	432JD6B	6RTSL2	NIMNCGAACSEL,RT	AACS SELECT	400	4	0	3,604,856:00:0	
241	96	254	13:53:59.133	432OK431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3,604,862:88:0	
242	96	254	13:53:59.800	432OK6A	6RTSL1		R/T Select of DDS and	400	4	0	3,604,862:89:0	
243	96	254	13:59:55.800	20GA6BA	6DMSC	P7,0	DMS Control Tape P/B 7.68kbps	400	4	0	3,604,868:77:0	
244	96	254	14:01:05.800	20GA6BB	6DMSC	RDY,0	DMS Control Tape stop	400	4	0	3,604,870:00:0	
245	96	254	14:01:45.800	175HA422A6A	6DMSC	R28,0	DMS Control Tape stop	400	4	0	3,604,870:60:0	
246	96	254	14:01:53.866		DMS:	:*RUNUP	R28, TRACK 1, FWD, TIC * 219.25 +/-	400	4	0	3,604,870:72:1	
247	96	254	14:01:57.866		DMS:	:*AT_SPD	R28, TRACK 1, FWD, TIC 220.75 +/-	400	4	0	3,604,870:78:1	
248	96	254	14:01:57.866		DMS:	:*RECORD	R28, TRACK 1, FWD, TIC * 220.75 +/-	400	4	0	3,604,870:78:1	
249	96	254	14:01:59.133	175GA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kbps	400	4	0	3,604,870:80:0	
250	96	254	14:01:59.133		DMS:	:*RUNDOWN	R28, TRACK 1, FWD, TIC * 221.87 +/-	400	4	0	3,604,870:80:0	
251	96	254	14:02:00.533		DMS:	:*RUNUP	R7, TRACK 1, FWD, TIC * 222.09 +/-	400	4	0	3,604,870:82:1	
252	96	254	14:02:01.800	175GA176A6A	6TMREC	LPW	7.68 KBPS LOWRATE SCI PWS RECORD Record	400	4	0	3,604,870:84:0	
253	96	254	14:02:02.000		DMS:	:*RECORD	R7, TRACK 1, FWD, TIC * 222.21 +/-	400	4	0	3,604,870:84:3	
254	96	254	14:02:02.000		DMS:	:*AT_SPD	R7, TRACK 1, FWD, TIC 222.21 +/-	400	4	0	3,604,870:84:3	
255	96	254	14:02:43.133		DMS:	:*RUNDOWN	R7, TRACK 1, FWD, TIC * 231.85 +/-	400	4	0	3,604,871:55:0	
256	96	254	14:02:43.133	175GA422A6B	6DMSC	RDY,0	DMS Control Tape stop	400	4	0	3,604,871:55:0	
257	96	254	14:34:16.466	488F6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,604,902:74:0	
258	96	254	14:34:39.800	488F6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,604,903:18:0	
259	96	254	15:02:46.466	175HB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	400	4	0	3,604,931:00:0	
260	96	254	15:02:54.533		DMS:	:*RUNUP	R28, TRACK 1, FWD, TIC * 233.30 +/-	400	4	0	3,604,931:12:1	
261	96	254	15:02:58.533		DMS:	:*RECORD	R28, TRACK 1, FWD, TIC * 234.80 +/-	400	4	0	3,604,931:18:1	
262	96	254	15:02:58.533		DMS:	:*AT_SPD	R28, TRACK 1, FWD, TIC 234.80 +/-	400	4	0	3,604,931:18:1	
263	96	254	15:02:59.800		DMS:	:*RUNDOWN	R28, TRACK 1, FWD, TIC * 235.91 +/-	400	4	0	3,604,931:20:0	
264	96	254	15:02:59.800	175GB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kbps	400	4	0	3,604,931:20:0	
265	96	254	15:03:01.200		DMS:	:*RUNUP	R7, TRACK 1, FWD, TIC * 236.13 +/-	400	4	0	3,604,931:22:1	
266	96	254	15:03:02.666		DMS:	:*AT_SPD	R7, TRACK 1, FWD, TIC 236.25 +/-	400	4	0	3,604,931:24:3	
267	96	254	15:03:02.666		DMS:	:*RECORD	R7, TRACK 1, FWD, TIC * 236.25 +/-	400	4	0	3,604,931:24:3	
268	96	254	15:03:23.133	175GB422A6B	6DMSC	RDY,0	DMS Control Tape stop	400	4	0	3,604,931:55:0	
269	96	254	15:03:23.133		DMS:	:*RUNDOWN	R7, TRACK 1, FWD, TIC * 241.05 +/-	400	4	0	3,604,931:55:0	
270	96	254	16:01:01.133	488F6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,604,988:55:0	
271	96	254	16:03:26.466	175HC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	400	4	0	3,604,991:00:0	
272	96	254	16:03:34.533		DMS:	:*RUNUP	R28, TRACK 1, FWD, TIC * 242.50 +/-	400	4	0	3,604,991:12:1	
273	96	254	16:03:38.533		DMS:	:*AT_SPD	R28, TRACK 1, FWD, TIC 244.00 +/-	400	4	0	3,604,991:18:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	254	16:03:38.533		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 244.00 +/-	400	4	0	3,604,991:18:1	
275	96	254	16:03:39.800	175GC422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	400	4	0	3,604,991:20:0	
276	96	254	16:03:39.800		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 245.11 +/-	400	4	0	3,604,991:20:0	
277	96	254	16:03:41.200		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 245.33 +/-	400	4	0	3,604,991:22:1	
278	96	254	16:03:42.666		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 245.45 +/-	400	4	0	3,604,991:24:3	
279	96	254	16:03:42.666		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 245.45 +/-	400	4	0	3,604,991:24:3	
280	96	254	16:04:03.133	175GC422A6B	6DMSC	RDY.0	DMS Control Tape stop	400	4	0	3,604,991:55:0	
281	96	254	16:04:03.133		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 250.25 +/-	400	4	0	3,604,991:55:0	
282	96	254	16:33:01.133	488G6A	6TMSED	FILL,AL2	Sci, Eng, and DVL Chan	400	4	0	3,605,020:23:0	
283	96	254	17:04:06.400	175HD422A6A	6DMSC	R28.0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,051:00:0	
284	96	254	17:04:14.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 251.70 +/-	400	4	0	3,605,051:12:1	
285	96	254	17:04:18.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 253.20 +/-	400	4	0	3,605,051:18:1	
286	96	254	17:04:18.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 253.20 +/-	400	4	0	3,605,051:18:1	
287	96	254	17:04:19.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 254.32 +/-	400	4	0	3,605,051:20:0	
288	96	254	17:04:19.733	175GD422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	400	4	0	3,605,051:20:0	
289	96	254	17:04:21.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 254.54 +/-	400	4	0	3,605,051:22:1	
290	96	254	17:04:22.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 254.65 +/-	400	4	0	3,605,051:24:3	
291	96	254	17:04:22.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 254.65 +/-	400	4	0	3,605,051:24:3	
292	96	254	17:04:43.066	175GD422A6B	6DMSC	RDY.0	DMS Control Tape stop	400	4	0	3,605,051:55:0	
293	96	254	17:04:43.066		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 259.45 +/-	400	4	0	3,605,051:55:0	
294	96	254	17:18:56.400	488G6B	6TMSED	FILL,AL3	Sci, Eng, and DVL Chan	400	4	0	3,605,065:61:0	
295	96	254	17:26:06.400	488G6C	6TMSED	NORM,AL3	Sci, Eng, and DVL Chan	400	4	0	3,605,072:69:0	
296	96	254	18:04:46.400	175HE422A6A	6DMSC	R28.0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,111:00:0	
297	96	254	18:04:54.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 260.90 +/-	400	4	0	3,605,111:12:1	
298	96	254	18:04:58.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 262.40 +/-	400	4	0	3,605,111:18:1	
299	96	254	18:04:58.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 262.40 +/-	400	4	0	3,605,111:18:1	
300	96	254	18:04:59.733	175GE422A6A	6DMSC	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 263.52 +/-	400	4	0	3,605,111:20:0	
301	96	254	18:04:59.733		DMS:	: *RUNDOWN	DMS Control Tape runup 7.68kps	400	4	0	3,605,111:20:0	
302	96	254	18:05:01.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 263.74 +/-	400	4	0	3,605,111:22:1	
303	96	254	18:05:02.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 263.86 +/-	400	4	0	3,605,111:24:3	
304	96	254	18:05:02.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 263.86 +/-	400	4	0	3,605,111:24:3	
305	96	254	18:05:23.066		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 268.65 +/-	400	4	0	3,605,111:55:0	
306	96	254	18:05:23.066	175GE422A6B	6DMSC	RDY.0	DMS Control Tape stop	400	4	0	3,605,111:55:0	
307	96	254	19:05:26.400	175HF422A6A	6DMSC	R28.0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,171:00:0	
308	96	254	19:05:34.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 270.11 +/-	400	4	0	3,605,171:12:1	
309	96	254	19:05:38.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 271.61 +/-	400	4	0	3,605,171:18:1	
310	96	254	19:05:38.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 271.61 +/-	400	4	0	3,605,171:18:1	
311	96	254	19:05:39.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 272.72 +/-	400	4	0	3,605,171:20:0	
312	96	254	19:05:39.733	175GF422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	400	4	0	3,605,171:20:0	
313	96	254	19:05:41.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 272.94 +/-	400	4	0	3,605,171:22:1	
314	96	254	19:05:42.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 273.06 +/-	400	4	0	3,605,171:24:3	
315	96	254	19:05:42.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 273.06 +/-	400	4	0	3,605,171:24:3	
316	96	254	19:06:03.066		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 277.85 +/-	400	4	0	3,605,171:55:0	
317	96	254	19:06:03.066	175GF422A6B	6DMSC	RDY.0	DMS Control Tape stop	400	4	0	3,605,171:55:0	
318	96	254	20:06:06.400	175HG422A6A	6DMSC	R28.0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,231:00:0	
319	96	254	20:06:14.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 279.31 +/-	400	4	0	3,605,231:12:1	
320	96	254	20:06:18.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 280.81 +/-	400	4	0	3,605,231:18:1	
321	96	254	20:06:18.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 280.81 +/-	400	4	0	3,605,231:18:1	
322	96	254	20:06:19.733	175GG422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	400	4	0	3,605,231:20:0	
323	96	254	20:06:19.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 281.92 +/-	400	4	0	3,605,231:20:0	
324	96	254	20:06:21.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 282.14 +/-	400	4	0	3,605,231:22:1	
325	96	254	20:06:22.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 282.26 +/-	400	4	0	3,605,231:24:3	
326	96	254	20:06:22.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 282.26 +/-	400	4	0	3,605,231:24:3	
327	96	254	20:06:43.066	175GG422A6B	6DMSC	RDY.0	DMS Control Tape stop	400	4	0	3,605,231:55:0	
328	96	254	20:06:43.066		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 287.06 +/-	400	4	0	3,605,231:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	96	254	20:48:00.400	488G6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,605,272:40:0	
330	96	254	21:06:46.400	175H422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,291:00:0	
331	96	254	21:06:54.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 288.51 +/-	400	4	0	3,605,291:12:1	
332	96	254	21:06:58.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 290.01 +/-	400	4	0	3,605,291:18:1	
333	96	254	21:06:58.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 290.01 +/-	400	4	0	3,605,291:18:1	
334	96	254	21:06:59.733	175GH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	400	4	0	3,605,291:20:0	
335	96	254	21:06:59.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 291.12 +/-	400	4	0	3,605,291:20:0	
336	96	254	21:07:01.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 291.34 +/-	400	4	0	3,605,291:22:1	
337	96	254	21:07:02.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 291.46 +/-	400	4	0	3,605,291:24:3	
338	96	254	21:07:02.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 291.46 +/-	400	4	0	3,605,291:24:3	
339	96	254	21:07:23.066	175GH422A6B	6DMSC	RDY,0	DMS Control Tape stop	400	4	0	3,605,291:55:0	
340	96	254	21:07:23.066		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 296.26 +/-	400	4	0	3,605,291:55:0	
341	96	254	21:44:04.400	488G6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,605,327:81:0	
342	96	254	21:54:08.400	488H6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3,605,337:77:0	
343	96	254	22:07:26.400	175HI422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,351:00:0	
344	96	254	22:07:34.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 297.71 +/-	400	4	0	3,605,351:12:1	
345	96	254	22:07:38.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 299.21 +/-	400	4	0	3,605,351:18:1	
346	96	254	22:07:38.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 299.21 +/-	400	4	0	3,605,351:18:1	
347	96	254	22:07:39.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 300.33 +/-	400	4	0	3,605,351:20:0	
348	96	254	22:07:39.733	175GI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	400	4	0	3,605,351:20:0	
349	96	254	22:07:41.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 300.55 +/-	400	4	0	3,605,351:22:1	
350	96	254	22:07:42.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 300.66 +/-	400	4	0	3,605,351:24:3	
351	96	254	22:07:42.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 300.66 +/-	400	4	0	3,605,351:24:3	
352	96	254	22:08:03.066		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 305.46 +/-	400	4	0	3,605,351:55:0	
353	96	254	22:08:03.066	175GI422A6B	6DMSC	RDY,0	DMS Control Tape stop	400	4	0	3,605,351:55:0	
354	96	254	22:36:59.066	488H6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	400	4	0	3,605,380:20:0	
355	96	254	22:53:35.733	488H6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3,605,396:59:0	
356	96	254	23:34:24.400	488H6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,605,437:01:0	
357	96	254	23:53:41.733	488H6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,605,456:08:0	
358	96	255	00:08:46.400	175HK422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,471:00:0	
359	96	255	00:08:54.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 306.91 +/-	400	4	0	3,605,471:12:1	
360	96	255	00:08:58.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 308.41 +/-	400	4	0	3,605,471:18:1	
361	96	255	00:08:58.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 308.41 +/-	400	4	0	3,605,471:18:1	
362	96	255	00:08:59.733	175GK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	400	4	0	3,605,471:20:0	
363	96	255	00:08:59.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 309.53 +/-	400	4	0	3,605,471:20:0	
364	96	255	00:09:01.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 309.75 +/-	400	4	0	3,605,471:22:1	
365	96	255	00:09:02.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 309.86 +/-	400	4	0	3,605,471:24:3	
366	96	255	00:09:02.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 309.86 +/-	400	4	0	3,605,471:24:3	
367	96	255	00:09:23.066	175GK422A6B	6DMSC	RDY,0	DMS Control Tape stop	400	4	0	3,605,471:55:0	
368	96	255	00:09:23.066		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 314.66 +/-	400	4	0	3,605,471:55:0	
369	96	255	02:10:06.400	175HM422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,591:00:0	
370	96	255	02:10:14.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 316.12 +/-	400	4	0	3,605,591:12:1	
371	96	255	02:10:18.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 317.62 +/-	400	4	0	3,605,591:18:1	
372	96	255	02:10:18.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 317.62 +/-	400	4	0	3,605,591:18:1	
373	96	255	02:10:19.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 318.73 +/-	400	4	0	3,605,591:20:0	
374	96	255	02:10:19.733	175GM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	400	4	0	3,605,591:20:0	
375	96	255	02:10:21.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 318.95 +/-	400	4	0	3,605,591:22:1	
376	96	255	02:10:22.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 319.07 +/-	400	4	0	3,605,591:24:3	
377	96	255	02:10:22.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 319.07 +/-	400	4	0	3,605,591:24:3	
378	96	255	02:10:43.066		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 323.86 +/-	400	4	0	3,605,591:55:0	
379	96	255	02:10:43.066	175GM422A6B	6DMSC	RDY,0	DMS Control Tape stop	400	4	0	3,605,591:55:0	
380	96	255	02:11:07.066	175HN422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,592:00:0	
381	96	255	02:11:15.133		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 325.32 +/-	400	4	0	3,605,592:12:1	
382	96	255	02:11:19.133		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 326.82 +/-	400	4	0	3,605,592:18:1	
383	96	255	02:11:19.133		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 326.82 +/-	400	4	0	3,605,592:18:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	96	255	02:11:20.400		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 327.93 +/-	400	4	0	3,605,592:20:0	
385	96	255	02:11:20.400	175GN422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	400	4	0	3,605,592:20:0	
386	96	255	02:11:21.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 328.15 +/-	400	4	0	3,605,592:22:1	
387	96	255	02:11:23.266		DMS:	: *AT SPD	R7, TRACK 1, FWD, TIC 328.27 +/-	400	4	0	3,605,592:24:3	
388	96	255	02:11:23.266		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 328.27 +/-	400	4	0	3,605,592:24:3	
389	96	255	02:12:37.733	175GN422A6B	6DMSC	RDY.0	DMS Control Tape stop	400	4	0	3,605,593:45:0	
390	96	255	02:12:37.733		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 345.72 +/-	400	4	0	3,605,593:45:0	
391	96	255	02:37:54.400	175KH422A6A	6DMSC	R28.0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,618:45:0	
392	96	255	02:38:02.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 347.18 +/-	400	4	0	3,605,618:57:1	
393	96	255	02:38:06.400	175KH176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	400	4	0	3,605,618:63:0	
394	96	255	02:38:06.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 348.68 +/-	400	4	0	3,605,618:63:1	
395	96	255	02:38:06.466		DMS:	: *AT SPD	R28, TRACK 1, FWD, TIC 348.68 +/-	400	4	0	3,605,618:63:1	
396	96	255	02:38:19.733	175TA422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	400	4	0	3,605,618:83:0	
397	96	255	02:38:19.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 360.34 +/-	400	4	0	3,605,618:83:0	
398	96	255	02:38:20.400	282NN431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS on)	400	4	0	3,605,618:84:0	
399	96	255	02:38:21.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 360.56 +/-	400	4	0	3,605,618:85:1	
400	96	255	02:38:22.400	175TA176A6A	6TMREC	LPW	7.68 KBPS LOWRATE SCI PWS RECORD Record	400	4	0	3,605,618:87:0	
401	96	255	02:38:22.600		DMS:	: *AT SPD	R7, TRACK 1, FWD, TIC 360.67 +/-	400	4	0	3,605,618:87:3	
402	96	255	02:38:22.600		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 360.67 +/-	400	4	0	3,605,618:87:3	
403	96	255	02:38:25.066	431FD6A	6RCSEL	DDSEL,PLSNCG,EP	Record Select (DDS on)	400	4	0	3,605,619:00:0	
404	96	255	02:45:29.066	428PW6A	6RCCLR			400	4	0	3,605,625:90:0	
405	96	255	02:45:29.733	428PW6B	6RCCLR			400	4	0	3,605,626:00:0	
406	96	255	02:55:30.400	175NM422A6A	6DMSC	R28.0	DMS Control Tape runup 28.8kbp	400	4	0	3,605,635:82:0	
407	96	255	02:55:30.400		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 601.56 +/-	400	4	0	3,605,635:82:0	
408	96	255	02:55:31.800		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC * 601.62 +/-	400	4	0	3,605,635:84:1	
409	96	255	02:55:35.733	175NM176A6A	6TMREC	MPP	28.8 KBPS PWS RECORD Record Mode Change	400	4	0	3,605,635:85:0	
410	96	255	02:55:35.800		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 603.12 +/-	400	4	0	3,605,635:90:1	
411	96	255	02:55:35.800		DMS:	: *AT SPD	R28, TRACK 1, FWD, TIC 603.12 +/-	400	4	0	3,605,635:90:1	
412	96	255	02:59:38.400	428PX6A	6RCCLR			400	4	0	3,605,639:90:0	
413	96	255	02:59:39.066	428PX6B	6RCSET			400	4	0	3,605,640:00:0	
414	96	255	03:01:40.400		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC * 923.57 +/-	400	4	0	3,605,642:00:0	
415	96	255	03:01:40.400	175TB422A6A	6DMSC	R7.0	DMS Control Tape runup 7.68kps	400	4	0	3,605,642:00:0	
416	96	255	03:01:41.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC * 923.79 +/-	400	4	0	3,605,642:02:1	
417	96	255	03:01:43.066	175TB176A6A	6TMREC	LPW	7.68 KBPS LOWRATE SCI PWS RECORD Record	400	4	0	3,605,642:04:0	
418	96	255	03:01:43.266		DMS:	: *AT SPD	R7, TRACK 1, FWD, TIC 923.91 +/-	400	4	0	3,605,642:04:3	
419	96	255	03:01:43.266		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 923.91 +/-	400	4	0	3,605,642:04:3	
420	96	255	03:11:47.066	428PY6A	6RCCLR			400	4	0	3,605,652:00:0	
421	96	255	03:18:49.733	432FD431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3,605,658:88:0	
422	96	255	03:18:50.400	432FD6A	6RTSL1		R/T Select of DDS and	400	4	0	3,605,658:89:0	
423	96	255	03:18:51.733	432FE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3,605,659:00:0	
424	96	255	03:18:52.400	432FE6A	6RTSL1		R/T Select of DDS and	400	4	0	3,605,659:01:0	
425	96	255	03:18:53.733	175TB422A6B	6DMSC	RDY.0	DMS Control Tape stop	400	4	0	3,605,659:03:0	
426	96	255	03:18:53.733		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *1165.43 +/-	400	4	0	3,605,659:03:0	
427	96	255	03:18:59.733	282NO431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	400	4	0	3,605,659:12:0	
428	96	255	03:19:48.400	282NO432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	400	4	0	3,605,659:85:0	
429	96	255	03:19:49.066	282NO432A6A	6RTSL1		R/T Select of DDS and	400	4	0	3,605,659:86:0	
430	96	255	03:19:52.400	20GA6BC	6DMSC	RDY.4	DMS Control Tape stop	400	4	0	3,605,660:00:0	
431	96	255	03:29:59.733	20DZ4A	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,605,670:01:0	
432	96	255	03:34:59.733	41SI99A	POWER	PWR MODE change	Change to Playback Mode	400	4	0	3,605,674:87:0	
433	96	255	03:35:03.733	41SI3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,605,675:02:0	
434	96	255	03:35:13.733	41SI3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,605,675:17:0	
435	96	255	03:35:23.733	41SI3K	40T2R		1 PCT Heater 2 OFF	400	4	0	3,605,675:32:0	
436	96	255	03:35:33.733	41SI3L	40T2R		2 PCT Heater 2 OFF	400	4	0	3,605,675:47:0	
437	96	255	03:37:43.733	41SI3G	37F2P		1 Shield Flash Heater ON (primary relay)	400	4	0	3,605,677:60:0	
438	96	255	03:37:53.733	41SI3H	37F2P		2 Shield Flash Heater ON (primary relay)	400	4	0	3,605,677:75:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GO	GS	RIM	MF I
439	96	255	03:45:59.733	20DC3A	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,605,688;76:0
440	96	255	03:46:03.733	20DC3B	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,605,688;82:0
441	96	255	03:46:09.733	20DC3C	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,605,688;00:0
442	96	255	03:46:13.733	20DC3D	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,605,688;06:0
443	96	255	03:46:19.733	20DC3E	40T2		1 PCT Heater 2 ON	400	4	0	3,605,688;15:0
444	96	255	03:46:23.733	20DC3F	40T2		2 PCT Heater 2 ON	400	4	0	3,605,688;21:0
445	96	255	03:49:03.733	20JA4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	3,605,688;79:0
446	96	255	03:49:53.733	20JA4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,605,689;63:0
447	96	255	03:52:13.733	176SA6A	6TMREC	IPB	INITIATE PLAYBACK (PB CONTROL) Record Mod	400	4	0	3,605,692;00:0
448	96	255	05:19:59.733	488J6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,605,778;73:0
449	96	255	05:59:59.733	418JA6A	6BUFHI		5 MUB Buffer high water	400	4	0	3,605,996;35:0
450	96	255	12:18:10.400	488J6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,606,192;31:0
451	96	255	14:29:35.733	488J6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,606,322;33:0
452	96	255	14:34:39.733	488J6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3,606,327;34:0
453	96	255	15:16:53.066	488J6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	400	4	0	3,606,369;12:0
454	96	255	15:59:59.733	488J6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,606,411;70:0
455	96	255	16:28:10.400	488K6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,606,439;58:0
456	96	255	16:46:44.400	176SD6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3,606,458;00:0
457	96	255	16:49:59.733	41SC99A	POWER	PWR MODE change	Change to Maneuver Mode	400	4	0	3,606,461;20:0
458	96	255	16:50:03.733	41SC3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,606,461;26:0
459	96	255	16:50:13.733	41SC3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,606,461;41:0
460	96	255	16:52:23.733	41SC3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,606,463;54:0
461	96	255	16:52:33.733	41SC3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,606,463;69:0
462	96	255	16:52:43.733	41SC3I	40T2		1 PCT Heater 2 ON	400	4	0	3,606,463;84:0
463	96	255	16:52:53.733	41SC3J	40T2		2 PCT Heater 2 ON	400	4	0	3,606,464;08:0
464	96	255	16:52:59.733	488K6B	6TMSED	FILL,AH2	Sci, Eng, and D/L Chan	400	4	0	3,606,464;17:0
465	96	255	17:01:59.733	20US4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,606,473;08:0
466	96	255	17:02:59.733	20US4D	7MODE	SPNL	AACS ALL-SPIN LOW	400	4	0	3,606,474;07:0
467	96	255	17:04:59.733	20US4E	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,606,476;05:0
468	96	255	17:10:29.733	20US4G	7VENT	0.611,1.333,8	ALERT - Thruuster fire	400	4	0	3,606,481;45:0
469	96	255	17:10:30.400	20US4H	7VENT	0.611,10.989,8	ALERT - Thruuster fire	400	4	0	3,606,481;46:0
470	96	255	17:10:50.400	20US4I	7VENT	0.611,1.333,6	ALERT - Thruuster fire	400	4	0	3,606,481;76:0
471	96	255	17:10:51.066	20US4J	7VENT	0.611,10.989,6	ALERT - Thruuster fire	400	4	0	3,606,481;77:0
472	96	255	17:11:11.066	20US4K	7VENT	0.611,1.333,4	ALERT - Thruuster fire	400	4	0	3,606,482;16:0
473	96	255	17:11:11.733	20US4L	7VENT	0.611,0.666,5	ALERT - Thruuster fire	400	4	0	3,606,482;17:0
474	96	255	17:11:21.733	20US4M	7VENT	0.611,1.333,4	ALERT - Thruuster fire	400	4	0	3,606,482;32:0
475	96	255	17:11:22.400	20US4N	7VENT	0.611,0.666,5	ALERT - Thruuster fire	400	4	0	3,606,482;33:0
476	96	255	17:11:32.400	20US4O	7VENT	1.211,1.333,10	ALERT - Thruuster fire	400	4	0	3,606,482;48:0
477	96	255	17:11:33.066	20US4P	7VENT	1.211,0.666,12	ALERT - Thruuster fire	400	4	0	3,606,482;49:0
478	96	255	17:12:31.733	488K6C	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	400	4	0	3,606,483;46:0
479	96	255	17:13:19.733	20US4S	7VENT	0.611,1.333,7	ALERT - Thruuster fire	400	4	0	3,606,484;27:0
480	96	255	17:13:20.400	20US4T	7VENT	0.611,10.989,7	ALERT - Thruuster fire	400	4	0	3,606,484;28:0
481	96	255	17:13:40.400	20US4U	7VENT	0.611,1.333,1	ALERT - Thruuster fire	400	4	0	3,606,484;58:0
482	96	255	17:13:41.066	20US4V	7VENT	0.611,10.989,1	ALERT - Thruuster fire	400	4	0	3,606,484;59:0
483	96	255	17:14:01.066	20US4AC	7VENT	0.611,1.333,2	ALERT - Thruuster fire	400	4	0	3,606,484;89:0
484	96	255	17:14:01.733	20US4AD	7VENT	0.611,0.666,3	ALERT - Thruuster fire	400	4	0	3,606,484;90:0
485	96	255	17:14:11.733	20US4AE	7VENT	0.611,1.333,2	ALERT - Thruuster fire	400	4	0	3,606,485;14:0
486	96	255	17:14:12.400	20US4AF	7VENT	0.611,0.666,3	ALERT - Thruuster fire	400	4	0	3,606,485;15:0
487	96	255	17:14:22.400	20US4AW	7VENT	1.211,1.333,9	ALERT - Thruuster fire	400	4	0	3,606,485;30:0
488	96	255	17:14:23.066	20US4X	7VENT	1.211,0.666,11	ALERT - Thruuster fire	400	4	0	3,606,485;31:0
489	96	255	17:15:19.733	20US4Z	7MODE	CRU	AACS CRUISE MODE	400	4	0	3,606,486;25:0
490	96	255	17:20:40.400	488K6D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	3,606,491;51:0
491	96	255	17:39:59.733	41SF99A	POWER	PWR MODE change	Change to Playback Mode	400	4	0	3,606,510;61:0
492	96	255	17:40:03.733	41SF3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,606,510;67:0
493	96	255	17:40:13.733	41SF3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,606,510;82:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	96	255	17:40:23.733	41SF3K	40T2R		1 PCT Heater 2 OFF	400	4	0	3,606,511:06:0	
495	96	255	17:40:33.733	41SF3L	40T2R		2 PCT Heater 2 OFF	400	4	0	3,606,511:21:0	
496	96	255	17:42:43.733	41SF3G	37F2P		1 Shield Flash Heater ON (primary relay)	400	4	0	3,606,513:34:0	
497	96	255	17:42:53.733	41SF3H	37F2P		2 Shield Flash Heater ON (primary relay)	400	4	0	3,606,513:49:0	
498	96	255	17:50:59.733	20DD3A	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,606,521:50:0	
499	96	255	17:51:03.733	20DD3B	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,606,521:56:0	
500	96	255	17:51:09.733	20DD3C	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3,606,521:65:0	
501	96	255	17:51:13.733	20DD3D	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3,606,521:71:0	
502	96	255	17:51:19.733	20DD3E	40T2		1 PCT Heater 2 ON	400	4	0	3,606,521:80:0	
503	96	255	17:51:23.733	20DD3F	40T2		2 PCT Heater 2 ON	400	4	0	3,606,521:86:0	
504	96	255	17:52:59.666	4320M431A6A	6RCDL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3,606,523:47:0	
505	96	255	17:52:59.733	4320M6A	6RTSL1		R/T Select of DDS and	400	4	0	3,606,523:48:0	
506	96	255	17:54:03.733	20UB4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	3,606,524:53:0	
507	96	255	17:54:53.733	20UB4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,606,525:37:0	
508	96	255	17:57:31.066	176UC6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3,606,528:00:0	
509	96	255	19:00:59.733	488K6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,606,590:71:0	
510	96	255	20:47:59.733	488L6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,606,696:55:0	
511	96	255	21:43:31.733	488L6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,606,751:48:0	
512	96	255	22:20:49.733	488L6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3,606,788:38:0	
513	96	255	22:38:55.733	488L6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,606,806:29:0	
514	96	255	23:21:27.000	488L6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,606,848:34:0	
515	96	255	23:21:36.333	488M6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,606,848:48:0	
516	96	255	23:48:49.666	488M6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,606,875:41:0	
517	96	256	02:41:50.333	488M6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,607,046:51:0	
518	96	256	03:55:29.666	488M6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,607,119:37:0	
519	96	256	04:30:20.333	418JB6A	6BUFHI		8 MUB Buffer high water	400	4	0	3,607,153:49:0	
520	96	256	04:35:12.333	488M6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3,607,158:62:0	
521	96	256	08:24:06.333	41SK99A	POWER	PWR MODE change	Change to Calib/Decon Mode	400	4	0	3,607,385:06:0	
522	96	256	08:24:06.334	G2NNRC,TRLT01-		----START----		400	4	0	:::	
523	96	256	08:24:06.334	G2NNSHDOFF01-		----STOP----		400	4	0	:::	
524	96	256	08:24:10.333	41SK3G	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3,607,385:12:0	
525	96	256	08:24:20.333	41SK3H	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3,607,385:27:0	
526	96	256	08:24:30.333	41SK3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3,607,385:42:0	
527	96	256	08:24:40.333	41SK3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3,607,385:57:0	
528	96	256	08:24:50.333	41SK3K	40T2R		1 PCT Heater 2 OFF	400	4	0	3,607,385:72:0	
529	96	256	08:25:00.333	41SK3L	40T2R		2 PCT Heater 2 OFF	400	4	0	3,607,385:87:0	
530	96	256	08:35:09.666	176XU6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3,607,396:00:0	
531	96	256	08:38:15.666	20XE4A	7SAFE	UNSTOW	S/P TO 153 deg cone	400	4	0	3,607,399:06:0	
532	96	256	08:42:22.333	20UG4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	3,607,403:12:0	
533	96	256	08:43:12.333	20UG4B	7SLEW	DIS,POS,0.0	Stator movement	400	4	0	3,607,403:87:0	
534	96	256	08:45:16.333	176XV6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3,607,406:00:0	
535	96	256	08:46:17.000	185XE10A3A	40HRP		1 RCT Heater ON (primary relay)	400	4	0	3,607,407:00:0	
536	96	256	12:47:59.666	488N6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,607,646:05:0	
537	96	256	14:29:34.333	488N6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3,607,746:47:0	
538	96	256	14:34:39.666	488N6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3,607,751:50:0	
539	96	256	15:16:45.000	488N6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	400	4	0	3,607,793:16:0	
540	96	256	15:59:49.666	488N6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,607,835:96:0	
541	96	256	16:36:15.666	488O6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3,607,871:74:0	
542	96	256	20:41:03.666	125XE4A	37IST	1.0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	3,608,113:84:0	
543	96	256	20:41:03.666	125XE	NIMSINIT	GS	##### GROUP START INIT	460	4	0	3,608,113:84:0	
544	96	256	20:42:04.333	125XE4B	37IST	1.2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	4R0	4	0	3,608,114:84:0	
545	96	256	20:43:05.000	125XE4C	37IST	0.2,0,OFF,0,1,3	Gain State 1	1R0	4	0	3,608,115:84:0	
546	96	256	20:44:05.666	125XE4D	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	3,608,116:84:0	
547	96	256	20:44:05.666	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	3,608,116:84:0	
548	96	256	20:46:07.000	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	3,608,118:84:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	96	256	20:46:07.000	127XE4A	37IOP	3.0	Long Map, Grating Start Position =00	1R3	4	0	3,608,118:84:0	
550	96	256	20:46:07.666	127XE4B	37ETB	0A,CA,18,03,FF,1	Loads wavelength edit table	1R3	4	0	3,608,118:85:0	
551	96	256	20:46:15.666	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	3,608,119:06:0	
552	96	256	20:47:59.666	488O6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1R3	4	0	3,608,120:71:0	
553	96	256	20:50:14.333	176XE6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	3,608,123:00:0	
554	96	256	20:53:24.333	20UJ4A	7STAT	17.45,70.413515,	Stator inertial point	1R3	4	0	3,608,126:12:0	
555	96	256	20:56:18.333	192XE4A	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	3,608,129:00:0	
556	96	256	20:58:39.666	432XE6A	6RTSL2	NIMSELAACNCG,RT	NIMS R/T SELECT	1R3	4	0	3,608,131:30:0	
557	96	256	20:59:39.000	432XF6A	6RTDS2	NIMDSL, AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3,608,132:28:0	
558	96	256	21:02:22.333	192XE4B	7CONE	17.0,0.0	Check S/P Position	1R3	4	0	3,608,135:00:0	
559	96	256	21:04:43.666	432XU6A	6RTSL2	NIMSELAACNCG,RT	NIMS R/T SELECT	1R3	4	0	3,608,137:30:0	
560	96	256	21:06:43.666	432XV6A	6RTDS2	NIMDSL, AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3,608,139:28:0	
561	96	256	21:08:26.333	192XE4C	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	3,608,141:00:0	
562	96	256	21:10:27.666	185XE10B3A	40HRPR		1 RCT Heater OFF (primary relay)	1R3	4	0	3,608,143:00:0	
563	96	256	21:10:47.666	432XW6A	6RTSL2	NIMSELAACNCG,RT	NIMS R/T SELECT	1R3	4	0	3,608,143:30:0	
564	96	256	21:11:47.000	432XY6A	6RTDS2	NIMDSL, AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3,608,144:28:0	
565	96	256	21:14:30.333	192XE4D	7CONE	17.0,153.0	Check S/P Position	1R3	4	0	3,608,147:00:0	
566	96	256	21:15:26.333	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	3,608,147:84:0	
567	96	256	21:15:26.333	127XF4A	37IOP	0.0	Safe, Grating Start Position =00	1R0	4	0	3,608,147:84:0	
568	96	256	21:15:27.000	127XF4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	1R0	4	0	3,608,147:85:0	
569	96	256	21:15:35.000	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R0	4	0	3,608,148:06:0	
570	96	256	21:18:28.333	125XF	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	3,608,150:84:0	
571	96	256	21:18:28.333	125XF4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	3,608,150:84:0	
572	96	256	21:19:29.000	125XF4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	160	4	0	3,608,151:84:0	
573	96	256	21:20:29.666	125XF4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	100	4	0	3,608,152:84:0	
574	96	256	21:20:29.666	125XF11A	NIMSINIT	GE	##### GROUP END INIT	100	4	0	3,608,152:84:0	
575	96	256	21:26:42.333	41S,J99A	POWER	PWR MODE change	Change to Playback Mode	100	4	0	3,608,159:06:0	
576	96	256	21:26:46.333	41S,J31	40T1PR		1 PCT Heater 1 OFF (primary relay)	100	4	0	3,608,159:12:0	
577	96	256	21:26:56.333	41S,J3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3,608,159:27:0	
578	96	256	21:27:06.333	41S,J3K	40T2R		1 PCT Heater 2 OFF	100	4	0	3,608,159:42:0	
579	96	256	21:27:16.333	41S,J3L	40T2R		2 PCT Heater 2 OFF	100	4	0	3,608,159:57:0	
580	96	256	21:29:26.333	41S,J3G	37F2P		1 Shield Flash Heater ON (primary relay)	100	4	0	3,608,161:70:0	
581	96	256	21:29:36.333	41S,J3H	37F2P		2 Shield Flash Heater ON (primary relay)	100	4	0	3,608,161:85:0	
582	96	256	21:36:53.000	20UH4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3,608,169:12:0	
583	96	256	21:37:43.000	20UH4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,608,169:87:0	
584	96	256	21:39:47.000	176XF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,608,172:00:0	
585	96	256	21:39:51.000	G2NNRC,RLT01-		---STOP---		100	4	0	:	
586	96	256	21:40:32.333	488O6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,608,172:68:0	
587	96	256	21:47:43.666	488O6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,608,179:78:0	
588	96	256	22:26:42.333	488O6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,608,218:37:0	
589	96	256	23:27:59.666	488P6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,608,279:02:0	
590	96	257	04:05:19.666	488P6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,608,553:28:0	
591	96	257	13:02:56.266	488Q6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,609,085:01:0	
592	96	257	14:16:14.266	488Q6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,609,157:46:0	
593	96	257	14:23:59.600	488Q6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,609,165:16:0	
594	96	257	15:30:34.933	488Q6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,609,231:03:0	
595	96	257	16:06:23.600	488Q6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,609,266:41:0	
596	96	257	16:24:41.600	488R6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,609,284:50:0	
597	96	257	17:01:29.600	488R6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,609,320:86:0	
598	96	257	21:17:51.600	488R6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,609,574:45:0	
599	96	257	21:48:13.600	488R6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,609,604:48:0	
600	96	257	22:15:32.933	488R6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,609,631:50:0	
601	96	257	22:53:51.600	488S6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,609,669:40:0	
602	96	257	23:16:48.266	488S6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,609,692:12:0	
603	96	257	23:44:06.933	488S6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,609,719:13:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	96	258	03:50:23.600	488S6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,609,962:65:0	
605	96	258	13:17:52.200	488T6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,610,523:87:0	
606	96	258	14:25:25.533	488T6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,610,590:70:0	
607	96	258	14:32:32.200	488T6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,610,597:73:0	
608	96	258	15:15:26.866	488T6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,610,640:22:0	
609	96	258	15:36:32.200	488T6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,610,661:09:0	
610	96	258	16:08:32.200	488U6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,610,692:68:0	
611	96	258	21:02:55.533	488U6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,610,983:82:0	
612	96	258	21:47:43.533	488U6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,611,028:19:0	
613	96	258	21:48:05.533	488U6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,611,028:52:0	
614	96	258	22:15:24.866	488V6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,611,055:54:0	
615	96	258	22:53:51.533	488V6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,611,093:56:0	
616	96	259	03:35:27.533	488V6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,611,372:11:0	
617	96	259	06:36:47.533	488W6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,611,551:42:0	
618	96	259	10:18:39.533	488W6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,611,770:81:0	
619	96	259	13:17:51.533	488X6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,611,948:11:0	
620	96	259	14:12:50.200	488X6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,612,002:45:0	
621	96	259	14:17:35.533	488X6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,612,007:18:0	
622	96	259	15:01:20.200	488X6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,612,050:42:0	
623	96	259	15:57:51.533	488X6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,612,106:33:0	
624	96	259	21:02:56.133	488Y6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,612,408:08:0	
625	96	259	21:33:29.466	488Y6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,612,438:28:0	
626	96	259	21:43:28.133	488Y6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,612,448:16:0	
627	96	259	22:11:18.133	488Y6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,612,475:64:0	
628	96	259	22:53:52.133	488Y6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,612,517:73:0	
629	96	260	03:33:19.466	488Z6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,612,794:17:0	
630	96	260	05:34:55.466	488Z6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,612,914:41:0	
631	96	260	11:03:27.466	488AA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,613,239:34:0	
632	96	260	13:17:51.466	488AA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,613,372:27:0	
633	96	260	14:05:41.466	488AA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,613,419:55:0	
634	96	260	14:13:19.466	488AA6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,613,427:14:0	
635	96	260	15:00:10.800	488AA6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,613,473:45:0	
636	96	260	15:21:35.466	488AB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,613,494:61:0	
637	96	260	15:53:35.466	488AB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,613,526:29:0	
638	96	260	21:02:55.466	488AB6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,613,832:23:0	
639	96	260	21:27:24.133	488AC6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,613,856:42:0	
640	96	260	21:37:03.466	488AC6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,613,866:01:0	
641	96	260	22:06:10.133	488AC6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,613,894:73:0	
642	96	260	23:19:27.466	488AC6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,613,967:26:0	
643	96	260	23:27:12.133	488AC6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,613,974:86:0	
644	96	260	23:57:10.733	488AD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,614,004:54:0	
645	96	261	03:18:24.066	488AD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,614,203:55:0	
646	96	261	05:20:00.066	488AD6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,614,323:79:0	
647	96	261	06:56:24.733	488AE6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	100	4	0	3,614,419:20:0	
648	96	261	07:10:04.066	488AE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,614,432:66:0	
649	96	261	11:03:27.400	488AE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,614,663:50:0	
650	96	261	13:17:51.400	488AF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,614,796:43:0	
651	96	261	14:12:45.400	488AF6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,614,850:70:0	
652	96	261	14:17:35.400	488AF6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,614,855:50:0	
653	96	261	15:00:02.733	488AF6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,614,897:49:0	
654	96	261	15:21:35.400	488AF6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,614,918:77:0	
655	96	261	15:53:35.400	488AG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,614,950:45:0	
656	96	261	21:02:55.400	488AG6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,615,256:39:0	
657	96	261	21:32:41.400	488AG6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,615,285:79:0	
658	96	261	22:00:00.733	488AH6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,615,312:81:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	96	261	22:38:55.400	488AH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,615,351:34:0	
660	96	262	01:39:00.733	488AH6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,615,529:44:0	
661	96	262	02:24:40.066	488AH6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,615,574:58:0	
662	96	262	03:18:23.400	488AH6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,615,627:70:0	
663	96	262	05:19:59.400	488AI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,615,748:03:0	
664	96	262	11:03:28.000	488AI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,616,087:67:0	
665	96	262	13:17:52.000	488AJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,616,220:60:0	
666	96	262	14:12:41.333	488AJ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,616,274:80:0	
667	96	262	14:17:36.000	488AJ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,616,279:67:0	
668	96	262	15:14:54.666	488AJ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,616,336:38:0	
669	96	262	15:34:23.333	488AJ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,616,355:62:0	
670	96	262	16:10:21.333	488AK6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,616,391:23:0	
671	96	262	16:47:09.333	488AK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,616,427:59:0	
672	96	262	17:35:59.333	488AK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,616,475:96:0	
673	96	262	19:18:23.333	488AK6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,616,577:20:0	
674	96	262	21:00:29.333	488AK6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,616,678:18:0	
675	96	262	21:02:55.333	488AL6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,616,680:55:0	
676	96	262	22:00:54.000	488AL6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,616,737:86:0	
677	96	262	22:47:27.333	488AL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,616,783:90:0	
678	96	262	22:57:28.000	488AL6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,616,793:81:0	
679	96	262	23:24:46.666	488AL6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,616,820:82:0	
680	96	263	03:18:23.333	488AM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,617,051:86:0	
681	96	263	05:19:59.333	488AM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,617,172:19:0	
682	96	263	10:48:31.333	488AN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,617,497:12:0	
683	96	263	13:02:55.933	488AN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,617,630:06:0	
684	96	263	13:55:09.933	488AN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,617,681:66:0	
685	96	263	14:02:39.933	488AN6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,617,689:13:0	
686	96	263	14:59:47.933	488AN6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,617,745:59:0	
687	96	263	15:36:31.933	488AO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,617,781:89:0	
688	96	263	20:47:59.933	488AO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,618,090:02:0	
689	96	263	21:18:23.933	488AO6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,618,120:08:0	
690	96	263	21:28:31.266	488AO6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,618,130:09:0	
691	96	263	21:55:45.933	488AP6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,618,157:04:0	
692	96	263	23:27:59.266	488AP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,618,248:23:0	
693	96	264	03:48:15.266	488AP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,618,505:60:0	
694	96	264	05:19:59.266	488AQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,618,596:35:0	
695	96	264	10:48:31.266	488AQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,618,921:28:0	
696	96	264	13:02:55.266	488AR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,619,054:21:0	
697	96	264	14:00:05.933	488AR6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,619,110:71:0	
698	96	264	14:02:39.266	488AR6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,619,113:28:0	
699	96	264	14:59:39.933	488AR6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,619,169:63:0	
700	96	264	15:34:23.266	488AR6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,619,204:03:0	
701	96	264	16:00:36.600	488AS6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,619,229:88:0	
702	96	264	16:37:24.600	488AS6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,619,266:33:0	
703	96	264	17:50:55.266	488AS6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,619,339:06:0	
704	96	264	18:48:31.866	488AS6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,619,396:04:0	
705	96	264	20:47:59.866	488AS6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,619,514:18:0	
706	96	264	21:12:10.533	488AT6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,619,538:10:0	
707	96	264	21:28:31.866	488AT6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,619,554:26:0	
708	96	264	21:55:39.200	488AT6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,619,581:10:0	
709	96	264	22:38:55.866	488AT6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,619,623:83:0	
710	96	264	22:52:43.200	488AT6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,619,637:50:0	
711	96	264	23:20:01.866	488AU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,619,664:51:0	
712	96	264	23:29:59.866	418JC6A	6BUFHI		Sci, Eng, and D/L Chan	100	4	0	3,619,674:38:0	
713	96	265	03:18:23.866	488AU6B	6TMSED	NORM,AL5	9 MUB Buffer high water	100	4	0	3,619,900:28:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	96	265	05:19:59.200	488AU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,620,020:51:0	
715	96	265	10:31:27.200	488AV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,620,328:55:0	
716	96	265	13:02:55.200	488AV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,620,478:37:0	
717	96	265	13:57:31.866	488AV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,620,532:38:0	
718	96	265	14:02:39.200	488AV6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,620,537:44:0	
719	96	265	14:39:31.866	488AV6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,620,573:87:0	
720	96	265	15:06:39.200	488AW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,620,600:71:0	
721	96	265	15:38:39.200	488AW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,620,632:39:0	
722	96	265	20:47:59.200	488AW6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,620,938:33:0	
723	96	265	21:17:10.533	488AX6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,620,967:21:0	
724	96	265	21:44:29.866	488AX6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,620,994:23:0	
725	96	265	22:23:59.200	488AX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,621,033:28:0	
726	96	266	03:18:23.800	488AY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,621,324:44:0	
727	96	266	05:34:55.800	488AY6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,621,459:47:0	
728	96	266	10:16:31.133	488AZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,621,738:01:0	
729	96	266	12:47:59.133	488AZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,621,887:74:0	
730	96	266	13:40:00.466	488AZ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,621,939:24:0	
731	96	266	13:47:43.133	488AZ6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,621,946:81:0	
732	96	266	14:44:23.800	488AZ6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,622,002:86:0	
733	96	266	15:02:23.133	488BA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,622,020:67:0	
734	96	266	15:34:23.133	488BA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,622,052:35:0	
735	96	266	20:33:03.133	488BA6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,622,347:70:0	
736	96	266	21:07:48.466	488BA6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,622,382:13:0	
737	96	266	21:17:51.133	488BA6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,622,392:07:0	
738	96	266	21:45:23.133	488BB6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,622,419:28:0	
739	96	266	22:28:15.133	488BB6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,622,461:64:0	
740	96	267	03:20:27.133	488BB6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,622,733:80:0	
741	96	267	05:34:55.133	488BC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	100	4	0	3,622,883:62:0	
742	96	267	10:01:35.733	488BC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,623,147:39:0	
743	96	267	10:29:59.733	418JD6A	6BUFHI		5 MUB Buffer high water	100	4	0	3,623,175:47:0	
744	96	267	12:47:59.733	488BD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,623,312:00:0	
745	96	267	13:44:56.400	488BD6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,623,368:29:0	
746	96	267	13:47:43.733	488BD6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,623,371:07:0	
747	96	267	14:59:17.066	488BD6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,623,441:77:0	
748	96	267	15:34:23.733	488BD6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,623,476:52:0	
749	96	267	15:50:59.733	488BE6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,623,492:90:0	
750	96	267	16:27:47.733	488BE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,623,529:35:0	
751	96	267	16:46:37.066	176SE6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,623,548:00:0	
752	96	267	16:49:59.733	41SD99A	POWER	PWR MODE change	Change to Maneuver Mode	100	4	0	3,623,551:31:0	
753	96	267	16:50:03.733	41SD3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	100	4	0	3,623,551:37:0	
754	96	267	16:50:13.733	41SD3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	100	4	0	3,623,551:52:0	
755	96	267	16:52:23.733	41SD3G	40T1P		1 PCT Heater 1 ON (primary relay)	100	4	0	3,623,553:65:0	
756	96	267	16:52:33.733	41SD3H	40T1P		2 PCT Heater 1 ON (primary relay)	100	4	0	3,623,553:80:0	
757	96	267	16:52:43.733	41SD3I	40T2		1 PCT Heater 2 ON	100	4	0	3,623,554:04:0	
758	96	267	16:52:53.733	41SD3J	40T2		2 PCT Heater 2 ON	100	4	0	3,623,554:19:0	
759	96	267	16:52:59.733	488BE6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	100	4	0	3,623,554:28:0	
760	96	267	17:25:01.733	490UA412A4B	7MODE	INT	AACS INERTIAL MODE	100	4	0	3,623,585:90:0	
761	96	267	17:29:59.733	490UA412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	100	4	0	3,623,590:82:0	
762	96	267	17:34:09.733	490UA412A4E	7VECT		Inert vect update UTC	100	4	0	3,623,595:02:0	
763	96	267	17:34:13.733	490UA412A4F	7TURN	2,RTH	ALERT Thruster	100	4	0	3,623,595:08:0	
764	96	267	17:38:01.733	490UA412A406A4A	7STAR	1,3000,95.710999	Star catalog update	100	4	0	3,623,598:77:0	
765	96	267	17:38:03.733	490UA412A406A4B	7STAR	2,131,322.07	Star catalog update	100	4	0	3,623,598:80:0	
766	96	267	17:38:05.733	490UA412A406A4C	7STAR	3,396,206.39	Star catalog update	100	4	0	3,623,598:83:0	
767	96	267	17:38:07.733	490UA412A406A4D	7STAR	4,0,0,0,0,0	Star catalog update	100	4	0	3,623,598:86:0	
768	96	267	17:38:09.733	490UA412A406A4E	7STAR	5,0,0,0,0,0	Star catalog update	100	4	0	3,623,598:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	96	267	17:38:11.733	490UA412A406A4F	7STAR	6.0,0.0,0.0	Star catalog update	100	4	0	3,623,599:01:0	
770	96	267	18:44:12.400	490UA412A4L	7MODE	CRU	AACS CRUISE MODE	100	4	0	3,623,664:27:0	
771	96	267	18:49:59.066	432OS431A6A	6RQDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	100	4	0	3,623,670:01:0	
772	96	267	18:49:59.733	432OS6A	6RTSL1		R/T Select of DDS and	100	4	0	3,623,670:02:0	
773	96	267	19:01:59.733	41SG99A	POWER	PWR MODE change	Change to Playback Mode	100	4	0	3,623,681:81:0	
774	96	267	19:01:59.733	488BE6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,623,681:81:0	
775	96	267	19:02:03.733	41SG3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	100	4	0	3,623,681:87:0	
776	96	267	19:02:13.733	41SG3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3,623,682:11:0	
777	96	267	19:02:23.733	41SG3K	40T2R		1 PCT Heater 2 OFF	100	4	0	3,623,682:28:0	
778	96	267	19:02:33.733	41SG3L	40T2R		2 PCT Heater 2 OFF	100	4	0	3,623,682:41:0	
779	96	267	19:04:43.733	41SG3G	37F2P		1 Shield Flash Heater ON (primary relay)	100	4	0	3,623,684:54:0	
780	96	267	19:04:53.733	41SG3H	37F2P		2 Shield Flash Heater ON (primary relay)	100	4	0	3,623,684:69:0	
781	96	267	19:12:03.733	20UC4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3,623,691:77:0	
782	96	267	19:12:53.733	20UC4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,623,692:61:0	
783	96	267	19:15:15.066	176UD6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,623,695:00:0	
784	96	267	20:18:07.066	488BE6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,623,757:16:0	
785	96	267	20:55:46.400	488BF6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,623,794:38:0	
786	96	267	21:11:27.066	488BF6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,623,809:84:0	
787	96	267	21:40:16.400	488BF6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,623,838:39:0	
788	96	267	22:21:51.066	488BF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,623,879:50:0	
789	96	267	22:43:06.400	488BF6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,623,900:52:0	
790	96	267	22:59:59.733	418JE6A	6BUFHI		7 MUB Buffer high water	100	4	0	3,623,917:25:0	
791	96	267	23:10:24.400	488BG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,623,927:52:0	
792	96	268	03:18:23.066	488BG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,624,172:75:0	
793	96	268	03:54:59.733	488WA6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	100	4	0	3,624,209:03:0	
794	96	268	04:05:19.066	488WA6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	100	4	0	3,624,219:22:0	
795	96	268	04:37:19.066	488WA6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	100	4	0	3,624,250:81:0	
796	96	268	05:13:35.066	488WA6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	100	4	0	3,624,286:69:0	
797	96	268	05:33:33.066	488WA6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,624,306:46:0	
798	96	268	12:33:03.066	488BH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,624,721:36:0	
799	96	268	13:34:10.333	488BH6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,624,781:77:0	
800	96	268	13:41:19.666	488BH6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,624,788:84:0	
801	96	268	14:44:09.000	488BH6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,624,851:05:0	
802	96	268	15:04:31.666	488BH6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,624,871:19:0	
803	96	268	15:49:19.666	488BI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,624,915:47:0	
804	96	268	20:15:59.666	488BI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,625,179:23:0	
805	96	268	20:55:17.666	488BI6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,625,218:11:0	
806	96	268	21:02:55.666	488BI6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,625,225:61:0	
807	96	268	21:40:08.333	488BI6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,625,262:43:0	
808	96	268	22:43:11.000	488BJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,625,324:75:0	
809	96	269	03:18:23.000	488BJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,625,597:00:0	
810	96	269	12:30:55.000	488BK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,626,143:42:0	
811	96	269	13:42:19.000	488BK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,626,214:07:0	
812	96	269	13:47:43.000	488BK6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,626,219:38:0	
813	96	269	14:44:01.666	488BK6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,626,275:10:0	
814	96	269	15:02:23.000	488BK6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,626,293:24:0	
815	96	269	15:49:19.000	488BL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,626,339:62:0	
816	96	269	20:01:03.600	488BL6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,626,588:60:0	
817	96	269	20:49:12.266	488BL6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,626,636:25:0	
818	96	269	20:56:31.600	488BL6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,626,643:47:0	
819	96	269	21:35:00.266	488BL6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,626,681:52:0	
820	96	269	22:41:03.600	488BM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,626,746:82:0	
821	96	269	22:51:17.600	488BM6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,626,757:02:0	
822	96	269	23:19:27.600	488BM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,626,784:80:0	
823	96	269	23:26:24.266	488BM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,626,791:68:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	96	270	03:18:23.600	488B6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,627,021:17:0	
825	96	270	06:26:10.266	488B6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	100	4	0	3,627,206:82:0	
826	96	270	06:44:22.933	488B6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,627,224:83:0	
827	96	270	12:15:58.933	488B6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,627,552:79:0	
828	96	270	13:24:46.933	488B6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,627,620:83:0	
829	96	270	13:32:46.933	488B6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,627,628:75:0	
830	96	270	14:28:53.600	488B6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,627,684:29:0	
831	96	270	14:49:34.933	488B6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,627,704:71:0	
832	96	270	15:49:18.933	488B6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,627,763:78:0	
833	96	270	20:01:02.933	488B6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,628,012:75:0	
834	96	270	20:45:50.933	488B6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,628,057:12:0	
835	96	270	21:01:32.266	488B6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,628,072:59:0	
836	96	270	21:28:51.600	488B6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,628,099:61:0	
837	96	270	21:49:50.933	488B6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,628,120:39:0	
838	96	270	22:21:50.933	488B6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,628,152:07:0	
839	96	271	03:18:23.533	488B6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,628,445:33:0	
840	96	271	10:30:00.200	418JF6A	6BUFHI		6 MUB Buffer high water	100	4	0	3,628,872:21:0	
841	96	271	12:15:58.866	488B6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,628,977:04:0	
842	96	271	13:23:39.533	488B6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,629,043:89:0	
843	96	271	13:30:38.866	488B6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,629,050:81:0	
844	96	271	14:43:45.533	488B6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,629,123:18:0	
845	96	271	15:34:22.866	488B6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,629,173:24:0	
846	96	271	15:36:30.200	488B6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,629,175:33:0	
847	96	271	16:13:18.866	488B6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,629,211:70:0	
848	96	271	19:46:06.866	488B6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,629,422:21:0	
849	96	271	20:31:25.533	488B6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,629,467:04:0	
850	96	271	21:28:44.200	488B6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,629,523:66:0	
851	96	271	22:06:54.866	488B6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,629,561:44:0	
852	96	271	22:28:37.533	488B6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,629,582:87:0	
853	96	271	22:55:55.533	488B6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,629,609:87:0	
854	96	272	00:00:00.200	418JG6A	6BUFHI		8 MUB Buffer high water	100	4	0	3,629,673:30:0	
855	96	272	03:03:26.866	488B6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,629,854:69:0	
856	96	272	12:15:59.466	488B6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,630,401:21:0	
857	96	272	13:25:56.800	488B6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,630,470:38:0	
858	96	272	13:30:39.466	488B6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,630,475:07:0	
859	96	272	14:14:40.133	488B6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,630,518:55:0	
860	96	272	15:15:11.466	488B6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,630,578:42:0	
861	96	272	15:47:11.466	488B6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,630,610:10:0	
862	96	272	19:46:06.800	488B6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,630,846:37:0	
863	96	272	20:38:36.800	488B6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,630,898:30:0	
864	96	272	20:45:50.800	488B6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,630,905:44:0	
865	96	272	21:24:38.133	488B6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,630,943:77:0	
866	96	272	22:26:06.800	488B6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,631,004:59:0	
867	96	273	03:03:26.800	488B6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,631,278:85:0	
868	96	273	12:01:02.800	488B6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,631,810:57:0	
869	96	273	13:11:03.466	488B6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,631,879:79:0	
870	96	273	13:15:42.800	488B6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,631,884:43:0	
871	96	273	14:28:30.733	488B6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,631,956:43:0	
872	96	273	14:49:35.400	488B6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,631,977:29:0	
873	96	273	15:34:23.400	488B6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,632,021:57:0	
874	96	273	19:46:07.400	488B6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,632,270:54:0	
875	96	273	20:26:08.066	488B6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,632,310:15:0	
876	96	273	20:30:55.400	488B6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,632,314:82:0	
877	96	273	21:19:30.066	488B6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,632,362:86:0	
878	96	273	22:15:27.400	488B6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,632,418:26:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	96	274	03:03:26.733	488BZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,632,703:10:0	
880	96	274	11:00:00.066	418KA6A	6BUFHI		6 MUB Buffer high water	100	4	0	3,633,174:39:0	
881	96	274	12:01:02.733	488CA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,633,234:73:0	
882	96	274	13:10:59.400	488CA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,633,303:89:0	
883	96	274	13:15:42.733	488CA6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,633,308:59:0	
884	96	274	14:28:24.066	488CA6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,633,380:49:0	
885	96	274	14:45:18.733	488CA6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,633,397:24:0	
886	96	274	15:34:22.733	488CB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,633,445:72:0	
887	96	274	17:30:00.066	488CB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,633,560:13:0	
888	96	274	17:32:53.400	176VC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,633,563:00:0	
889	96	274	17:37:56.733	465WA6A	6DMST		5000 DMS Slew to TIC	100	4	0	3,633,568:00:0	
890	96	274	17:37:56.733		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 1165.49 +/- 1	100	4	0	3,633,568:00:0	
891	96	274	19:31:10.733	488CB6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,633,679:90:0	
892	96	274	20:30:55.333	488CB6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,633,739:07:0	
893	96	274	20:46:03.333	488CB6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,633,754:04:0	
894	96	274	21:28:22.000	488CC6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,633,795:81:0	
895	96	274	22:04:47.333	488CC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,633,831:83:0	
896	96	274	22:36:54.666	488CC6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,633,863:62:0	
897	96	274	23:13:42.666	488CC6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,633,900:07:0	
898	96	274	23:19:27.333	488CC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,633,905:69:0	
899	96	274	23:30:00.000	418KB6A	6BUFHI		8 MUB Buffer high water	100	4	0	3,633,916:17:0	
900	96	274	23:31:38.000	465WB6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	100	4	0	3,633,917:73:0	
901	96	274	23:57:30.000	465WB6B	6DMSC	RDY,2	DMS Control Tape stop	100	4	0	3,633,943:35:0	
902	96	275	01:52:16.000	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	100	4	0	3,634,056:81:0	
903	96	275	02:02:17.333	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	100	4	0	3,634,066:73:0	
904	96	275	02:34:13.333	465WD6B	6DMSC	P100,2	DMS Control Tape stop	100	4	0	3,634,098:35:0	
905	96	275	02:49:48.666	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	100	4	0	3,634,113:73:0	
906	96	275	03:01:19.333	488CD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,634,125:17:0	
907	96	275	03:21:59.333	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	100	4	0	3,634,145:57:0	
908	96	275	03:54:02.666	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	100	4	0	3,634,177:30:0	
909	96	275	04:08:40.666	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	100	4	0	3,634,191:73:0	
910	96	275	04:40:50.666	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	100	4	0	3,634,223:56:0	
911	96	275	04:41:58.000	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	100	4	0	3,634,224:66:0	
912	96	275	04:56:24.000	465WI6A	6DMSC	RDY,2	DMS Control Tape stop	100	4	0	3,634,239:00:0	
913	96	275	04:57:18.000	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	100	4	0	3,634,239:81:0	
914	96	275	05:30:00.000	488CD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,634,272:21:0	
915	96	275	05:30:04.000	20JD4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3,634,272:27:0	
916	96	275	05:30:54.000	20JD4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,634,273:11:0	
917	96	275	05:33:48.666	176VD6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,634,276:00:0	
918	96	275	06:06:48.666	488CD6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	100	4	0	3,634,308:58:0	
919	96	275	06:51:34.000	488CD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,634,352:82:0	
920	96	275	11:46:06.666	488CE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,634,644:19:0	
921	96	275	13:11:55.333	488CE6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,634,729:07:0	
922	96	275	13:15:42.666	488CE6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,634,732:75:0	
923	96	275	14:04:18.000	488CE6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,634,780:80:0	
924	96	275	15:00:14.666	488CE6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,634,836:19:0	
925	96	275	15:34:22.666	488CF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,634,869:88:0	
926	96	275	19:31:10.666	488CF6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,635,104:15:0	
927	96	275	20:30:54.666	488CF6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,635,163:22:0	
928	96	275	20:45:54.666	488CF6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,635,178:07:0	
929	96	275	21:13:14.000	488CF6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,635,205:09:0	
930	96	275	21:32:46.666	488CG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,635,224:39:0	
931	96	275	22:04:46.666	488CG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,635,256:07:0	
932	96	276	03:01:19.266	488CG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,635,549:33:0	
933	96	276	08:44:59.933	418JQ6A	6BUFHI		4 MUB Buffer high water	100	4	0	3,635,889:24:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	96	276	11:46:06.600	488CH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,636,068:35:0	
935	96	276	13:10:51.933	488CH6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,636,152:19:0	
936	96	276	13:15:42.600	488CH6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,636,157:00:0	
937	96	276	14:43:08.600	488CH6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,636,243:43:0	
938	96	276	15:15:53.266	488CH6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,636,275:78:0	
939	96	276	15:59:58.600	488C16A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,636,319:42:0	
940	96	276	16:08:17.933	488C16B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,636,327:63:0	
941	96	276	16:45:00.600	176WA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,636,364:00:0	
942	96	276	16:49:59.933	41SE99A	POWER	PWR MODE change	Change to Maneuver Mode	100	4	0	3,636,368:85:0	
943	96	276	16:50:03.933	41SE3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	100	4	0	3,636,369:00:0	
944	96	276	16:50:13.933	41SE3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	100	4	0	3,636,369:15:0	
945	96	276	16:52:23.933	41SE3G	40T1P		1 PCT Heater 1 ON (primary relay)	100	4	0	3,636,371:28:0	
946	96	276	16:52:33.933	41SE3H	40T1P		2 PCT Heater 1 ON (primary relay)	100	4	0	3,636,371:43:0	
947	96	276	16:52:43.933	41SE3I	40T2		1 PCT Heater 2 ON	100	4	0	3,636,371:58:0	
948	96	276	16:52:53.933	41SE3J	40T2		2 PCT Heater 2 ON	100	4	0	3,636,371:73:0	
949	96	276	16:52:59.933	488C16C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	100	4	0	3,636,371:82:0	
950	96	276	17:01:59.933	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,636,380:73:0	
951	96	276	17:02:59.933	20UR4D	7MODE	SPNL	AACS ALL-SPIN LOW	100	4	0	3,636,381:72:0	
952	96	276	17:04:59.933	20UR4E	7SAFE	UNSTOW	S/P TO 153 deg cone	100	4	0	3,636,383:70:0	
953	96	276	17:10:29.933	20UR4G	7VENT	0.611,1.0,333.8	ALERT - Thruuster fire	100	4	0	3,636,389:19:0	
954	96	276	17:10:30.600	20UR4H	7VENT	0.611,10.989,8	ALERT - Thruuster fire	100	4	0	3,636,389:20:0	
955	96	276	17:10:50.600	20UR4I	7VENT	0.611,1.333,6	ALERT - Thruuster fire	100	4	0	3,636,389:50:0	
956	96	276	17:10:51.266	20UR4J	7VENT	0.611,10.989,6	ALERT - Thruuster fire	100	4	0	3,636,389:51:0	
957	96	276	17:11:11.266	20UR4K	7VENT	0.611,1.333,4	ALERT - Thruuster fire	100	4	0	3,636,389:81:0	
958	96	276	17:11:11.933	20UR4L	7VENT	0.611,0.666,5	ALERT - Thruuster fire	100	4	0	3,636,389:82:0	
959	96	276	17:11:21.933	20UR4M	7VENT	0.611,1.333,4	ALERT - Thruuster fire	100	4	0	3,636,390:06:0	
960	96	276	17:11:22.600	20UR4N	7VENT	0.611,0.666,5	ALERT - Thruuster fire	100	4	0	3,636,390:07:0	
961	96	276	17:11:32.600	20UR4O	7VENT	1.211,1.333,10	ALERT - Thruuster fire	100	4	0	3,636,390:22:0	
962	96	276	17:11:33.266	20UR4P	7VENT	1.211,0.666,12	ALERT - Thruuster fire	100	4	0	3,636,390:23:0	
963	96	276	17:13:19.933	20UR4S	7VENT	0.611,1.333,7	ALERT - Thruuster fire	100	4	0	3,636,392:01:0	
964	96	276	17:13:20.600	20UR4T	7VENT	0.611,10.989,7	ALERT - Thruuster fire	100	4	0	3,636,392:02:0	
965	96	276	17:13:40.600	20UR4U	7VENT	0.611,1.333,1	ALERT - Thruuster fire	100	4	0	3,636,392:32:0	
966	96	276	17:13:41.266	20UR4V	7VENT	0.611,10.989,1	ALERT - Thruuster fire	100	4	0	3,636,392:33:0	
967	96	276	17:14:01.266	20UR4AC	7VENT	0.611,1.333,2	ALERT - Thruuster fire	100	4	0	3,636,392:63:0	
968	96	276	17:14:01.933	20UR4AD	7VENT	0.611,0.666,3	ALERT - Thruuster fire	100	4	0	3,636,392:64:0	
969	96	276	17:14:11.933	20UR4AE	7VENT	0.611,1.333,2	ALERT - Thruuster fire	100	4	0	3,636,392:79:0	
970	96	276	17:14:12.600	20UR4AF	7VENT	0.611,0.666,3	ALERT - Thruuster fire	100	4	0	3,636,392:80:0	
971	96	276	17:14:22.600	20UR4AW	7VENT	1.211,1.333,9	ALERT - Thruuster fire	100	4	0	3,636,393:04:0	
972	96	276	17:14:23.266	20UR4AX	7VENT	1.211,0.666,11	ALERT - Thruuster fire	100	4	0	3,636,393:05:0	
973	96	276	17:15:19.933	20UR4Z	7MODE	CRU	AACS CRUISE MODE	100	4	0	3,636,393:90:0	
974	96	276	17:39:59.933	41SH99A	POWER	PWR MODE change	Change to Playback Mode	100	4	0	3,636,418:35:0	
975	96	276	17:40:03.933	41SH3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	100	4	0	3,636,418:41:0	
976	96	276	17:40:13.933	41SH3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3,636,418:56:0	
977	96	276	17:40:23.933	41SH3K	40T2R		1 PCT Heater 2 OFF	100	4	0	3,636,418:71:0	
978	96	276	17:40:33.933	41SH3L	40T2R		2 PCT Heater 2 OFF	100	4	0	3,636,418:86:0	
979	96	276	17:42:43.933	41SH3G	37F2P		1 Shield Flash Heater ON (primary relay)	100	4	0	3,636,421:08:0	
980	96	276	17:42:53.933	41SH3H	37F2P		2 Shield Flash Heater ON (primary relay)	100	4	0	3,636,421:23:0	
981	96	276	17:50:03.933	20UE4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3,636,428:31:0	
982	96	276	17:50:53.933	20UE4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,636,429:15:0	
983	96	276	17:52:59.266	432OO431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	100	4	0	3,636,431:21:0	
984	96	276	17:52:59.933	432OO6A	6RTSL1		R/T Select of DDS and	100	4	0	3,636,431:22:0	
985	96	276	17:53:45.933	176UE6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,636,432:00:0	
986	96	276	19:00:59.933	488C16D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,636,498:45:0	
987	96	276	19:16:14.600	488C16E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,636,513:52:0	
988	96	276	20:20:59.933	488C16A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,636,577:56:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	96	276	20:30:54.600	488CJ6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,636,587:38:0	
990	96	276	21:14:07.933	488CJ6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,636,630:15:0	
991	96	276	22:00:43.266	488CJ6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,636,676:22:0	
992	96	276	22:11:10.600	488CJ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,636,686:53:0	
993	96	276	22:29:59.933	418J6A	6BUFHI		8 MUB Buffer high water	100	4	0	3,636,705:18:0	
994	96	276	22:36:32.600	488CK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,636,711:61:0	
995	96	277	03:01:18.600	488CK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,636,973:48:0	
996	96	277	11:46:07.200	488CL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,637,492:52:0	
997	96	277	12:58:20.533	488CL6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,637,564:00:0	
998	96	277	13:00:47.200	488CL6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,637,566:38:0	
999	96	277	14:13:01.866	488CL6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,637,637:79:0	
1000	96	277	14:32:31.200	488CL6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,637,657:13:0	
1001	96	277	15:34:23.200	488CM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,637,718:30:0	
1002	96	277	19:16:14.533	488CM6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,637,937:68:0	
1003	96	277	20:13:33.200	488CM6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,637,994:39:0	
1004	96	277	20:15:58.533	488CM6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,637,996:75:0	
1005	96	277	21:14:00.533	488CM6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,638,054:20:0	
1006	96	277	22:00:30.533	488CN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,638,100:19:0	
1007	96	278	03:01:18.533	488CN6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,638,397:64:0	
1008	96	278	09:29:59.866	418J6A	6BUFHI		5 MUB Buffer high water	100	4	0	3,638,782:11:0	
1009	96	278	11:31:01.533	488CO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,638,901:88:0	
1010	96	278	12:55:46.533	488CO6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,638,985:58:0	
1011	96	278	13:00:46.533	488CO6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,638,990:53:0	
1012	96	278	14:27:53.800	488CO6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,639,076:68:0	
1013	96	278	15:06:08.466	488CO6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,639,114:52:0	
1014	96	278	15:51:27.133	488CP6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,639,159:35:0	
1015	96	278	15:58:59.800	488CP6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,639,166:77:0	
1016	96	278	19:01:19.133	488CP6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,639,347:15:0	
1017	96	278	20:11:56.466	488CP6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,639,417:01:0	
1018	96	278	20:15:59.133	488CP6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,639,421:01:0	
1019	96	278	20:52:15.133	488CO6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,639,456:80:0	
1020	96	278	21:23:51.800	488CO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,639,488:13:0	
1021	96	278	21:47:43.133	488CO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,639,511:67:0	
1022	96	278	22:04:29.133	488CO6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,639,528:29:0	
1023	96	278	22:31:47.800	488CO6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,639,555:30:0	
1024	96	279	03:01:18.466	488CR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,639,821:80:0	
1025	96	279	11:31:10.466	488CS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,640,326:13:0	
1026	96	279	13:00:46.466	488CS6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,640,414:69:0	
1027	96	279	13:05:28.466	488CS6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,640,419:37:0	
1028	96	279	14:27:47.133	488CS6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,640,500:74:0	
1029	96	279	15:01:15.133	488CS6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,640,533:83:0	
1030	96	279	15:47:10.466	488CT6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,640,579:30:0	
1031	96	279	15:54:21.133	488CT6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,640,586:39:0	
1032	96	279	19:01:18.466	488CT6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,640,771:30:0	
1033	96	279	20:00:26.466	488CT6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,640,829:74:0	
1034	96	279	20:57:45.066	488CT6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,640,886:45:0	
1035	96	279	21:17:51.066	488CU6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,640,906:34:0	
1036	96	279	21:49:51.066	488CU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,640,938:02:0	
1037	96	279	21:59:36.400	488CU6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,640,947:61:0	
1038	96	279	22:26:54.400	488CU6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,640,974:61:0	
1039	96	279	23:59:59.733	418J6A	6BUFHI		8 MUB Buffer high water	100	4	0	3,641,066:67:0	
1040	96	280	02:46:23.066	488CU6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,641,231:27:0	
1041	96	280	11:31:10.400	488CV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,641,750:29:0	
1042	96	280	12:53:09.733	488CV6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,641,831:37:0	
1043	96	280	13:00:46.400	488CV6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,641,838:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	96	280	13:57:39.733	488CV6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,641,895:18:0	
1045	96	280	14:32:30.400	488CV6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,641,929:60:0	
1046	96	280	15:32:14.400	488CW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,641,988:67:0	
1047	96	280	19:01:18.400	488CW6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,642,195:46:0	
1048	96	280	20:01:02.400	488CW6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	100	4	0	3,642,254:53:0	
1049	96	280	21:11:26.400	488CW6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,642,324:19:0	
1050	96	280	21:47:42.400	488CX6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,642,360:07:0	
1051	96	280	22:12:38.400	488CX6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,642,384:67:0	
1052	96	280	22:49:26.400	488CX6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,642,421:12:0	
1053	96	280	23:32:14.400	488CX6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,642,463:42:0	
1054	96	281	02:33:34.400	488CX6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,642,642:73:0	
1055	96	281	05:47:32.333	488CY6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	100	4	0	3,642,834:58:0	
1056	96	281	06:05:45.000	488CY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,642,852:59:0	
1057	96	281	08:00:00.333	418JS6A	6BUFH		4 MUB Buffer high water	100	4	0	3,642,965:59:0	
1058	96	281	09:44:30.333	176PE6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,643,069:00:0	
1059	96	281	11:16:15.000	488CY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,643,159:67:0	
1060	96	281	12:43:08.333	488CZ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,643,245:61:0	
1061	96	281	12:45:50.333	488CZ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,643,248:31:0	
1062	96	281	14:27:31.666	488CZ6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,643,348:83:0	
1063	96	281	14:56:30.333	488CZ6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,643,377:52:0	
1064	96	281	15:53:47.000	488CZ6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,643,434:20:0	
1065	96	281	16:00:00.000	20A3FE	40T1PR	Final Condition	PCT Heater 1 OFF (primary relay)	100	4	0	3,643,440:33:5	
1066	96	281	16:00:00.000	20A3FF	40T2R	Final Condition	PCT Heater 2 OFF	100	4	0	3,643,440:33:5	
1067	96	281	16:00:00.000	20A3EW	37A	Final Condition	NIMS Power ON	100	4	0	3,643,440:33:5	
1068	96	281	16:00:00.000	20A3EX	37HR	Final Condition	Replacement Heaters OFF	100	4	0	3,643,440:33:5	
1069	96	281	16:00:00.000	20A3EY	37C1PR	Final Condition	Optics Heater 1 OFF (primary relay)	100	4	0	3,643,440:33:5	
1070	96	281	16:00:00.000	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	100	4	0	3,643,440:33:5	
1071	96	281	16:00:00.000	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	100	4	0	3,643,440:33:5	
1072	96	281	16:00:00.000	20A3FB	37F2P	Final Condition	Shield Flash Heater ON (primary relay)	100	4	0	3,643,440:33:5	
1073	96	281	16:00:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	100	4	0	3,643,440:33:5	
1074	96	281	16:00:00.333		DMS:	: RUNNING	P7, TRACK 2, REV, TIC 162.17 +/- 1	100	4	0	3,643,440:34:0	

Line	YR	DOY	SCET - GMT	Sequence:	G02C-AR	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	96	281	16:00:00.000			37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	4R3	4	0	3,643,440:33:5	
2	96	281	16:00:00.000			37A	Initial Condition	NIMS Power ON	4R3	4	0	3,643,440:33:5	
3	96	281	16:00:00.000			37HR	Initial Condition	Replacement Heaters OFF	4R3	4	0	3,643,440:33:5	
4	96	281	16:00:00.000			20A3FF	Initial Condition	PCT Heater 2 OFF	4R3	4	0	3,643,440:33:5	
5	96	281	16:00:00.000			40T1PR	Initial Condition	PCT Heater 1 OFF (primary relay)	4R3	4	0	3,643,440:33:5	
6	96	281	16:00:00.000			40HRPR	Initial Condition	RCT Heater OFF (primary relay)	4R3	4	0	3,643,440:33:5	
7	96	281	16:00:00.000			37F2P	Initial Condition	Shield Flash Heater ON (primary relay)	4R3	4	0	3,643,440:33:5	
8	96	281	16:00:00.000			37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	4R3	4	0	3,643,440:33:5	
9	96	281	16:00:00.000			37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	4R3	4	0	3,643,440:33:5	
10	96	281	16:00:00.333			DMS:	: READY	RDY, TRACK 3, FWD, TIC 5526.00 +/-	4R3	4	0	3,643,440:33:5	
11	96	281	16:01:00.333			6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,643,441:33:0	
12	96	281	16:02:00.333			6RTSL2	NIMNCG,AACNCG,RT	RIT ENG SELECT	4R3	4	0	3,643,442:32:0	
13	96	281	16:02:00.333			6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,643,442:32:0	
14	96	281	16:03:04.333			7SAFE	STOP	S/P NO MOVEMENT	4R3	4	0	3,643,443:37:0	
15	96	281	16:03:54.333			7SLEW	DIS,POS,0.0	Stator movement	4R3	4	0	3,643,444:21:0	
16	96	281	16:06:42.333			6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4R3	4	0	3,643,447:00:0	
17	96	281	19:31:10.333			6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,643,649:20:0	
18	96	281	20:20:11.666			6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,643,697:64:0	
19	96	281	20:52:29.666			6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,643,729:59:0	
20	96	281	21:22:06.333			6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,643,758:85:0	
21	96	281	21:47:46.333			6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,643,784:29:0	
22	96	281	22:49:34.333			6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,643,845:40:0	
23	96	281	23:02:22.333			6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,643,858:09:0	
24	96	282	02:35:42.333			6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,644,069:08:0	
25	96	282	05:42:39.666			6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,644,253:90:0	
26	96	282	06:00:51.666			6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,644,271:90:0	
27	96	282	09:59:29.600			6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4R3	4	0	3,644,508:00:0	
28	96	282	10:40:00.266			POWER	PWR MODE change	Change to Maneuver Mode	4R3	4	0	3,644,548:06:0	
29	96	282	10:40:04.266			37F2PR		1 Shield Flash Heater OFF (primary relay)	4R3	4	0	3,644,548:12:0	
30	96	282	10:40:14.266			41V3L		2 Shield Flash Heater OFF (primary relay)	4R3	4	0	3,644,548:17:0	
31	96	282	10:42:24.266			41V3G		1 PCT Heater 1 ON (primary relay)	4R3	4	0	3,644,550:40:0	
32	96	282	10:42:34.266			41V3H		2 PCT Heater 1 ON (primary relay)	4R3	4	0	3,644,550:55:0	
33	96	282	10:42:44.266			41V3I		1 PCT Heater 2 ON	4R3	4	0	3,644,550:70:0	
34	96	282	10:42:54.266			41V3J		2 PCT Heater 2 ON	4R3	4	0	3,644,550:85:0	
35	96	282	10:51:20.266			20UM4B	UNSTOW	S/P TO 153 deg cone	4R3	4	0	3,644,559:25:0	
36	96	282	10:56:30.266			20UM6A	6MROH	read from AACSA7,73C0,0,A2	4R3	4	0	3,644,564:35:0	
37	96	282	11:03:10.266			20UM6B	6MROH	read from AACSA7,73C0,0,A2	4R3	4	0	3,644,570:89:0	
38	96	282	11:10:20.266			20UM4D	7MODE	AACS INERTIAL MODE	4R3	4	0	3,644,578:06:0	
39	96	282	11:31:10.933			488C6C	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,644,598:62:0	
40	96	282	12:54:22.933			488D6A	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,644,680:88:0	
41	96	282	12:55:06.266			488D6B	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,644,681:62:0	
42	96	282	13:37:24.933			488D6C	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,644,723:48:0	
43	96	282	14:02:38.933			488D6D	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,644,748:44:0	
44	96	282	14:23:00.266			488D6E	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,644,768:56:0	
45	96	282	14:44:00.266			474AA416A4B	7MODE	AACS INERTIAL MODE	4R3	4	0	3,644,789:35:0	
46	96	282	14:46:00.266			474AA416A4D	7SAFE	S/P TO 153 deg cone	4R3	4	0	3,644,791:33:0	
47	96	282	14:50:14.266			474AA416A4E	7BURN	ALERT - Thruster fire	4R3	4	0	3,644,795:50:0	
48	96	282	15:08:46.933			488E6A	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,644,813:81:0	
49	96	282	15:44:04.266			474AA416A4I	7BURN	ALERT - Thruster fire	4R3	4	0	3,644,858:62:0	
50	96	282	17:18:54.266			474AA416A4O	7BURN	ALERT - Thruster fire	4R3	4	0	3,644,942:53:0	
51	96	282	18:24:53.600			474AA416A4V	7MODE	AACS CRUISE MODE	4R3	4	0	3,645,007:77:0	
52	96	282	19:05:34.266			488E6B	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,645,048:07:0	
53	96	282	20:15:58.266			488E6C	6TMSED	Sci, Eng, and D/L Chan	4R3	4	0	3,645,117:64:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	282	20:52:14.266	488E6D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4R3	4	0	3.645,153:52:0	
55	96	282	21:45:34.266	488F6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4R3	4	0	3.645,206:29:0	
56	96	282	22:00:00.266	444JA443A4A	7MODE	CRU	AACS CRUISE MODE	4R3	4	0	3.645,220:54:0	
57	96	282	22:05:00.266	41U99A	POWER	PWR MODE change	Change to Playback Mode	4R3	4	0	3.645,225:49:0	
58	96	282	22:05:00.266	488F6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3.645,225:49:0	
59	96	282	22:05:04.266	41U3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	4R3	4	0	3.645,225:55:0	
60	96	282	22:05:14.266	41U3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	4R3	4	0	3.645,225:70:0	
61	96	282	22:05:24.266	41U3K	40T2R		1 PCT Heater 2 OFF	4R3	4	0	3.645,225:85:0	
62	96	282	22:05:34.266	41U3L	40T2R		2 PCT Heater 2 OFF	4R3	4	0	3.645,226:09:0	
63	96	282	22:07:44.266	41U3G	37F2P		1 Shield Flash Heater ON (primary relay)	4R3	4	0	3.645,228:22:0	
64	96	282	22:07:54.266	41U3H	37F2P		2 Shield Flash Heater ON (primary relay)	4R3	4	0	3.645,228:37:0	
65	96	282	22:23:59.600	432OQ431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	3.645,244:29:0	
66	96	282	22:24:00.266	432OQ6A	6RTSL1		R/T Select of DDS and	4R3	4	0	3.645,244:30:0	
67	96	283	03:03:00.266	20UT4F	7SAFE	UNSTOW	S/P TO 153 deg cone	4R3	4	0	3.645,520:24:0	
68	96	283	03:07:00.266	20UT4G	7STAT	17,45:0,0,90,0	Stator inertial point	4R3	4	0	3.645,524:20:0	
69	96	283	03:16:14.266	488F6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3.645,533:32:0	
70	96	283	03:50:00.266	488G6A	6TMSED	NORM,BL5	Sci, Eng, and D/L Chan	4R3	4	0	3.645,566:68:0	
71	96	283	04:54:22.266	488G6B	6TMSED	NORM,BL4	Sci, Eng, and D/L Chan	4R3	4	0	3.645,630:37:0	
72	96	283	05:00:00.266	488G6C	6TMSED	NORM,BA4	Sci, Eng, and D/L Chan	4R3	4	0	3.645,635:89:0	
73	96	283	06:11:10.266	488G6E	6TMSED	NORM,BL5	Sci, Eng, and D/L Chan	4R3	4	0	3.645,706:33:0	
74	96	283	07:03:00.266	488H6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3.645,757:57:0	
75	96	283	07:30:04.266	20UX4A	7SAFE	STOP	S/P NO MOVEMENT	4R3	4	0	3.645,784:36:0	
76	96	283	07:30:54.266	20UX4B	7SLEW	DIS,POS,0,0	Stator movement	4R3	4	0	3.645,785:20:0	
77	96	283	07:32:42.266	176VK6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4R3	4	0	3.645,787:00:0	
78	96	283	11:24:46.266	488H6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3.646,016:47:0	
79	96	283	12:46:14.933	488H6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3.646,097:09:0	
80	96	283	12:50:06.266	488H6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3.646,100:83:0	
81	96	283	13:26:22.266	488I6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3.646,136:71:0	
82	96	283	13:47:17.600	488I6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3.646,157:43:0	
83	96	283	14:34:20.266	176TP6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4R3	4	0	3.646,204:00:0	
84	96	283	14:38:22.933	176KD6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	4R3	4	0	3.646,208:00:0	
85	96	283	14:43:10.266	488I6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3.646,212:67:0	
86	96	283	14:43:24.933	165QA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3.646,212:89:0	
87	96	283	14:43:25.600	165QA4B	7SCAN	NORM,169.679998,	Check S/P Position	4R3	4	0	3.646,212:90:0	
88	96	283	14:57:58.266	488I6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3.646,227:34:0	
89	96	283	15:23:04.200	20A4A	7SAFE	STOP	S/P NO MOVEMENT	4R3	4	0	3.646,252:18:0	
90	96	283	15:23:54.200	20A4B	7SLEW	DIS,POS,0,0	Stator movement	4R3	4	0	3.646,253:02:0	
91	96	283	15:26:54.866	176UH6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4R3	4	0	3.646,256:00:0	
92	96	283	15:34:46.866	488I6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3.646,263:71:0	
93	96	283	19:24:46.866	488J6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3.646,491:23:0	
94	96	283	20:47:58.866	488J6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3.646,573:49:0	
95	96	283	21:28:30.866	488J6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3.646,613:57:0	
96	96	283	21:45:05.533	488J6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3.646,630:02:0	
97	96	283	21:49:06.866	176SJ6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4R3	4	0	3.646,634:00:0	
98	96	283	21:53:09.533	176KE6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	4R3	4	0	3.646,638:00:0	
99	96	283	21:59:12.200	165QB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3.646,643:90:0	
100	96	283	21:59:12.866	165QB4B	7SCAN	NORM,170.745998,	Check S/P Position	4R3	4	0	3.646,643:90:0	
101	96	283	22:12:23.533	488J6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3.646,657:02:0	
102	96	283	22:38:04.200	20UR4A	7SAFE	STOP	S/P NO MOVEMENT	4R3	4	0	3.646,682:38:0	
103	96	283	22:38:54.200	20UR4B	7SLEW	DIS,POS,0,0	Stator movement	4R3	4	0	3.646,683:22:0	
104	96	283	22:41:41.533	176UI6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4R3	4	0	3.646,686:00:0	
105	96	283	23:00:00.200	418JT6A	6BUJFH		9 MUB Buffer high water	4R3	4	0	3.646,704:10:0	
106	96	284	02:31:26.200	488K6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3.646,913:20:0	
107	96	284	11:20:30.200	488L6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3.647,436:43:0	
108	96	284	12:45:50.200	488L6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3.647,520:79:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	96	284	12:49:52.200	488L6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,647,524:78:0	
110	96	284	13:32:10.866	488L6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,647,566:64:0	
111	96	284	13:51:58.200	488L6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,647,586:25:0	
112	96	284	15:02:22.200	488M6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,647,655:82:0	
113	96	284	18:54:54.200	488M6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,647,885:80:0	
114	96	284	20:05:18.200	488M6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,647,955:46:0	
115	96	284	20:45:50.200	488M6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,647,995:54:0	
116	96	284	21:22:06.800	488N6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,648,031:43:0	
117	96	285	02:27:10.800	488N6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,648,333:17:0	
118	96	285	08:30:00.133	418JU6A	6BUFHI		7 MUB Buffer high water	4R3	4	0	3,648,692:02:0	
119	96	285	11:20:30.133	488O6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,648,860:59:0	
120	96	285	12:40:23.466	488O6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,648,939:60:0	
121	96	285	12:45:50.133	488O6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,648,945:04:0	
122	96	285	13:42:04.133	488O6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,649,000:60:0	
123	96	285	14:36:46.133	488O6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,649,054:69:0	
124	96	285	15:53:12.800	488P6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,649,071:02:0	
125	96	285	15:30:00.800	488P6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,649,107:38:0	
126	96	285	19:14:06.133	488P6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,649,329:04:0	
127	96	285	20:41:34.133	488P6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,649,415:50:0	
128	96	285	21:17:50.133	488Q6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,649,451:38:0	
129	96	285	21:40:19.466	488Q6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,649,473:60:0	
130	96	285	22:07:37.466	488Q6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,649,500:60:0	
131	96	286	00:41:00.800	488Q6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,649,652:33:0	
132	96	286	00:45:00.133	418JV6A	6BUFHI		8 MUB Buffer high water	4R3	4	0	3,649,656:28:0	
133	96	286	01:54:40.133	488Q6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,649,725:19:0	
134	96	286	02:20:46.133	488R6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,649,751:02:0	
135	96	286	05:22:48.667	G2NNSHDOFF02-		----START-----		4R3	4	0	:	:
136	96	286	05:23:48.733	20DQ3A	37F2PR		1 Shield Flash Heater OFF (primary relay)	4R3	4	0	3,649,932:05:0	
137	96	286	05:23:58.733	20DQ3B	37F2PR		2 Shield Flash Heater OFF (primary relay)	4R3	4	0	3,649,932:20:0	
138	96	286	05:24:08.733	20DQ3C	40T1P		1 PCT Heater 1 ON (primary relay)	4R3	4	0	3,649,932:35:0	
139	96	286	05:24:18.733	20DQ3D	40T1P		2 PCT Heater 1 ON (primary relay)	4R3	4	0	3,649,932:50:0	
140	96	286	05:24:28.733	20DQ3E	40T2		1 PCT Heater 2 ON	4R3	4	0	3,649,932:65:0	
141	96	286	05:24:38.733	20DQ3F	40T2		2 PCT Heater 2 ON	4R3	4	0	3,649,932:80:0	
142	96	286	11:14:06.733	488S6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,650,278:46:0	
143	96	286	12:35:26.066	488S6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,650,358:85:0	
144	96	286	12:39:26.733	488S6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,650,362:82:0	
145	96	286	13:37:58.066	488S6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,650,420:71:0	
146	96	286	14:19:42.066	488S6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,650,462:05:0	
147	96	286	14:58:06.066	488T6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,650,500:03:0	
148	96	286	18:50:38.066	488T6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,650,730:01:0	
149	96	286	19:56:17.400	488T6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,650,794:86:0	
150	96	286	19:58:54.066	488T6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,650,797:48:0	
151	96	286	20:31:54.066	488T6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,650,830:15:0	
152	96	286	21:17:50.066	488U6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,650,875:54:0	
153	96	287	02:20:46.066	488U6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3,651,175:18:0	
154	96	287	11:09:50.666	488V6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,651,698:42:0	
155	96	287	12:32:26.666	488V6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,651,780:14:0	
156	96	287	12:35:10.666	488V6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,651,782:78:0	
157	96	287	13:21:50.000	488V6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3,651,829:00:0	
158	96	287	13:41:18.666	488V6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3,651,848:24:0	
159	96	287	14:58:06.666	488W6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3,651,924:20:0	
160	96	287	18:05:00.666	41JT99A	POWER	PWR MODE change	Change to Calib/Decon Mode	4R3	4	0	3,652,109:06:0	
161	96	287	18:05:00.667	G2NNRCTRL T02-		----START-----		4R3	4	0	:	:
162	96	287	18:05:00.667	G2NNSHDOFF02-		----STOP-----		4R3	4	0	:	:
163	96	287	18:05:04.666	41JT3G	37F2PR		1 Shield Flash Heater OFF (primary relay)	4R3	4	0	3,652,109:12:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	96	287	18:05:14.666	41JT3H	37F2PR		2 Shield Flash Heater OFF (primary relay)	4R3	4	0	3.652,109:27:0	
165	96	287	18:05:24.666	41JT3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	4R3	4	0	3.652,109:42:0	
166	96	287	18:05:34.666	41JT3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	4R3	4	0	3.652,109:57:0	
167	96	287	18:05:44.666	41JT3K	40T2R		1 PCT Heater 2 OFF	4R3	4	0	3.652,109:72:0	
168	96	287	18:05:54.666	41JT3L	40T2R		2 PCT Heater 2 OFF	4R3	4	0	3.652,109:87:0	
169	96	287	18:16:04.000	176X16A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4R3	4	0	3.652,120:00:0	
170	96	287	18:19:10.000	20XG4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4R3	4	0	3.652,123:06:0	
171	96	287	18:23:16.666	20US4A	7SAFE	STOP	S/P NO MOVEMENT	4R3	4	0	3.652,127:12:0	
172	96	287	18:24:06.666	20US4B	7SLEW	DIS_POS,0.0	Stator movement	4R3	4	0	3.652,127:87:0	
173	96	287	18:26:10.666	176YE6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4R3	4	0	3.652,130:00:0	
174	96	287	18:27:11.333	185XG10A3A	40HRP		1 RCT Heater ON (primary relay)	4R3	4	0	3.652,131:00:0	
175	96	287	18:44:14.000	488W6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3.652,147:78:0	
176	96	287	19:54:38.000	488W6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	3.652,217:44:0	
177	96	287	20:33:02.000	488W6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	3.652,255:42:0	
178	96	287	21:11:26.000	488X6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	3.652,293:40:0	
179	96	288	02:16:30.000	488X6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	3.652,595:14:0	
180	96	288	06:21:58.000	125XG	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3.652,837:84:0	
181	96	288	06:21:58.000	125XG4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	3.652,837:84:0	
182	96	288	06:22:58.666	125XG4B	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	4R0	4	0	3.652,838:84:0	
183	96	288	06:23:59.333	125XG4C	37IST	0,2,0,OFF,0,1,3	Gain State 1	1R0	4	0	3.652,839:84:0	
184	96	288	06:25:00.000	125XG4D	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	3.652,840:84:0	
185	96	288	06:25:00.000	125XG11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	3.652,840:84:0	
186	96	288	06:27:01.333	127XG4A	37IOP	3.0	Long Map, Grating Start Position =00	1R3	4	0	3.652,842:84:0	
187	96	288	06:27:01.333	127XG	NIMSTAB	GS	##### GROUP START TAB	1R3	4	0	3.652,842:84:0	
188	96	288	06:27:02.000	127XG4B	37ETB	0A,CA,18,03,FF,1	Loads wavelength edit table	1R3	4	0	3.652,842:85:0	
189	96	288	06:27:10.000	127XG11A	NIMSTAB	GE	##### GROUP END TAB	1R3	4	0	3.652,843:06:0	
190	96	288	06:31:08.666	176XG6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	3.652,847:00:0	
191	96	288	06:34:16.000	20UQ4A	7STAT	17,45,67,957912,	Stator inertial point	1R3	4	0	3.652,850:08:0	
192	96	288	06:37:12.666	192XG4A	7CONE	17,0,119,7	Check S/P Position	1R3	4	0	3.652,853:00:0	
193	96	288	06:39:34.000	432XG6A	6RTSL2	NIMSEL,AAACNCG,RT	NIMS R/T SELECT	1R3	4	0	3.652,856:30:0	
194	96	288	06:40:33.333	432XG6A	6RTDS2	NIMDSL,AAACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3.652,856:28:0	
195	96	288	06:43:16.666	192XG4B	7CONE	17,0,0,0,0	Check S/P Position	1R3	4	0	3.652,859:00:0	
196	96	288	06:45:38.000	432X16A	6RTSL2	NIMSEL,AAACNCG,RT	NIMS R/T SELECT	1R3	4	0	3.652,861:30:0	
197	96	288	06:47:38.000	432YE6A	6RTDS2	NIMDSL,AAACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3.652,863:28:0	
198	96	288	06:49:20.666	192XG4C	7CONE	17,0,119,7	Check S/P Position	1R3	4	0	3.652,865:00:0	
199	96	288	06:51:22.000	185XG10B3A	40HRP		1 RCT Heater OFF (primary relay)	1R3	4	0	3.652,867:00:0	
200	96	288	06:51:42.000	432YF6A	6RTSL2	NIMSEL,AAACNCG,RT	NIMS R/T SELECT	1R3	4	0	3.652,867:30:0	
201	96	288	06:52:41.333	432ZE6A	6RTDS2	NIMDSL,AAACNCG,RT	NIMS R/T DESELECT	1R3	4	0	3.652,868:28:0	
202	96	288	06:55:24.666	192XG4D	7CONE	17,0,153,0	Check S/P Position	1R3	4	0	3.652,871:00:0	
203	96	288	06:56:20.666	127XH	NIMSTAB	GS	##### GROUP START TAB	1R3	4	0	3.652,871:84:0	
204	96	288	06:56:20.666	127XH4A	37IOP	0,0	Safe, Grating Start Position =00	1R0	4	0	3.652,871:84:0	
205	96	288	06:56:21.333	127XH4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	1R0	4	0	3.652,871:85:0	
206	96	288	06:56:29.333	127XH11A	NIMSTAB	GE	##### GROUP END TAB	1R0	4	0	3.652,872:06:0	
207	96	288	06:59:22.666	125XH4A	37MB	0,0,0,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	3.652,874:84:0	
208	96	288	06:59:22.666	125XH	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	3.652,874:84:0	
209	96	288	07:00:23.333	125XH4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	160	4	0	3.652,875:84:0	
210	96	288	07:01:24.000	125XH4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	100	4	0	3.652,875:84:0	
211	96	288	07:01:24.000	125XH11A	NIMSINIT	GE	##### GROUP END INIT	100	4	0	3.652,876:84:0	
212	96	288	07:07:36.666	41JU99A	POWER	PWR MODE change	Change to Playback Mode	100	4	0	3.652,883:06:0	
213	96	288	07:07:40.666	41JU31	40T1PR		1 PCT Heater 1 OFF (primary relay)	100	4	0	3.652,883:12:0	
214	96	288	07:07:50.666	41JU3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3.652,883:27:0	
215	96	288	07:08:00.666	41JU3K	40T2R		1 PCT Heater 2 OFF	100	4	0	3.652,883:42:0	
216	96	288	07:08:10.666	41JU3L	40T2R		2 PCT Heater 2 OFF	100	4	0	3.652,883:57:0	
217	96	288	07:10:20.666	41JU3G	37F2P		1 Shield Flash Heater ON (primary relay)	100	4	0	3.652,885:70:0	
218	96	288	07:10:30.666	41JU3H	37F2P		2 Shield Flash Heater ON (primary relay)	100	4	0	3.652,885:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	96	288	07:17:48.666	20JUN4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3.652,893:14:0	
220	96	288	07:18:38.666	20JUN4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3.652,893:89:0	
221	96	288	07:20:41.333	176XH6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3.652,896:00:0	
222	96	288	07:20:45.333	G2NNRCTRLT02-		---STOP----		100	4	0	:	
223	96	288	08:00:00.000	418JW6A	6BUFHI		7 MUB Buffer high water	100	4	0	3.652,934:80:0	
224	96	288	11:05:34.000	488Y6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.653,118:37:0	
225	96	288	12:28:46.000	488Y6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.653,200:63:0	
226	96	288	12:34:24.666	488Y6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3.653,206:25:0	
227	96	288	13:31:42.000	488Y6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.653,262:85:0	
228	96	288	14:26:06.000	488Y6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.653,316:67:0	
229	96	288	14:43:33.333	488Z6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.653,334:00:0	
230	96	288	15:20:21.333	488Z6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.653,370:36:0	
231	96	288	19:05:34.600	488Z6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.653,593:13:0	
232	96	288	20:33:02.600	488Z6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.653,679:59:0	
233	96	288	21:04:15.933	488AA6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.653,710:48:0	
234	96	288	21:11:26.600	488AA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3.653,717:57:0	
235	96	288	21:57:58.600	488AA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.653,763:59:0	
236	96	288	21:59:59.933	418JX6A	6BUFHI		9 MUB Buffer high water	100	4	0	3.653,765:59:0	
237	96	288	22:49:53.933	176SM6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3.653,815:00:0	
238	96	288	22:53:56.600	176KF6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	100	4	0	3.653,819:00:0	
239	96	288	22:58:58.600	165QC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3.653,823:89:0	
240	96	288	22:58:59.266	165QC4B	7SCAN	NORM,172.917,3.2	Check S/P Position	100	4	0	3.653,823:90:0	
241	96	288	23:34:21.933	165QD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3.653,858:89:0	
242	96	288	23:34:22.600	165QD4B	7SCAN	NORM,172.867998,	Check S/P Position	100	4	0	3.653,858:90:0	
243	96	289	00:13:03.933	20C4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3.653,897:23:0	
244	96	289	00:13:53.933	20C4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3.653,898:07:0	
245	96	289	00:16:51.266	176UL6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3.653,901:00:0	
246	96	289	02:16:29.933	488AA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3.654,019:30:0	
247	96	289	11:03:25.933	488AB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.654,540:43:0	
248	96	289	12:24:07.266	488AB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3.654,620:25:0	
249	96	289	12:28:45.933	488AB6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3.654,624:79:0	
250	96	289	13:11:35.933	488AB6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.654,667:21:0	
251	96	289	13:37:01.933	488AB6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.654,692:35:0	
252	96	289	14:51:41.933	488AC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.654,766:21:0	
253	96	289	18:33:33.933	488AC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.654,985:60:0	
254	96	289	19:50:21.933	488AC6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.655,061:56:0	
255	96	289	20:26:37.933	488AC6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.655,097:44:0	
256	96	289	21:07:09.933	488AD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.655,137:52:0	
257	96	290	02:10:06.533	488AD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3.655,437:17:0	
258	96	290	07:44:59.866	418JY6A	6BUFHI		7 MUB Buffer high water	100	4	0	3.655,768:36:0	
259	96	290	10:59:09.866	488AE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.655,960:39:0	
260	96	290	12:21:55.866	488AE6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3.656,042:26:0	
261	96	290	12:24:29.866	488AE6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3.656,044:75:0	
262	96	290	13:21:28.533	488AE6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.656,101:16:0	
263	96	290	14:21:49.866	488AE6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.656,160:79:0	
264	96	290	14:33:47.200	488AF6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.656,172:63:0	
265	96	290	15:10:35.866	488AF6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.656,209:09:0	
266	96	290	18:54:53.866	488AF6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.656,430:85:0	
267	96	290	20:26:37.866	488AF6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.656,521:60:0	
268	96	290	21:00:45.866	488AG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.656,555:38:0	
269	96	290	21:20:54.533	488AG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3.656,575:31:0	
270	96	290	21:48:12.533	488AG6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.656,602:31:0	
271	96	291	01:59:59.866	418JK6A	6BUFHI		7 MUB Buffer high water	100	4	0	3.656,851:33:0	
272	96	291	02:10:05.866	488AG6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3.656,861:32:0	
273	96	291	10:54:54.466	488AH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.657,380:36:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	291	12:12:19.133	488AH6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,657,456:87:0	
275	96	291	12:20:14.466	488AH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,657,464:72:0	
276	96	291	14:22:20.466	488AH6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,657,585:50:0	
277	96	291	14:47:25.800	488AH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,657,610:33:0	
278	96	291	18:25:01.800	488AH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,657,825:52:0	
279	96	291	19:39:41.800	488AH6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,657,899:38:0	
280	96	291	20:52:13.800	488AH6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,657,971:14:0	
281	96	291	21:38:56.466	488AH6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,658,017:32:0	
282	96	291	22:15:44.466	488AH6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,658,053:68:0	
283	96	291	22:41:01.800	488AH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,658,078:69:0	
284	96	292	01:50:53.800	488AH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,658,266:49:0	
285	96	292	05:08:49.800	488AH6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	100	4	0	3,658,462:27:0	
286	96	292	05:27:01.800	488AH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,658,480:27:0	
287	96	292	06:16:16.466	176TS6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,658,529:00:0	
288	96	292	06:19:59.800	41T99A	POWER	PWR MODE change	Change to Caillb/Decon Mode	100	4	0	3,658,532:62:0	
289	96	292	06:20:03.800	41T3G	37F2PR		1 Shield Flash Heater OFF (primary relay)	100	4	0	3,658,532:68:0	
290	96	292	06:20:13.800	41T3H	37F2PR		2 Shield Flash Heater OFF (primary relay)	100	4	0	3,658,532:83:0	
291	96	292	06:20:23.800	41T3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	100	4	0	3,658,533:07:0	
292	96	292	06:20:33.800	41T3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3,658,533:22:0	
293	96	292	06:20:43.800	41T3K	40T2R		1 PCT Heater 2 OFF	100	4	0	3,658,533:37:0	
294	96	292	06:20:53.800	41T3L	40T2R		2 PCT Heater 2 OFF	100	4	0	3,658,533:52:0	
295	96	292	10:48:30.400	488AK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,658,798:22:0	
296	96	292	12:11:29.066	488AL6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,658,880:28:0	
297	96	292	12:13:50.400	488AL6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,658,882:58:0	
298	96	292	13:16:15.066	488AL6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,658,944:33:0	
299	96	292	14:09:59.733	41UA99A	POWER	PWR MODE change	Change to Playback Mode	100	4	0	3,658,997:47:0	
300	96	292	14:10:03.733	41UA3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	100	4	0	3,658,997:53:0	
301	96	292	14:10:13.733	41UA3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3,658,997:68:0	
302	96	292	14:10:23.733	41UA3K	40T2R		1 PCT Heater 2 OFF	100	4	0	3,658,997:83:0	
303	96	292	14:10:33.733	41UA3L	40T2R		2 PCT Heater 2 OFF	100	4	0	3,658,998:07:0	
304	96	292	14:12:43.733	41UA3G	37F2P		1 Shield Flash Heater ON (primary relay)	100	4	0	3,659,000:20:0	
305	96	292	14:12:53.733	41UA3H	37F2P		2 Shield Flash Heater ON (primary relay)	100	4	0	3,659,000:35:0	
306	96	292	14:17:34.400	488AL6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,659,005:01:0	
307	96	292	14:20:03.733	20D4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3,659,007:43:0	
308	96	292	14:20:53.733	20D4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,659,008:27:0	
309	96	292	14:23:37.733	176TT6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,659,011:00:0	
310	96	292	14:29:01.733	488AL6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,659,016:31:0	
311	96	292	15:05:49.733	488AM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,659,052:67:0	
312	96	292	18:44:14.400	488AM6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,659,268:68:0	
313	96	292	20:15:57.733	488AM6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,659,359:42:0	
314	96	292	20:56:29.733	488AM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,659,399:50:0	
315	96	292	21:16:08.400	488AN6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,659,418:89:0	
316	96	292	21:29:59.733	418JL6A	6BUFHI		10 MUB Buffer high water	100	4	0	3,659,432:62:0	
317	96	292	21:43:26.400	488AN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,659,445:89:0	
318	96	293	02:05:49.733	488AN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,659,705:44:0	
319	96	293	10:44:13.733	488AO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,660,218:17:0	
320	96	293	12:09:47.066	488AO6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,660,302:73:0	
321	96	293	12:13:49.733	488AO6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3,660,306:73:0	
322	96	293	12:50:05.733	488AO6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,660,342:61:0	
323	96	293	13:01:07.733	488AO6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,660,353:53:0	
324	96	293	13:26:21.733	488AP6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,660,378:49:0	
325	96	293	14:41:01.733	488AP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,660,452:35:0	
326	96	293	15:59:29.066	432JE6B	6RTDS2	NIMNCG,ACDLSLRT	AACS DESELECT	100	4	0	3,660,529:89:0	
327	96	293	16:00:37.066	432JX431A6A	6RCDLSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	100	4	0	3,660,531:09:0	
328	96	293	16:00:37.733	432JX6A	6RTSL1		R/T Select of DDS and	100	4	0	3,660,531:10:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	96	293	16:00:37.733	432JX6B	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	100	4	0	3,660,531:10:0	
330	96	293	18:14:22.333	488AP6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,660,663:35:0	
331	96	293	19:33:18.333	488AQ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,660,741:41:0	
332	96	293	20:15:58.333	488AQ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,660,783:59:0	
333	96	293	20:56:30.333	488AQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,660,823:67:0	
334	96	294	01:59:25.666	488AR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,661,123:30:0	
335	96	294	10:39:57.666	488AS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,661,638:13:0	
336	96	294	12:06:44.333	488AS6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,661,723:88:0	
337	96	294	12:09:33.666	488AS6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,661,726:69:0	
338	96	294	12:56:01.000	488AS6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,661,772:64:0	
339	96	294	13:22:05.666	488AS6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,661,798:45:0	
340	96	294	14:36:45.666	488AT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,661,872:31:0	
341	96	294	18:07:57.666	488AT6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,662,081:20:0	
342	96	294	19:29:01.666	488AT6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,662,161:36:0	
343	96	294	20:11:41.666	488AT6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,662,203:54:0	
344	96	294	20:52:13.666	488AU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,662,243:62:0	
345	96	294	22:19:30.333	176SQ6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,662,330:00:0	
346	96	294	22:23:33.000	176KG6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	100	4	0	3,662,334:00:0	
347	96	294	22:28:35.000	165QE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3,662,338:89:0	
348	96	294	22:28:35.666	165QE4B	7SCAN	NORM,170,7239999,	Check S/P Position	100	4	0	3,662,338:90:0	
349	96	294	23:03:58.266	165QF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3,662,373:89:0	
350	96	294	23:03:58.933	165QF4B	7SCAN	NORM,170,8089999,	Check S/P Position	100	4	0	3,662,373:90:0	
351	96	294	23:43:04.266	20E4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3,662,412:59:0	
352	96	294	23:43:54.266	20E4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,662,413:43:0	
353	96	294	23:46:27.600	176UP6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,662,416:00:0	
354	96	295	00:00:00.266	481UE4A	7VECT		Inert vect update UTC	100	4	0	3,662,429:36:0	
355	96	295	01:59:26.266	488AU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,662,547:47:0	
356	96	295	10:33:33.600	488AV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,663,055:90:0	
357	96	295	12:00:58.933	488AV6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,663,142:41:0	
358	96	295	12:03:09.600	488AV6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,663,144:55:0	
359	96	295	13:05:54.933	488AV6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,663,206:61:0	
360	96	295	14:11:09.600	488AV6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,663,271:18:0	
361	96	295	14:19:21.600	488AV6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3,663,279:28:0	
362	96	295	14:56:09.600	488AV6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,663,315:64:0	
363	96	295	16:00:00.266	488AV6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,663,378:77:0	
364	96	295	16:52:20.266	488AV6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,663,430:55:0	
365	96	295	18:12:40.266	488AV6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,663,510:05:0	
366	96	295	18:29:17.600	488AX6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,663,526:45:0	
367	96	295	20:05:17.600	488AX6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,663,621:40:0	
368	96	295	20:52:13.600	488AX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,663,667:78:0	
369	96	295	21:06:28.266	488AX6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,663,681:86:0	
370	96	295	21:33:46.933	488AX6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,663,708:87:0	
371	96	295	21:54:02.933	176SR6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,663,729:00:0	
372	96	295	21:58:05.600	176KH6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	100	4	0	3,663,733:00:0	
373	96	295	22:04:08.266	165QG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3,663,738:89:0	
374	96	295	22:04:08.933	165QG4B	7SCAN	NORM,177,7209999,	Check S/P Position	100	4	0	3,663,738:90:0	
375	96	295	22:38:30.933	165QH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3,663,772:89:0	
376	96	295	22:38:31.600	165QH4B	7SCAN	NORM,177,8099999,	Check S/P Position	100	4	0	3,663,772:90:0	
377	96	295	23:18:04.266	20F4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3,663,812:09:0	
378	96	295	23:18:54.266	20F4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,663,812:84:0	
379	96	295	23:21:00.266	176UQ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,663,815:00:0	
380	96	296	01:55:09.600	488AY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3,663,967:42:0	
381	96	296	10:00:08.866	432JY6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	100	4	0	3,664,447:11:0	
382	96	296	10:29:18.200	488AZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,664,475:87:0	
383	96	296	11:58:46.866	488AZ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3,664,564:41:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	96	296	11:58:54.200	488AZ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3,664,564:52:0	
385	96	296	12:50:48.200	488AZ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3,664,615:82:0	
386	96	296	13:15:42.200	488AZ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3,664,640:48:0	
387	96	296	14:36:45.533	488BA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3,664,720:63:0	
388	96	296	14:49:12.200	176SS6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,664,733:00:0	
389	96	296	14:53:14.866	176KI6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	100	4	0	3,664,737:00:0	
390	96	296	14:59:17.533	165QJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3,664,742:89:0	
391	96	296	14:59:18.200	165QJ4B	7SCAN	NORM,170.723,4.0	Check S/P Position	100	4	0	3,664,742:90:0	
392	96	296	15:33:40.200	165QJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3,664,776:89:0	
393	96	296	15:33:40.866	165QJ4B	7SCAN	NORM,170.776999,	Check S/P Position	100	4	0	3,664,776:90:0	
394	96	296	16:13:04.200	20G4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3,664,815:86:0	
395	96	296	16:13:54.200	20G4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,664,816:70:0	
396	96	296	16:16:09.533	176UR6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3,664,819:00:0	
397	96	296	16:55:35.533	176SP6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3,664,858:00:0	
398	96	296	17:00:00.200	41VA99A	POWER	PWR MODE change	Change to Maneuver Mode	100	4	0	3,664,862:33:0	
399	96	296	17:00:04.200	41VA3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	100	4	0	3,664,862:39:0	
400	96	296	17:00:14.200	41VA3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	100	4	0	3,664,862:54:0	
401	96	296	17:02:24.200	41VA3G	40T1P		1 PCT Heater 1 ON (primary relay)	100	4	0	3,664,864:67:0	
402	96	296	17:02:34.200	41VA3H	40T1P		2 PCT Heater 1 ON (primary relay)	100	4	0	3,664,864:82:0	
403	96	296	17:02:44.200	41VA3I	40T2		1 PCT Heater 2 ON	100	4	0	3,664,865:06:0	
404	96	296	17:02:54.200	41VA3J	40T2		2 PCT Heater 2 ON	100	4	0	3,664,865:21:0	
405	96	296	17:03:00.200	488BA6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	100	4	0	3,664,865:30:0	
406	96	296	17:12:00.200	20JU4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3,664,874:21:0	
407	96	296	17:13:00.200	20JU4D	7MODE	SPNL	AACS ALL-SPIN LOW	100	4	0	3,664,875:20:0	
408	96	296	17:15:00.200	20JU4E	7SAFE	UNSTOW	S/P TO 153 deg cone	100	4	0	3,664,877:18:0	
409	96	296	17:20:30.200	20JU4G	7VENT	0.611,1.333,8	ALERT - Thnuster fire	100	4	0	3,664,882:58:0	
410	96	296	17:20:30.866	20JU4H	7VENT	0.611,10.989,8	ALERT - Thnuster fire	100	4	0	3,664,882:59:0	
411	96	296	17:20:50.866	20JU4I	7VENT	0.611,1.333,6	ALERT - Thnuster fire	100	4	0	3,664,882:89:0	
412	96	296	17:20:51.533	20JU4J	7VENT	0.611,10.989,6	ALERT - Thnuster fire	100	4	0	3,664,882:90:0	
413	96	296	17:21:11.533	20JU4K	7VENT	0.611,1.333,4	ALERT - Thnuster fire	100	4	0	3,664,883:29:0	
414	96	296	17:21:22.200	20JU4L	7VENT	0.611,0.666,5	ALERT - Thnuster fire	100	4	0	3,664,883:30:0	
415	96	296	17:21:22.200	20JU4M	7VENT	0.611,1.333,4	ALERT - Thnuster fire	100	4	0	3,664,883:45:0	
416	96	296	17:21:22.866	20JU4N	7VENT	0.611,0.666,5	ALERT - Thnuster fire	100	4	0	3,664,883:46:0	
417	96	296	17:21:32.866	20JU4O	7VENT	1.211,1.333,10	ALERT - Thnuster fire	100	4	0	3,664,883:61:0	
418	96	296	17:21:33.533	20JU4P	7VENT	1.211,0.666,12	ALERT - Thnuster fire	100	4	0	3,664,883:62:0	
419	96	296	17:23:20.200	20JU4S	7VENT	0.611,1.333,7	ALERT - Thnuster fire	100	4	0	3,664,885:40:0	
420	96	296	17:23:20.866	20JU4T	7VENT	0.611,10.989,7	ALERT - Thnuster fire	100	4	0	3,664,885:41:0	
421	96	296	17:23:40.866	20JU4U	7VENT	0.611,1.333,1	ALERT - Thnuster fire	100	4	0	3,664,885:71:0	
422	96	296	17:23:41.533	20JU4V	7VENT	0.611,10.989,1	ALERT - Thnuster fire	100	4	0	3,664,885:72:0	
423	96	296	17:24:01.533	20JU4AC	7VENT	0.611,1.333,2	ALERT - Thnuster fire	100	4	0	3,664,886:11:0	
424	96	296	17:24:02.200	20JU4AD	7VENT	0.611,0.666,3	ALERT - Thnuster fire	100	4	0	3,664,886:12:0	
425	96	296	17:24:12.200	20JU4AE	7VENT	0.611,1.333,2	ALERT - Thnuster fire	100	4	0	3,664,886:27:0	
426	96	296	17:24:12.866	20JU4AF	7VENT	0.611,0.666,3	ALERT - Thnuster fire	100	4	0	3,664,886:28:0	
427	96	296	17:24:22.866	20JU4AW	7VENT	1.211,1.333,9	ALERT - Thnuster fire	100	4	0	3,664,886:43:0	
428	96	296	17:24:23.533	20JU4AX	7VENT	1.211,0.666,11	ALERT - Thnuster fire	100	4	0	3,664,886:44:0	
429	96	296	17:25:20.200	20JU4AZ	7MODE	CRU	AACS CRUISE MODE	100	4	0	3,664,887:38:0	
430	96	296	17:50:00.200	41UB99A	POWER	PWR MODE change	Change to Playback Mode	100	4	0	3,664,911:74:0	
431	96	296	17:50:04.200	41UB3I	40T1PR		1 PCT Heater 1 OFF (primary relay)	100	4	0	3,664,911:80:0	
432	96	296	17:50:14.200	41UB3J	40T1PR		2 PCT Heater 1 OFF (primary relay)	100	4	0	3,664,912:04:0	
433	96	296	17:50:24.200	41UB3K	40T2R		1 PCT Heater 2 OFF	100	4	0	3,664,912:19:0	
434	96	296	17:50:34.200	41UB3L	40T2R		2 PCT Heater 2 OFF	100	4	0	3,664,912:34:0	
435	96	296	17:52:44.200	41UB3G	37F2P		1 Shield Flash Heater ON (primary relay)	100	4	0	3,664,914:47:0	
436	96	296	17:52:54.200	41UB3H	37F2P		2 Shield Flash Heater ON (primary relay)	100	4	0	3,664,914:62:0	
437	96	296	17:52:55.533	488BA6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	100	4	0	3,664,921:12:0	
438	96	296	18:00:04.200	20H4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3,664,921:70:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	96	296	18:00:54.200	20H4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3.664,922:54:0	
440	96	296	18:03:20.200	176UO6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3.664,925:00:0	
441	96	296	19:11:00.200	488BA6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.664,991:84:0	
442	96	296	19:18:21.533	488BA6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.664,999:18:0	
443	96	296	20:35:09.533	488BB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.665,075:14:0	
444	96	296	21:24:30.200	488BB6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.665,123:87:0	
445	96	296	22:01:18.866	488BB6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.665,160:33:0	
446	96	296	22:45:17.533	488BB6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.665,203:78:0	
447	96	297	00:49:01.533	488BB6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.665,326:21:0	
448	96	297	01:09:31.533	488BC6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.665,346:46:0	
449	96	297	01:46:19.533	488BC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.665,382:82:0	
450	96	297	01:55:31.533	176TK6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3.665,392:00:0	
451	96	297	02:03:41.533	488BC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.665,400:07:0	
452	96	297	04:00:04.200	20JL4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3.665,515:16:0	
453	96	297	04:00:54.200	20JL4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3.665,516:00:0	
454	96	297	04:03:56.200	176VL6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3.665,519:00:0	
455	96	297	05:09:39.533	176ST6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3.665,584:00:0	
456	96	297	05:13:42.200	176KJ6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	100	4	0	3.665,588:00:0	
457	96	297	05:18:44.200	165QK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3.665,592:89:0	
458	96	297	05:18:44.866	165QK4B	7SCAN	NORM,169.688,4.4	Check S/P Position	100	4	0	3.665,592:90:0	
459	96	297	05:54:07.533	165QL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3.665,627:89:0	
460	96	297	05:54:08.200	165QL4B	7SCAN	NORM,169.745998,	Check S/P Position	100	4	0	3.665,627:90:0	
461	96	297	06:33:04.200	20JK4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3.665,666:45:0	
462	96	297	06:33:54.200	20JK4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3.665,667:29:0	
463	96	297	06:36:36.866	176US6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3.665,670:00:0	
464	96	297	10:18:37.533	488BD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.665,889:52:0	
465	96	297	11:37:34.133	488BD6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.665,967:59:0	
466	96	297	11:53:23.466	488BD6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3.665,983:27:0	
467	96	297	12:45:42.133	488BD6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.666,035:03:0	
468	96	297	13:11:26.133	488BD6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.666,060:44:0	
469	96	297	13:34:34.800	488BE6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.666,083:34:0	
470	96	297	14:08:42.800	488BE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.666,117:12:0	
471	96	297	14:36:46.133	488BE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.666,144:80:0	
472	96	297	14:36:46.800	20XX6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3.666,144:81:0	
473	96	297	15:49:18.133	20XX6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.666,216:56:0	
474	96	297	16:49:02.133	20XX6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3.666,275:63:0	
475	96	297	17:48:46.133	20XX6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.666,334:70:0	
476	96	297	17:53:02.133	488BE6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.666,338:90:0	
477	96	297	19:18:22.133	488BE6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.666,423:35:0	
478	96	297	19:28:21.466	488BF6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3.666,433:24:0	
479	96	297	19:50:22.133	488BF6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	100	4	0	3.666,455:03:0	
480	96	298	03:03:30.800	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3.666,883:38:0	
481	96	298	10:18:37.466	488BH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.667,313:68:0	
482	96	298	11:49:48.800	488BH6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3.667,403:85:0	
483	96	298	11:52:29.466	488BH6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	100	4	0	3.667,406:53:0	
484	96	298	12:28:45.466	488BH6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3.667,442:41:0	
485	96	298	14:50:13.466	488BH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.667,582:33:0	
486	96	298	16:04:34.133	488BI6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3.667,655:81:0	
487	96	298	16:50:13.466	488BI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.667,701:04:0	
488	96	298	17:48:46.066	488BI6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.667,758:86:0	
489	96	298	19:13:38.066	488BI6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.667,842:80:0	
490	96	298	19:14:06.066	488BI6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3.667,843:31:0	
491	96	298	23:50:32.066	488BJ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.668,116:67:0	
492	96	299	00:17:02.066	488BJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.668,142:86:0	
493	96	299	01:35:58.066	488BJ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3.668,221:01:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	96	299	05:34:34.733	176SV6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3.668	457:00:0
495	96	299	05:38:37.400	176KK6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	100	4	0	3.668	461:00:0
496	96	299	05:43:39.400	165QM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3.668	465:89:0
497	96	299	05:43:40.066	165QM4B	7SCAN	NORM,177.873999,	Check S/P Position	100	4	0	3.668	465:90:0
498	96	299	06:19:02.733	165QN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3.668	500:89:0
499	96	299	06:19:03.400	165QN4B	7SCAN	NORM,177.727999,	Check S/P Position	100	4	0	3.668	500:90:0
500	96	299	06:58:04.066	20J4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3.668	539:52:0
501	96	299	06:58:54.066	20J4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3.668	540:36:0
502	96	299	07:01:32.066	176JU6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3.668	543:00:0
503	96	299	10:14:21.400	488BK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.668	733:64:0
504	96	299	11:45:47.400	488BK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3.668	824:12:0
505	96	299	11:48:13.400	488BK6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3.668	826:49:0
506	96	299	12:55:28.733	488BK6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	100	4	0	3.668	893:05:0
507	96	299	14:03:25.400	488BK6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	100	4	0	3.668	960:23:0
508	96	299	14:06:53.400	488BL6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.668	963:62:0
509	96	299	14:41:35.400	488BL6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.668	998:00:0
510	96	299	17:59:22.733	488BL6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	100	4	0	3.669	193:56:0
511	96	299	20:01:26.733	488BL6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	100	4	0	3.669	314:31:0
512	96	299	20:41:33.400	488BM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.669	354:01:0
513	96	299	20:51:54.066	488BM6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	100	4	0	3.669	364:22:0
514	96	299	21:19:12.733	488BM6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.669	391:23:0
515	96	299	22:00:00.066	488BM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.669	431:54:0
516	96	299	22:52:20.066	488BM6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.669	483:32:0
517	96	300	00:12:40.000	488BN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	100	4	0	3.669	562:73:0
518	96	300	01:48:46.000	488BN6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	100	4	0	3.669	657:77:0
519	96	300	07:04:23.333	176SW6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3.669	970:00:0
520	96	300	07:08:26.000	176KL6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	100	4	0	3.669	974:00:0
521	96	300	07:13:28.000	165QO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3.669	978:89:0
522	96	300	07:13:28.666	165QO4B	7SCAN	NORM,187.046999,	Check S/P Position	100	4	0	3.669	978:90:0
523	96	300	07:48:51.333	165QP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	100	4	0	3.670	013:89:0
524	96	300	07:48:52.000	165QP4B	7SCAN	NORM,187.123999,	Check S/P Position	100	4	0	3.670	013:90:0
525	96	300	08:28:04.000	20K4A	7SAFE	STOP	S/P NO MOVEMENT	100	4	0	3.670	052:69:0
526	96	300	08:28:54.000	20K4B	7SLEW	DIS,POS,0.0	Stator movement	100	4	0	3.670	053:53:0
527	96	300	08:31:20.666	176UV6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	100	4	0	3.670	056:00:0
528	96	300	09:56:16.666	176SC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	100	4	0	3.670	140:00:0
529	96	300	09:57:23.999	G2NNOPCAL_02-		---START----		100	4	0	:	:
530	96	300	09:58:13.333	125FG4A	37IST	1.0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	160	4	0	3.670	141:84:0
531	96	300	09:58:13.333	125FG	NIMSINIT	GS	##### GROUP START INIT	160	4	0	3.670	141:84:0
532	96	300	09:59:14.000	125FG4B	37IST	1.2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	1R0	4	0	3.670	142:84:0
533	96	300	10:00:14.666	125FG4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	3.670	143:84:0
534	96	300	10:00:14.666	125FG11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	3.670	143:84:0
535	96	300	10:05:29.333	20DX4A	7SAFE	UNSTOW	S/P TO 153 deg cone	1R0	4	0	3.670	149:10:0
536	96	300	10:07:57.333	488BO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1R0	4	0	3.670	151:50:0
537	96	300	10:09:20.666	125DA4A	37IST	0,0,0,OFF,0,1,1	Gain State 4	4R0	4	0	3.670	152:84:0
538	96	300	10:09:20.666	125DA	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	3.670	152:84:0
539	96	300	10:10:21.333	125DA4B	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	3.670	153:84:0
540	96	300	10:10:21.333	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3.670	153:84:0
541	96	300	10:11:22.000	127DA4A	37IOP	3.0	Long Map, Grating Start Position =0	4R3	4	0	3.670	154:84:0
542	96	300	10:11:22.000	127DA	NIMSTAB	GS	##### GROUP START TAB	4R3	4	0	3.670	154:84:0
543	96	300	10:11:22.666	127DA4B	37ETB	07,C7,31,80,00,0	Loads wavelength edit table	4R3	4	0	3.670	154:85:0
544	96	300	10:11:33.333	127DA11A	NIMSTAB	GE	##### GROUP END TAB	4R3	4	0	3.670	155:10:0
545	96	300	10:11:46.666	432DA6A	6RTSL2	NIMSEL,AAACNCG,RT	NIMS R/T SELECT	4R3	4	0	3.670	155:30:0
546	96	300	10:12:22.666	125DI4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	3.670	155:84:0
547	96	300	10:12:22.666	125DI	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3.670	155:84:0
548	96	300	10:12:22.666	125DI11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3.670	155:84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	96	300	10:14:24.000	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3.670,157:84:0	
550	96	300	10:14:24.000	125DJ4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	3.670,157:84:0	
551	96	300	10:14:24.000	125DJ	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3.670,157:84:0	
552	96	300	10:14:47.333	432DI6A	6RTDS2	NIMDSL, AACNCG, RT	NIMS R/T DESELECT	4R3	4	0	3.670,158:28:0	
553	96	300	10:16:25.333	125EU4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R3	4	0	3.670,159:84:0	
554	96	300	10:16:25.333	125EU	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3.670,159:84:0	
555	96	300	10:16:25.333	125EU11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3.670,159:84:0	
556	96	300	10:20:28.000	127FS4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	3.670,163:84:0	
557	96	300	10:20:28.000	127FS	NIMSTAB	GS	%%%%%%%% GROUP START TAB	4R0	4	0	3.670,163:84:0	
558	96	300	10:20:28.666	127FS4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	3.670,163:85:0	
559	96	300	10:20:39.333	127FS11A	NIMSTAB	GE	%%%%%%%% GROUP END TAB	4R0	4	0	3.670,164:10:0	
560	96	300	10:23:30.000	125FZ	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	3.670,166:84:0	
561	96	300	10:23:30.000	125FZ4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	3.670,166:84:0	
562	96	300	10:24:30.666	125FZ4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	3.670,167:84:0	
563	96	300	10:25:31.333	125FZ11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	3.670,168:84:0	
564	96	300	10:25:31.333	125FZ4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, NA, 63Hz (Ref)	400	4	0	3.670,168:84:0	
565	96	300	10:25:42.666	G2NNOPCAL_02-		---STOP---		400	4	0	:	:
566	96	300	10:31:04.000	20W4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	3.670,174:37:0	
567	96	300	10:31:54.000	20W4B	7SLEW	DIS,POS,0,0	Stator movement	400	4	0	3.670,175:21:0	
568	96	300	10:34:42.000	176TC6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.670,178:00:0	
569	96	300	11:43:57.333	488BO6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.670,246:45:0	
570	96	300	11:52:03.333	488BO6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.670,254:46:0	
571	96	300	12:26:56.000	176SX6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3.670,289:00:0	
572	96	300	12:30:58.666	176KM6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	400	4	0	3.670,293:00:0	
573	96	300	12:35:22.000	488BO6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.670,297:31:0	
574	96	300	12:36:00.666	165QQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.670,297:89:0	
575	96	300	12:36:01.333	165QQ4B	7SCAN	NORM,177.681,0,7	Check S/P Position	400	4	0	3.670,297:90:0	
576	96	300	13:05:01.333	488BO6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.670,326:61:0	
577	96	300	13:31:37.333	165QR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.670,352:89:0	
578	96	300	13:31:38.000	165QR4B	7SCAN	NORM,177.922998,	Check S/P Position	400	4	0	3.670,352:90:0	
579	96	300	14:11:04.000	20L4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	3.670,391:90:0	
580	96	300	14:11:54.000	20L4B	7SLEW	DIS,POS,0,0	Stator movement	400	4	0	3.670,392:74:0	
581	96	300	14:14:06.666	176UW6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.670,395:00:0	
582	96	300	14:36:45.333	488BP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.670,417:36:0	
583	96	300	17:33:49.333	488BP6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.670,592:47:0	
584	96	300	17:48:28.000	176SY6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3.670,607:00:0	
585	96	300	17:52:30.666	176KN6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	400	4	0	3.670,611:00:0	
586	96	300	17:57:32.666	165QS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.670,615:89:0	
587	96	300	17:57:33.333	165QS4B	7SCAN	NORM,189.917999,	Check S/P Position	400	4	0	3.670,615:90:0	
588	96	300	18:22:49.333	165QT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.670,640:89:0	
589	96	300	18:22:50.000	165QT4B	7SCAN	NORM,189.931,-5,	Check S/P Position	400	4	0	3.670,640:90:0	
590	96	300	18:55:04.000	20M4A	7SAFE	STOP	S/P NO MOVEMENT	400	4	0	3.670,672:79:0	
591	96	300	18:55:54.000	20M4B	7SLEW	DIS,POS,0,0	Stator movement	400	4	0	3.670,673:63:0	
592	96	300	18:58:14.000	176VA6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.670,676:00:0	
593	96	300	19:03:25.333	488BP6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.670,681:12:0	
594	96	300	19:56:45.333	488BP6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.670,733:80:0	
595	96	300	20:35:09.333	488BP6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.670,771:78:0	
596	96	301	01:48:45.333	488BQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3.671,082:01:0	
597	96	301	10:03:41.933	488BR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.671,571:47:0	
598	96	301	11:37:33.933	488BR6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.671,664:32:0	
599	96	301	11:37:57.266	488BR6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.671,664:67:0	
600	96	301	12:35:15.933	488BR6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.671,721:38:0	
601	96	301	13:00:45.933	488BR6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.671,746:58:0	
602	96	301	14:34:37.933	488BS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.671,839:43:0	
603	96	301	17:23:09.266	488BS6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.672,006:13:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	96	301	18:02:25.266	431ZL6A	6RODSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS 0	400	4	0	3.672,044:89:0	
605	96	301	18:06:35.933	20ZM6A	6EUVON			400	4	0	3.672,049:10:0	
606	96	301	18:07:29.933	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	400	4	0	3.672,050:00:0	
607	96	301	18:30:45.266	176BA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3.672,073:00:0	
608	96	301	18:33:45.933	165BE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.672,075:89:0	
609	96	301	18:33:46.600	165BE4B	7SCAN	NORM,190.089998,	Check S/P Position	400	4	0	3.672,075:90:0	
610	96	301	18:36:55.933	432BE6B	6RTSL2	NIMNCG,AAACSEL,RT	AACS SELECT	400	4	0	3.672,079:10:0	
611	96	301	18:37:47.933	20JA4A	7CONE	17.45,90.729	Check S/P Position	400	4	0	3.672,079:88:0	
612	96	301	18:38:23.933	20JA4B	7STAT	17.45,268.662,64	Stator inertial point	400	4	0	3.672,080:51:0	
613	96	301	18:38:50.600	176BB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.672,081:00:0	
614	96	301	18:59:09.266	488BS6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.672,101:08:0	
615	96	301	19:50:21.266	488BS6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.672,151:66:0	
616	96	301	20:35:09.266	488BT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.672,196:03:0	
617	96	302	01:44:29.266	488BT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3.672,501:88:0	
618	96	302	06:59:59.933	418JM6A	6BUFHI		8 MUB Buffer high water	400	4	0	3.672,814:01:0	
619	96	302	09:57:17.266	488BU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.672,989:32:0	
620	96	302	11:33:09.933	488BU6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3.673,084:16:0	
621	96	302	11:33:17.266	488BU6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.673,084:27:0	
622	96	302	12:50:09.866	488BU6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.673,160:30:0	
623	96	302	13:49:12.533	488BU6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.673,218:66:0	
624	96	302	14:04:45.866	488BV6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3.673,234:10:0	
625	96	302	14:31:54.533	488BV6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.673,260:87:0	
626	96	302	17:48:45.866	488BV6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.673,455:59:0	
627	96	302	19:06:16.533	488BV6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.673,532:28:0	
628	96	302	19:18:21.866	488BV6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3.673,544:24:0	
629	96	302	19:54:37.866	488BW6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3.673,580:12:0	
630	96	302	20:06:07.866	488BW6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.673,591:46:0	
631	96	302	20:35:09.866	488BW6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.673,620:20:0	
632	96	302	20:42:13.200	488BW6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3.673,627:18:0	
633	96	302	21:09:31.866	488BW6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.673,654:19:0	
634	96	302	21:44:59.866	418JN6A	6BUFHI		10 MUB Buffer high water	400	4	0	3.673,689:26:0	
635	96	303	01:44:29.200	488BX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3.673,926:13:0	
636	96	303	02:23:46.533	176TL6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3.673,965:00:0	
637	96	303	02:28:49.866	176KO6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	400	4	0	3.673,970:00:0	
638	96	303	02:33:51.866	165QU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.673,974:89:0	
639	96	303	02:33:52.533	165QU4B	7SCAN	NORM,205.127998,	Check S/P Position	400	4	0	3.673,999:89:0	
640	96	303	02:59:08.533	165QV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.673,999:90:0	
641	96	303	02:59:09.200	165QV4B	7SCAN	NORM,205.184999,	Check S/P Position	400	4	0	3.673,999:90:0	
642	96	303	04:00:49.200	165BG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.674,060:89:0	
643	96	303	04:00:49.866	165BG4B	7SCAN	NORM,192.314999,	Check S/P Position	400	4	0	3.674,060:90:0	
644	96	303	04:02:03.866	20JB4A	7CONE	17.45,91.934	Check S/P Position	400	4	0	3.674,062:19:0	
645	96	303	04:02:39.866	20JB4B	7STAT	17.45,270.380,64	Stator inertial point	400	4	0	3.674,062:73:0	
646	96	303	08:38:53.866	176VB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.674,336:00:0	
647	96	303	09:53:01.200	488BY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.674,409:28:0	
648	96	303	11:30:37.200	488BY6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3.674,505:76:0	
649	96	303	11:33:17.200	488BY6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.674,508:43:0	
650	96	303	12:45:02.533	488BY6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.674,579:40:0	
651	96	303	13:43:58.533	488BY6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.674,637:66:0	
652	96	303	14:09:31.866	176BG6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3.674,663:00:0	
653	96	303	14:12:32.533	165BH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.674,665:89:0	
654	96	303	14:12:33.200	165BH4B	7SCAN	NORM,193.546999,	Check S/P Position	400	4	0	3.674,665:90:0	
655	96	303	14:14:37.200	20JC4A	7CONE	17.45,93.284	Check S/P Position	400	4	0	3.674,668:03:0	
656	96	303	14:15:13.200	20JC4B	7STAT	17.45,270.371,64	Stator inertial point	400	4	0	3.674,668:57:0	
657	96	303	14:17:37.200	176BH6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.674,671:00:0	
658	96	303	14:28:13.200	488BZ6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3.674,681:44:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	96	303	14:36:26.533	488BZ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.674,689:56:0	
660	96	303	15:59:59.866	488BZ6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	3.674,772:23:0	
661	96	303	16:52:19.866	488BZ6D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	3.674,824:01:0	
662	96	303	17:38:05.200	488BZ6E	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	400	4	0	3.674,869:24:0	
663	96	303	18:12:39.800	488CA6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.674,903:42:0	
664	96	303	18:27:43.133	488CA6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.674,918:32:0	
665	96	303	19:30:01.800	488CA6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.674,979:89:0	
666	96	303	19:48:13.800	488CA6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.674,997:89:0	
667	96	303	20:10:14.466	488CA6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3.675,019:68:0	
668	96	303	20:39:25.800	488CB6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3.675,048:56:0	
669	96	303	20:43:25.133	488CB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.675,052:51:0	
670	96	303	23:44:51.133	176TA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3.675,232:00:0	
671	96	303	23:48:53.800	176KP6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	400	4	0	3.675,236:00:0	
672	96	303	23:53:55.800	165QW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.675,240:89:0	
673	96	303	23:53:56.466	165QW4B	7SCAN	NORM,210.927999,	Check S/P Position	400	4	0	3.675,240:90:0	
674	96	304	00:29:19.133	165QX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.675,275:89:0	
675	96	304	00:29:19.800	165QX4B	7SCAN	NORM,211.004,-13	Check S/P Position	400	4	0	3.675,275:90:0	
676	96	304	01:09:45.800	165BI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.675,315:89:0	
677	96	304	01:09:46.466	165BI4B	7SCAN	NORM,190.303999,	Check S/P Position	400	4	0	3.675,315:90:0	
678	96	304	01:11:49.800	20UD4A	7CONE	17.45,90.000233	Check S/P Position	400	4	0	3.675,318:02:0	
679	96	304	01:12:25.800	20UD4B	7STAT	17.45,269.024398	Stator inertial point	400	4	0	3.675,318:56:0	
680	96	304	01:14:50.466	176BJ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.675,321:00:0	
681	96	304	01:44:29.800	488CB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3.675,350:30:0	
682	96	304	04:59:59.800	481UG4A	7VECT		Inert vect update UTC	400	4	0	3.675,543:62:0	
683	96	304	06:12:06.466	176BC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3.675,615:00:0	
684	96	304	06:16:07.800	165BQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.675,618:89:0	
685	96	304	06:16:08.466	165BQ4B	7SCAN	NORM,190.066999,	Check S/P Position	400	4	0	3.675,618:90:0	
686	96	304	06:17:53.133	20UV4A	7CONE	17.45,90.003879	Check S/P Position	400	4	0	3.675,620:65:0	
687	96	304	06:18:29.133	20UV4B	7STAT	17.45,267.430207	Stator inertial point	400	4	0	3.675,621:28:0	
688	96	304	06:19:11.133	176BD6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.675,622:00:0	
689	96	304	06:29:59.800	418JO6A	6BUFHI		8 MUB Buffer high water	400	4	0	3.675,632:63:0	
690	96	304	09:42:21.133	488CC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.675,822:85:0	
691	96	304	10:34:59.800	176BE6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3.675,875:00:0	
692	96	304	10:39:01.133	165BR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.675,878:89:0	
693	96	304	10:39:01.800	165BR4B	7SCAN	NORM,191.217999,	Check S/P Position	400	4	0	3.675,878:90:0	
694	96	304	10:39:22.466	20UO4A	7CONE	17.45,90.581484	Check S/P Position	400	4	0	3.675,879:30:0	
695	96	304	10:39:58.466	20UO4B	7STAT	17.45,270.747391	Stator inertial point	400	4	0	3.675,879:84:0	
696	96	304	10:41:03.800	176BF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.675,881:00:0	
697	96	304	11:26:53.133	488CC6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.675,926:29:0	
698	96	304	11:27:38.466	488CC6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.675,927:06:0	
699	96	304	12:44:57.133	488CC6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.676,003:48:0	
700	96	304	13:44:05.133	488CC6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.676,062:01:0	
701	96	304	14:28:13.133	488CD6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3.676,105:60:0	
702	96	304	14:36:30.466	488CD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.676,113:78:0	
703	96	304	16:52:08.466	176BK6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3.676,248:00:0	
704	96	304	16:52:09.133	165BJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.676,250:89:0	
705	96	304	16:55:09.800	165BJ4B	7SCAN	NORM,196.632999,	Check S/P Position	400	4	0	3.676,250:90:0	
706	96	304	16:57:13.800	20UE4A	7CONE	17.45,97.187	Check S/P Position	400	4	0	3.676,253:03:0	
707	96	304	16:57:49.800	20UE4B	7STAT	17.45,267.653,64	Stator inertial point	400	4	0	3.676,253:57:0	
708	96	304	17:00:13.800	176BL6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.676,256:00:0	
709	96	304	17:27:25.133	488CD6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.676,282:81:0	
710	96	304	18:52:37.133	488CD6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.676,367:14:0	
711	96	304	19:39:55.800	488CD6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.676,413:86:0	
712	96	304	20:29:06.466	488CE6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.676,462:53:0	
713	96	304	21:34:53.133	488CE6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3.676,527:58:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	96	304	21:42:08.466	488CE6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.676,534:74:0	
715	96	304	22:14:59.800	418JF6A	6BUJFHI		10 MUB Buffer high water	400	4	0	3.676,567:28:0	
716	96	304	23:19:23.800	176TB6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	400	4	0	3.676,631:00:0	
717	96	304	23:23:26.466	176KQ6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	400	4	0	3.676,635:00:0	
718	96	304	23:28:28.466	165QY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.676,639:89:0	
719	96	304	23:28:29.133	165QY4B	7SCAN	NORM,217.382,-16	Check S/P Position	400	4	0	3.676,639:90:0	
720	96	304	23:57:49.133	488CE6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.676,669:00:0	
721	96	305	00:03:51.800	165QZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.676,674:89:0	
722	96	305	00:03:52.466	165QZ4B	7SCAN	NORM,217.338999,	Check S/P Position	400	4	0	3.676,674:90:0	
723	96	305	00:45:19.066	165BK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.676,715:89:0	
724	96	305	00:45:19.733	165BK4B	7SCAN	NORM,198.094999,	Check S/P Position	400	4	0	3.676,715:90:0	
725	96	305	00:47:23.733	20UJF4A	7CONE	17.45,98.744	Check S/P Position	400	4	0	3.676,718:03:0	
726	96	305	00:47:59.733	20UJF4B	7STAT	17.45,267.766,64	Stator inertial point	400	4	0	3.676,718:57:0	
727	96	305	00:50:23.733	176BN6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	400	4	0	3.676,721:00:0	
728	96	305	01:29:33.733	488CE6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3.676,759:67:0	
729	96	305	04:30:13.733	488CF6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	400	4	0	3.676,938:38:0	
730	96	305	04:36:53.066	176VZ6A	6TMREC	TPB	TERMINATE PLAYBACK (PB CONTROL) Record Mo	400	4	0	3.676,945:00:0	
731	96	305	04:39:59.733	41W99A	POWER	PWR MODE change	Change to Data Taking Mode	400	4	0	3.676,948:07:0	
732	96	305	04:40:03.733	41W3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3.676,948:13:0	
733	96	305	04:40:13.733	41W3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3.676,948:28:0	
734	96	305	04:40:23.733	41W3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3.676,948:43:0	
735	96	305	04:40:33.733	41W3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3.676,948:58:0	
736	96	305	04:40:43.733	41W3C	40T2R		1 PCT Heater 2 OFF	400	4	0	3.676,948:73:0	
737	96	305	04:40:53.733	41W3D	40T2R		2 PCT Heater 2 OFF	400	4	0	3.676,948:88:0	
738	96	305	04:48:25.733	488CF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	400	4	0	3.676,956:38:0	
739	96	305	05:02:09.733	465WA6A	6DMST		5000 DMS Slew to TIC	400	4	0	3.676,970:00:0	
740	96	305	05:02:09.733	DMS:		: *SLEW-TIC	P7, TRACK *2, *REV, TIC 5526.00 +/-	400	4	0	3.676,970:00:0	
741	96	305	09:10:52.400	165BL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.677,215:89:0	
742	96	305	09:10:53.066	165BL4B	7SCAN	NORM,199.811998,	Check S/P Position	400	4	0	3.677,215:90:0	
743	96	305	09:38:05.733	488CF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.677,242:82:0	
744	96	305	10:55:51.066	465WB6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	400	4	0	3.677,319:73:0	
745	96	305	11:20:33.733	488CG6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3.677,344:22:0	
746	96	305	11:21:43.066	465WB6B	6DMSC	RDY,2	DMS Control Tape stop	400	4	0	3.677,345:35:0	
747	96	305	11:22:37.066	488CG6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3.677,346:25:0	
748	96	305	11:58:53.066	488CG6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.677,382:13:0	
749	96	305	12:19:51.066	488CG6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.677,402:80:0	
750	96	305	12:54:21.066	488CG6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.677,437:00:0	
751	96	305	13:19:59.733	488CH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.677,462:33:0	
752	96	305	13:40:45.066	465WO6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	400	4	0	3.677,482:81:0	
753	96	305	13:50:46.400	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	400	4	0	3.677,492:73:0	
754	96	305	14:22:42.400	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	400	4	0	3.677,524:35:0	
755	96	305	14:38:17.733	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	400	4	0	3.677,539:73:0	
756	96	305	14:49:33.066	488CH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.677,550:85:0	
757	96	305	15:10:28.400	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	400	4	0	3.677,571:57:0	
758	96	305	15:42:31.733	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	400	4	0	3.677,603:30:0	
759	96	305	15:57:09.733	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	400	4	0	3.677,617:73:0	
760	96	305	16:29:19.733	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	400	4	0	3.677,649:56:0	
761	96	305	16:30:27.066	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	400	4	0	3.677,650:66:0	
762	96	305	16:38:21.066	488CH6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.677,658:49:0	
763	96	305	16:44:53.066	465WM6A	6DMSC	RDY,2	DMS Control Tape stop	400	4	0	3.677,665:00:0	
764	96	305	16:45:47.066	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	400	4	0	3.677,665:81:0	
765	96	305	16:59:59.733	488CH6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.677,679:86:0	
766	96	305	17:21:15.733	165BM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.677,700:89:0	
767	96	305	17:21:16.400	165BM4B	7SCAN	NORM,190.389,-5,	Check S/P Position	400	4	0	3.677,700:90:0	
768	96	305	18:28:45.733	488CH6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3.677,767:67:0	



Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	96	305	20:25:48.400	488C16A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.677,883:45:0	
770	96	305	20:50:26.400	488C16B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3.677,907:78:0	
771	96	305	21:27:14.400	488C16C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.677,944:23:0	
772	96	305	21:59:19.733	432JK431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	400	4	0	3.677,975:90:0	
773	96	305	21:59:20.400	432JK6A	6RTSL1		R/T Select of DDS and	400	4	0	3.677,976:00:0	
774	96	306	02:12:13.066	488C16D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.678,226:09:0	
775	96	306	04:22:33.066	488C16A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	400	4	0	3.678,355:00:0	
776	96	306	04:52:31.733	488C16B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.678,384:59:0	
777	96	306	09:01:49.666	488C16C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.678,631:19:0	
778	96	306	10:52:45.666	488C16A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.678,740:84:0	
779	96	306	11:17:26.333	488C16B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3.678,765:30:0	
780	96	306	12:19:45.000	488C16C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.678,826:87:0	
781	96	306	12:54:21.666	488C16D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.678,861:17:0	
782	96	306	13:00:31.666	488C16E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3.678,867:26:0	
783	96	306	13:20:00.333	41VB99A	POWER	PWR MODE change	Change to Maneuver Mode	400	4	0	3.678,886:50:0	
784	96	306	13:20:04.333	41VB3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3.678,886:56:0	
785	96	306	13:20:14.333	41VB3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3.678,886:71:0	
786	96	306	13:22:24.333	41VB3G	40T1P		1 PCT Heater 1 ON (primary relay)	400	4	0	3.678,888:84:0	
787	96	306	13:22:34.333	41VB3H	40T1P		2 PCT Heater 1 ON (primary relay)	400	4	0	3.678,889:08:0	
788	96	306	13:22:44.333	41VB3I	40T2		1 PCT Heater 2 ON	400	4	0	3.678,889:23:0	
789	96	306	13:22:54.333	41VB3J	40T2		2 PCT Heater 2 ON	400	4	0	3.678,889:38:0	
790	96	306	13:23:00.333	488C16A	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	400	4	0	3.678,889:47:0	
791	96	306	13:34:39.666	488C16B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	3.678,901:04:0	
792	96	306	15:10:53.666	488C16C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	400	4	0	3.678,996:20:0	
793	96	306	16:17:01.000	488C16D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	400	4	0	3.679,061:56:0	
794	96	306	18:30:00.333	41WB99A	POWER	PWR MODE change	Change to Data Taking Mode	400	4	0	3.679,193:13:0	
795	96	306	18:30:00.333	488C16E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.679,193:13:0	
796	96	306	18:30:04.333	41WB3K	37F2PR		1 Shield Flash Heater OFF (primary relay)	400	4	0	3.679,193:19:0	
797	96	306	18:30:14.333	41WB3L	37F2PR		2 Shield Flash Heater OFF (primary relay)	400	4	0	3.679,193:34:0	
798	96	306	18:30:24.333	41WB3A	40T1PR		1 PCT Heater 1 OFF (primary relay)	400	4	0	3.679,193:49:0	
799	96	306	18:30:34.333	41WB3B	40T1PR		2 PCT Heater 1 OFF (primary relay)	400	4	0	3.679,193:64:0	
800	96	306	18:30:44.333	41WB3C	40T2R		1 PCT Heater 2 OFF	400	4	0	3.679,193:79:0	
801	96	306	18:30:54.333	41WB3D	40T2R		2 PCT Heater 2 OFF	400	4	0	3.679,194:03:0	
802	96	306	18:33:33.000	488C16A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.679,196:59:0	
803	96	306	18:45:00.333	165BN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.679,207:89:0	
804	96	306	18:45:01.000	165BN4B	7SCAN	NORM,190.389,-5.	Check S/P Position	400	4	0	3.679,207:89:0	
805	96	306	19:39:41.000	488C16B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.679,262:05:0	
806	96	306	20:30:53.000	488C16C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.679,312:63:0	
807	96	306	21:53:04.333	431BA6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	400	4	0	3.679,393:89:0	
808	96	306	21:56:17.000	208B6A	6HICON		Record Deselect (DDS o	400	4	0	3.679,397:14:0	
809	96	306	21:57:08.333	431BB6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	400	4	0	3.679,398:00:0	
810	96	306	22:52:43.666	165BO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.679,452:89:0	
811	96	306	22:52:44.333	165BO4B	7SCAN	NORM,194.695,-8.	Check S/P Position	400	4	0	3.679,452:90:0	
812	96	306	23:05:00.333	432OC6A	6RTSL1		R/T Select of DDS and	400	4	0	3.679,465:11:0	
813	96	306	20:17:17.000	488C16D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.679,477:24:0	
814	96	307	00:40:33.666	488C16A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3.679,559:57:0	
815	96	307	01:17:21.666	488C16B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.679,596:02:0	
816	96	307	01:44:37.666	432JH431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	400	4	0	3.679,622:90:0	
817	96	307	01:44:38.333	432JH6A	6RTSL1		R/T Select of DDS and	400	4	0	3.679,623:00:0	
818	96	307	02:05:49.000	488C16C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	400	4	0	3.679,643:86:0	
819	96	307	08:03:47.000	165BP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	400	4	0	3.679,997:89:0	
820	96	307	08:03:47.666	165BP4B	7SCAN	NORM,196.369999,	Check S/P Position	400	4	0	3.679,997:90:0	
821	96	307	08:14:55.666	465VA6A	6DMST	2240	DMS Slew to TIC	400	4	0	3.680,009:00:0	
822	96	307	08:42:37.000	488C06A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3.680,036:35:0	
823	96	307	10:48:29.000	488C06B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	400	4	0	3.680,160:79:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	96	307	11:23:36.333	488CO6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	400	4	0	3,680,195:55:0	
825	96	307	11:37:33.000	488CO6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	400	4	0	3,680,209:36:0	
826	96	307	14:19:41.600	488CO6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	400	4	0	3,680,369:69:0	
827	96	307	14:26:24.266	488CP6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	400	4	0	3,680,376:36:0	
828	96	307	15:14:32.266	465VB6A	6DMSC	RDY,1	DMS Control Tape stop	400	4	0	3,680,424:00:0	
829	96	307	16:00:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	400	4	0	3,680,468:87:6	
830	96	307	16:00:00.000	20A3FE	40T1PR	Final Condition	PCT Heater 1 OFF (primary relay)	400	4	0	3,680,468:87:6	
831	96	307	16:00:00.000	20A3FF	40T2R	Final Condition	PCT Heater 2 OFF	400	4	0	3,680,468:87:6	
832	96	307	16:00:00.000	20A3EW	37A	Final Condition	NIMS Power ON	400	4	0	3,680,468:87:6	
833	96	307	16:00:00.000	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	400	4	0	3,680,468:87:6	
834	96	307	16:00:00.000	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	400	4	0	3,680,468:87:6	
835	96	307	16:00:00.000	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	400	4	0	3,680,468:87:6	
836	96	307	16:00:00.000	20A3EY	37C1PR	Final Condition	Optics Heater 1 OFF (primary relay)	400	4	0	3,680,468:87:6	
837	96	307	16:00:00.000	20A3EX	37HR	Final Condition	Replacement Heaters OFF	400	4	0	3,680,468:87:6	
838	96	307	16:00:00.266		DMS:	: RUNNING	P7, TRACK 2, REV, TIC 162.17 +/- 1	400	4	0	3,680,468:88:0	

# G2NNRECOVY01

```

OAPEL:  G2NNRECOVY01      ALIAS:  G2NNRECOVY01
EXT:    R                  PSID:    DC
SCLK1:  03595093:00:0     SCLK2:  03595093:12:0
SCET1:  1996-247/17:15:28.133  SCET2:  1996-247/17:15:36.133
TARGET: CAL                PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000           MB_UP:   00000
COMP_FLAG: 0             EST_COMPV: 0.0
EST_COMP: 0.0           RATE_CON2: 00000
RATE_CON1: 00000       TLMFMT:  RT
NWAVETOT: 003
  
```

```

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

```

WETGID:  0302003000      03  02  003  000
WTGRP_SIZ: 2
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	08044	0,1000,0000,0100,0100
1	00000	0,0000,0000,0000,0000
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
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

# G2NNOPCAL\_01

```

OAPEL:  G2NNOPCAL_01          ALIAS:  G2NNOPCAL_01
EXT:    R                      PSID:   DA
SCLK1:  03596253:00:0         SCLK2:  03596253:12:0
SCET1:  1996-248/12:48:21.400 SCET2:  1996-248/12:48:29.400
TARGET: CAL                    PARTITION: 1
  
```

```

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

```

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

```

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

```

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

## EDIT TABLE

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

# G2JNGLOMOS01

```

OAPEL:  G2JNGLOMOS01      ALIAS:  G2JNGLOMOS01
EXT:    A                  PSID:    DB
SCLK1:  03596986:47:0     SCLK2:  03596996:21:0
SCET1:  96-249/01:10:02.053 SCET2:  96-249/01:19:51.385
TARGET: JUPITER           PARTITION: 1
  
```

```

MODE:    7                  GAIN:    2
CHOP:    1                  GRAT_OFF: 4
PTAB_A:  1 1 0 5 012      PTAB_B:  1 1 0 5 012
ECAL:    0                  OPCAL:   0
R/T:     0                  RECORD:  1
  
```

```

MB_DOWN: 00000             MB_UP:   00000
COMP_FLAG: 1               EST_COMPV: 0.3
EST_COMP: 2.0              RATE_CON2: 65525
RATE_CON1: 00000           TLMFMT:  LPU
NWAVETOT: 5
  
```

```

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

```

WETGID:  0713005001      07  13  005  001
WTGRP_SIZ: 13
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01581	0,0001,0101,1000,0001
1	01581	0,0001,0101,1000,0001
2	01581	0,0001,0101,1000,0001
3	01581	0,0001,0101,1000,0001
4	01581	0,0001,0101,1000,0001
5	01581	0,0001,0101,1000,0001
6	01581	0,0001,0101,1000,0001
7	01581	0,0001,0101,1000,0001
8	01581	0,0001,0101,1000,0001
9	01581	0,0001,0101,1000,0001
10	01581	0,0001,0101,1000,0001
11	01581	0,0001,0101,1000,0001
12	00000	0,0000,0000,0000,0000

# G2JNGLOMOS02

```

OAPEL:  G2JNGLOMOS02      ALIAS:  G2JNGLOMOS02
EXT:    A                  PSID:    DC
SCLK1:  03597085:38:0     SCLK2:  03597095:12:0
SCET1:   96-249/02:50:02.049  SCET2:   96-249/02:59:51.383
TARGET: JUPITER           PARTITION: 1
    
```

```

MODE:    7                  GAIN:    2
CHOP:    1                  GRAT_OFF: 4
PTAB_A:  1 1 0 5 012       PTAB_B:  1 1 0 5 012
ECAL:    0                  OPCAL:   0
R/T:     0                  RECORD:  1
    
```

```

MB_DOWN: 00000             MB_UP:   00000
COMP_FLAG: 1               EST_COMPV: 0.3
EST_COMP: 2.0             RATE_CON2: 65525
RATE_CON1: 00000          TLMFMT:  LPU
NWAVETOT: 5
    
```

```

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

```

WETGID:  0713005001      07 13 005 001
WTGRP_SIZ: 13
    
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01581	0,0001,0101,1000,0001
1	01581	0,0001,0101,1000,0001
2	01581	0,0001,0101,1000,0001
3	01581	0,0001,0101,1000,0001
4	01581	0,0001,0101,1000,0001
5	01581	0,0001,0101,1000,0001
6	01581	0,0001,0101,1000,0001
7	01581	0,0001,0101,1000,0001
8	01581	0,0001,0101,1000,0001
9	01581	0,0001,0101,1000,0001
10	01581	0,0001,0101,1000,0001
11	01581	0,0001,0101,1000,0001
12	00000	0,0000,0000,0000,0000

# G2JNGLOMOS03

```

OAPEL:  G2JNGLOMOS03          ALIAS:  G2JNGLOMOS03
EXT:    A                      PSID:   DD
SCLK1:  03597184:29:0        SCLK2:  03597194:04:0
SCET1:   96-249/04:30:02.045  SCET2:   96-249/04:39:52.045
TARGET:  JUPITER              PARTITION: 1
    
```

```

MODE:    7                      GAIN:    2
CHOP:    1                      GRAT_OFF: 4
PTAB_A:  1 1 0 5 012          PTAB_B:  1 1 0 5 012
ECAL:    0                      OPCAL:   0
R/T:     0                      RECORD:  1
    
```

```

MB_DOWN: 00000                MB_UP:   00000
COMP_FLAG: 1                  EST_COMPV: 0.3
EST_COMP: 2.0                RATE_CON2: 65525
RATE_CON1: 00000            TLMFMT:  LPU
NWAVETOT: 5
    
```

```

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

```

WETGID:  0713005001          07 13 005 001
WTGRP_SIZ: 13
    
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01581	0,0001,0101,1000,0001
1	01581	0,0001,0101,1000,0001
2	01581	0,0001,0101,1000,0001
3	01581	0,0001,0101,1000,0001
4	01581	0,0001,0101,1000,0001
5	01581	0,0001,0101,1000,0001
6	01581	0,0001,0101,1000,0001
7	01581	0,0001,0101,1000,0001
8	01581	0,0001,0101,1000,0001
9	01581	0,0001,0101,1000,0001
10	01581	0,0001,0101,1000,0001
11	01581	0,0001,0101,1000,0001
12	00000	0,0000,0000,0000,0000

# G2JNGLOMOS04

```

OAPEL:  G2JNGLOMOS04      ALIAS:  G2JNGLOMOS04
EXT:    A                  PSID:    DE
SCLK1:  03597281:20:0     SCLK2:  03597290:86:0
SCET1:  96-249/06:08:00.709  SCET2:  96-249/06:17:50.708
TARGET: JUPITER          PARTITION: 1
  
```

```

MODE:    7                  GAIN:    2
CHOP:    1                  GRAT_OFF: 4
PTAB_A:  1 1 0 5 012      PTAB_B:  1 1 0 5 012
ECAL:    0                  OPCAL:   0
R/T:     0                  RECORD:  1
  
```

```

MB_DOWN: 00000             MB_UP:   00000
COMP_FLAG: 1              EST_COMPV: 0.3
EST_COMP: 2.0            RATE_CON2: 65525
RATE_CON1: 00000         TLMFMT:  LPU
NWAVETOT: 5
  
```

```

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

```

WETGID:  0713005001      07  13  005  001
WTGRP_SIZ: 13
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01581	0,0001,0101,1000,0001
1	01581	0,0001,0101,1000,0001
2	01581	0,0001,0101,1000,0001
3	01581	0,0001,0101,1000,0001
4	01581	0,0001,0101,1000,0001
5	01581	0,0001,0101,1000,0001
6	01581	0,0001,0101,1000,0001
7	01581	0,0001,0101,1000,0001
8	01581	0,0001,0101,1000,0001
9	01581	0,0001,0101,1000,0001
10	01581	0,0001,0101,1000,0001
11	01581	0,0001,0101,1000,0001
12	00000	0,0000,0000,0000,0000



# G2JNGLOMOS05

```

OAPEL:  G2JNGLOMOS05      ALIAS:  G2JNGLOMOS05
EXT:    A                  PSID:    DF
SCLK1:  03597382:11:0     SCLK2:  03597391:77:0
SCET1:  96-249/07:50:02.038 SCET2:  96-249/07:59:52.038
TARGET: JUPITER          PARTITION: 1
  
```

```

MODE:    7                  GAIN:    2
CHOP:    1                  GRAT_OFF: 4
PTAB_A:  1 1 0 5 012      PTAB_B:  1 1 0 5 012
ECAL:    0                  OPCAL:   0
R/T:     0                  RECORD:  1
  
```

```

MB_DOWN: 00000             MB_UP:   00000
COMP_FLAG: 1               EST_COMPV: 0.3
EST_COMP: 2.0             RATE_CON2: 65525
RATE_CON1: 00000          TLMFMT:  LPU
NWAVETOT: 5
  
```

```

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

```

WETGID:  0713005001      07  13  005  001
WTGRP_SIZ: 13
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01581	0,0001,0101,1000,0001
1	01581	0,0001,0101,1000,0001
2	01581	0,0001,0101,1000,0001
3	01581	0,0001,0101,1000,0001
4	01581	0,0001,0101,1000,0001
5	01581	0,0001,0101,1000,0001
6	01581	0,0001,0101,1000,0001
7	01581	0,0001,0101,1000,0001
8	01581	0,0001,0101,1000,0001
9	01581	0,0001,0101,1000,0001
10	01581	0,0001,0101,1000,0001
11	01581	0,0001,0101,1000,0001
12	00000	0,0000,0000,0000,0000

# G2JNGLOMOS06

```

OAPEL:  G2JNGLOMOS06      ALIAS:  G2JNGLOMOS06
EXT:    A                  PSID:    DG
SCLK1:  03597481:05:0     SCLK2:  03597490:71:0
SCET1:  96-249/09:30:04.034  SCET2:  96-249/09:39:54.034
TARGET: JUPITER          PARTITION: 1
    
```

```

MODE:    7                  GAIN:    2
CHOP:    1                  GRAT_OFF: 4
PTAB_A:  1 1 0 5 012      PTAB_B:  1 1 0 5 012
ECAL:    0                  OPCAL:   0
R/T:     0                  RECORD:  1
    
```

```

MB_DOWN: 00000             MB_UP:   00000
COMP_FLAG: 1               EST_COMPV: 0.3
EST_COMP: 2.0              RATE_CON2: 65525
RATE_CON1: 00000          TLMFMT:  LPU
NWAVETOT: 5
    
```

```

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

```

WETGID:  0713005001      07 13 005 001
WTGRP_SIZ: 13
    
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01581	0,0001,0101,1000,0001
1	01581	0,0001,0101,1000,0001
2	01581	0,0001,0101,1000,0001
3	01581	0,0001,0101,1000,0001
4	01581	0,0001,0101,1000,0001
5	01581	0,0001,0101,1000,0001
6	01581	0,0001,0101,1000,0001
7	01581	0,0001,0101,1000,0001
8	01581	0,0001,0101,1000,0001
9	01581	0,0001,0101,1000,0001
10	01581	0,0001,0101,1000,0001
11	01581	0,0001,0101,1000,0001
12	00000	0,0000,0000,0000,0000

# G2HNDARK\_\_02

```

OAPEL:  G2HNDARK__02          ALIAS:  G2HNDARK__02
EXT:    A                    PSID:    DH
SCLK1:  03597497:90:0        SCLK2:  03597498:90:0
SCET1:  96-249/09:47:11.368 SCET2:  96-249/09:48:12.034
TARGET: SKY                  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_COMPV: 0.3
EST_COMP: 2.0              RATE_CON2: 65525
RATE_CON1: 00000          TLMFMT:  LPU
NWAVETOT: 34
  
```

```

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

```

WETGID:  0326034001        03  26  034  001
WTGRP_SIZ: 26
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	1FFFF	1,1111,1111,1111,1111
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
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

# G2NNRECOVY02

```

OAPEL:  G2NNRECOVY02      ALIAS:  G2NNRECOVY02
EXT:    R                  PSID:    EX
SCLK1:  03597928:00:0     SCLK2:  03597928:12:0
SCET1:  1996-249/17:01:58.000  SCET2:  1996-249/17:02:06.000
TARGET: CAL                PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000           MB_UP:    00000
COMP_FLAG: 0             EST_COMPV: 0.0
EST_COMP: 0.0           RATE_CON2: 00000
RATE_CON1: 00000        TLMFMT:  RT
NWAVETOT: 003
  
```

```

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

```

WETGID:  0302003000      03  02  003  000
WTGRP_SIZ:  2
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	08044	0,1000,0000,0100,0100
1	00000	0,0000,0000,0000,0000
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
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

# G2JNTHRMNS03

```

OAPEL:  G2JNTHRMNS03      ALIAS:  G2JNTHRMNS03
EXT:    A                  PSID:    DK
SCLK1:  03598778:55:0     SCLK2:  03598784:38:0
SCET1:  96-250/07:22:01.987  SCET2:  96-250/07:27:54.653
TARGET: JUPITER          PARTITION: 1
  
```

```

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

```

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

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00007	0,0000,0000,0000,0111
1	00007	0,0000,0000,0000,0111
2	00007	0,0000,0000,0000,0111
3	00007	0,0000,0000,0000,0111
4	00007	0,0000,0000,0000,0111
5	01107	0,0001,0001,0000,0111
6	00007	0,0000,0000,0000,0111
7	00007	0,0000,0000,0000,0111
8	00007	0,0000,0000,0000,0111
9	10007	1,0000,0000,0000,0111
10	00007	0,0000,0000,0000,0111
11	00007	0,0000,0000,0000,0111
12	00007	0,0000,0000,0000,0111
13	00807	0,0000,1000,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	00007	0,0000,0000,0000,0111
17	00007	0,0000,0000,0000,0111
18	00007	0,0000,0000,0000,0111
19	00007	0,0000,0000,0000,0111
20	0000F	0,0000,0000,0000,1111
21	0000F	0,0000,0000,0000,1111
22	0000F	0,0000,0000,0000,1111
23	0000F	0,0000,0000,0000,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G2JNTHRMNS04

```

OAPEL:  G2JNTHRMNS04      ALIAS:  G2JNTHRMNS04
EXT:    A                  PSID:   DL
SCLK1:  03598944:69:0     SCLK2: 03598945:18:0
SCET1:  96-250/10:10:01.981 SCET2:  96-250/10:10:28.647
TARGET: JUPITER          PARTITION: 1
    
```

```

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

```

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

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00007	0,0000,0000,0000,0111
1	00007	0,0000,0000,0000,0111
2	00007	0,0000,0000,0000,0111
3	00007	0,0000,0000,0000,0111
4	00007	0,0000,0000,0000,0111
5	01107	0,0001,0001,0000,0111
6	00007	0,0000,0000,0000,0111
7	00007	0,0000,0000,0000,0111
8	00007	0,0000,0000,0000,0111
9	10007	1,0000,0000,0000,0111
10	00007	0,0000,0000,0000,0111
11	00007	0,0000,0000,0000,0111
12	00007	0,0000,0000,0000,0111
13	00807	0,0000,1000,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	00007	0,0000,0000,0000,0111
17	00007	0,0000,0000,0000,0111
18	00007	0,0000,0000,0000,0111
19	00007	0,0000,0000,0000,0111
20	0000F	0,0000,0000,0000,1111
21	0000F	0,0000,0000,0000,1111
22	0000F	0,0000,0000,0000,1111
23	0000F	0,0000,0000,0000,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G2NNRECOVY03

```

OAPEL:  G2NNRECOVY03          ALIAS:  G2NNRECOVY03
EXT:    R                      PSID:    IZ
SCLK1:  03599035:00:0        SCLK2:  03599035:12:0
SCET1:  1996-250/11:41:16.000 SCET2:  1996-250/11:41:24.000
TARGET: CAL                   PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000                MB_UP:   00000
COMP_FLAG: 0                  EST_COMPV: 0.0
EST_COMP: 0.0                RATE_CON2: 00000
RATE_CON1: 00000            TLMFMT:  RT
NWAVETOT: 003
  
```

```

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

```

WETGID:  0302003000          03  02  003  000
WTGRP_SIZ: 2
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	08044	0,1000,0000,0100,0100
1	00000	0,0000,0000,0000,0000
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
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

# G2GNSIPPAR01

```

OAPEL:  G2GNSIPPAR01      ALIAS:  G2GNSIPPAR01
EXT:    A                  PSID:    ES
SCLK1:  03599300:90:0     SCLK2:  03599302:85:0
SCET1:  96-250/16:10:13.301  SCET2:  96-250/16:12:11.300
TARGET: GANYMEDE          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: 204              TLMFMT:  LPU
    
```

```

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

```

WETGID:  0326204001      03  26  204  001
WTGRP_SIZ: 26
    
```

## EDIT TABLE

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



# G2GNNRPOLE01

```

OAPEL:  G2GNNRPOLE01      ALIAS:  G2GNNRPOLE01
EXT:    A                  PSID:    DN
SCLK1:  03599383:41:0     SCLK2:  03599388:81:0
SCET1:  96-250/17:33:35.964  SCET2:  96-250/17:39:05.964
TARGET: GANYMEDE          PARTITION: 1
  
```

```

MODE:    1                  GAIN:    3
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_COMPV: 0.3
EST_COMP: 2.0             RATE_CON2: 65525
RATE_CON1: 00000          TLMFMT:  MPW
NWAVETOT: 204
  
```

```

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

```

WETGID:  0113204001      01 13 204 001
WTGRP_SIZ: 13
  
```

## EDIT TABLE

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

# G2GNTAMMUZ01

```

OAPEL:  G2GNTAMMUZ01          ALIAS:  G2GNTAMMUZ01
EXT:    A                     PSID:   DM
SCLK1:  03599409:90:0        SCLK2:  03599418:89:0
SCET1:  96-250/18:00:25.963 SCET2:  96-250/18:09:31.296
TARGET: GANYMEDE             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_COMPV: 0.3
EST_COMP:  2.0                RATE_CON2: 65525
RATE_CON1: 00000              TLMFMT:  LPU
NWAVETOT: 204
  
```

```

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

```

WETGID:  0326204001          03  26  204  001
WTGRP_SIZ: 26
  
```

## EDIT TABLE

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

# G2GNANTUM\_01

```

OAPEL:  G2GNANTUM_01          ALIAS:  G2GNANTUM_01
EXT:    A                    PSID:    DO
SCLK1:  03599448:70:0        SCLK2:  03599453:44:0
SCET1:  96-250/18:39:38.629 SCET2:  96-250/18:44:24.629
TARGET: GANYMEDE            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_COMPV: 0.3
EST_COMP: 2.0              RATE_CON2: 65525
RATE_CON1: 00000          TLMFMT:  MPW
NWAVETOT: 204
  
```

```

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

```

WETGID:  0113204001        01 13 204 001
WTGRP_SIZ: 13
  
```

## EDIT TABLE

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

# G2GNLIMBSC01

```

OAPEL:  G2GNLIMBSC01      ALIAS:  G2GUBRTLMB02
EXT:    A                  PSID:    CM
SCLK1:  03599456:90:0     SCLK2:  03599459:89:0
SCET1:   96-250/18:47:57.295  SCET2:   96-250/18:50:58.629
TARGET:  GANYMEDE        PARTITION:  1
  
```

```

MODE:    0                  GAIN:    7
CHOP:    4                  GRAT_OFF:  1
PTAB_A:  4010 0 010 1     PTAB_B:  2010 0 010 1
ECAL:    2                  OPCAL:    0
R/T:     0                  RECORD:   0
  
```

```

MB_DOWN:  0000             MB_UP:    00000
COMP_FLAG: 1
EST_COMP:  2.0            EST_COMPV: 0.0
RATE_CON1: 00000         RATE_CON2: 65525
NWAVETOT:  3              TLMFMT:   MPW
  
```

```

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

```

WETGID:   0713003001      07  13  003  001
WTGRP_SIZ: 13
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	07000	0,0111,0000,0000,0000
1	07000	0,0111,0000,0000,0000
2	07000	0,0111,0000,0000,0000
3	07000	0,0111,0000,0000,0000
4	07000	0,0111,0000,0000,0000
5	07000	0,0111,0000,0000,0000
6	07000	0,0111,0000,0000,0000
7	07000	0,0111,0000,0000,0000
8	07000	0,0111,0000,0000,0000
9	07000	0,0111,0000,0000,0000
10	07000	0,0111,0000,0000,0000
11	07000	0,0111,0000,0000,0000
12	07000	0,0111,0000,0000,0000

# G2GNBRFRGR01

```

OAPEL:  G2GNBRFRGR01      ALIAS:  G2GNBRFRGR01
EXT:    A                  PSID:    DQ
SCLK1:  03599463:90:0     SCLK2:  03599466:58:0
SCET1:  96-250/18:55:01.961  SCET2:  96-250/18:57:42.628
TARGET:  GANYMEDE        PARTITION:  1
  
```

```

MODE:    1                GAIN:    3
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_COMPV: 0.3
EST_COMP:  2.0          RATE_CON2: 65525
RATE_CON1: 00000        TLMFMT:   MPW
NWAVETOT: 204
  
```

```

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

```

WETGID:  0113204001      01 13 204 001
WTGRP_SIZ: 13
  
```

## EDIT TABLE

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

# G2INCHEMIS01

```

OAPEL:  G2INCHEMIS01          ALIAS:  G2INCHEMIS01
EXT:    A                    PSID:   DR
SCLK1:  03599697:00:0        SCLK2:  03599700:25:0
SCET1:  96-250/22:50:37.287 SCET2:  96-250/22:53:55.954
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: 228                TLMFMT:  MPW
    
```

```

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
                  028, 032, 034, 031, 031, 032, 030, 029
    
```

```

WETGID:  0326228001          03  26  228  001
WTGRP_SIZ: 26
    
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00180	0,0000,0001,1000,0000
1	1FFFF	1,1111,1111,1111,1111
2	00180	0,0000,0001,1000,0000
3	1FFFF	1,1111,1111,1111,1111
4	00180	0,0000,0001,1000,0000
5	1FFFF	1,1111,1111,1111,1111
6	00180	0,0000,0001,1000,0000
7	1FFFF	1,1111,1111,1111,1111
8	00180	0,0000,0001,1000,0000
9	1FFFF	1,1111,1111,1111,1111
10	00180	0,0000,0001,1000,0000
11	1FFFF	1,1111,1111,1111,1111
12	00180	0,0000,0001,1000,0000
13	1FFFF	1,1111,1111,1111,1111
14	00180	0,0000,0001,1000,0000
15	1FFFF	1,1111,1111,1111,1111
16	00180	0,0000,0001,1000,0000
17	1FFFF	1,1111,1111,1111,1111
18	00180	0,0000,0001,1000,0000
19	1FFFF	1,1111,1111,1111,1111
20	00180	0,0000,0001,1000,0000
21	1FFFF	1,1111,1111,1111,1111
22	00180	0,0000,0001,1000,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G2INCHEMIS02

```

OAPEL:  G2INCHEMIS02          ALIAS:  G2INCHEMIS02
EXT:    A                    PSID:    DT
SCLK1:  03599871:43:0        SCLK2:  03599875:43:0
SCET1:  96-251/01:47:01.947 SCET2:  96-251/01:51:04.613
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_COMPV: 0.3
EST_COMP: 2.0              RATE_CON2: 65525
RATE_CON1: 00000          TLMFMT:   LPU
NWAVETOT: 228
    
```

```

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

```

WETGID:  0326228001        03  26  228  001
WTGRP_SIZ: 26
    
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00180	0,0000,0001,1000,0000
1	1FFFF	1,1111,1111,1111,1111
2	00180	0,0000,0001,1000,0000
3	1FFFF	1,1111,1111,1111,1111
4	00180	0,0000,0001,1000,0000
5	1FFFF	1,1111,1111,1111,1111
6	00180	0,0000,0001,1000,0000
7	1FFFF	1,1111,1111,1111,1111
8	00180	0,0000,0001,1000,0000
9	1FFFF	1,1111,1111,1111,1111
10	00180	0,0000,0001,1000,0000
11	1FFFF	1,1111,1111,1111,1111
12	00180	0,0000,0001,1000,0000
13	1FFFF	1,1111,1111,1111,1111
14	00180	0,0000,0001,1000,0000
15	1FFFF	1,1111,1111,1111,1111
16	00180	0,0000,0001,1000,0000
17	1FFFF	1,1111,1111,1111,1111
18	00180	0,0000,0001,1000,0000
19	1FFFF	1,1111,1111,1111,1111
20	00180	0,0000,0001,1000,0000
21	1FFFF	1,1111,1111,1111,1111
22	00180	0,0000,0001,1000,0000
23	1FFFF	1,1111,1111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G2HNDARK\_\_03

```

OAPEL:  G2HNDARK__03          ALIAS:  G2HNDARK__03
EXT:    A                      PSID:   DS
SCLK1:  03599939:00:0        SCLK2:  03599940:00:0
SCET1:  96-251/02:55:18.611 SCET2:  96-251/02:56:19.278
TARGET: SKY                    PARTITION: 1
  
```

```

MODE:    3                      GAIN:    3
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: 34                  TLMFMT:  MPW
  
```

```

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

```

WETGID:  0326034001          03  26  034  001
WTGRP_SIZ: 26
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	1FFFF	1,1111,1111,1111,1111
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
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



# G2INHRSPEC01

```

OAPEL:  G2INHRSPEC01      ALIAS:  G2INHRSPEC01
EXT:    A                  PSID:    DV
SCLK1:  03600086:12:0     SCLK2:  03600090:72:0
SCET1:  96-251/05:24:04.606  SCET2:  96-251/05:28:47.272
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: 408          TLMFMT:  MPW
  
```

```

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

```

WETGID:  0326408001      03  26  408  001
WTGRP_SIZ: 26
  
```

## EDIT TABLE

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

# G2INIOMON\_01

```

OAPEL:  G2INIOMON_01          ALIAS:  G2INIOMON_01
EXT:    R                    PSID:    FA
SCLK1:  03600247:00:0        SCLK2:  03600247:12:0
SCET1:  1996-251/08:06:43.933 SCET2:  1996-251/08:06:51.933
TARGET: IO                    PARTITION: 1
  
```

```

MODE:    7                    GAIN:    2
CHOP:    1                    GRAT_OFF: 4
PTAB_A:  1 1 021 012        PTAB_B:  1 1 021 012
ECAL:    0                    OPCAL:    0
R/T:     1                    RECORD:   0
  
```

```

MB_DOWN: 11100                MB_UP:    00111
COMP_FLAG: 0
EST_COMP: 0.0                EST_COMPV: 0.0
RATE_CON1: 00000            RATE_CON2: 00000
NWAVETOT: 008                TLMFMT:   RT
  
```

```

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

```

WETGID:  0702008000          07 02 008 000
WTGRP_SIZ: 2
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	12A95	1,0010,1010,1001,0101
1	12A95	1,0010,1010,1001,0101
2	12A95	1,0010,1010,1001,0101
3	12A95	1,0010,1010,1001,0101
4	12A95	1,0010,1010,1001,0101
5	12A95	1,0010,1010,1001,0101
6	12A95	1,0010,1010,1001,0101
7	12A95	1,0010,1010,1001,0101
8	12A95	1,0010,1010,1001,0101
9	12A95	1,0010,1010,1001,0101
10	12A95	1,0010,1010,1001,0101
11	12A95	1,0010,1010,1001,0101
12	00000	0,0000,0000,0000,0000

# G2JNTHRMNS07

```

OAPEL:  G2JNTHRMNS07      ALIAS:  G2JNTHRMNS07
EXT:    A                  PSID:    DW
SCLK1:  03600263:55:0     SCLK2:  03600291:53:0
SCET1:  96-251/08:23:31.932  SCET2:  96-251/08:51:49.265
TARGET: JUPITER          PARTITION: 1
  
```

```

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

```

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

```

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

```

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

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00007	0,0000,0000,0000,0111
1	00007	0,0000,0000,0000,0111
2	00007	0,0000,0000,0000,0111
3	00007	0,0000,0000,0000,0111
4	00007	0,0000,0000,0000,0111
5	01107	0,0001,0001,0000,0111
6	00007	0,0000,0000,0000,0111
7	00007	0,0000,0000,0000,0111
8	00007	0,0000,0000,0000,0111
9	10007	1,0000,0000,0000,0111
10	00007	0,0000,0000,0000,0111
11	00007	0,0000,0000,0000,0111
12	00007	0,0000,0000,0000,0111
13	00807	0,0000,1000,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	00007	0,0000,0000,0000,0111
17	00007	0,0000,0000,0000,0111
18	00007	0,0000,0000,0000,0111
19	00007	0,0000,0000,0000,0111
20	0000F	0,0000,0000,0000,1111
21	0000F	0,0000,0000,0000,1111
22	0000F	0,0000,0000,0000,1111
23	0000F	0,0000,0000,0000,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G2ENLEADMP01

```

OAPEL:  G2ENLEADMP01          ALIAS:  G2ENLEADMP01
EXT:    A                     PSID:    EA
SCLK1:  03600785:06:0        SCLK2:  03600788:01:0
SCET1:  96-251/17:10:47.246 SCET2:  96-251/17:13:45.912
TARGET: EUROPA                PARTITION: 1
  
```

```

MODE:    3                     GAIN:    3
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_COMPV: 0.3
EST_COMP: 2.0                 RATE_CON2: 65525
RATE_CON1: 00000              TLMFMT:  LPU
NWAVETOT: 204
  
```

```

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
                  028, 032, 034, 031, 031, 032, 030, 029
  
```

```

WETGID:  0326204001          03 26 204 001
WTGRP_SIZ: 26
  
```

## EDIT TABLE

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

# G2HNDARK\_\_04

```

OAPEL:  G2HNDARK__04          ALIAS:  G2HNDARK__04
EXT:    A                     PSID:   EB
SCLK1:  03600797:90:0        SCLK2:  03600798:90:0
SCET1:  96-251/17:23:51.246 SCET2:  96-251/17:24:51.912
TARGET: SKY                   PARTITION: 1
    
```

```

MODE:    3                     GAIN:    3
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: 34                  TLMFMT:  MPW
    
```

```

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

```

WETGID:  0326034001          03  26  034  001
WTGRP_SIZ: 26
    
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	1FFFF	1,1111,1111,1111,1111
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
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

# G2ENEURORT01

```

OAPEL:  G2ENEURORT01      ALIAS:  G2ENEURORT01
EXT:    R                  PSID:    FC
SCLK1:  03600807:00:0     SCLK2:  03600808:12:0
SCET1:  1996-251/17:32:57.266  SCET2:  1996-251/17:34:05.933
TARGET: EUROPA            PARTITION: 1
  
```

```

MODE:    3                GAIN:    3
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: 408           TLMFMT:   RT
  
```

```

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

```

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

## EDIT TABLE

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

# G2INCHEMIS05

```

OAPEL:  G2INCHEMIS05          ALIAS:  G2INCHEMIS05
EXT:    A                     PSID:   EC
SCLK1:  03601035:51:0        SCLK2:  03601037:00:0
SCET1:  96-251/21:24:03.904  SCET2:  96-251/21:25:31.237
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: 102                TLMFMT:  MPW
    
```

```

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
                  028, 032, 034, 031, 031, 032, 030, 029
    
```

```

WETGID:  0326102001          03  26  102  001
WTGRP_SIZ: 26
    
```

## EDIT TABLE

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

# G2INTHRMAL01

```

OAPEL:  G2INTHRMAL01          ALIAS:  G2INTHRMAL01
EXT:    A                    PSID:    ED
SCLK1:  03601043:90:0        SCLK2:  03601044:74:0
SCET1:  96-251/21:32:35.237 SCET2:  96-251/21:33:25.237
TARGET: IO                    PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000                MB_UP:   00000
COMP_FLAG: 1
EST_COMP: 2.0                 EST_COMPV: 0.3
RATE_CON1: 00000             RATE_CON2: 65525
NWAVETOT: 10                 TLMFMT:  LPU
  
```

```

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
                  028, 032, 034, 031, 031, 032, 030, 029
  
```

```

WETGID:  0326010001          03  26  010  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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	1D555	1,1101,0101,0101,0101
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



# G2INVOLCAN01

```

OAPEL:  G2INVOLCAN01      ALIAS:  G2INVOLCAN01
EXT:    A                 PSID:    EE
SCLK1:  03601094:90:0    SCLK2:  03601095:44:0
SCET1:  96-251/22:24:09.235  SCET2:  96-251/22:24:39.235
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_COMPV: 0.3
EST_COMP: 2.0          RATE_CON2: 65525
RATE_CON1: 00000      TLMFMT:  LPU
NWAVETOT: 10
  
```

```

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
                  028, 032, 034, 031, 031, 032, 030, 029
  
```

```

WETGID:  0326010001      03  26  010  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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	1D555	1,1101,0101,0101,0101
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

# G2 INVOLCAN02

```

OAPEL:  G2INVOLCAN02      ALIAS:  G2INVOLCAN02
EXT:    A                 PSID:    EF
SCLK1:  03601154:90:0     SCLK2:  03601155:44:0
SCET1:  96-251/23:24:49.232  SCET2:  96-251/23:25:19.232
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_COMPV: 0.3
EST_COMP: 2.0           RATE_CON2: 65525
RATE_CON1: 00000       TLMFMT:  LPU
NWAVETOT: 10
    
```

```

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
                  028, 032, 034, 031, 031, 032, 030, 029
    
```

```

WETGID:  0326010001      03 26 010 001
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	1D555	1,1101,0101,0101,0101
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

# G2 INVOLCAN03

```

OAPEL:  G2INVOLCAN03          ALIAS:  G2INVOLCAN03
EXT:    A                    PSID:    EH
SCLK1:  03601228:90:0        SCLK2:  03601229:44:0
SCET1:  96-252/00:39:38.563  SCET2:  96-252/00:40:08.563
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: 10                 TLMFMT:  LPU
    
```

```

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
                  028, 032, 034, 031, 031, 032, 030, 029
    
```

```

WETGID:  0326010001          03 26 010 001
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	1D555	1,1101,0101,0101,0101
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

# G2 INVOLCAN04

```

OAPEL:  G2INVOLCAN04          ALIAS:  G2INVOLCAN04
EXT:    A                     PSID:    EI
SCLK1:  03601377:90:0        SCLK2:  03601378:44:0
SCET1:  96-252/03:10:17.891 SCET2:  96-252/03:10:47.891
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_COMPV: 0.3
EST_COMP: 2.0                RATE_CON2: 65525
RATE_CON1: 00000             TLMFMT:  LPU
NWAVETOT: 10
  
```

```

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
                  028, 032, 034, 031, 031, 032, 030, 029
  
```

```

WETGID:  0326010001          03 26 010 001
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	1D555	1,1101,0101,0101,0101
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

# G2 INVOLCAN05

```

OAPEL:  G2INVOLCAN05          ALIAS:  G2INVOLCAN05
EXT:    A                     PSID:    EJ
SCLK1:  03601505:00:0        SCLK2:  03601505:45:0
SCET1:  96-252/05:18:42.553 SCET2:  96-252/05:19:12.553
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: 10                 TLMFMT:  LPU
  
```

```

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
                  028, 032, 034, 031, 031, 032, 030, 029
  
```

```

WETGID:  0326010001          03 26 010 001
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	1D555	1,1101,0101,0101,0101
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

# G2HNDARK\_\_05

```

OAPEL:  G2HNDARK__05          ALIAS:  G2HNDARK__05
EXT:    A                     PSID:   EK
SCLK1:  03601512:00:0        SCLK2:  03601513:00:0
SCET1:  96-252/05:25:47.220  SCET2:  96-252/05:26:47.886
TARGET: SKY                   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: 34                  TLMFMT:  LPU
    
```

```

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

```

WETGID:  0326034001          03  26  034  001
WTGRP_SIZ: 26
    
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	1FFFF	1,1111,1111,1111,1111
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
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

# G2NNPCTCAL01

```

OAPEL:  G2NNPCTCAL01      ALIAS:  G2NNPCTCAL01
EXT:    B                  PSID:    EP
SCLK1:  03602073:00:0     SCLK2:  03602076:02:0
SCET1:  96-252/14:53:01.198  SCET2:  96-252/14:56:05.198
TARGET: CAL                PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000             MB_UP:   00000
COMP_FLAG: 1               EST_COMPV: 0.3
EST_COMP: 2.0              RATE_CON2: 65525
RATE_CON1: 00000           TLMFMT:  LPU
NWAVETOT: 180
  
```

```

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

```

WETGID:  0326180001      03  26  180  001
WTGRP_SIZ: 26
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FE00	1,1111,1110,0000,0000
1	1FE00	1,1111,1110,0000,0000
2	1FE00	1,1111,1110,0000,0000
3	1FE00	1,1111,1110,0000,0000
4	1FE00	1,1111,1110,0000,0000
5	1FE00	1,1111,1110,0000,0000
6	1FE00	1,1111,1110,0000,0000
7	1FE00	1,1111,1110,0000,0000
8	1FE00	1,1111,1110,0000,0000
9	1FE00	1,1111,1110,0000,0000
10	1FE00	1,1111,1110,0000,0000
11	1FE00	1,1111,1110,0000,0000
12	1FC00	1,1111,1100,0000,0000
13	1FC00	1,1111,1100,0000,0000
14	1FC00	1,1111,1100,0000,0000
15	1FC00	1,1111,1100,0000,0000
16	1FC00	1,1111,1100,0000,0000
17	1FC00	1,1111,1100,0000,0000
18	1FC00	1,1111,1100,0000,0000
19	1FC00	1,1111,1100,0000,0000
20	1FC00	1,1111,1100,0000,0000
21	1FC00	1,1111,1100,0000,0000
22	1FC00	1,1111,1100,0000,0000
23	1FC00	1,1111,1100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

# G2NNRECOVY04

```

OAPEL:  G2NNRECOVY04      ALIAS:  G2NNRECOVY04
EXT:    R                  PSID:    FX
SCLK1:  03602588:00:0     SCLK2:  03602588:12:0
SCET1:  1996-252/23:33:44.533  SCET2:  1996-252/23:33:52.533
TARGET: CAL                PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000           MB_UP:    00000
COMP_FLAG: 0             EST_COMPV: 0.0
EST_COMP: 0.0           RATE_CON2: 00000
RATE_CON1: 00000       TLMFMT:  RT
NWAVETOT: 003
  
```

```

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

```

WETGID:  0302003000      03  02  003  000
WTGRP_SIZ: 2
  
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	08044	0,1000,0000,0100,0100
1	00000	0,0000,0000,0000,0000
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
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



# G2CNGLOBAL01

```

OAPEL:  G2CNGLOBAL01          ALIAS:  G2CNGLOBAL01
EXT:    A                     PSID:    EL
SCLK1:  03603235:52:0        SCLK2:  03603245:68:0
SCET1:   96-253/10:28:30.490 SCET2:   96-253/10:38:47.823
TARGET:  CALLISTO           PARTITION: 1
  
```

```

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

```

MB_DOWN: 00000                MB_UP:   00000
COMP_FLAG: 1                   EST_COMPV: 0.3
EST_COMP: 2.0                 RATE_CON2: 65525
RATE_CON1: 00000              TLMFMT:  MPW
NWAVETOT: 408
  
```

```

THRESHOLD_SEL: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
                  028, 032, 034, 031, 031, 032, 030, 029
  
```

```

WETGID:  0326408001          03 26 408 001
WTGRP_SIZ: 26
  
```

## EDIT TABLE

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

# G2HNDARK\_\_06

```

OAPEL:  G2HNDARK__06          ALIAS:  G2HNDARK__06
EXT:    A                      PSID:   EM
SCLK1:  03603261:00:0        SCLK2:  03603262:00:0
SCET1:   96-253/10:54:13.155  SCET2:   96-253/10:55:13.822
TARGET: SKY                    PARTITION: 1
    
```

```

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

```

MB_DOWN: 00000                MB_UP:   00000
COMP_FLAG: 1
EST_COMP: 2.0                 EST_COMPV: 0.3
RATE_CON1: 00000             RATE_CON2: 65525
NWAVETOT: 34                 TLMFMT:  LPU
    
```

```

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

```

WETGID:  0326034001          03  26  034  001
WTGRP_SIZ: 26
    
```

## EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	1FFFF	1,1111,1111,1111,1111
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	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	00000	0,0000,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	00000	0,0000,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	00000	0,0000,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	00000	0,0000,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	00000	0,0000,0000,0000,0000
21	00000	0,0000,0000,0000,0000
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

# G2CNCALLRT01

```

OAPEL:  G2CNCALLRT01          ALIAS:  G2CNCALLRT01
EXT:    R                      PSID:    ET
SCLK1:  03603270:00:0        SCLK2:  03603271:12:0
SCET1:  1996-253/11:03:19.133 SCET2:  1996-253/11:04:27.800
TARGET: CALLISTO              PARTITION: 1
    
```

```

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

```

MB_DOWN: 11011                MB_UP:    11011
COMP_FLAG: 0
EST_COMP: 0.0                EST_COMPV: 0.0
RATE_CON1: 00000            RATE_CON2: 00000
NWAVETOT: 408                TLMFMT:   RT
    
```

```

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

```

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

## EDIT TABLE

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

# G2NNRCTRLT01

```

OAPEL:  G2NNRCTRLT01          ALIAS:  LSNNRCTRTA01
EXT:    R                     PSID:    XU
SCLK1:  03608132:00:0        SCLK2:  03608132:12:0
SCET1:  1996-256/20:59:20.333 SCET2:  1996-256/20:59:28.333
TARGET: CAL                   PARTITION: 1
  
```

```

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

```

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

```

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

# G2NNRCTRLT01

```

OAPEL:  G2NNRCTRLT01          ALIAS:  LSNNRCTRTA01
EXT:    S                      PSID:    XU
SCLK1:  03608138:00:0         SCLK2:  03608139:12:0
SCET1:  1996-256/21:05:24.333 SCET2:  1996-256/21:06:33.000
TARGET: CAL                    PARTITION: 1
  
```

```

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

```

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

```

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

# G2NNRCTRLT01

```

OAPEL:  G2NNRCTRLT01      ALIAS:  LSNNRCTRTA01
EXT:    T                  PSID:    XU
SCLK1:  03608144:00:0     SCLK2:  03608144:12:0
SCET1:  1996-256/21:11:28.333  SCET2:  1996-256/21:11:36.333
TARGET: CAL                PARTITION: 1
  
```

```

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

```

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

```

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

# G2NNRCTRLT02

```

OAPEL:  G2NNRCTRLT02          ALIAS:  LSNNRCTRIB01
EXT:    R                     PSID:    XI
SCLK1:  03652856:00:0        SCLK2:  03652856:12:0
SCET1:  1996-288/06:40:14.666 SCET2:  1996-288/06:40:22.666
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, 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

# G2NNRCTRLT02

```

OAPEL:  G2NNRCTRLT02          ALIAS:  LSNNRCTRIB01
EXT:    S                     PSID:    XI
SCLK1:  03652862:00:0        SCLK2:  03652863:12:0
SCET1:  1996-288/06:46:18.666 SCET2:  1996-288/06:47:27.333
TARGET: CAL                   PARTITION: 1
  
```

```

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

```

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

```

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



# G2NNRCTRLT02

```

OAPEL:  G2NNRCTRLT02          ALIAS:  LSNNRCTRIB01
EXT:    T                      PSID:   XI
SCLK1:  03652868:00:0         SCLK2:  03652868:12:0
SCET1:  1996-288/06:52:22.666 SCET2:  1996-288/06:52:30.666
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, 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

# G2NNOPCAL\_02

```

OAPEL:  G2NNOPCAL_02          ALIAS:  G2NNOPCAL_02
EXT:    R                    PSID:    DA
SCLK1:  03670156:00:0        SCLK2:  03670158:12:0
SCET1:  1996-300/10:12:27.000 SCET2:  1996-300/10:14:36.333
TARGET: CAL                  PARTITION: 1
  
```

```

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

```

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

```

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

```

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

## EDIT TABLE

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

NIMS G2 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS G2 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

<tbdb> 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: <tbdb>
* 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)



```

# WETGID      10 319 - 328      .Wavelength selection group ID (unique)      PBK: WET_GID      (realtime <tbd>)
Rule of formation: mmeelll1nnn 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 BHHH 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\_RINGS - R - Jupiter rings
- (the single letter abbreviation appears as the third character in the OAPEL name ).













## Chapter 5 - Detailed Observation Designs

### Contents

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## 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.

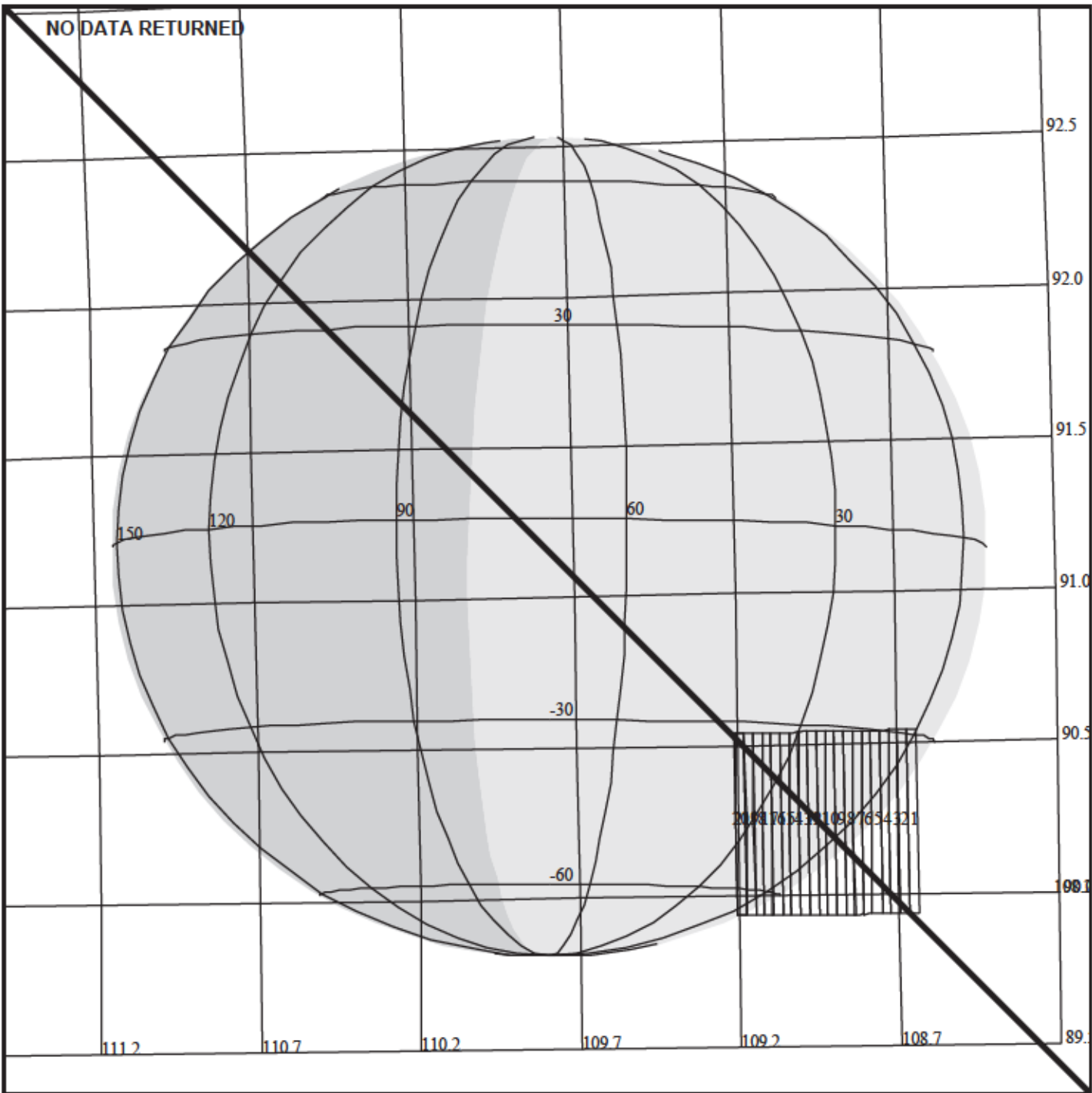
The Pointer plots have the spatial extent of the actual data returned outlined with a thick line. When no data were returned for a particular observation, its Pointer plot has a single slash across the plot with the text "NO DATA RETURNED" printed in the upper left corner of the plot.

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 return 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 chopper turn on		ACTIVITY ID: G2NNCHOPON01-	
		START TIME: 96-247/16:59:59.333	
Activity ID: Orbit G2 Target N Inst N OAPEL CHOPON SeqNo 01 -			
Title	NIMS chopper turn on		Instrument
Requestor	NIMS-SWG/R. LOPES		NIMS
	Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2A
		Calendar Date	09/03/96
		Week	36
Start	GEE-CDS 4391:34:0	96-247/16:59:59.333	GEE-003/02:00:10.000
End	GEE-CDS 4385:40:0	96-247/17:05:59.333	GEE-003/01:54:10.000
Duration	5:85:0	000/00:06:00.000	000/00:06:00.000
Top Label	G2NNCHOPON01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	52	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	No
		DMS	No
Observation Objective			
To turn the NIMS instrument chopper on and change its mode to REFERENCE.			
Design Detail			
Use two NIMS 37IST commands, the first to turn chopper on and the second to reference:			
37IST,1,0,0,OFF,0,0,0 Chopper 63 HZ			
37IST,1,2,0,OFF,0,0,0 Chopper Reference			
Also, issue a 37MB command to enable all mirror positions:			
37MB,0,0,0,0,0,0 (00000,00000)			
Galileo Activity Plan Form		06/17/96	12:41:01 rev 6/95



**G2JNSL9LIM01**

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNSL9LIM01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:JEE 96-251/13:37:25.933 -003/20:13:37.000

OBSERVATION:G2JNSL9LIM01

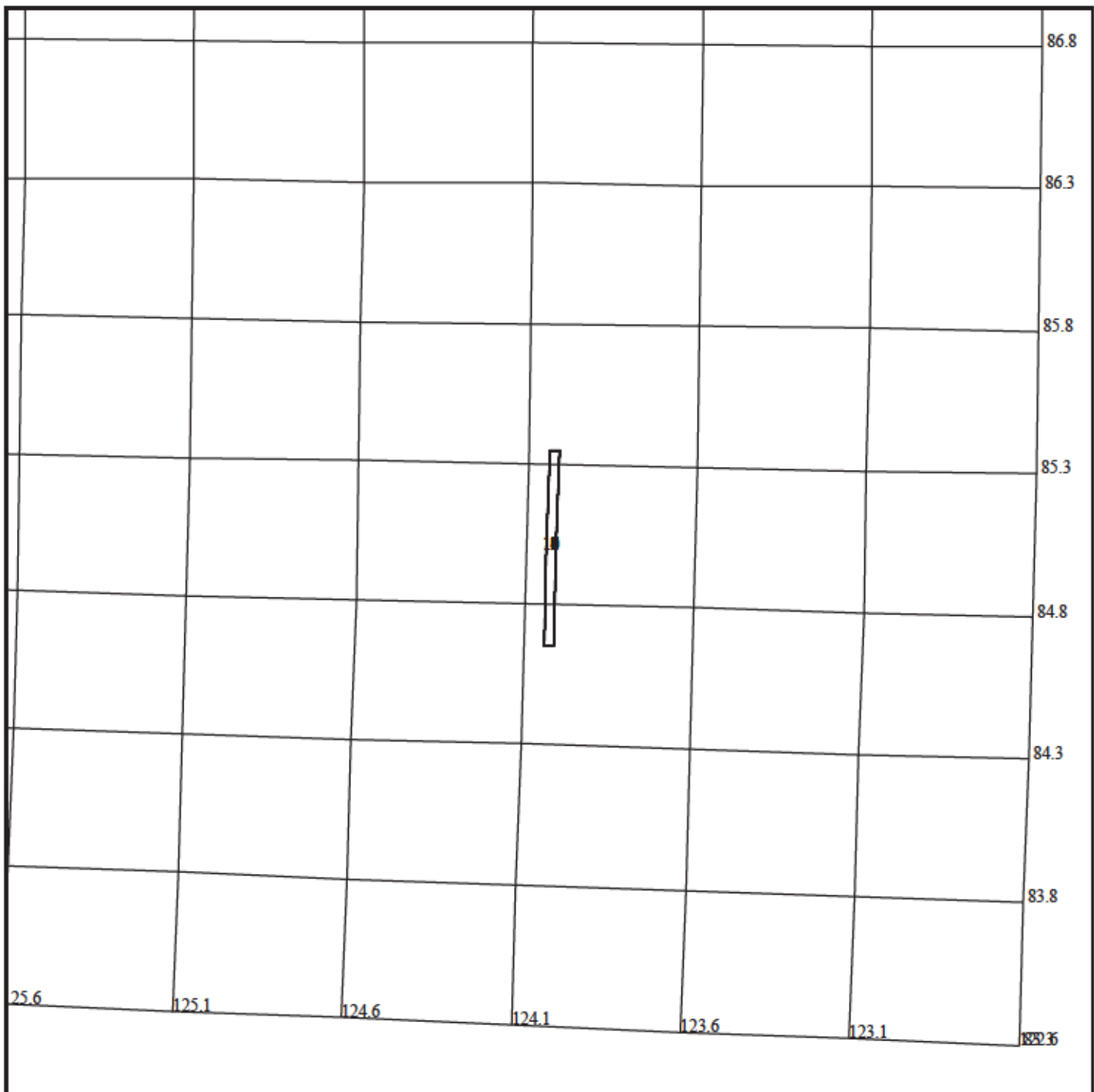
165EY:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS=07440 TC=1(-45 355 )  
 A= 364 pD= 0 SR=17.430 RA50=205.02 DEC50= -9.12 cone=108.66 clock=90.24  
 117EY:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=07440  
 1:fs= 1Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 8.00 sD= 1080 rD= 2

THINNING:NIM 2

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

DESCRIP:SL9\_IMPACT

Jupiter SL9 impact site limb observation		ACTIVITY ID:	G2JNSL9LIM01-		
		START TIME:	96-247/17:22:27.933		
Activity ID: Orbit G2 Target J Inst N OAPEL SL9LIM SeqNo 01 -					
Title	Jupiter SL9 impact site limb observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team	NIMS Working Group	AWG
Time System	CDS	Load ID	G2A	Calendar Date	09/03/96 Week 36
Start	JEE-CDS	5474:13:0	96-247/17:22:27.933	JEE-003/20:14:58.000	
End	JEE-CDS	5464:81:0	96-247/17:31:49.267	JEE-003/20:05:36.666	
Duration		9:23:0	000/00:09:21.334	000/00:09:21.334	
Top Label	G2JNSL9LIM01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	202	Report Options	BOTH		
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
<p>High spectral resolution map of SL9 impact sites near and on Jupiter's limb, in several methane and hydrogen absorption features. Bright limb at ~45 degrees south latitude imaged in 80 colors distributed among five spectral regions, using NIMS wavelength table JSB80A. Longitudes imaged near limb: 350 - 30 degrees west longitude (System III). Observation acquired near 80 degrees phase.</p>					
No Data Returned					
Design Detail					
<p>Long map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered near limb near 45 degrees south latitude. S/C distance about 2.95 million KM. NIMS IFOV (i.e., nimsel)=1500 KM; 1*1 image covers about 30000 KM. About 6 minutes of scanning, accumulating 0.363 MBTG and using 0.0121 tracks. 2 minutes reserved for targetting, following the SSI imaging of the same target.</p>					
Long Map (LM), Gain 2, Grating Start 0, LPU, G2SB235A, G2JSB80A					
Galileo Activity Plan Form			06/17/96	12:41:01	rev 6/95



165DA:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=577104 TC= 2(124 85 )  
 A= 718 pD= 0 SR=17.430 RA50=218.08 DEC50=-18.98 cone=124.00 clock= 85.00

## G2NNOPCAL\_01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2NNOPCAL\_01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GEE 96-250/19:00:09.333 -CDS 3216:00:0

OBSERVATION:G2NNOPCAL\_01

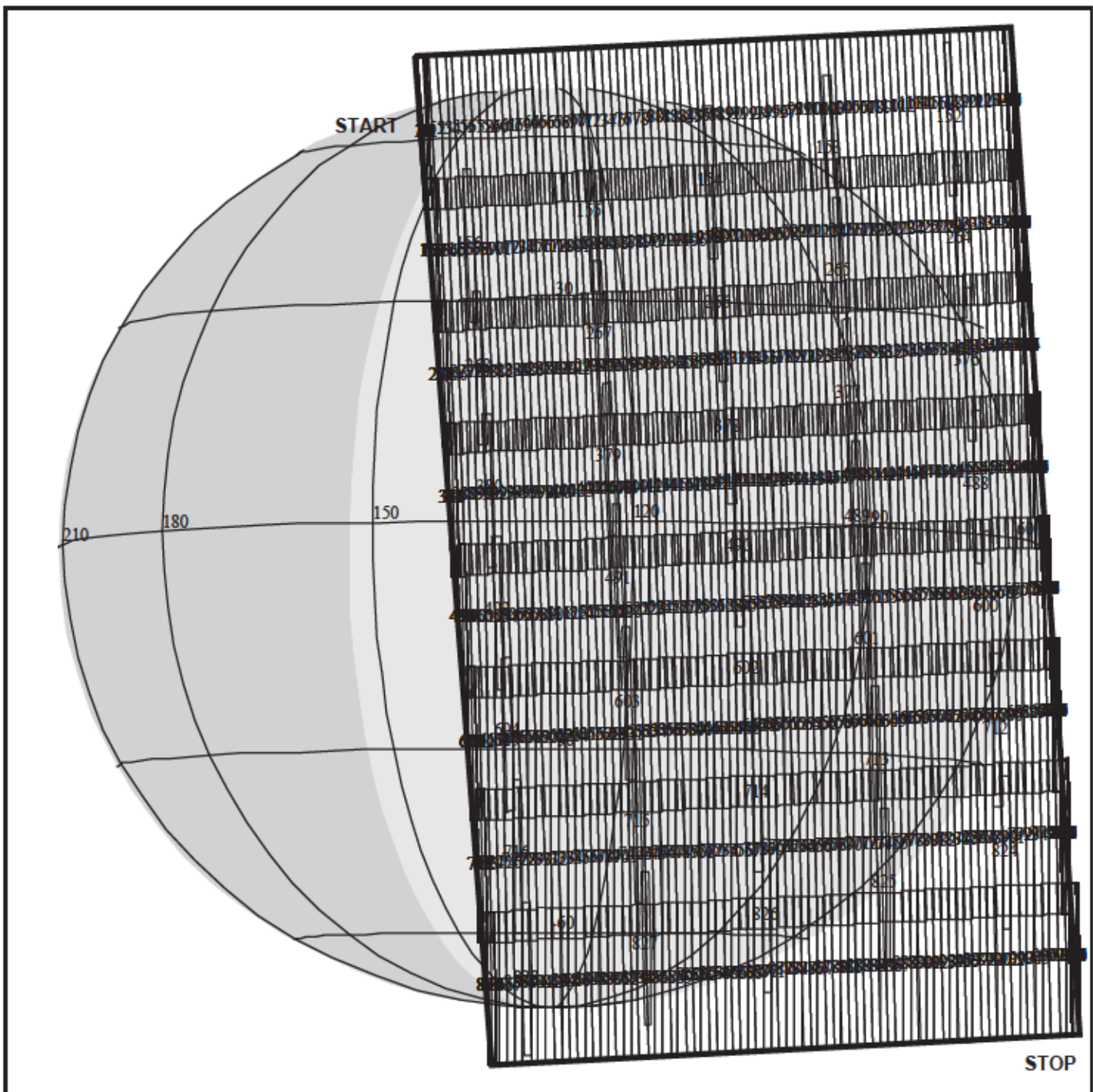
THINNING:NIM 1

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

DESCRIP:DARK SKY 01



OPCAL RT		ACTIVITY ID: G2NNOPCAL_01-	
		START TIME: 96-248/12:44:59.333	
Activity ID: Orbit G2 Target N Inst N OAPEL OPCAL_ SeqNo 01 -			
Title	OPCAL RT	Instrument	
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G2A
		Calendar Date	09/04/96
		Week	36
Start	GEE-CDS 3219:36:0	96-248/12:44:59.333	GEE-002/06:15:10.000
End	GEE-CDS 3214:39:0	96-248/12:50:00.667	GEE-002/06:10:08.666
Duration	4:88:0	000/00:05:01.334	000/00:05:01.334
Top Label	G2OPCAL 01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	217	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	DMS
			Yes
			Yes
Observation Objective			
To perform an Optical Calibration of the NIMS instrument			
Data Returned			
Design Detail			
Long Map			
Gain State 4			
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)			
ETB selects Detectors 1 and 2 only.			
NIMS is selected in Real Time for 12 mf.			
Only one Long Map grating cycle is returned.			
Long Map (LM), Gain 4, Grating Start 0, R/T, G2OPCAL48			
Galileo Activity Plan Form		06/17/96 12:41:01	rev 6/95



**G2JNGLOMOS01**

165DB:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=480510 TC=1(62 160 )  
 A= 728 pD= 0 SR=17.430 RA50=219.71 DEC50=-12.67 cone=123.34 clock= 92.77  
 117DB:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS=480510  
 1:#s= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.00 sD= 202 rD= 22

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

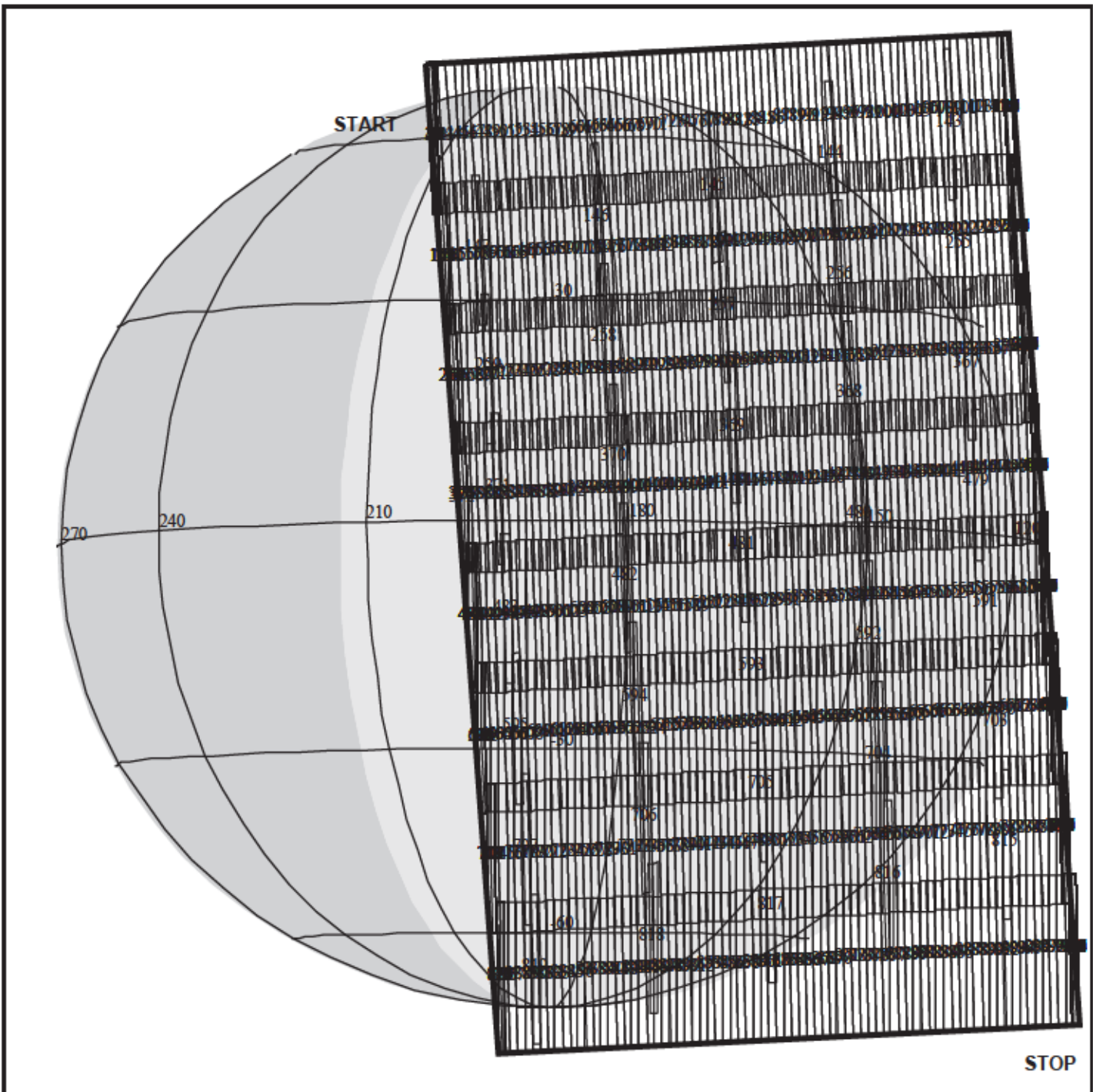
START:JEE 96-251/13:37:25.933 -CDS 03587:49:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

OBSERVATION:G2JNGLOMOS01

DESCRIP:JUPITER GLOBAL MOSAIC PART 1

JUPITER GLOBAL MOSAIC PART 1		ACTIVITY ID:	G2JNGLOMOS01-		
		START TIME:	96-249/01:06:59.267		
Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 01 -					
Title	JUPITER GLOBAL MOSAIC PART 1		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES		Team	NIMS Working Group	AWG
Time System	CDS	Load ID	G2A	Calendar Date	09/05/96 Week 36
Start	JEE-CDS	3590:50:0	96-249/01:06:59.267	JEE-002/12:30:26.666	
End	JEE-CDS	3576:62:0	96-249/01:21:00.600	JEE-002/12:16:25.333	
Duration		13:79:0	000/00:14:01.333	000/00:14:01.333	
Top Label	G2JNGLOMOS01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH		
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
<p>Part 1 of Jupiter global mosaic.  Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimse1 resolution. This map acquired near 130 degrees CML.</p>					
Data Returned - some gores.					
Design Detail					
<p>See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks. 4 minutes reserved for targetting.</p>					
Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A					
Galileo Activity Plan Form			06/17/96	12:41:01	rev 6/95



**G2JNGLOMOS02**

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:JEE 96-251/13:37:25.933 -CDS 03488:58:0

OBSERVATION:G2JNGLOMOS02

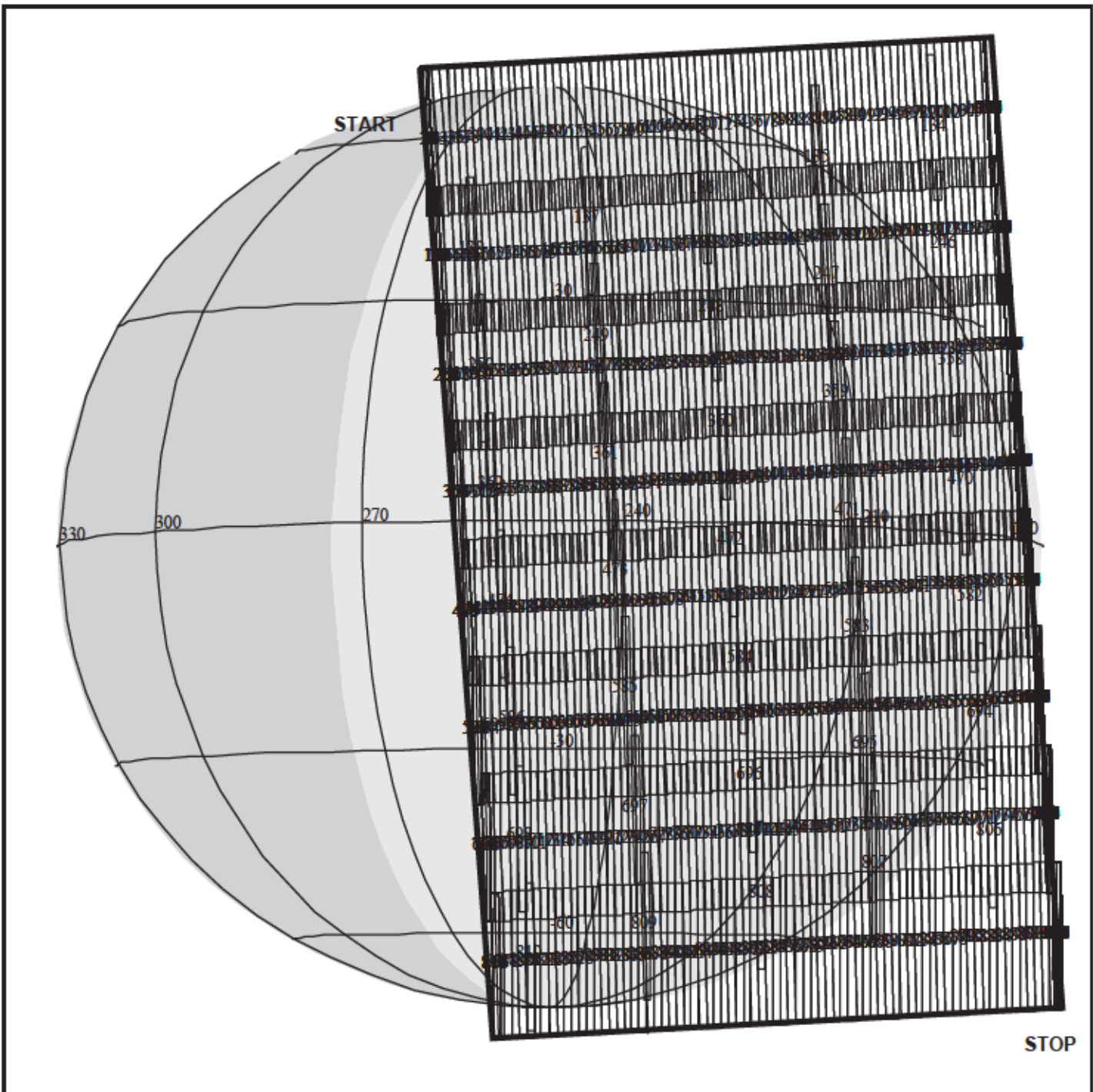
165DC:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=39/8528 TC= 1(60 215 )  
 A= 728 pD= 0 SR=17.430 RA50=220.59 DEC50=-13.01 cone=124.26 clock= 92.77  
 117DC:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS=39/8528  
 1:s= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.00 sD= 202 rD= 22

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

DESCRIP:JUPITER GLOBAL MOSAIC PART 2

JUPITER GLOBAL MOSAIC PART 2		ACTIVITY ID:	G2JNGLOMOS02-		
		START TIME:	96-249/02:46:59.267		
Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 02 -					
Title	JUPITER GLOBAL MOSAIC PART 2		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES		Team	NIMS Working Group	AWG
Time System	CDS	Load ID	G2A	Calendar Date	09/05/96 Week 36
Start	JEE-CDS	3491:59:0	96-249/02:46:59.267	JEE-002/10:50:26.666	
End	JEE-CDS	3477:71:0	96-249/03:01:00.600	JEE-002/10:36:25.333	
Duration		13:79:0	000/00:14:01.333	000/00:14:01.333	
Top Label	G2JNGLOMOS02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH		
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
<p>Part 2 of Jupiter global mosaic.  Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimsel resolution. This map acquired near 180 degrees CML.</p>					
Data Returned - some gores.					
Design Detail					
<p>See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks. 4 minutes reserved for targetting.</p>					
Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A					
Galileo Activity Plan Form			06/17/96	12:41:01	rev 6/95



165DD:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=3016546 TC=1(59 275 )  
 A= 728 pD= 0 SR=17.430 RA50=221.57 DEC50=-13.37 cone=125.28 clock= 92.79  
 117DD:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS=3016546  
 1:#s= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.00 sD= 202 rD= 22

## G2JNGLOMOS03

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

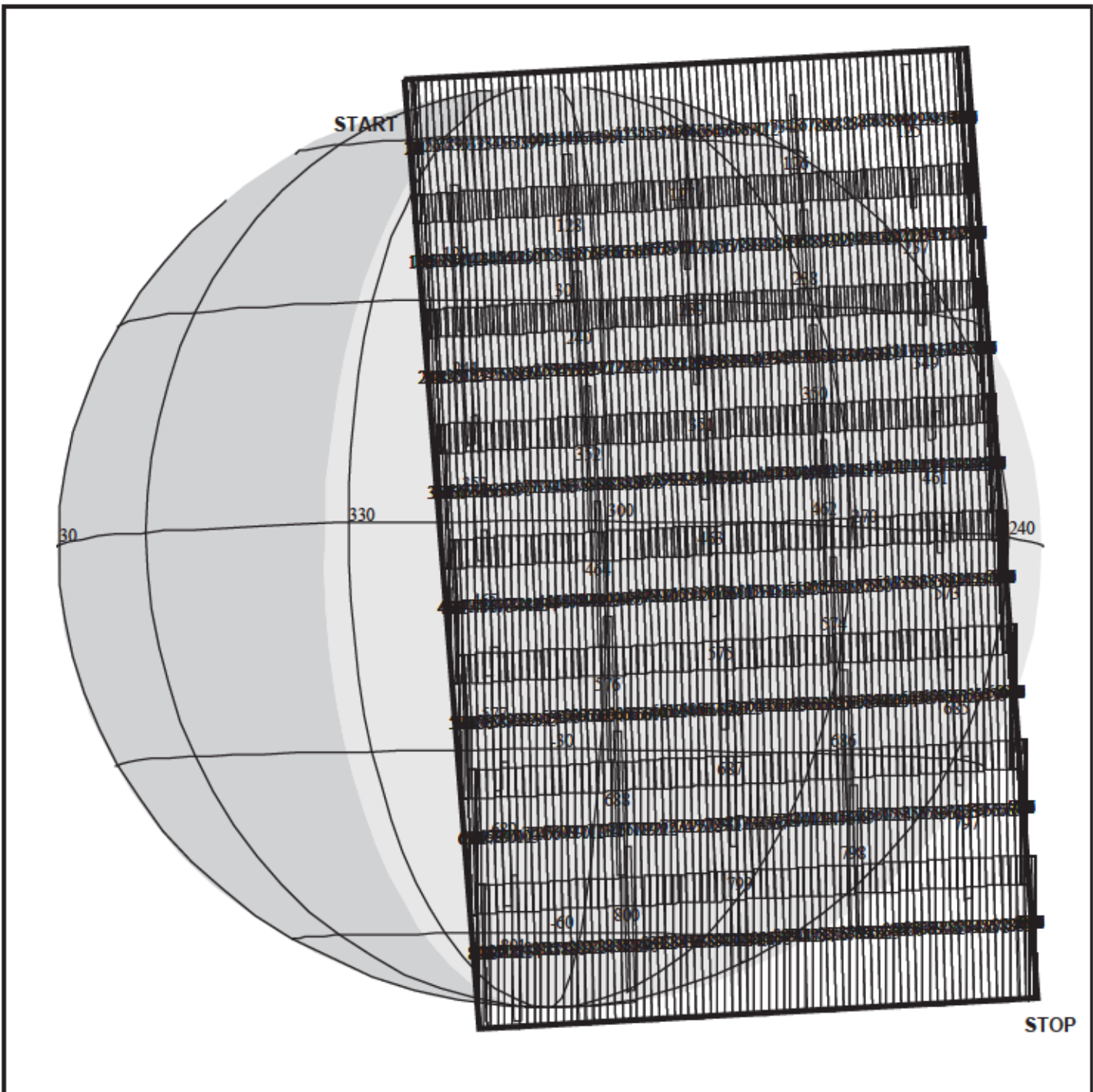
THINNING:NIM 2

START:JEE 96-251/13:37:25.933 -CDS 003389:67:0 BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

OBSERVATION:G2JNGLOMOS03

DESCRIP:JUPITER GLOBAL MOSAIC PART 3

JUPITER GLOBAL MOSAIC PART 3		ACTIVITY ID:	G2JNGLOMOS03-		
		START TIME:	96-249/04:26:59.267		
Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 03 -					
Title	JUPITER GLOBAL MOSAIC PART 3		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES		Team	NIMS Working Group	AWG
Time System	CDS	Load ID	G2A	Calendar Date	09/05/96 Week 36
Start	JEE-CDS	3392:68:0	96-249/04:26:59.267	JEE-002/09:10:26.666	
End	JEE-CDS	3378:80:0	96-249/04:41:00.600	JEE-002/08:56:25.333	
Duration		13:79:0	000/00:14:01.333	000/00:14:01.333	
Top Label	G2JNGLOMOS03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH		
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes
			DMS		Yes
Observation Objective					
<p>Part 3 of Jupiter global mosaic.  Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimsel resolution. This map acquired near 250 degrees CML.</p>					
Data Returned - some gores.					
Design Detail					
<p>See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks. 4 minutes reserved for targetting.</p>					
Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A					
Galileo Activity Plan Form			06/17/96	12:41:01	rev 6/95



165DE:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=21/4200 TC= (157 335 )  
 A= 728 pD= 0 SR=17.430 RA50=222.61 DEC50=-13.76 cone=126.36 clock= 92.80  
 117DE:#SB= 1 OR=0.750 RR=12.000 BM=F RC= 1 BS=21/4200  
 1:fs= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.00 sD= 202 rD= 22

## G2JNGLOMOS04

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 96-251/13:37:25.933 -CDS 003292:76:0 BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

OBSERVATION:G2JNGLOMOS04

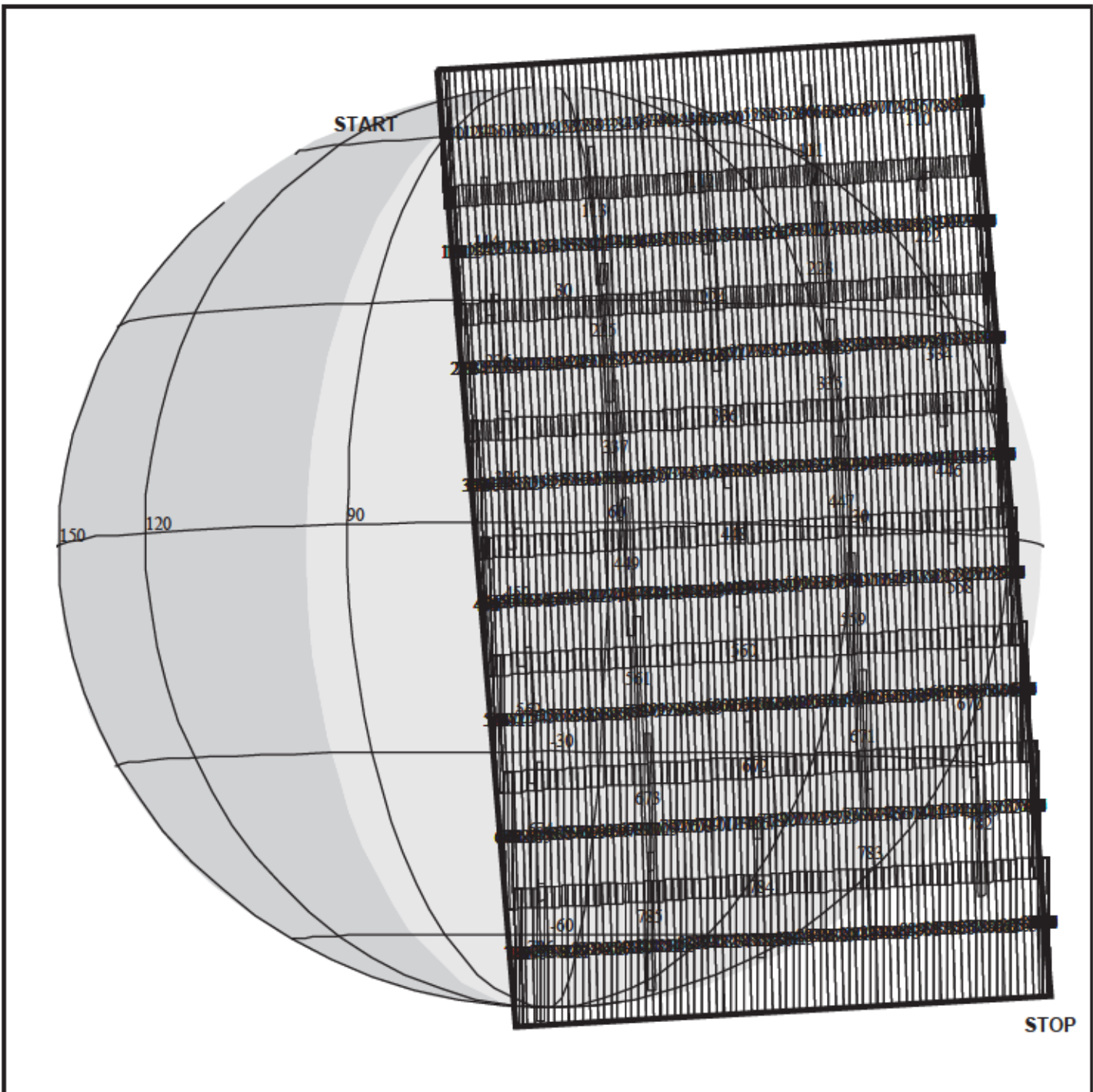
DESCRIP:JUPITER GLOBAL MOSAIC PART 4



JUPITER GLOBAL MOSAIC PART 4		ACTIVITY ID: G2JNGLOMOS04-	
		START TIME: 96-249/06:03:56.600	
Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 04 -			
Title	JUPITER GLOBAL MOSAIC PART 4	Instrument NIMS	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG
Time System	CDS	Load ID G2A	Calendar Date 09/05/96 Week 36
Start	JEE-CDS 3296:78:0	96-249/06:03:56.600	JEE-002/07:33:29.333
End	JEE-CDS 3282:90:0	96-249/06:17:57.933	JEE-002/07:19:28.000
Duration	13:79:0	000/00:14:01.333	000/00:14:01.333
Top Label	G2JNGLOMOS04-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	147	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Part 4 of Jupiter global mosaic.  Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimse1 resolution. This map acquired near 310 degrees CML.</p>			
Data Returned - some gores.			
Design Detail			
<p>See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks. 4 minutes reserved for targetting.</p>			
Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A			
Galileo Activity Plan Form		06/17/96 12:41:01	rev 6/95



JUPITER GLOBAL MOSAIC PART 5		ACTIVITY ID: G2JNGLOMOS05-	
		START TIME: 96-249/07:47:56.600	
Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 05 -			
Title	JUPITER GLOBAL MOSAIC PART 5	Instrument NIMS	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG
Time System	CDS	Load ID G2A	Calendar Date 09/05/96 Week 36
Start	JEE-CDS 3194:00:0	96-249/07:47:56.600	JEE-002/05:49:29.333
End	JEE-CDS 3182:00:0	96-249/08:00:04.600	JEE-002/05:37:21.333
Duration	12:00:0	000/00:12:08.000	000/00:12:08.000
Top Label	G2JNGLOMOS05-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	147	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Part 5 of Jupiter global mosaic.  Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns)  to obtain global maps depicting features at ~1100 km/nimsel resolution.  This map acquired near 10 degrees CML.</p>			
Data Returned - some gores.			
Design Detail			
<p>See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist  sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole  in N/S direction and about 1 fractional radius in the East-West direction  (i.e., ~60 degrees of longitude at the Equator). About 10 minutes  of scanning, accumulating 0.925 MBTG and 0.0202 tracks.  4 minutes reserved for targetting.</p>			
Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A			
Galileo Activity Plan Form		06/17/96 12:41:01	rev 6/95



165DG:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=60600 TC=1(60 90 )  
 A=728 pD= 0 SR=17.430 RA50=224.68 DEC50=-14.39 cone=128.47 clock=92.95  
 117DG:#SB=1 OR=0.750 RR=12.000 BM=F RC= 1 BS=60600  
 1:fs= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.50 sD= 202 rD= 22

## G2JNGLOMOS06

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS06

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:JEE 96-251/13:37:25.933 -CDS 03093:03:0

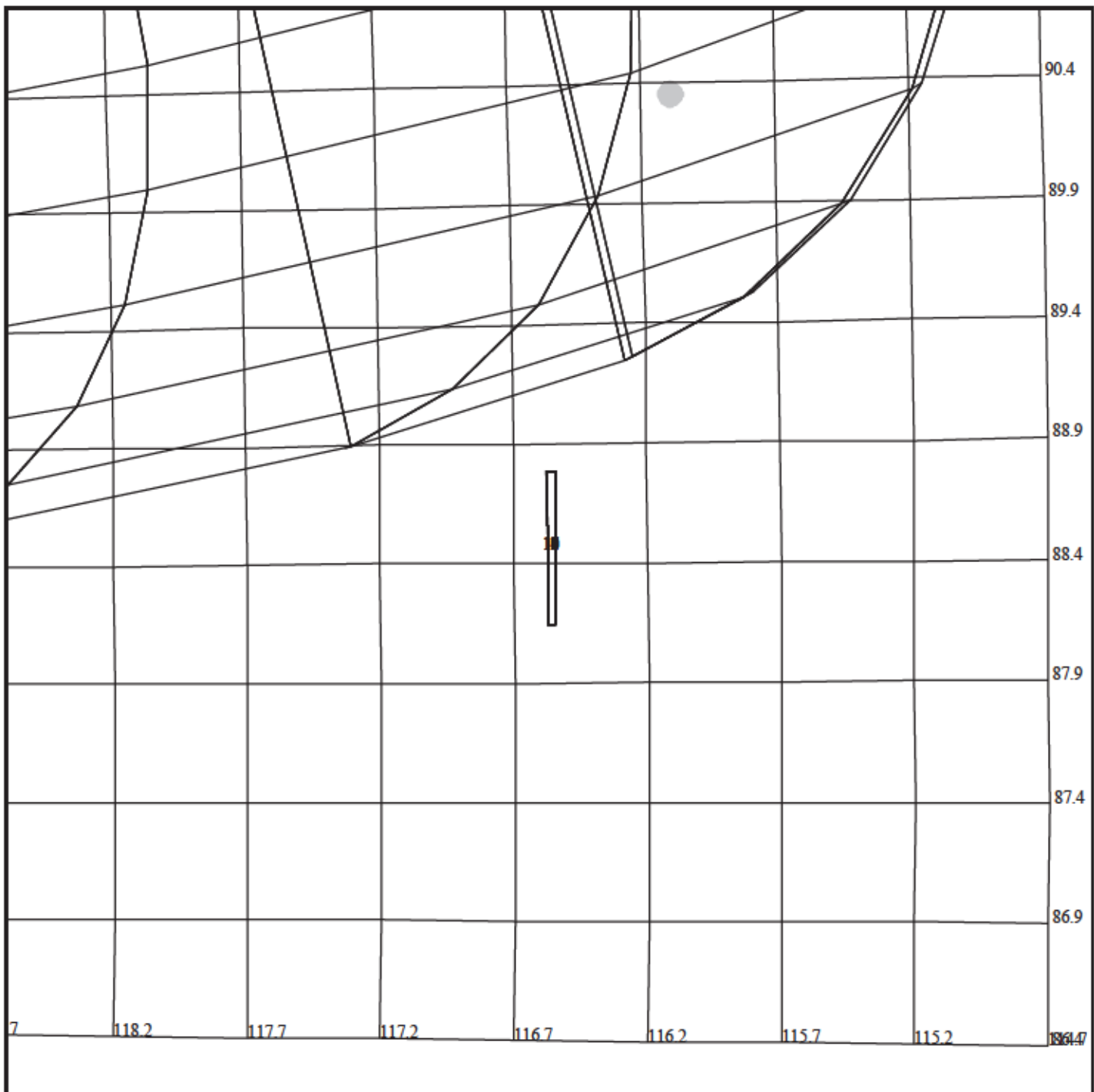
OBSERVATION:G2JNGLOMOS06

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

DESCRIP:JUPITER GLOBAL MOSAIC PART 6

JUPITER GLOBAL MOSAIC PART 6		ACTIVITY ID: G2JNGLOMOS06-	
		START TIME: 96-249/09:27:00.600	
Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 06 -			
Title	JUPITER GLOBAL MOSAIC PART 6	Instrument NIMS	
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG
Time System	CDS	Load ID G2A	Calendar Date 09/05/96 Week 36
Start	JEE-CDS 3096:02:0	96-249/09:27:00.600	JEE-002/04:10:25.333
End	JEE-CDS 3082:16:0	96-249/09:41:00.600	JEE-002/03:56:25.333
Duration	13:77:0	000/00:14:00.000	000/00:14:00.000
Top Label	G2JNGLOMOS06-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	147	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Part 6 of Jupiter global mosaic.  Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimse1 resolution. This map acquired near 70 degrees CML.</p>			
Data Returned - some gores.			
Design Detail			
<p>See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks. 4 minutes reserved for targetting.</p>			
Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A			
Galileo Activity Plan Form		06/17/96 12:41:02	rev 6/95



165DH:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=363330 TC= 2(116.6 88.5 )  
 A= 718 pD= 0 SR=12.000 RA50=211.88 DEC50=-13.64 cone=116.60 clock= 88.50

## G2HNDARK\_\_02

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2HNDARK\_\_02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

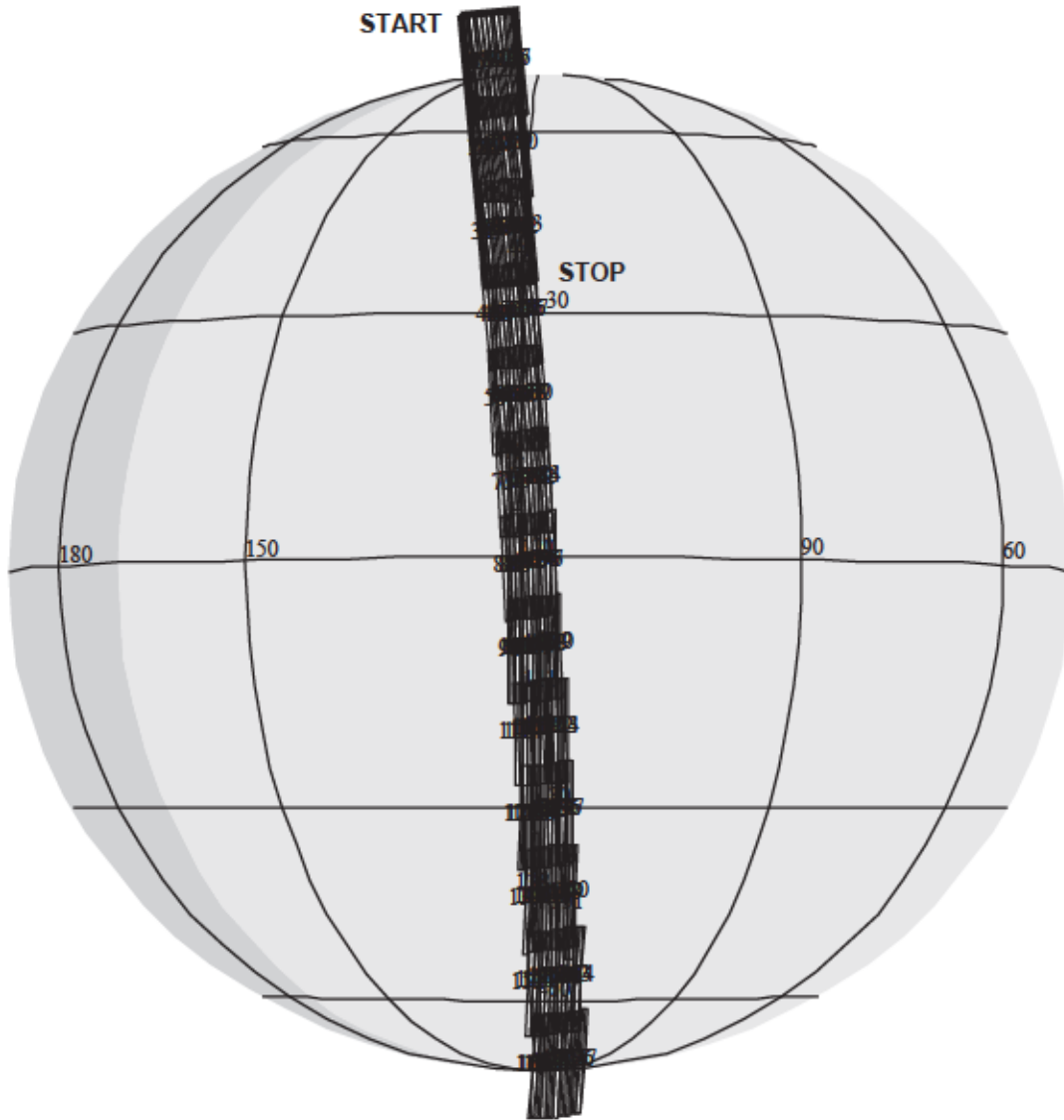
THINNING:NIM 1

START:GEE 96-250/19:00:09.333 -001/09:14:40.000 BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000

OBSERVATION:G2HNDARK\_\_02

DESCRIP:DARK SKY 02

DARK SKY		ACTIVITY ID: G2HNDARK 02-	
		START TIME: 96-249/09:42:12.000	
Activity ID: Orbit G2 Target H Inst N OAPEL DARK SeqNo 02 -			
Title	DARK SKY	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID	G2A
		Calendar Date	09/05/96
		Week	36
Start	GEE-CDS 1976:00:0	96-249/09:42:12.000	GEE-001/09:17:57.333
End	GEE-CDS 1969:00:0	96-249/09:49:16.667	GEE-001/09:10:52.666
Duration	7:00:0	000/00:07:04.667	000/00:07:04.667
Top Label	G2HNDARK 02-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	117	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
Collect Dark Values for calibration purposes.			
Data Returned			
Design Detail			
Slew to dark space and record 1 Rim of dark values.			
Long Map			
Gain State 2			
Long Map (LM), Gain 2, Grating Start 0, LPU, G2DRK34, G2DRK34			
Galileo Activity Plan Form		06/17/96 12:41:02	rev 6/95



**G2JNTHRMNS03**

165DK:TT= 0 TMC=1 C= 5.00 XC= 6.00 BS=5616654 TC= 1(62 120 )  
 A= 728 pD= 0 SR=17.430 RA50=246.44 DEC50=-19.66 cone=149.85 clock=95.44  
 117DK:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS=5616654  
 1:#s= 13 Cs= -3.90 XCs= 0.00 Cr= 5.20 XCr= -8.00 sD= 312 rD= 36

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNTHRMNS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:JEE 96-251/13:37:25.933 -CDS 1795:41:0

OBSERVATION:G2JNTHRMNS03

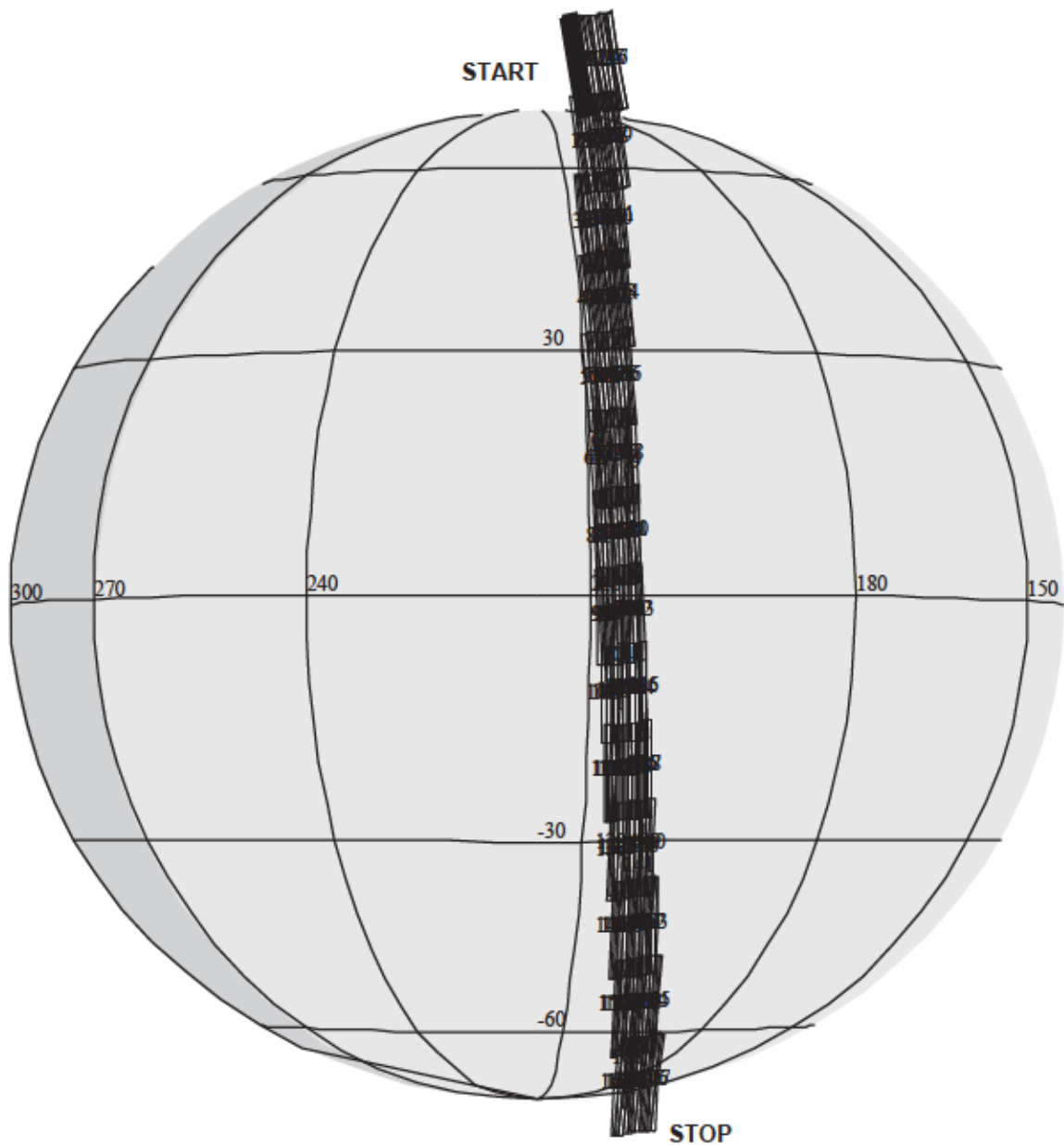
THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

DESCRIP:JUPITER THERMAL NS STRIPES 03



JUPITER THERMAL NORTH-SOUTH STRIPES PRT3 ACTIVITY ID: G2JNTHRMNS03-						
START TIME: 96-250/07:17:57.933						
Activity ID: Orbit G2 Target J Inst N OAPEL THRMNS SeqNo 03 -						
Title	JUPITER THERMAL NORTH-SOUTH STRIPES PRT3Instrument					NIMS
Requestor	NIMS-AWG/K. BAINES			Team	NIMS Working Group	AWG
Time System	CDS	Load ID	G2A	Calendar Date	09/06/96	Week 36
Start	JEE-CDS	1799:43:0		96-250/07:17:57.933	JEE-001/06:19:28.000	
End	JEE-CDS	1769:71:0		96-250/07:47:59.267	JEE-001/05:49:26.666	
Duration		29:63:0		000/00:30:01.334	000/00:30:01.334	
Top Label	G2JNTHRMNS03-					
Bottom Label						
Plot Key	NIMS	Type	SCI			
CDS Bytes	168	Report Options	BOTH		Scan Platform	Yes
CDS Source	PA	Spin State	DUAL		DMS	Yes
Observation Objective						
Part 3 of North-South stripes covering thermal wavelengths from 4.2786 to 5.2198 microns. Determine phosphine and other trace species abundances over latitude.						
Data Returned - 3 swaths out of 13.						
Design Detail						
Follows description in OPG, page A-20, North-South stripe follows classic Z-pattern, each stripe being ~5 degrees wide in longitude. NIMS long map spatially-contiguous spectra. Data acquired in 1/5 NIMS record mode. Uses J5M80A playback table. Observation occurs near 19.6 RJ. About 13 tiers cover the planet. Design similar to previous THRMNS OAPEL. 2.91 MB collected, 1.45 MBTG, 0.0485 tracks. 4 minutes for targetting, 24 minutes, 3 secs for observing (plus 57 secs extra).						
Long Map (LM), Gain 2, Grating Start 0, LPU, G2J5M253A, G2J5M80A						
Galileo Activity Plan Form				06/17/96	12:41:02	rev 6/95



## G2JNTHRMNS04

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNTHRMNS04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:JEE 96-251/13:37:25.933 -CDS 1629:27:0

OBSERVATION:G2JNTHRMNS04

165DL:TT= 0 TMC= 1 C= 0.00 XC= 7.00 BS=706866 TC= 1(70 201 )  
 A= 728 pD= 0 SR=17.430 RA50=250.25 DEC50=-20.10 cone=153.41 clock= 96.64  
 117DL:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS=706866  
 1:#s= 14 Cs= -3.50 XCs= 0.00 Cr= 5.20 XCr= -8.00 sD= 282 rD= 40

THINNING:NIM 1

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

DESCRIP:JUPITER THERMAL NS STRIPES 04

JUPITER THERMAL NORTH-SOUTH STRIPES PRT4 ACTIVITY ID: G2JNTHRMNS04-  
START TIME: 96-250/10:05:57.933

Activity ID: Orbit G2 Target J Inst N OAPEL THRMNS SeqNo 04 -

Title JUPITER THERMAL NORTH-SOUTH STRIPES PRT4Instrument NIMS  
Requestor NIMS-AWG/K. BAINES Team NIMS Working Group AWG

Time System CDS Load ID G2A Calendar Date 09/06/96 Week 36  
Start JEE-CDS 1633:29:0 96-250/10:05:57.933 JEE-001/03:31:28.000  
End JEE-CDS 1603:57:0 96-250/10:35:59.267 JEE-001/03:01:26.666  
Duration 29:63:0 000/00:30:01.334 000/00:30:01.334

Top Label G2JNTHRMNS04-  
Bottom Label

Plot Key NIMS Type SCI  
CDS Bytes 168 Report Options BOTH Scan Platform No  
CDS Source PA Spin State ALL DMS No

#### Observation Objective

Part 4 of North-South stripes covering thermal wavelengths from 4.2786 to 5.2198 microns. Determine phosphine and other trace species abundances over latitude.

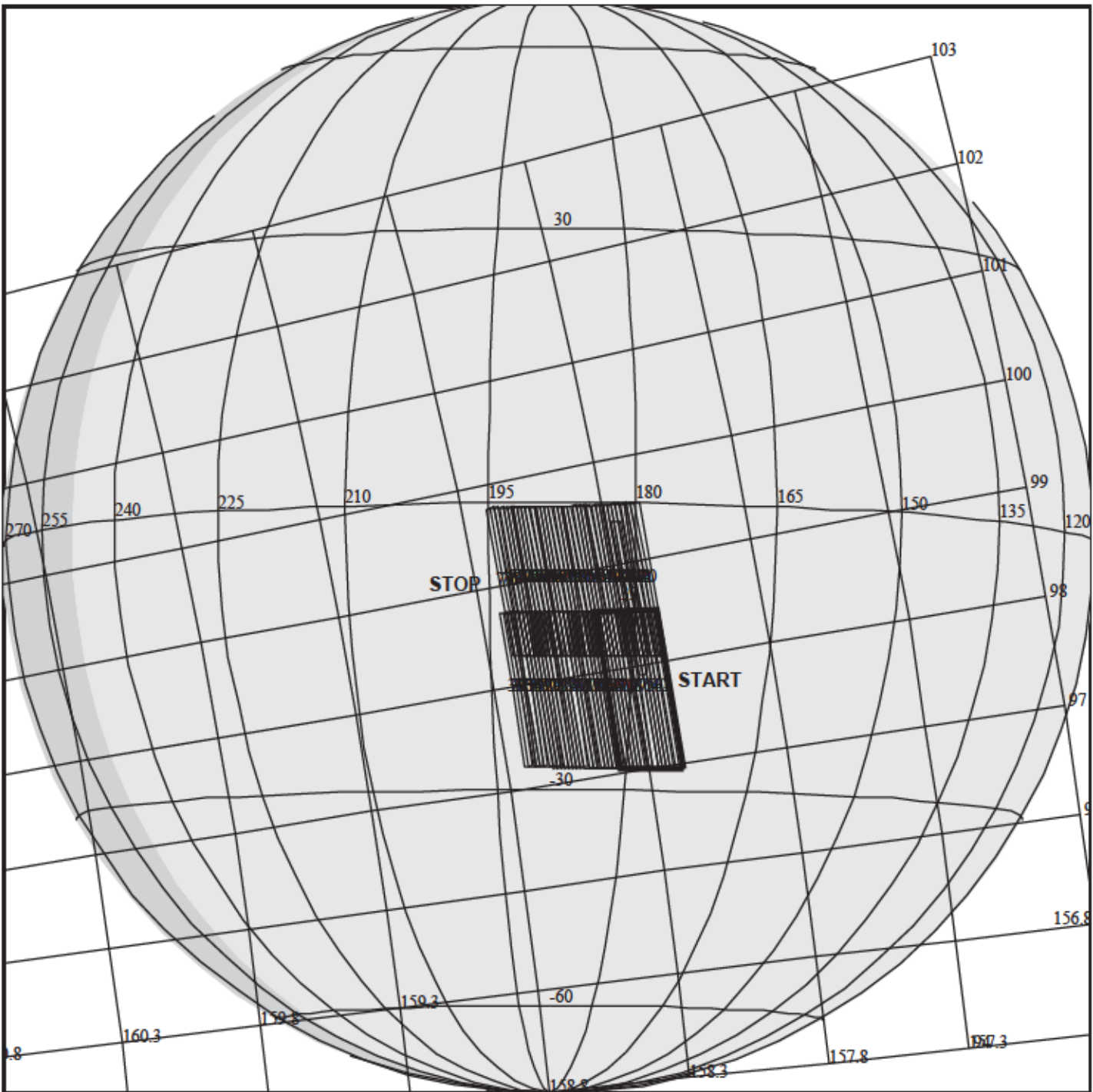
Data Returned - 1/3 swath out of 14 swaths - off-planet.

#### Design Detail

Follows description in OPG, page A-20, North-South stripe follows classic Z-pattern, each stripe being ~5 degrees wide in longitude. NIMS long map spatially-contiguous spectra. Data acquired in 1/5 NIMS record mode. Uses J5M80A playback table. Observation occurs near 18.4 RJ. About 14 tiers cover the planet. Total N/S stripe takes  $14 \times 111 = 1554$  secs = 25 minutes, 54 secs. 4 minutes reserved for targetting, plus 6 seconds of extra time available. Data accumulated:  $(1554) [(80)(200)/8.666 + 168] = 3.130$  MB, 1.565 MBTG. Tape used:  $1554 \times 0.00003363 = 0.05226$  tracks.

Long Map (LM), Gain 2, Grating Start 0, LPU, G2J5M253A, G2J5M80A

Galileo Activity Plan Form 06/17/96 12:41:02 rev 6/95



165ES:TT= 0 TMC= 1 C= -.570 XC= -10.00 BS= 01840 TC= 3  
 A= 548 pD= 0 SR=17.450 RA50=255.26 DEC50=-20.94 cone=158.16 clock= 97.73  
 117ES:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 01840  
 1:#s= 2 Cs= 9.78 XCs= 0.00 Cr= -9.78 XCr= 5.50 sD= 982 rD= 32

## G2GNSIPPAR01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GNSIPPAR01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GTE 96-250/19:00:09.333 -CDS 168:00:0

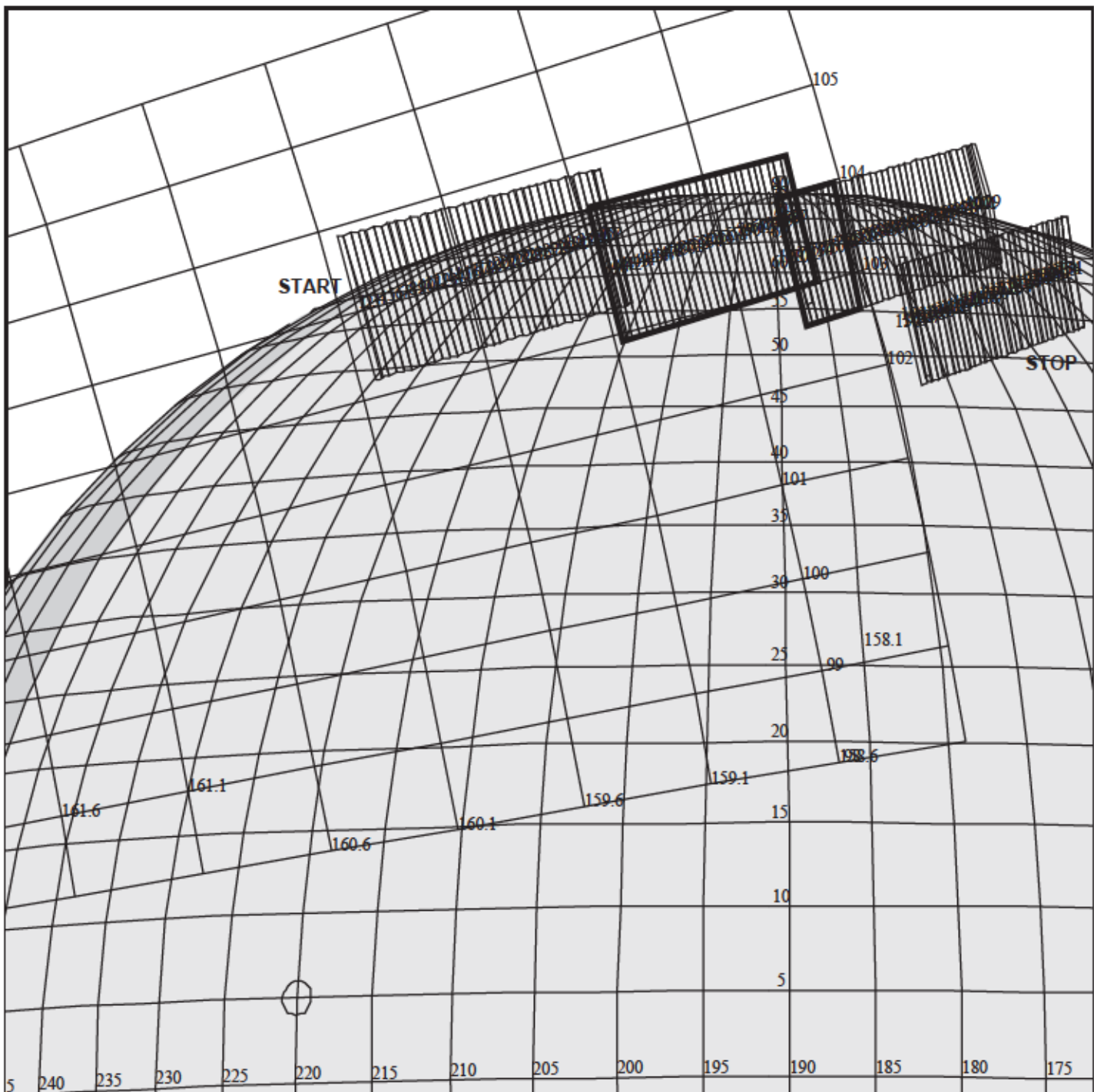
OBSERVATION:G2GNSIPPAR01

THINNING:NIM 1

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

DESCRIP:Ganymede Region Map

Ganymede Regional Map of Sippar		ACTIVITY ID:	G2GNSIPPAR01-		
		START TIME:	96-250/16:07:15.333		
Activity ID: Orbit G2 Target G Inst N OAPEL SIPPAR SeqNo 01 -					
Title	Ganymede Regional Map of Sippar		Instrument		NIMS
Requestor	NIMS-SWG/J. HUI		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2A	Calendar Date	09/06/96 Week 36
Start	GTE-CDS	171:00:0	96-250/16:07:15.333	GTE-000/02:52:54.000	
End	GTE-CDS	157:00:0	96-250/16:21:24.667	GTE-000/02:38:44.666	
Duration		14:00:0	000/00:14:09.334	000/00:14:09.334	
Top Label	G2GNSIPPAR01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH		
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
<p>The objective is to study the distribution of compositional elements in a regional context on the surface of Ganymede at high spatial and spectral resolutions.</p>					
<p>Data Returned - 2 Rims out of 20.</p>					
Design Detail					
<p>2 swaths across the middle of the satellite. Each swath is 10 RIMS long. Slew rate is 0.03 mrad/sec.</p> <p>Long Map Gain state 2 Record LPU Format G2LM204</p>					
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G2GLM245, G2GLM204</p>					
Galileo Activity Plan Form			06/17/96	12:41:02	rev 6/95



**G2GNNRPOLE01**

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GNNRPOLE01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GTE 96-250/19:00:09.333 -CDS 91:00:0

OBSERVATION:G2GNNRPOLE01

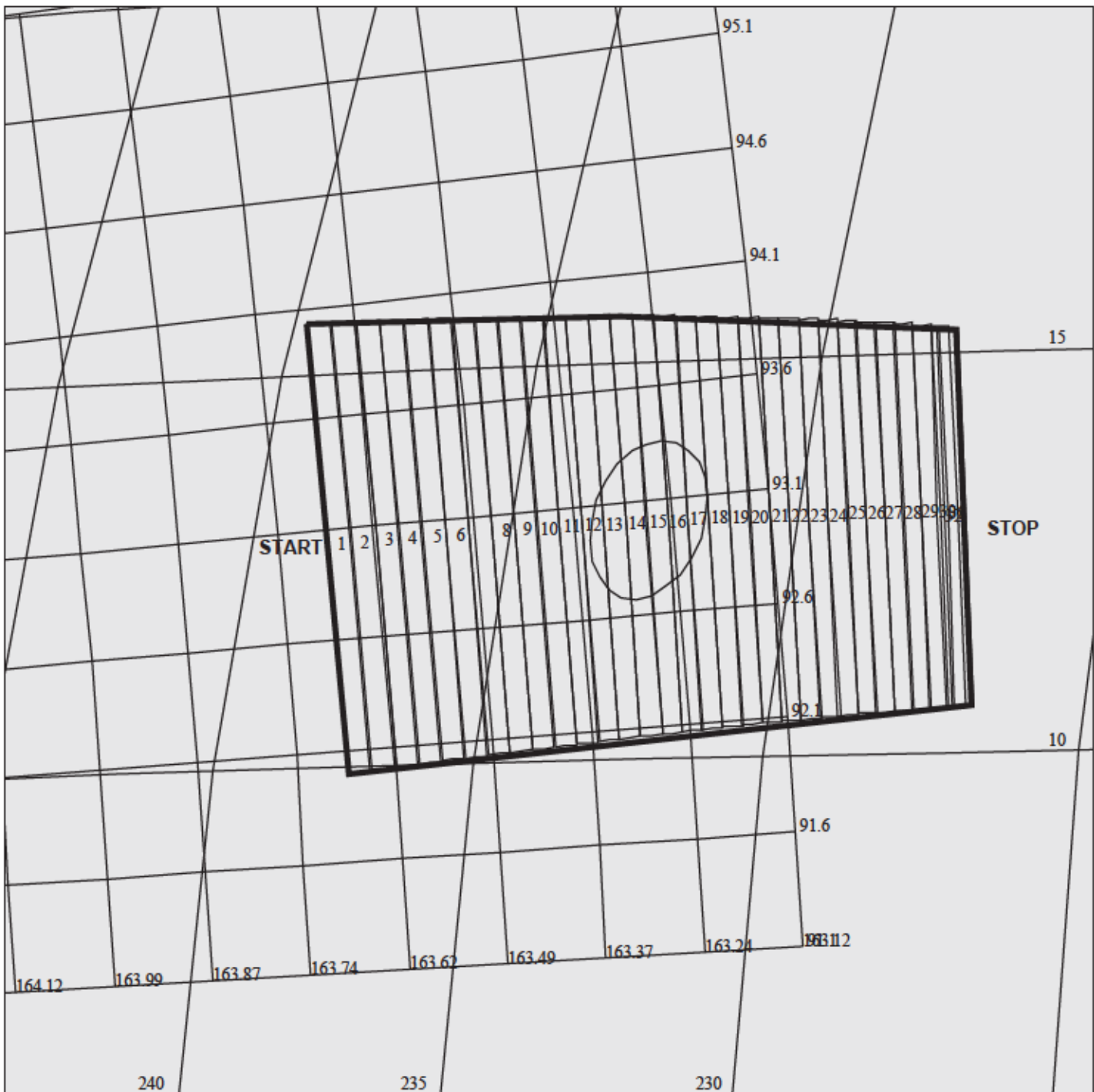
165DN:TT= 0 TMC=1 C= 15.00 XC= 0.00 BS= 65854 TC= 1(65 220 )  
 A= 182 pD= 3792 SR=17.430 RA50=257.87 DEC50=-19.36 cone=160.02 clock=104.04  
 117DN:#SB= 4 OR= 0.060 RR= 4.000 BM=F RC= 1 BS= 65854  
 1:#s= 1 Cs= -18.00 XCs= 0.00 Cr= 0.00 XCr= -2.00 sD= 932 rD= 2  
 2:#s= 1 Cs= -15.00 XCs= 0.00 Cr= 1.00 XCr= -2.50 sD= 768 rD= 30  
 3:#s= 1 Cs= -17.00 XCs= 0.00 Cr= 1.00 XCr= -3.00 sD= 868 rD= 30  
 4:#s= 1 Cs= -16.00 XCs= 0.00 Cr= 8.00 XCr= -8.00 sD= 828 rD= 30

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 3792 S= 1.700

DESCRIP:North Pole Region

North Pole Region Map		ACTIVITY ID: G2GNRPOLE01-	
		START TIME: 96-250/17:27:06.667	
Activity ID: Orbit G2 Target G Inst N OAPEL NRPOLE SeqNo 01 -			
Title	North Pole Region Map	Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 31224	Team NIMS Working Group	SWG
Time System	CDS	Load ID	G2A
		Calendar Date	09/06/96 Week 36
Start	GTE-CDS 92:02:0	96-250/17:27:06.667	GTE-000/01:33:02.666
End	GTE-CDS 71:76:0	96-250/17:47:31.333	GTE-000/01:12:38.000
Duration	20:17:0	000/00:20:24.666	000/00:20:24.666
Top Label	G2GNRPOLE01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	175	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>This observation has three objectives. The first is to look for non-water volatiles. The second is to help complete the gloabl mapping. The third is to study the nature and extent of the polar shroud.</p>			
1/3 Data Returned			
Design Detail			
<p>Three swaths covering as much as possible above 60 N. Latitude, from longitude 220 to 130 degrees. Slew rate is 0.06 mrad/sec.  Full Map  Gain state 3  Record format = MPW  Number of Wavelengths returned = 204  Track usage = 0.159</p>			
Full Map (FM), Gain 3, Grating Start 0, MPW, G2GFM221, G2GFM204			
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**G2GNTAMMUZ01**

165DM:TT= 0 TMC=1 C= 7.00 XC= 0.00 BS= 01678 TC= 1(13 232.5 )  
 A= 728 pD= 1638 SR=17.450 RA50=260.74 DEC50=23.60 cone=163.67 clock= 92.98  
 117DM:#SB= 1 OR= 0.030 RR= 0.010 BM=F RC= 1 BS= 01678  
 1:#s= 1 Cs= -15.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1638 rD= 2

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GNTAMMUZ01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GTE 96-250/19:00:09.333 -CDS 59:00:0

OBSERVATION:G2GNTAMMUZ01

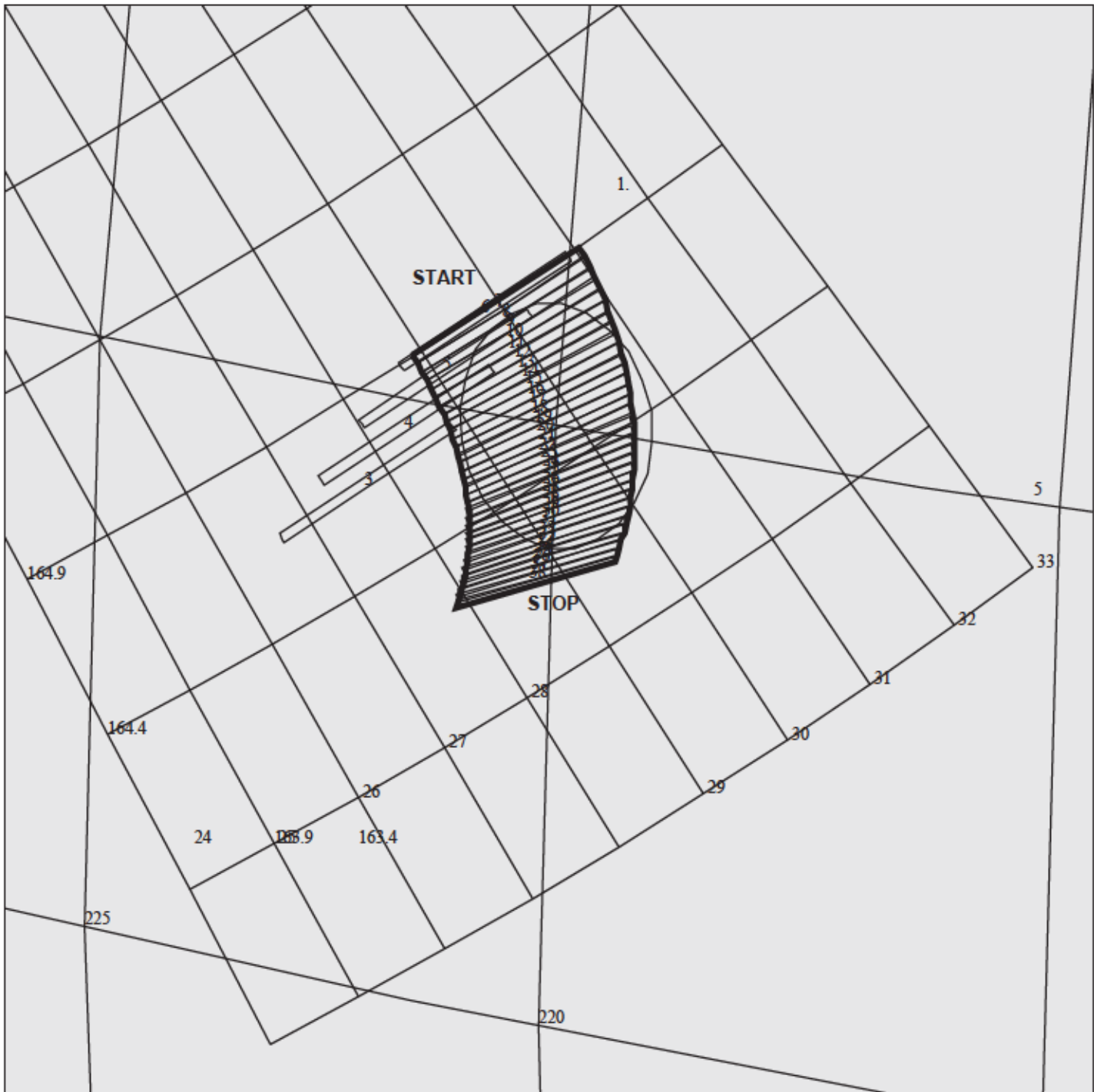
THINNING:NIM 2

BODY PLOT TIME:START-TIME D= 1638 S= 8.000

DESCRIP:BRIGHT RAYED CRATER TAMMUZ



Bright rayed crater TAMMUZ		ACTIVITY ID: G2GNTAMMUZ01-	
		START TIME: 96-250/17:56:22.000	
Activity ID: Orbit G2 Target G Inst N OAPEL TAMMUZ SeqNo 01 -			
Title	Bright rayed crater TAMMUZ	Instrument NIMS	
Requestor	NIMS-SWG/J. HUI 31224	Team NIMS	Working Group SWG
Time System	CDS	Load ID G2A	Calendar Date 09/06/96 Week 36
Start	GTE-CDS 63:08:0	96-250/17:56:22.000	GTE-000/01:03:47.333
End	GTE-CDS 49:74:0	96-250/18:09:47.333	GTE-000/00:50:22.000
Duration	13:25:0	000/00:13:25.333	000/00:13:25.333
Top Label	G2GNTAMMUZ01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>This observation is to study a bright rayed crater, Tammuz, for mineralogy across a contrast boundary, to study the nature of excavated ices and potential cold trapping of irradiation products on the trailing hemisphere.</p>			
Data Returned			
Design Detail			
<p>Target to crater at lat=13 and lon=233, then offset and slew across the crater, covering two crater diameters on either side of the crater. Once slew at 0.03mrad/sec.</p> <p>Long Map Gain State 2 Record format = LPU Number of Wavelengths returned = 204 Track usage = 0.018</p>			
Long Map (LM), Gain 2, Grating Start 0, LPU, G2GLM245, G2GLM204			
Galileo Activity Plan Form		06/17/96 12:41:02	rev 6/95



165DO:TT= 0 TMC=1 C= 7.00 XC= 1.00 BS=718594 TC=1(5 220 )  
 A= 226 pD= 858 SR=17.450 RA50=269.61 DEC50=-38.04 cone=164.89 clock= 29.98  
 117DO:#SB= 1 OR= 0.060 RR= 0.010 BM=F RC= 1 BS=718594  
 1:#s= 1 Cs= -17.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 858 rD= 2

## G2GNANTUM\_01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GNANTUM\_01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GTE 96-250/19:00:09.333 -CDS 21:00:0

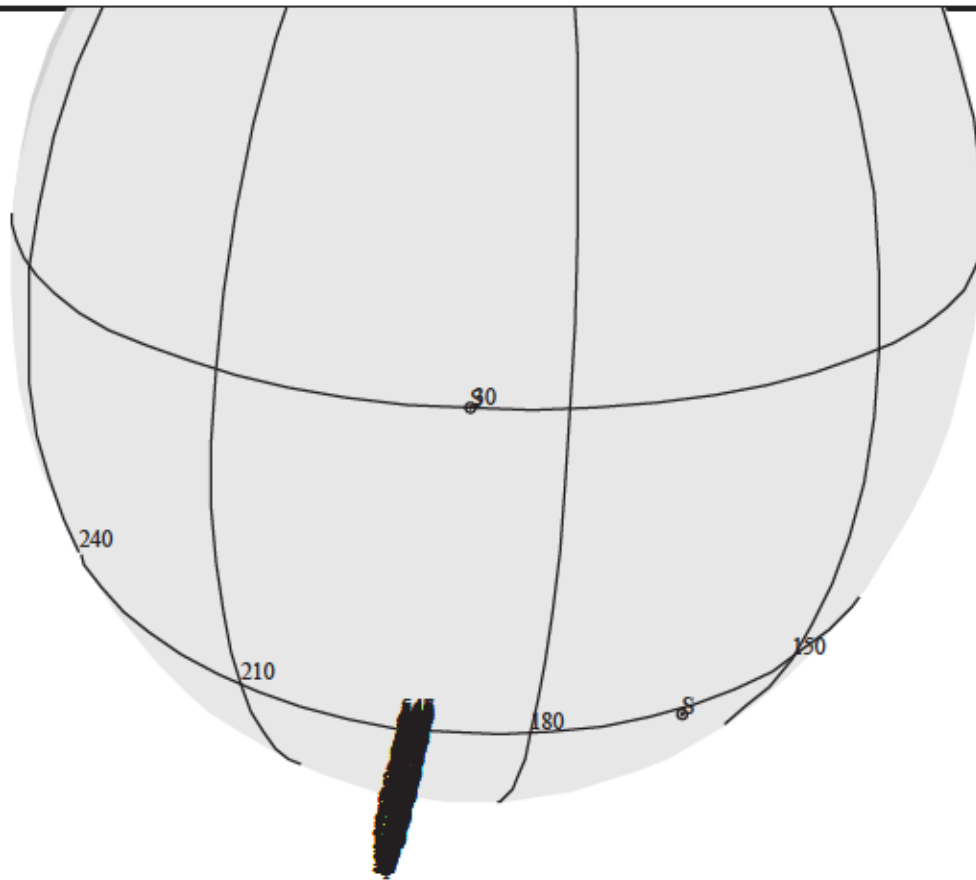
OBSERVATION:G2GNANTUM\_01

THINNING:NIM 2

BODY PLOT TIME:START-TIME D= 858 S= 10.000

DESCRIP:DARK RAYED CRATER ANTUM

Dark Rayed crater Antum		ACTIVITY ID: G2GNANTUM 01-	
		START TIME: 96-250/18:38:22.000	
Activity ID: Orbit G2 Target G Inst N OAPEL ANTUM SeqNo 01 -			
Title	Dark Rayed crater Antum	Instrument NIMS	
Requestor	NIMS-SWG/J. HUI 31224	Team NIMS	Working Group SWG
Time System	CDS	Load ID G2A	Calendar Date 09/06/96 Week 36
Start	GTE-CDS 21:50:0	96-250/18:38:22.000	GTE-000/00:21:47.333
End	GTE-CDS 15:51:0	96-250/18:44:25.333	GTE-000/00:15:44.000
Duration	5:90:0	000/00:06:03.333	000/00:06:03.333
Top Label	G2GNANTUM 01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	175	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
This observation is to study the modification process of material in impacts, to study the mineralogy of impactors and to study the modification of the area adjacent to large Sulcus.			
Data Returned			
Design Detail			
One swath across the crater, Antum, at lat=10 and lon=220 at slew rate of 0.06 mrad/sec.			
Full Map			
Gain State 2			
Record format = MPW			
Number of Wavelengths returned = 204			
Track usage = 0.038			
Full Map (FM), Gain 2, Grating Start 0, MPW, G2GFM221, G2GFM204			
Galileo Activity Plan Form		06/17/96 12:41:03	rev 6/95



165CL:TT= 0 TMC= 1 C= -490.44 XC= -218.79 BS= 0/0232 TC= 9  
 A= 146 pD= 0 SR=17.450 RA50=265.27 DEC50=-80.33 cone=124.38 clock= 4.48

## G2GNLIMBSC01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GUBRTLMB02

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GTE 96-250/19:00:09.333 -CDS 12:00:0

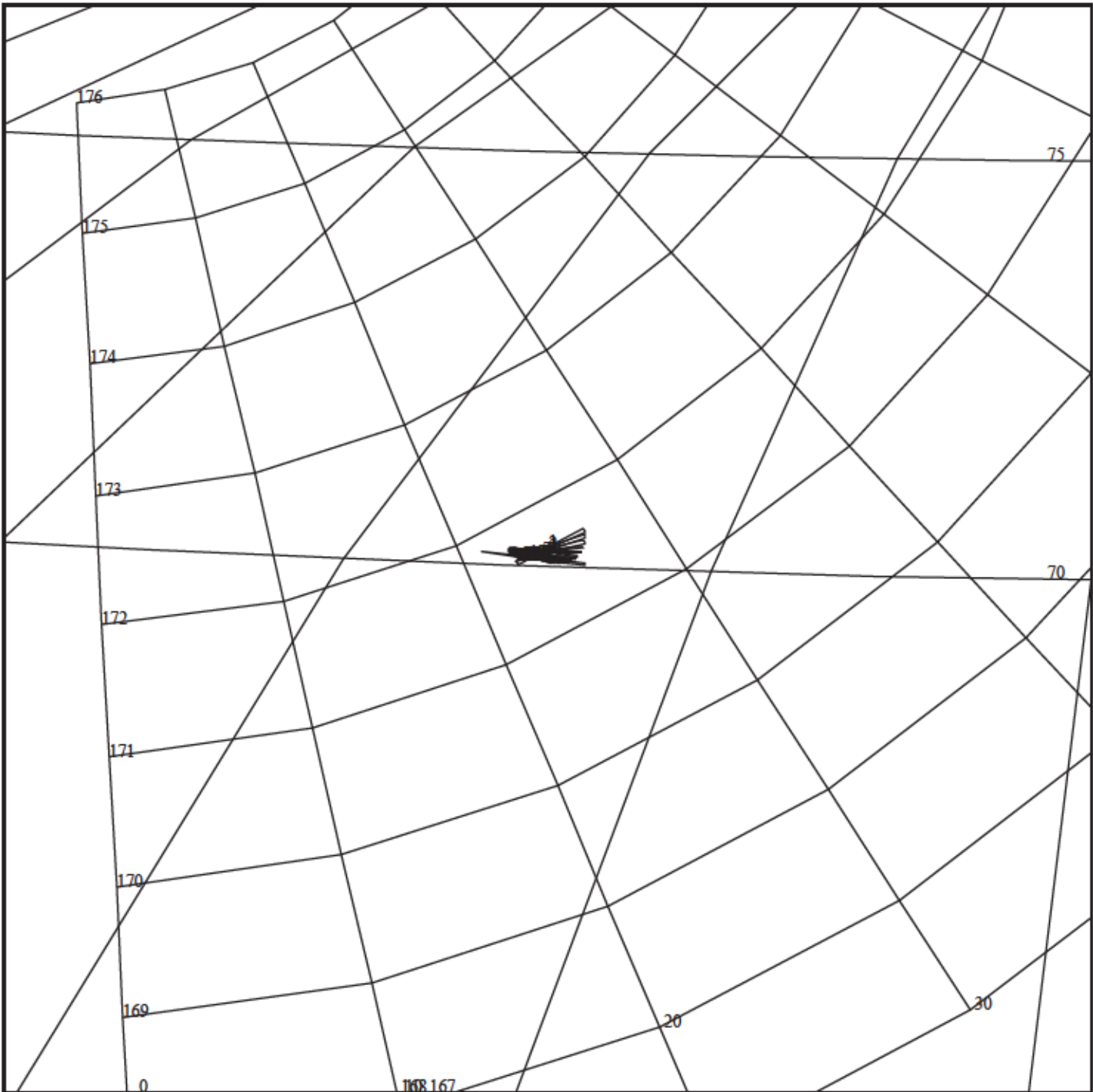
OBSERVATION:G2GUBRTLMB02

THINNING:NIM 1

BODY PLOT TIME:96-250/18:50:59.942 D= 0 S= 0.500

DESCRIP:UVS G2 OH Bright Limb

Limb Scan for atmosphere		ACTIVITY ID: G2GNLIMBSC01+	
		START TIME: 96-250/18:47:00.667	
Activity ID: Orbit G2 Target G Inst N OAPEL LIMBSC SeqNo 01 +			
Title	Limb Scan for atmosphere	Instrument NIMS	
Requestor	NIMS-SWG/J. HUI 3-1224	Team NIMS Working Group	SWG
Time System	CDS	Load ID G2A	Calendar Date 09/06/96 Week 36
Start	GTE-CDS 13:00:0	96-250/18:47:00.667	GTE-000/00:13:08.666
End	GTE-CDS 9:00:0	96-250/18:51:03.333	GTE-000/00:09:06.000
Duration	4:00:0	000/00:04:02.666	000/00:04:02.666
Top Label	G2GNLIMBSC01+		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	102	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	No
		DMS	No
Observation Objective			
Limbscan of Ganymede To search for an atmosphere.			
Data Returned			
Design Detail			
		Alias: G2GUBRTRLMB01	
Target to the satellite and offset to sky and drift onto satellite.			
Joint observation with UVS.			
Return Grating position 1 with detector 3,4 and 5.			
Mode: XS (Fixed Spectrometer);		Gain: 4	
Grating start position: 1		Grating offset: 4	
3 wavelengths recorded		Record format: MPW	
Track usage: 0.02			
Fixed Spectrometer (XS), Gain 4, Grating Start 1, MPW, G2GXS17, G2GXS003			
Galileo Activity Plan Form		06/17/96 12:41:03	rev 6/95



**G2GNBRFRGR01**

165DQ:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=0/1506 TC=1(70.2 192.3 )  
 A= 286 pD= 482 SR=17.450 RA50=274.79 DEC50=32.62 cone=171.68 clock= 24.55  
 117DQ:#SB= 1 OR= 0.060 RR=0.010 BM=F RC= 1 BS=0/1506  
 1:fs= 1 Cs= -9.55 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 482 rD= 2

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GNBRFRGR01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GTE 96-250/19:00:09.333 -CDS 05:00:0

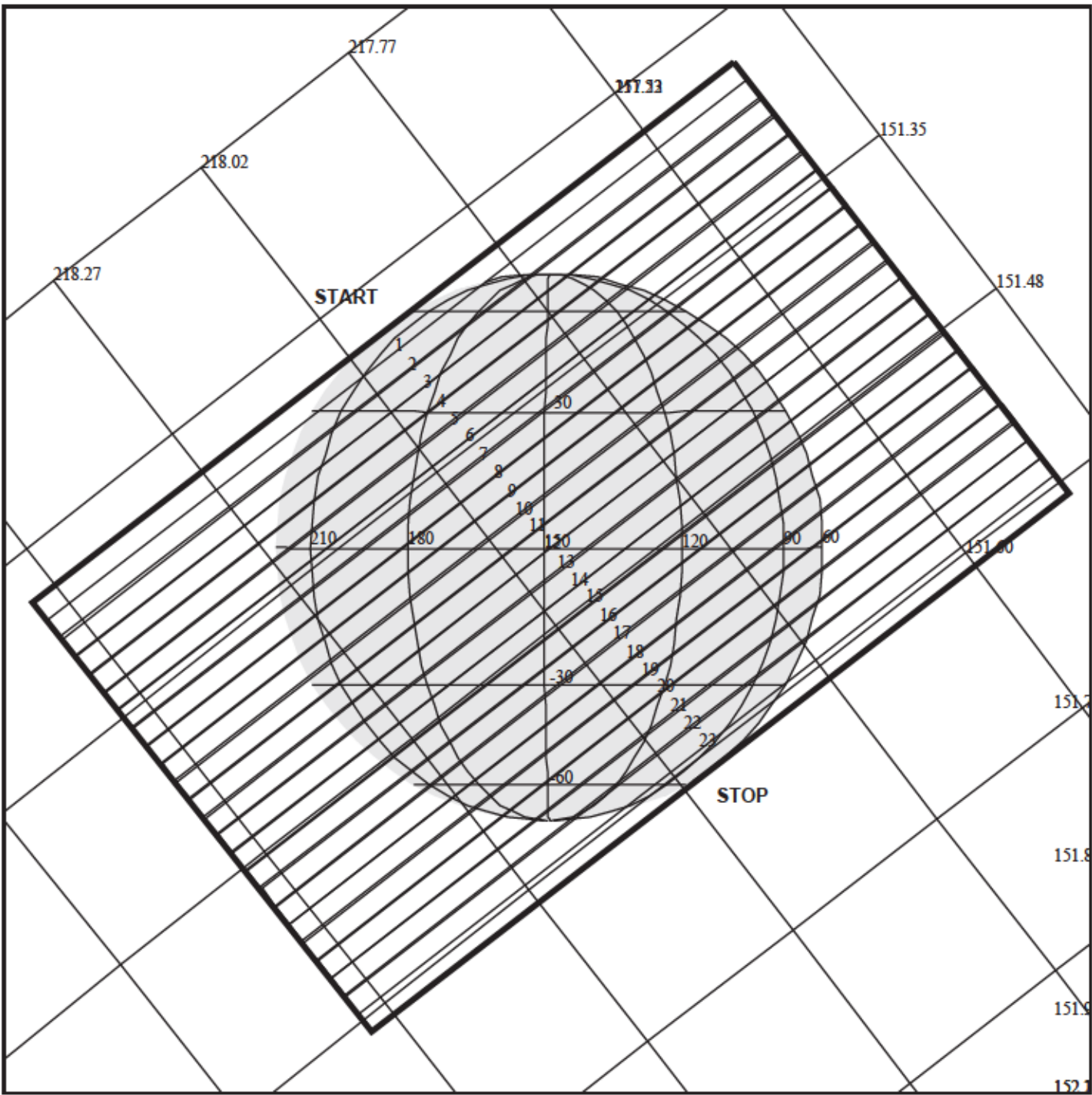
OBSERVATION:G2GNBRFRGR01

THINNING:NIM 2

BODY PLOT TIME:START-TIME D= 482 S= 10.000

DESCRIP:Bright/Frost endmember trail hem

Bright Frost and Groove Terrain		ACTIVITY ID:	G2GNBRFRGR01-		
		START TIME:	96-250/18:53:08.000		
Activity ID: Orbit G2 Target G Inst N OAPEL BRFRGR SeqNo 01 -					
Title	Bright Frost and Groove Terrain		Instrument		NIMS
Requestor	NIMS-SWG/J. HUI 31224		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2A	Calendar Date	09/06/96 Week 36
Start	GTE-CDS	6:86:0	96-250/18:53:08.000	GTE-000/00:07:01.333	
End	GTE-CDS	1:00:0	96-250/18:59:08.667	GTE-000/00:01:00.666	
Duration		5:86:0	000/00:06:00.667	000/00:06:00.667	
Top Label	G2GNBRFRGR01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH		
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
<p>This observation will be used for identification of potential exotic ices in the polar shroud. It will also help to constrain grain size and thickness of the shroud contributing to age, origin and evolution.</p>					
Data Returned					
Design Detail					
<p>One swath across the interested area, latitude from 73 to 77 degrees and longitude 225 to 215. Slew rate is 0.06 mrad/sec.  CSMOS should start at GTE-CDS -6:00:0 with zero blockshift  Full Map  Gain State 3  Record format = MPW  Number of Wavelengths returned = 204  Track usage = 0.019</p>					
Full Map (FM), Gain 3, Grating Start 0, MPW, G2GFM221, G2GFM204					
Galileo Activity Plan Form			06/17/96	12:41:03	rev 6/95



165DR:TT= 0 TMC=1 C= -2.95 XC= 0.00 BS=0/3912 TC= 3  
 A= 546 pD= 0 SR=17.430 RA50=294.71 DEC50=-23.42 cone=151.27 clock=217.97  
 117DR:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=0/3912  
 1:#s= 1 Cs= 5.92 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 596 rD= 2

**G2INCHEMIS01**

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INCHEMIS01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GSE 96-250/21:11:36.000 +CDS 98:00:0

OBSERVATION:G2INCHEMIS01

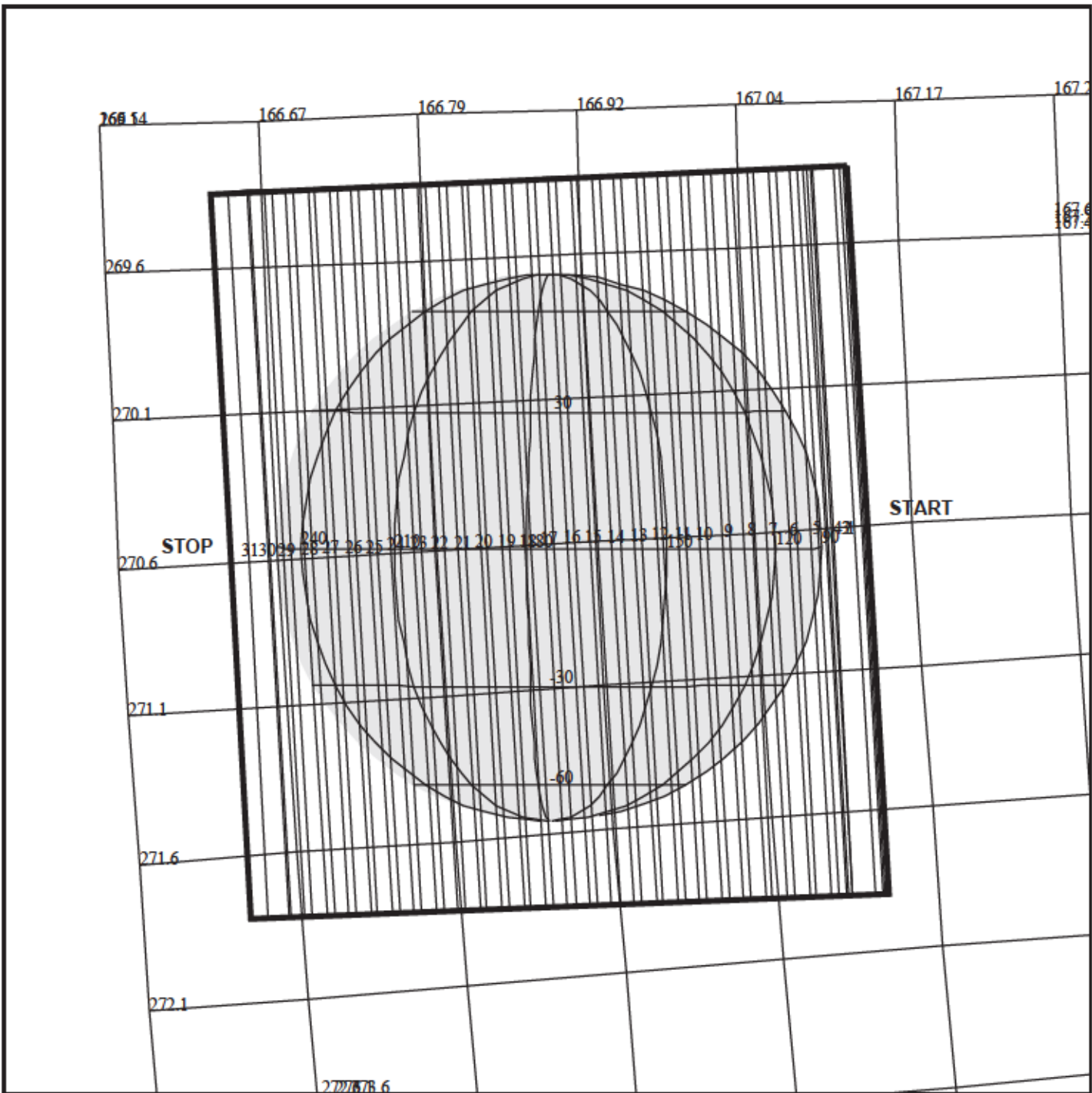
THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:DAYSIDE MONITORING OF IO



MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G2INCHEMIS01-	
		START TIME: 96-250/22:46:38.666	
Activity ID: Orbit G2 Target I Inst N OAPEL CHEMIS SeqNo 01 -			
Title	MONITORING OF IO'S DAYSIDE		Instrument NIMS
Requestor	NIMS-SWG/R. LOPES		Team NIMS Working Group SWG
Time System	CDS	Load ID G2A	Calendar Date 09/06/96 Week 36
Start	GSE+CDS 94:00:0	96-250/22:46:38.666	GSE+000/01:35:02.666
End	GSE+CDS 101:25:0	96-250/22:54:00.000	GSE+000/01:42:24.000
Duration	7:25:0	000/00:07:21.334	000/00:07:21.334
Top Label	G2INCHEMIS01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
Data Returned			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.</p> <p>CSMOS should start at IEE-CDS 392:00:0 with zero blockshift</p> <p>Long Map, 51 wavelengths.</p> <p>Tracks used per orbit: 0.05 to 0.42.</p> <p>Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p>			
Long Map (LM), Gain 2, Grating Start 0, MPW, G2ILM245, G2ILM228			
Galileo Activity Plan Form		06/17/96 12:41:03	rev 6/95



165DT:TT= 0 TMC= 1 C= 4.00 XC= 0.00 BS=43/5580 TC= 3  
 A= 546 pD= 0 SR=17.430 RA50=292.74 DEC50=-24.07 cone=167.11 clock=270.61  
 117DT:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=43/5580  
 1:#s= 1 Cs= -7.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

**G2INCHEMIS02**

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INCHEMIS02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 -03:38:00.000

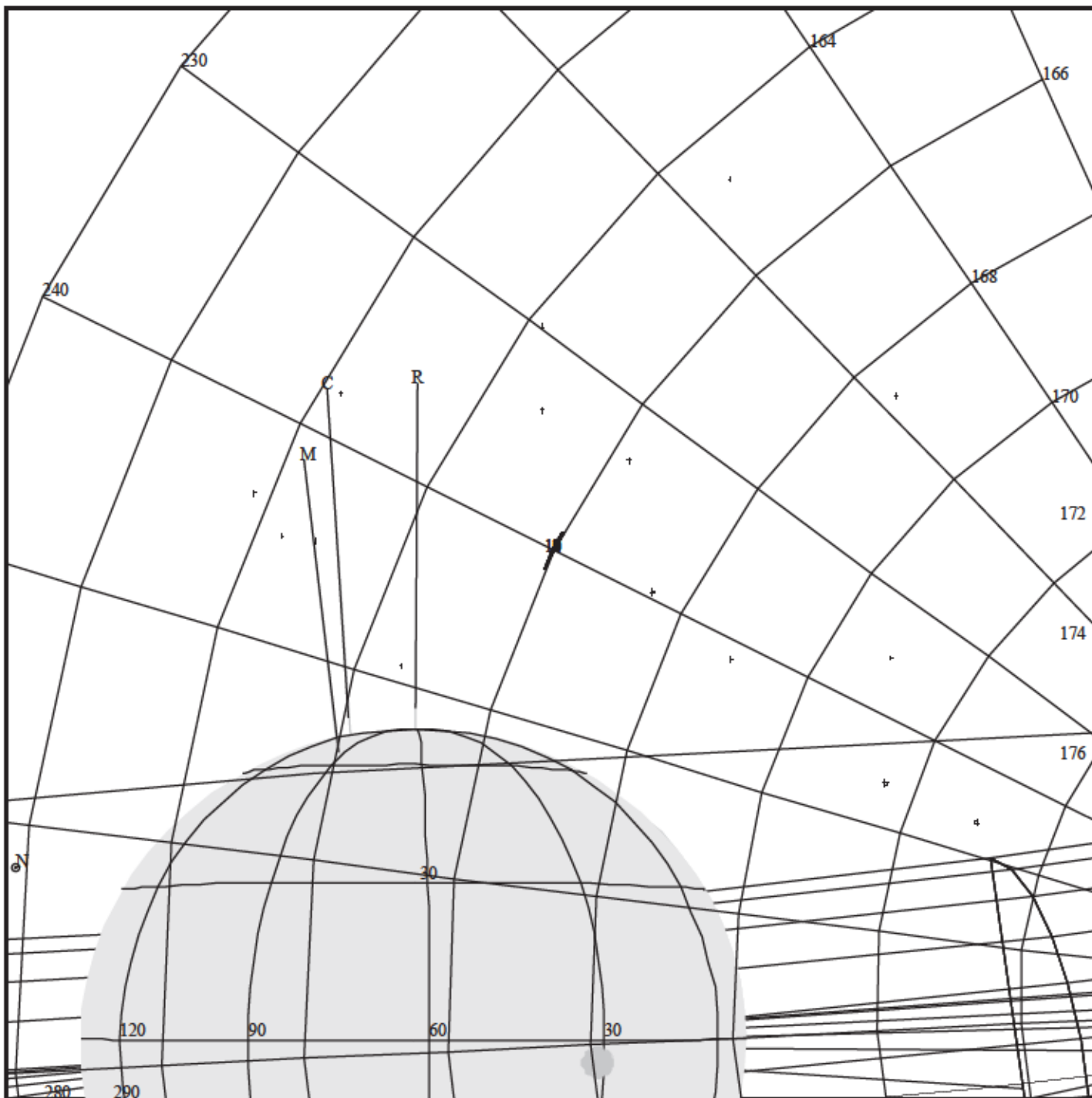
OBSERVATION:G2INCHEMIS02

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:DAYSIDE MONITORING OF IO

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G2INCHEMIS02-	
		START TIME: 96-251/01:43:58.600	
Activity ID: Orbit G2 Target I Inst N OAPEL CHEMIS SeqNo 02 -			
Title	MONITORING OF IO'S DAYSIDE	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID G2A	Calendar Date 09/07/96 Week 36
Start	IEE-CDS 218:56:0	96-251/01:43:58.600	IEE-000/03:41:02.666
End	IEE-CDS 209:22:0	96-251/01:53:27.266	IEE-000/03:31:34.000
Duration	9:34:0	000/00:09:28.666	000/00:09:28.666
Top Label	G2INCHEMIS02-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	147	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
Data Returned			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.</p> <p>CSMOS should start at IEE-CDS 392:00:0 with zero blockshift</p> <p>Long Map, 51 wavelengths.</p> <p>Tracks used per orbit: 0.05 to 0.42.</p> <p>Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p>			
Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILM245, G2ILM228			
Galileo Activity Plan Form		06/17/96 12:41:03	rev 6/95



165DS=TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=52/7774 TC= 2(166 240 )  
 A= 718 pD= 0 SR=17.430 RA50=291.03 DEC50=-17.13 cone=166.00 clock=240.00

## G2HNDARK\_\_03

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2HNDARK\_\_03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GEE 96-250/19:00:09.333 +CDS 469:00:0

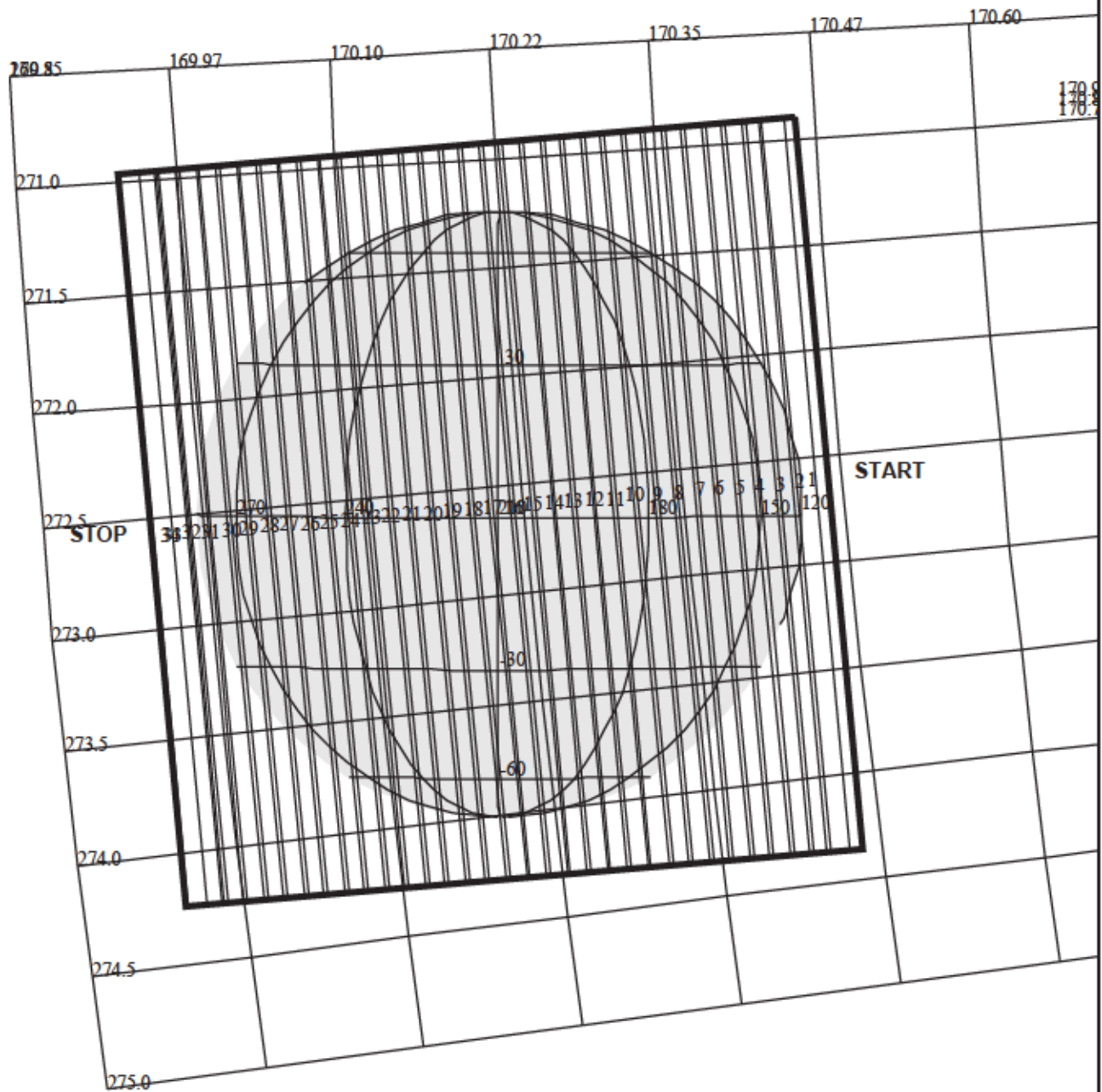
OBSERVATION:G2HNDARK\_\_03

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.600

DESCRIP:DARK SKY 03

DARK SKY		ACTIVITY ID: G2HNDARK 03-		START TIME: 96-251/02:50:19.333	
Activity ID: Orbit G2		Target H	Inst N	OAPEL DARK	SeqNo 03 -
Title	DARK SKY	Instrument		NIMS	
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG
Time System	CDS	Load ID	G2A	Calendar Date	09/07/96 Week 36
Start	GEE+CDS 465:00:0		96-251/02:50:19.333	GEE+000/07:50:10.000	
End	GEE+CDS 472:00:0		96-251/02:57:23.999	GEE+000/07:57:14.666	
Duration	7:00:0		000/00:07:04.666	000/00:07:04.666	
Top Label	G2HNDARK 03-	Bottom Label			
Plot Key	NIMS	Type	SCI		
CDS Bytes	110	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes
Observation Objective					
Collect Dark Values for calibration purposes.					
Data Returned					
Design Detail					
Slew to dark space and record 1 Rim of dark values.					
Long Map					
Gain State 2					
Long Map (LM), Gain 3, Grating Start 0, MPW, G2DRK34, G2DRK34					
Galileo Activity Plan Form			06/17/96	12:41:03	rev 6/95



165DV:TT= 0 TMC=1 C= 4.25 XC= 0.00 BS=12/4710 TC= 3  
 A= 546 pD= 0 SR= 9.000 RA50=289.13 DEC50=24.78 cone=170.44 clock=272.67  
 117DV:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=12/4710  
 1:#s= 1 Cs= -8.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 848 rD= 2

**G2INHRSPEC01**

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INHRSPEC01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 -00:01:00.000

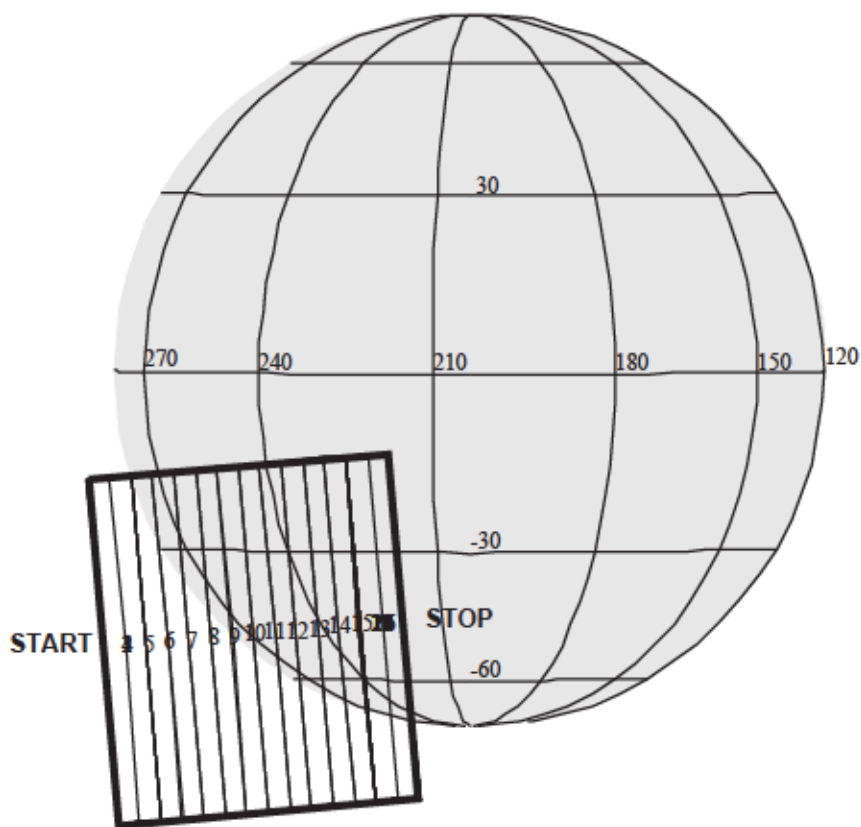
OBSERVATION:G2INHRSPEC01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:HIGH SPATIAL/SPECTRAL OBS OF IO

HIGH SPAT. AND SPECT. OBS. OF IO		ACTIVITY ID: G2INHRSPEC01-	
		START TIME: 96-251/05:21:01.266	
Activity ID: Orbit G2 Target I Inst N OAPEL HRSPEC SeqNo 01 -			
Title	HIGH SPAT. AND SPECT. OBS. OF IO		Instrument NIMS
Requestor	NIMS-SWG/R. LOPES		Team NIMS Working Group SWG
Time System	CDS	Load ID G2A	Calendar Date 09/07/96 Week 36
Start	IEE-CDS 3:87:0	96-251/05:21:01.266	IEE-000/00:04:00.000
End	IEE+CDS 6:72:0	96-251/05:31:53.266	IEE+000/00:06:52.000
Duration	10:68:0	000/00:10:52.000	000/00:10:52.000
Top Label	G2INHRSPEC01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	144	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
Mapping observation of Io's dayside at high spatial and spectral resolutions. Objective is to search for both known and yet unknown spectral features.			
Data Returned			
Design Detail			
Global mosaic in Long Map (408 wavelengths).			
Long Map (LM), Gain 2, Grating Start 0, MPW, G2ILM442, G2ILM408			
Galileo Activity Plan Form		06/17/96 12:41:03	rev 6/95



## G2INIOMON\_01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INIOMON\_01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 -CDS 38:00:0

OBSERVATION:G2INIOMON\_01

165FA:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS=07976 TC= 3  
 A= 728 pD= 0 SR=17.430 RA50=290.04 DEC50=-24.67 cone=169.62 clock=272.39  
 117FA:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS=07976  
 1:#s= 1 Cs= 3.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 24 rD= 2

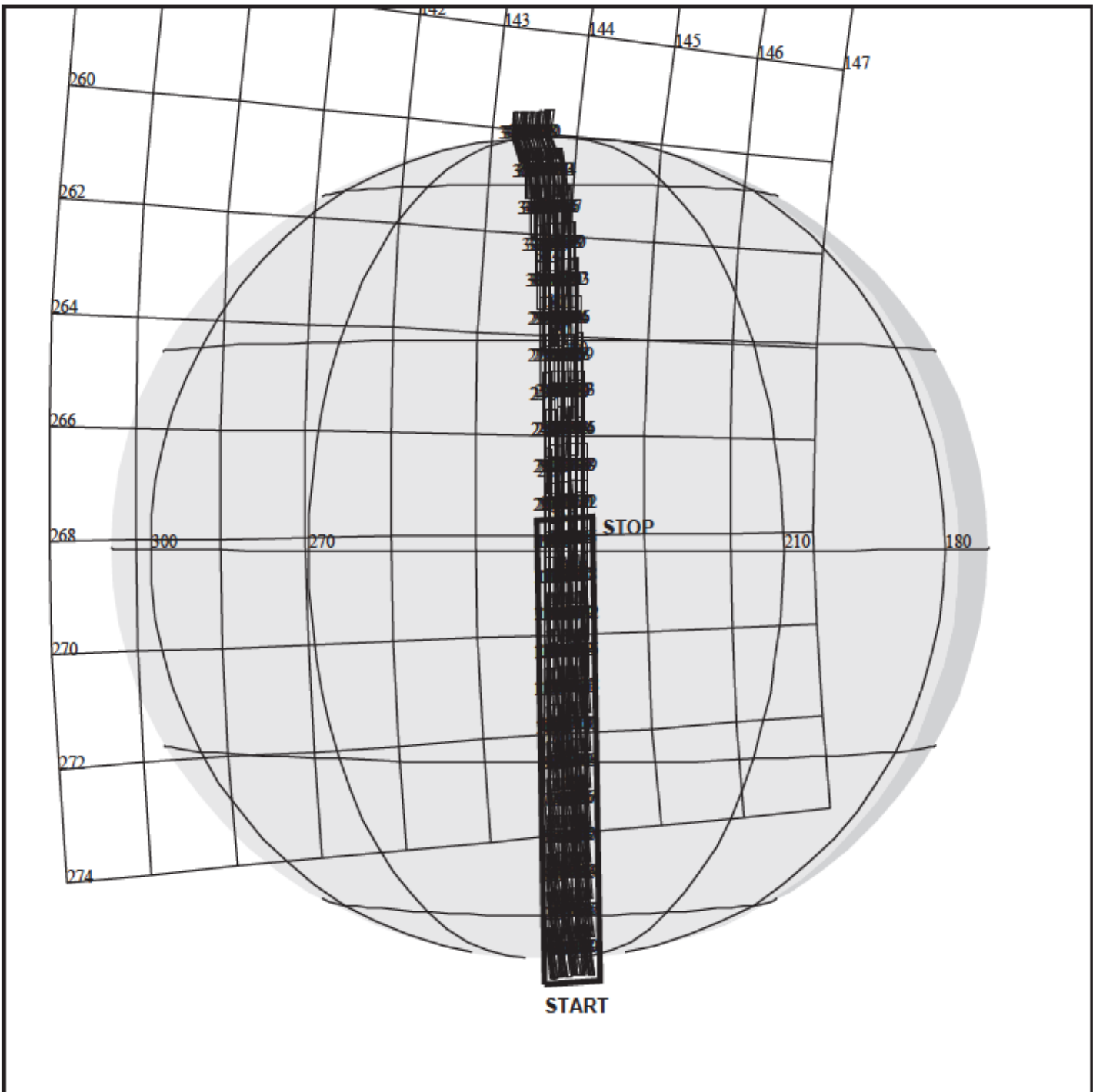
THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:G2INIOMON\_01



Io Monitoring in Real Time		ACTIVITY ID: G2INIOMON 01-	
		START TIME: 96-251/08:02:45.266	
Activity ID: Orbit G2 Target I Inst N OAPEL IOMON SeqNo 01 -			
Title	Io Monitoring in Real Time		Instrument
Requestor	NIMS-SWG/R. LOPES		NIMS
	Team	NIMS	Working Group
			SWG
Time System	CDS	Load ID	G2A
		Calendar Date	09/07/96
		Week	36
Start	IEE+CDS 156:00:0	96-251/08:02:45.266	IEE+000/02:37:44.000
End	IEE+CDS 163:00:0	96-251/08:09:49.932	IEE+000/02:44:48.666
Duration	7:00:0	000/00:07:04.666	000/00:07:04.666
Top Label	G2INIOMON 01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	184	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	DMS
			Yes
			No
Observation Objective			
Real time observation of Io's nightside to map hot spots and look for thermal changes on the surface.			
Data Returned			
Design Detail			
Observation duration: 12 minor frames. These 12 minor frames must be the first 12 of a Rim. NIMS mirror scan cut from 20 to 8. Fixed map, 8 wavelengths. MBTG = 0.017 R/T = 3.5 % MUB. Offset target center by 2 mrad in cone, either direction. 8 mirror positions will get 23 fields of view, use double Nyquist. Design the observation to bias toward the bottom of the scan, i.e., cover the satellite with the bottom mirrors accounting for pointing uncertainty. Plot all 20 mirror positions.			
Mirror Blocked (1C,07) (11100,00111)			
Fixed Map (XM), Gain 2, Grating Start 21, R/T, G2IXM8RT			
Galileo Activity Plan Form		06/17/96 12:41:04	rev 6/95



165DW:TT= 0 TMC=1C= 0.00 XC= 9.00 BS=56/6924 TC= 1(-58.5 240 )  
 A= 728 pD= 0 SR=17.430 RA50=318.45 DEC50=-22.48 cone=143.57 clock=276.31  
 117DW:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS=56/6924  
 1:#s= 23 Cs= 5.00 XCs= 0.00 Cr= -7.50 XCr= -8.00 sD= 398 rD= 40

## G2JNTHRMNS07

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNTHRMNS07

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:JEE 96-251/13:37:25.933 -CDS 310:41:0

OBSERVATION:G2JNTHRMNS07

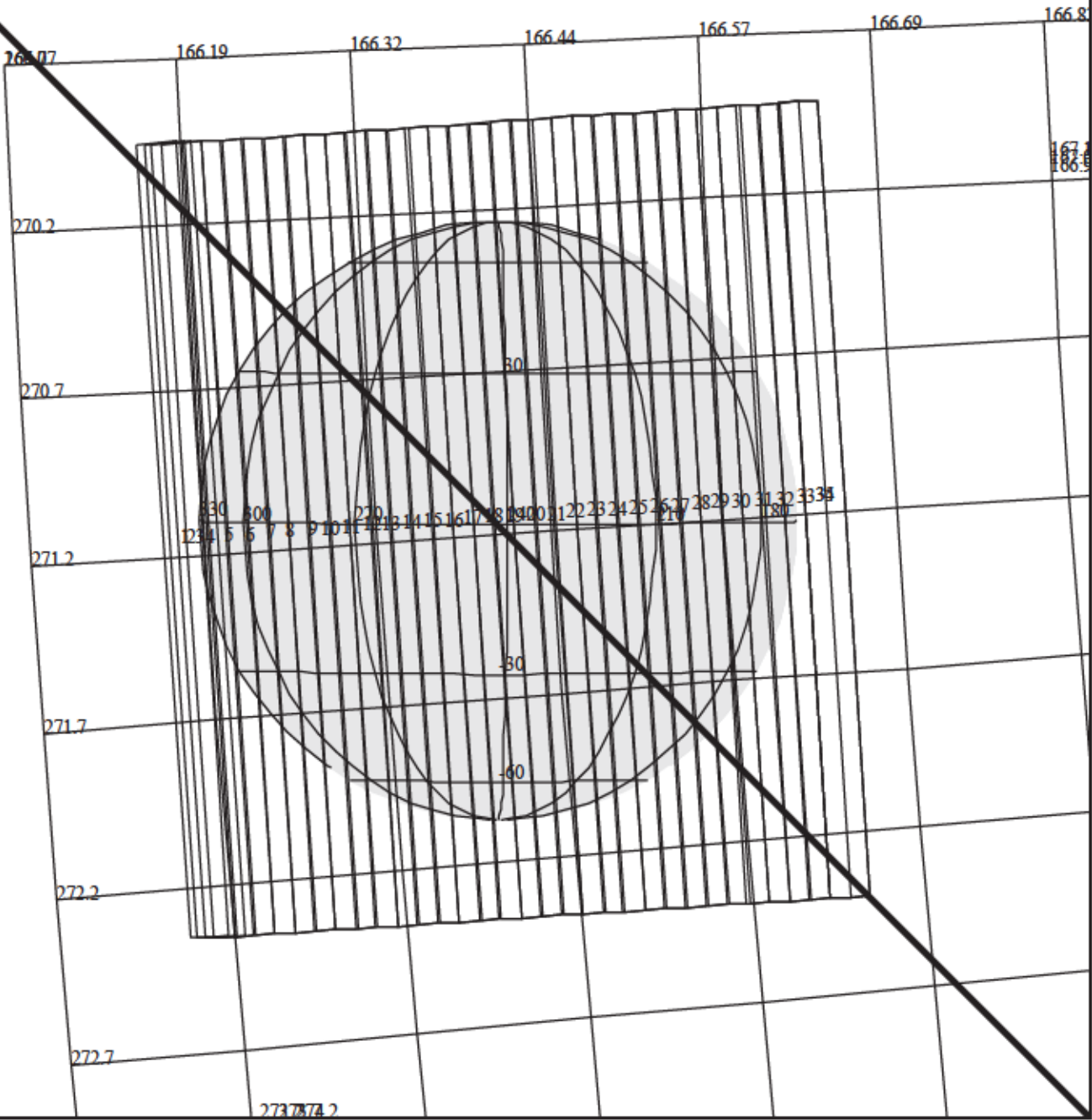
THINNING:NIM 1

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

DESCRIP:JUPITER THERMAL NS STRIPES 07

JUPITER THERMAL NORTH-SOUTH STRIPES PRT7 ACTIVITY ID: G2JNTHRMNS07- START TIME: 96-251/08:19:27.933						
Activity ID: Orbit G2 Target J Inst N OAPEL THRMNS SeqNo 07 -						
Title	JUPITER THERMAL NORTH-SOUTH STRIPES PRT7Instrument					NIMS
Requestor	NIMS-AWG/K. BAINES		Team	NIMS Working Group		AWG
Time System	CDS	Load ID	G2A	Calendar Date	09/07/96	Week 36
Start	JEE-CDS	314:43:0		96-251/08:19:27.933	JEE-000/05:17:58.000	
End	JEE-CDS	255:10:0		96-251/09:19:29.267	JEE-000/04:17:56.666	
Duration		59:33:0		000/01:00:01.334	000/01:00:01.334	
Top Label	G2JNTHRMNS07-					
Bottom Label						
Plot Key	NIMS	Type	SCI			
CDS Bytes	199	Report Options	BOTH			
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes	
				DMS	Yes	
<b>Observation Objective</b>						
<p>Part 7 of North-South stripes covering thermal wavelengths from 4.2786 to 5.2198 microns. Determine phosphine and other trace species abundances over latitude. Highest spatial resolution observation, acquired near 11 RJ, samples 393 km/nimsel.</p>						
<p>Processor Halted in Middle of Observation. Data Returned</p>						
<b>Design Detail</b>						
<p>Follows description in OPG, page A-20, North-South stripe follows classic Z-pattern, each stripe being ~5 degrees wide in longitude. NIMS long map spatially-contiguous spectra. Data acquired in 1/5 NIMS record mode. Uses J5M80A playback table. Observation occurs near 11 RJ. 23 tiers cover the planet. Each tier of 15 samples takes 145 secs to acquire, including 15 seconds for repositioning. Total observation time is 23*145 = 3335 secs = 55 minutes, 35 seconds. 4 minutes targetting. Data accumulated: 3355*(80*200/8.666 + 168) = 6.757 MB, 3.379 MBTG. Tracks used: 3335*0.00003363 = 0.11216 tracks.</p>						
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G2J5M253A, G2J5M80A</p>						
Galileo Activity Plan Form				06/17/96	12:41:04	rev 6/95

NO DATA RETURNED



### G2INCHEMIS03

165DX:TT= 0 TMC= 1 C= -3.70 XC= 0.00 BS=440392 TC= 3  
 A= 546 pD= 972 SR=17.430 RA50=293.75 DEC50=-24.08 cone=166.20 clock=271.17  
 117DX:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=440392  
 1:#s= 1Cs= 7.80 XC= 0.00 Cr= 0.00 XC= 0.00 sD= 828 rD= 2

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INCHEMIS03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +04:13:00.000

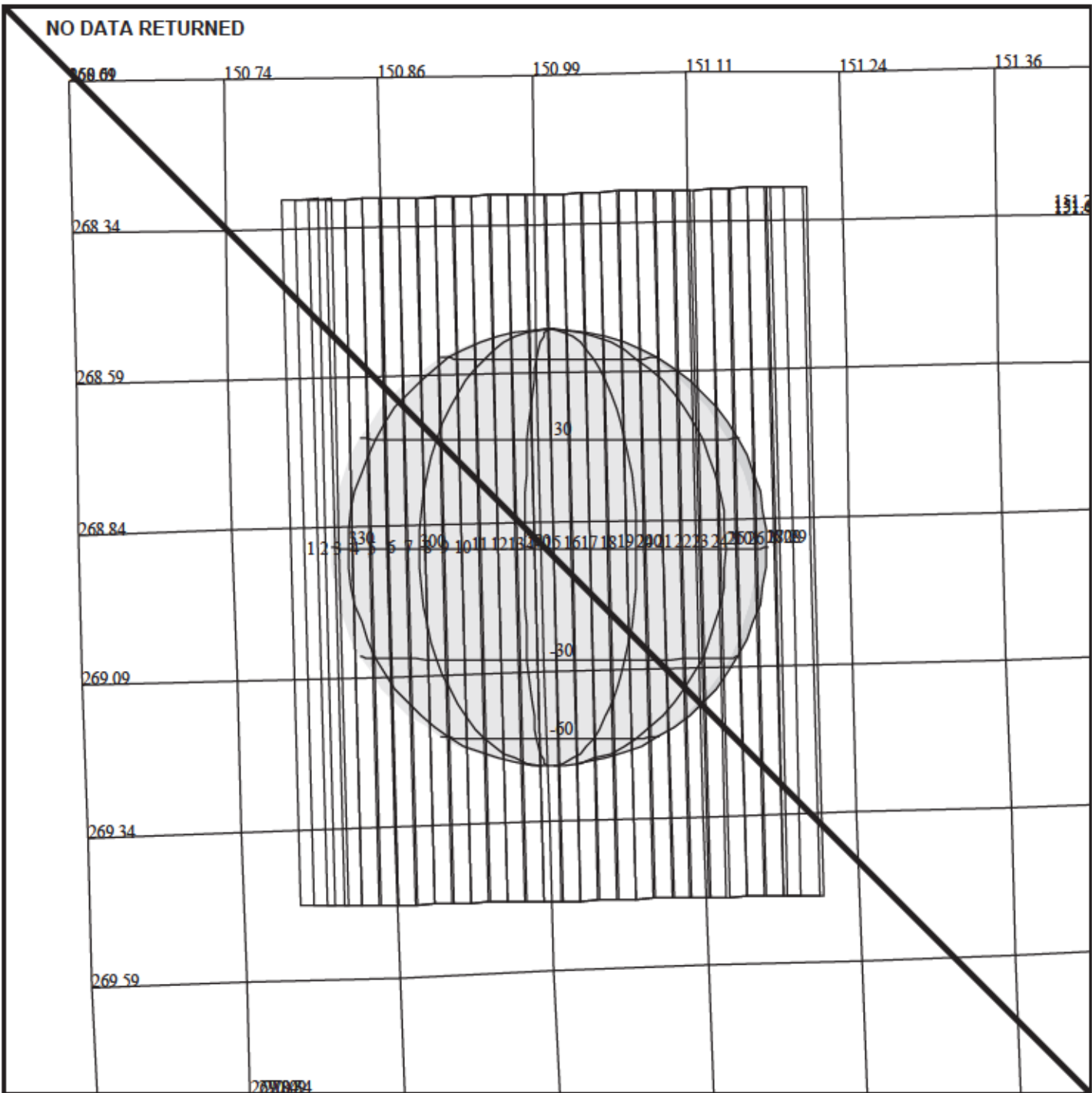
OBSERVATION:G2INCHEMIS03

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 972 S= 0.500

DESCRIP:DAYSIDE MONITORING OF IO

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G2INCHEMIS03-	
		START TIME: 96-251/09:34:59.932	
Activity ID: Orbit G2 Target I Inst N OAPEL CHEMIS SeqNo 03 -			
Title	MONITORING OF IO'S DAYSIDE	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID G2A	Calendar Date 09/07/96 Week 36
Start	IEE+CDS 247:21:0	96-251/09:34:59.932	IEE+000/04:09:58.666
End	IEE+CDS 256:42:0	96-251/09:44:19.932	IEE+000/04:19:18.666
Duration	9:21:0	000/00:09:20.000	000/00:09:20.000
Top Label	G2INCHEMIS03-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	147	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
<p>Processor Halted, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.</p> <p>CSMOS should start at IEE-CDS 392:00:0 with zero blockshift</p> <p>Long Map, 51 wavelengths.</p> <p>Tracks used per orbit: 0.05 to 0.42.</p> <p>Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p>			
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILM245, G2ILM102</p>			
Galileo Activity Plan Form		06/17/96 12:41:04	rev 6/95



**G2INCHEMIS04**

165DZ:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS=35/8076 TC= 3  
 A= 546 pD= 846 SR=17.430 RA50=309.87 DEC50=-20.28 cone=150.82 clock=268.88  
 117DZ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=35/8076  
 1:s= 1 Cs= 6.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 696 rD= 2

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INCHEMIS04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +08:37:58.000

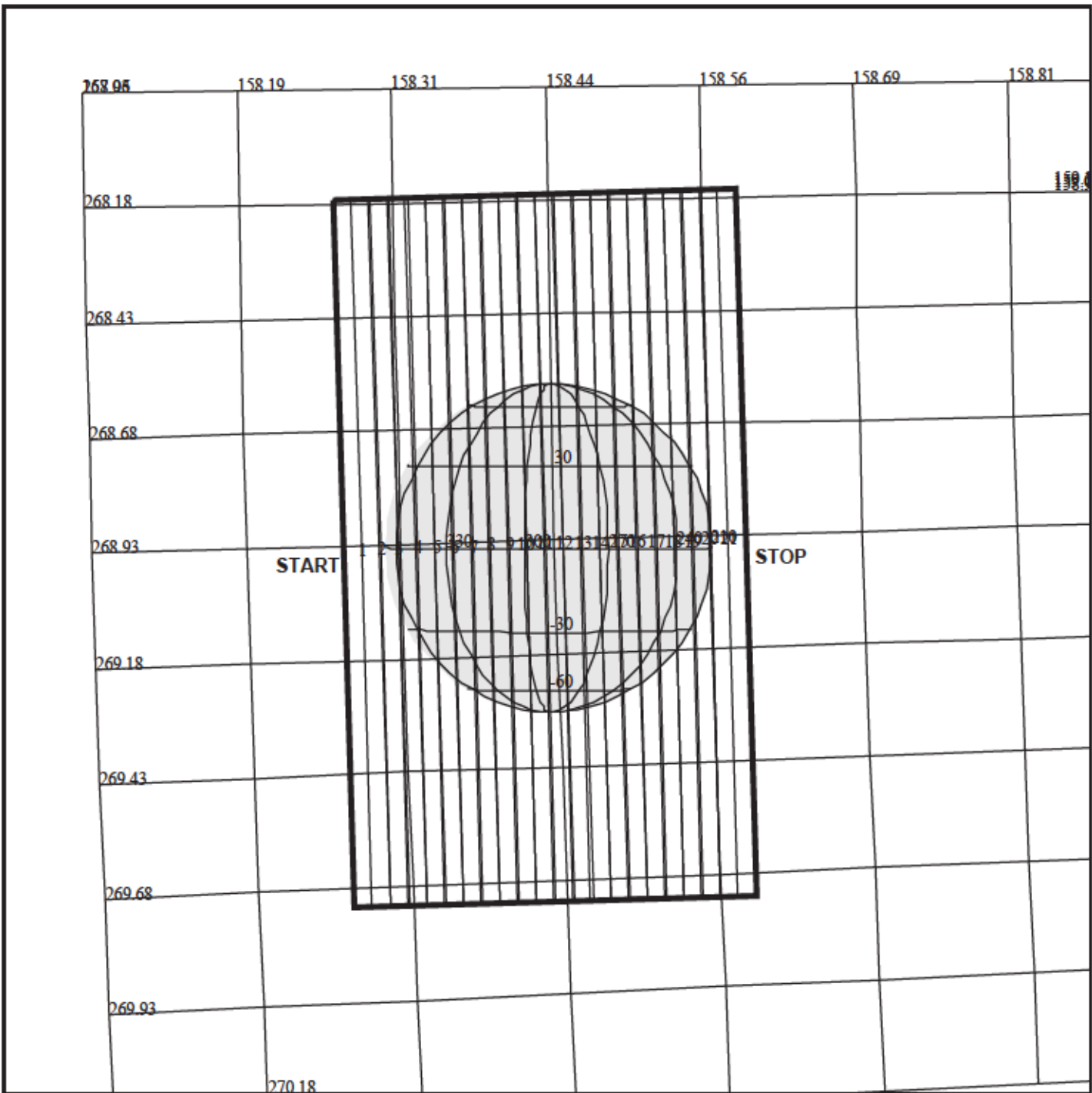
OBSERVATION:G2INCHEMIS04

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 846 S= 0.400

DESCRIP:DAYSIDE MONITORING OF IO

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G2INCHEMIS04-	
		START TIME: 96-251/13:59:57.932	
Activity ID: Orbit G2 Target I Inst N OAPEL CHEMIS SeqNo 04 -			
Title	MONITORING OF IO'S DAYSIDE	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID G2A	Calendar Date 09/07/96 Week 36
Start	IEE+CDS 509:26:0	96-251/13:59:57.932	IEE+000/08:34:56.666
End	IEE+CDS 517:68:0	96-251/14:08:31.266	IEE+000/08:43:30.000
Duration	8:42:0	000/00:08:33.334	000/00:08:33.334
Top Label	G2INCHEMIS04-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	147	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
<p>Processor Halted, No Data Returned</p>			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.</p> <p>CSMOS should start at IEE-CDS 392:00:0 with zero blockshift</p> <p>Long Map, 51 wavelengths.</p> <p>Tracks used per orbit: 0.05 to 0.42.</p> <p>Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p>			
<p>Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILM245, G2ILM102</p>			
Galileo Activity Plan Form		06/17/96 12:41:04	rev 6/95



**G2ENLEADMP01**

165EA:TT= 0 TMC=1 C= -2.65 XC= 0.00 BS=7/1928 TC=3  
 A= 546 pD= 536 SR=17.430 RA50=302.11 DEC50=22.08 cone=158.28 clock=268.94  
 117EA:#SB=1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=7/1928  
 1:#s= 1Cs= 5.30 XC= 0.00 Cr= 0.00 XC= 0.00 sD= 536 rD= 2

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2ENLEADMP01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:EEE 96-251/17:05:43.266 +CDS 05:00:0

OBSERVATION:G2ENLEADMP01

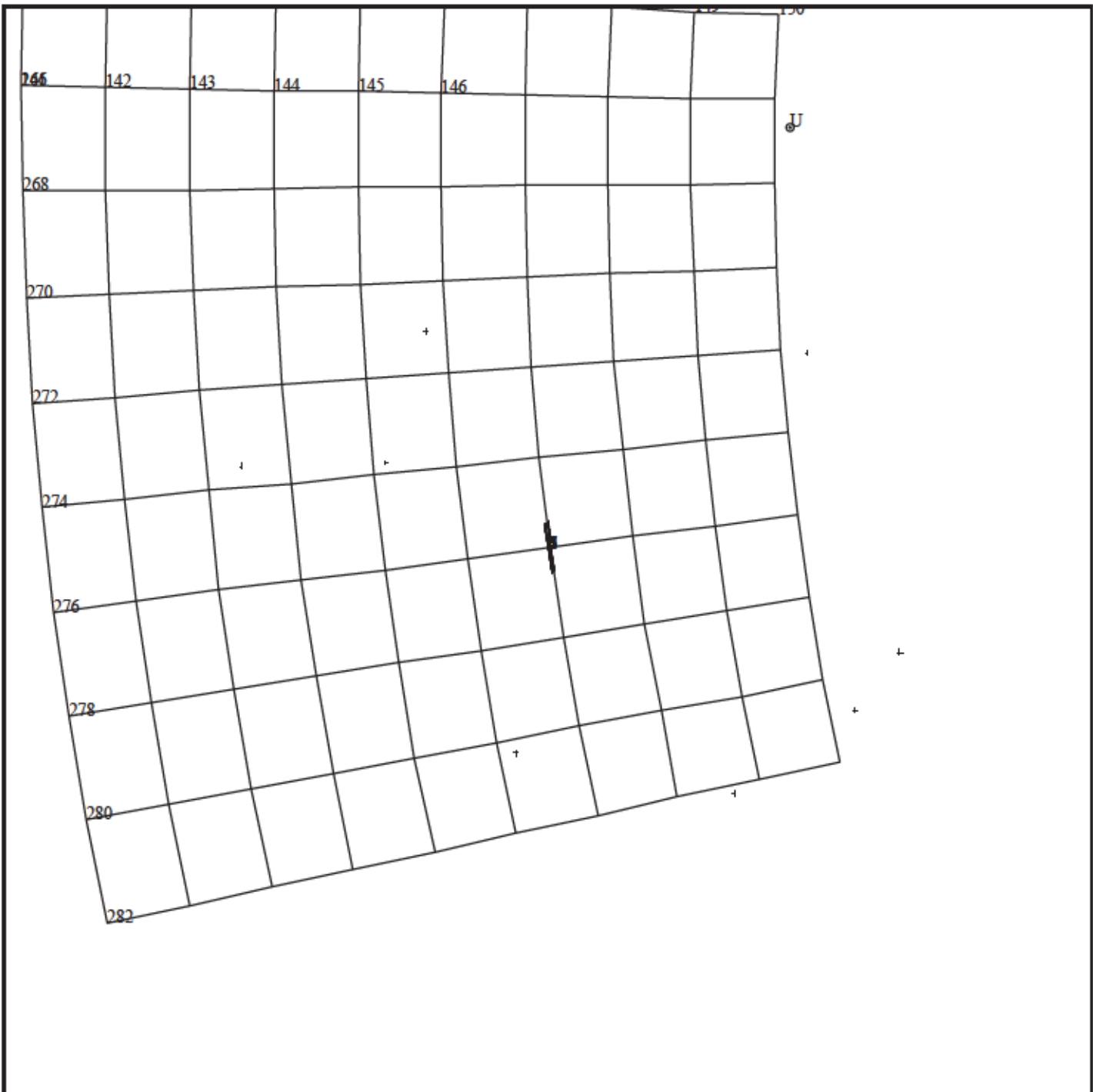
THINNING:NIM 1

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

DESCRIP:G2 Europa Lead Map



EUROPA MAIN CIRCULAR FEATURE		ACTIVITY ID:	G2ENLEADMP01-		
		START TIME:	96-251/17:07:45.932		
Activity ID: Orbit G2 Target E Inst N OAPEL LEADMP SeqNo 01 -					
Title	EUROPA MAIN CIRCULAR FEATURE		Instrument		NIMS
Requestor	NIMS-SWG/A. OCAMPO		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2A	Calendar Date	09/07/96 Week 36
Start	EEE+CDS 2:02:0		96-251/17:07:45.932	EEE+000/00:02:02.666	
End	EEE+CDS 8:03:0		96-251/17:13:50.599	EEE+000/00:08:07.333	
Duration	6:01:0		000/00:06:04.667	000/00:06:04.667	
Top Label	G2ENLEADMP01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	171	Report Options	BOTH		
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
Full disk coverage of the leading side of Europa, limited by Phineus and Asterius Lines, contains good diverse coverage of linea terrain. Long. span: 210 Degrees - 360 Degrees, Lat. Span: +/- 90 Degrees, Coverage: 99 %, Sub S/C Long.: 290 Degrees, Sub S/C Lat.: 0.57 Degrees.					
Data Returned					
Design Detail					
Distance: 670617 KM	Mode: Long Map	Num. of Wavelengths: 204			
Phase: 9.28 Degrees	Slew rate: 30 mr/s,	Cone: 160.45 Degrees			
% overlap: 30	Area cov. in pix: 67	Resolution: 335.3 km/pix			
Num. of strips: 1	Booms: OK	NIMS f.o.v./strip: 9			
ASD: 0.134	DMS mode: 7.68	Bits-to-Ground: 753000			
Tracks: 0.0052					
Long Map (LM), Gain 3, Grating Start 0, LPU, G2ELM221, G2ELM204					
Galileo Activity Plan Form			06/17/96	12:41:04	rev 6/95



165EB:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=0/3748 TC=2(147 276 )  
 A= 536 pD= 0 SR=17.430 RA50=314.76 DEC50=-23.00 cone=147.00 clock=276.00

**G2HNDARK\_\_04**

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2HNDARK\_\_04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GEE 96-250/19:00:09.333 +CDS 1326:00:0

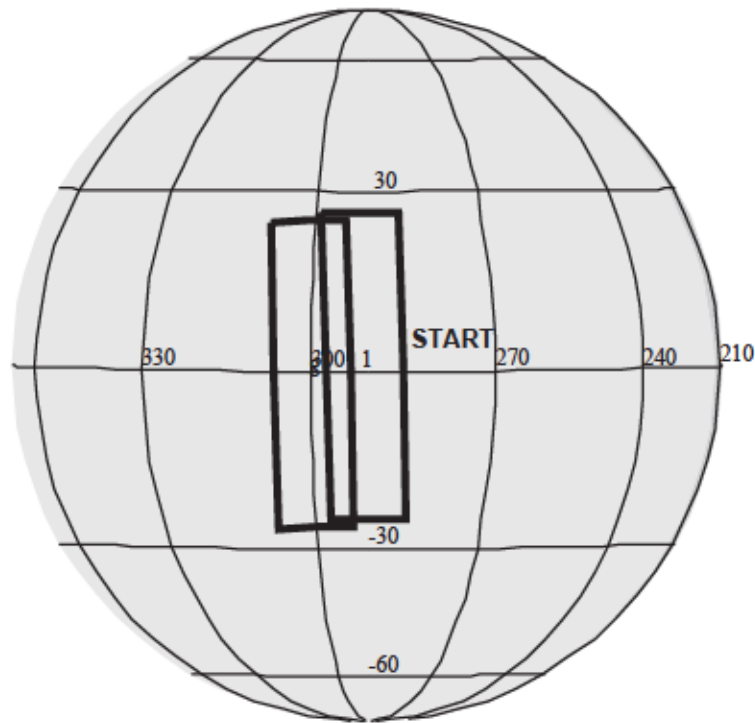
OBSERVATION:G2HNDARK\_\_04

THINNING:NIM 1

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

DESCRIP:DARK SKY 04

DARK SKY		ACTIVITY ID: G2HNDARK 04-	
		START TIME: 96-251/17:16:50.666	
Activity ID: Orbit G2 Target H Inst N OAPEL DARK SeqNo 04 -			
Title	DARK SKY	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID G2A	Calendar Date 09/07/96 Week 36
Start	GEE+CDS 1322:00:0	96-251/17:16:50.666	GEE+000/22:16:41.333
End	GEE+CDS 1328:00:0	96-251/17:22:54.666	GEE+000/22:22:45.333
Duration	6:00:0	000/00:06:04.000	000/00:06:04.000
Top Label	G2HNDARK 04-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	141	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
Collect Dark Values for calibration purposes.			
Data Returned			
Design Detail			
Slew to dark space and record 1 Rim of dark values.			
Long Map			
Gain State 2			
Targeting should be completed by GEE+CDS 1326:00:0 with zero blockshift.			
Long Map (LM), Gain 3, Grating Start 0, MPW, G2DRK34, G2DRK34			
Galileo Activity Plan Form		06/17/96 12:41:04	rev 6/95



**G2ENEURORT01**

165FC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/5932 TC= 3  
 A= 728 pD= 0 SR=17.430 RA50=303.87 DEC50=-21.65 cone=156.59 clock=268.78  
 117FF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5932  
 1:#s= 1 Cs= -3.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2ENEURORT01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:EEE 96-251/17:05:43.266 +CDS 27:00:0

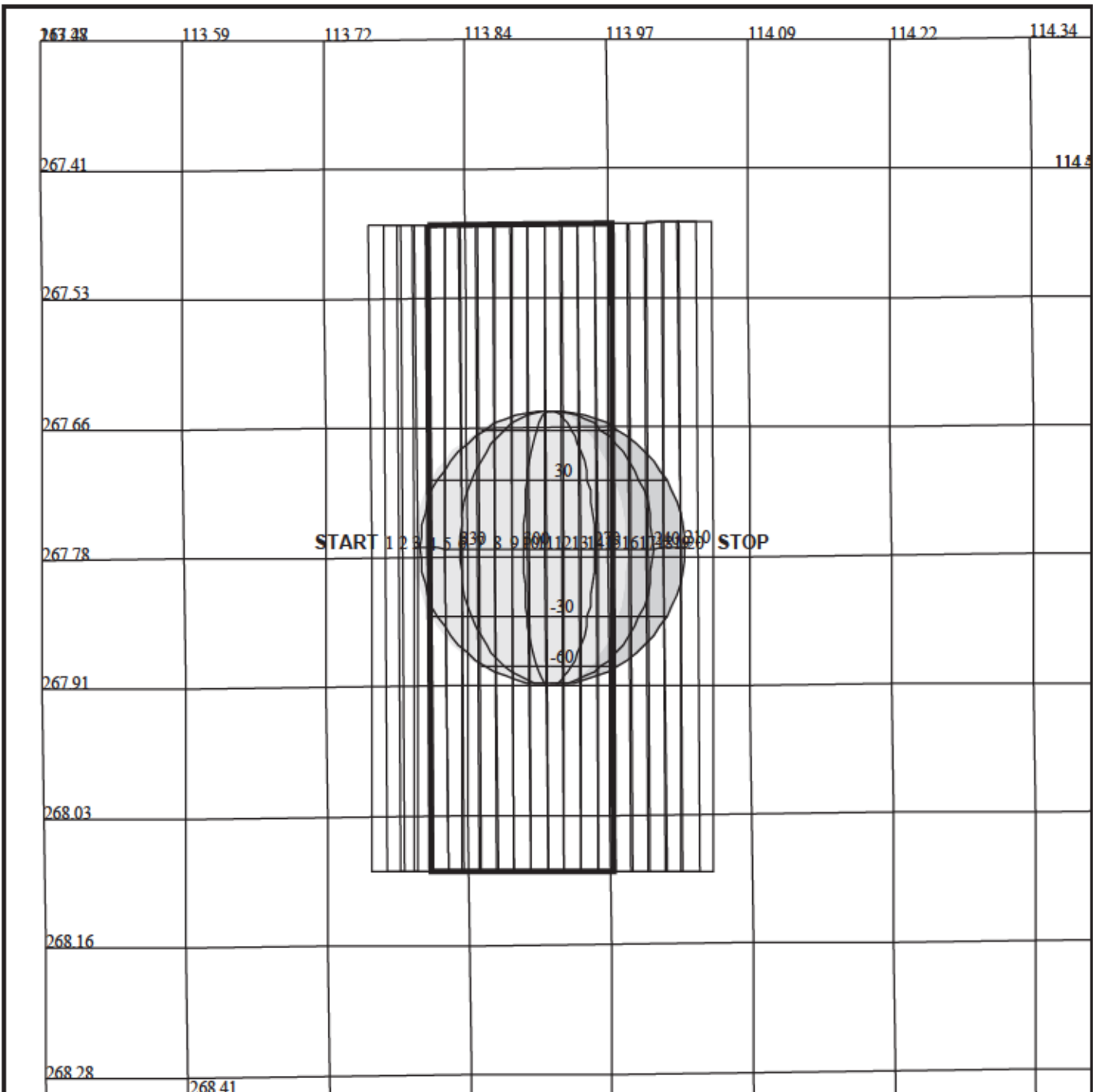
OBSERVATION:G2ENEURORT01

THINNING:NIM 7

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:G2ENEURORT01

ENEURORT	ACTIVITY ID: G2ENEURORT01-		START TIME: 96-251/17:28:58.599	
Activity ID: Orbit G2 Target E Inst N OAPEL EURORT SeqNo 01 -				
Title	ENEURORT	Instrument		NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2A	Calendar Date 09/07/96 Week 36
Start	EEE+CDS 23:00:0		96-251/17:28:58.599	EEE+000/00:23:15.333
End	EEE+CDS 31:00:0		96-251/17:37:03.932	EEE+000/00:31:20.666
Duration	8:00:0		000/00:08:05.333	000/00:08:05.333
Top Label	G2ENEURORT01-			
Bottom Label				
Plot Key	NIMS	Type	SCI	
CDS Bytes	178	Report Options	BOTH	
CDS Source	PA	Spin State	DUAL	Scan Platform DMS Yes No
Observation Objective				
Early Europa spectra will be used to optimize NIMS wavelength table for this observation.				
Data Returned				
Design Detail				
Distance: 670617 KM	Mode: Long Map	Phase 9.28 Degrees		
Slew rate 30 mr/s	Cone: 160.45 Degrees	% overlap: 30		
Area cov. in pix.: 67	Num of Wavelegths: 204	Resolution: 335.3 km/pix		
Num. of strips: 1	Booms: OK	NIMS f.o.v./strip: 9		
ASD 0.134.				
Mirror Blocked (1B,1B) (11011,11011)				
2 Rims returned (2 grating cycles)				
Long Map (LM), Gain 3, Grating Start 0, R/T, G2ELM442				
Galileo Activity Plan Form		06/17/96	12:41:04	rev 6/95



165EC:TT= 0 TMC= 1 C= -1.75 XC= 0.00 BS=527428 TC= 3  
 A= 546 pD= 470 SR=17.430 RA50=345.30 DEC50= -6.46 cone=113.81 clock=267.77  
 117EC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=527428  
 1:#s= 1 Cs= 4.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 414 rD= 2

## G2INCHEMIS05

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INCHEMIS05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +15:59:00.000

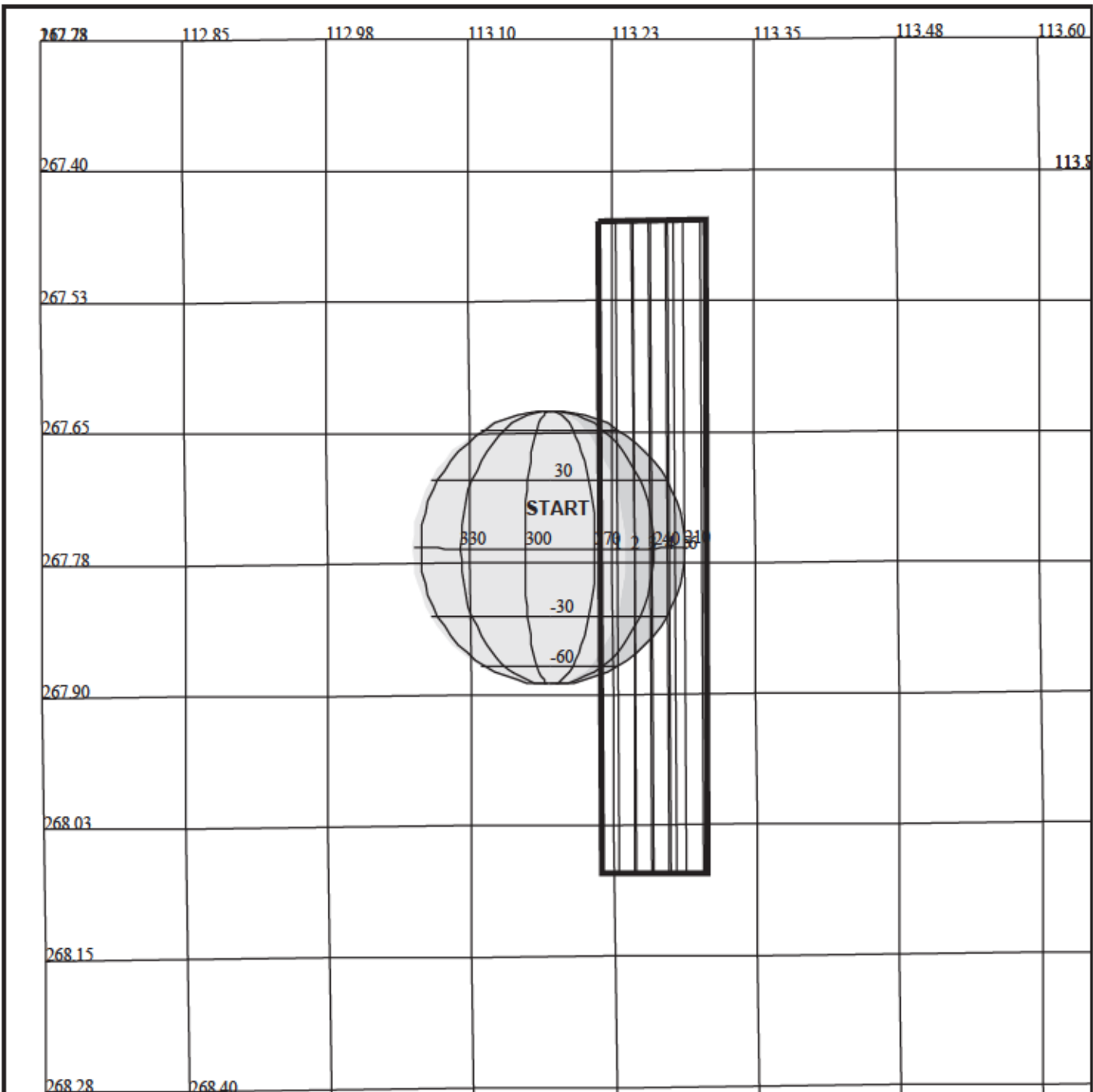
OBSERVATION:G2INCHEMIS05

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 470 S= 0.250

DESCRIP:DAYSIDE MONITORING OF IO

MONITORING OF IO'S DAYSIDE		ACTIVITY ID: G2INCHEMIS05-	
		START TIME: 96-251/21:20:59.932	
Activity ID: Orbit G2 Target I Inst N OAPEL CHEMIS SeqNo 05 -			
Title	MONITORING OF IO'S DAYSIDE		Instrument NIMS
Requestor	NIMS-SWG/R. LOPES		Team NIMS Working Group SWG
Time System	CDS	Load ID G2A	Calendar Date 09/07/96 Week 36
Start	IEE+CDS 945:43:0	96-251/21:20:59.932	IEE+000/15:55:58.666
End	IEE+CDS 951:10:0	96-251/21:26:41.932	IEE+000/16:01:40.666
Duration	5:58:0	000/00:05:42.000	000/00:05:42.000
Top Label	G2INCHEMIS05-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	178	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).</p>			
Data Returned			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.  CSMOS should start at IEE-CDS 392:00:0 with zero blockshift  Long Map, 51 wavelengths.  Tracks used per orbit: 0.05 to 0.42.  Bits To Ground per orbit: 0.3 to 2.2 Mbits.</p>			
Long Map (LM), Gain 2, Grating Start 0, MPW, G2ILM245, G2ILM102			
Galileo Activity Plan Form		06/17/96 12:41:04	rev 6/95



165ED:TT= 0 TMC=1 C= 0.90 XC= 0.00 BS=0.9066 TC=3  
 A= 546 pD= 320 SR= 6.000 RA50=345.83 DEC50= -6.21 cone=113.23 clock=267.76  
 117ED:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=0.9066  
 1:#s= 1 Cs= 1.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 150 rD= 2

## G2INTHRMAL01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INTHRMAL01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +CDS 957:00:0

OBSERVATION:G2INTHRMAL01

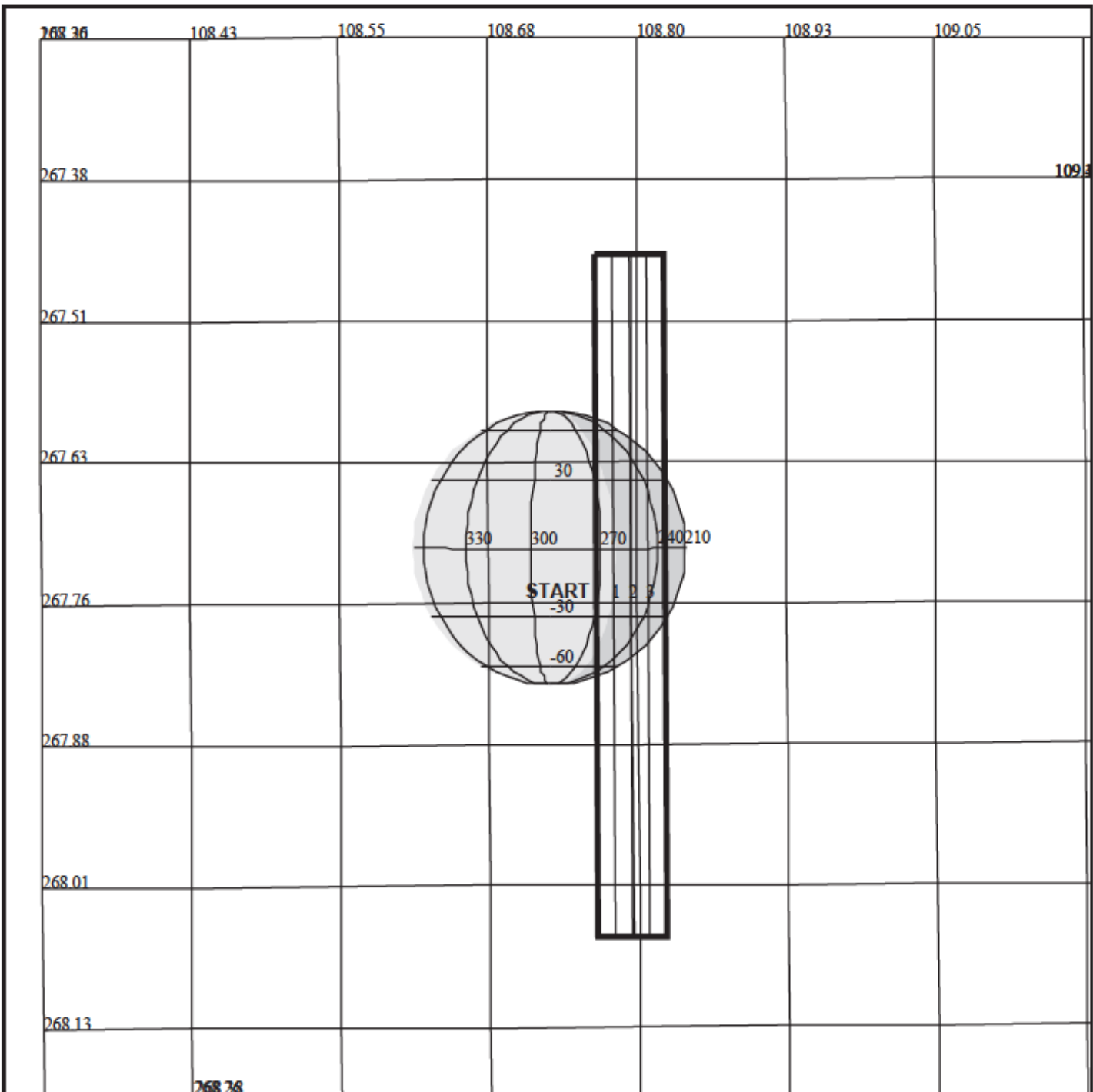
THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 320 S= 0.250

DESCRIP:THERMAL NIGHT MONITORING OF IO



MONITORING OF IO'S NIGHTSIDE		ACTIVITY ID: G2INTHRMAL01-	
		START TIME: 96-251/21:27:59.932	
Activity ID: Orbit G2 Target I Inst N OAPEL THRMAL SeqNo 01 -			
Title	MONITORING OF IO'S NIGHTSIDE	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID G2A	Calendar Date 09/07/96 Week 36
Start	IEE+CDS 952:36:0	96-251/21:27:59.932	IEE+000/16:02:58.666
End	IEE+CDS 958:20:0	96-251/21:33:53.266	IEE+000/16:08:52.000
Duration	5:75:0	000/00:05:53.334	000/00:05:53.334
Top Label	G2INTHRMAL01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	171	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
<p>Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimse1. Objective is to search for and map hot spots, thermal anomalies and outbursts on the surface. Observations will also include the limb to search for auroral effects.</p>			
Data Returned			
Design Detail			
<p>Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.</p> <p>Instrument mode: Long Map,  Number of Wavelengths: 51,  Tracks used per orbit: 0.01 to 0.1,  Bits To Ground used per orbit: 0.01 to 0.5 Mbits.  CSMOS should start at IEE+CDS 957:00:0 with zero blockshift</p>			
Long Map (LM), Gain 4, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10			
Galileo Activity Plan Form		06/17/96 12:41:05	rev 6/95



165EE:TT= 0 TMC= 1 C= -0.20 XC= 0.00 BS=08348 TC= 1(-20 260 )  
 A= 546 pD= 90 SR=17.430 RA50=349.89 DEC50= -4.33 cone=108.77 clock=267.75  
 117EE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=08348  
 1:#s= 1 Cs= 0.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 2

## G2INVOLCAN01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +CDS 1008:00:0

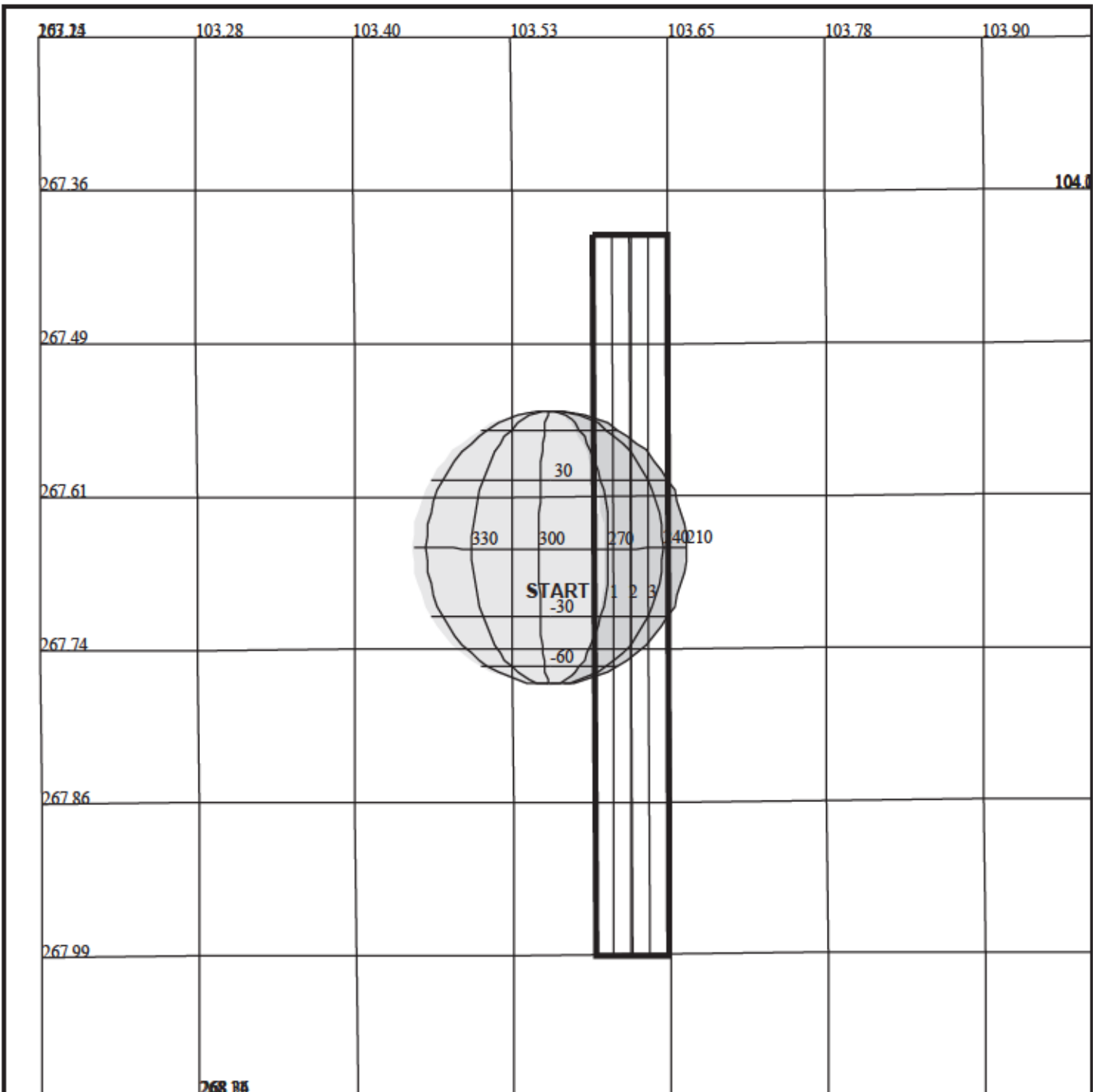
OBSERVATION:G2INVOLCAN01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 90 S= 0.250

DESCRIP:MONITORING OF PELEE

MON. OF SELECTED VOLCANIC REG.		ACTIVITY ID: G2INVOLCAN01-	
		START TIME: 96-251/22:20:10.599	
Activity ID: Orbit G2 Target I Inst N OAPEL VOLCAN SeqNo 01 -			
Title	MON. OF SELECTED VOLCANIC REG.		Instrument
Requestor	NIMS-SWG/R. LOPES		NIMS
	Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2A
		Calendar Date	09/07/96
		Week	36
Start	IEE+CDS 1004:00:0	96-251/22:20:10.599	IEE+000/16:55:09.333
End	IEE+CDS 1009:00:0	96-251/22:25:13.932	IEE+000/17:00:12.666
Duration	5:00:0	000/00:05:03.333	000/00:05:03.333
Top Label	G2INVOLCAN01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	171	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	DMS
		Yes	Yes
Observation Objective			
To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.			
Data Returned			
Design Detail			
Long Map, 8 wavelengths, 30 secs duration (or less).			
Orbit 7 is high priority for Loki region, will be seen at the best nightside resolution (278 km).			
~ 5 observations per orbit.			
Tracks: 0.005 per observation.			
CSMOS should start at IEE+CDS 1008:00:0 with zero blockshift			
Locations of features:	Kanehekili	( -10 d. lat, +40 d. long )	
	Pelee	( -20 d. lat, -255 d. long )	
	Loki	( +12 d. lat, 310 d. long )	
Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10			
Galileo Activity Plan Form		06/17/96 12:41:05	rev 6/95



268.86

165EF:TT= 0 TMC=1 C= -0.30 XC= 0.00 BS=0/9268 TC=1(-20 260 )  
 A= 546 pD= 90 SR=17.430 RA50=354.56 DEC50= -2.09 cone=103.60 clock=267.69  
 117EF:#SB=1 OR=0.030 RR=12.000 BM=F RC= 1 BS=0/9268  
 1:#s= 1 Cs= 0.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 2

## G2INVOLCAN02

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INVOLCAN02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +CDS 1068:00:0

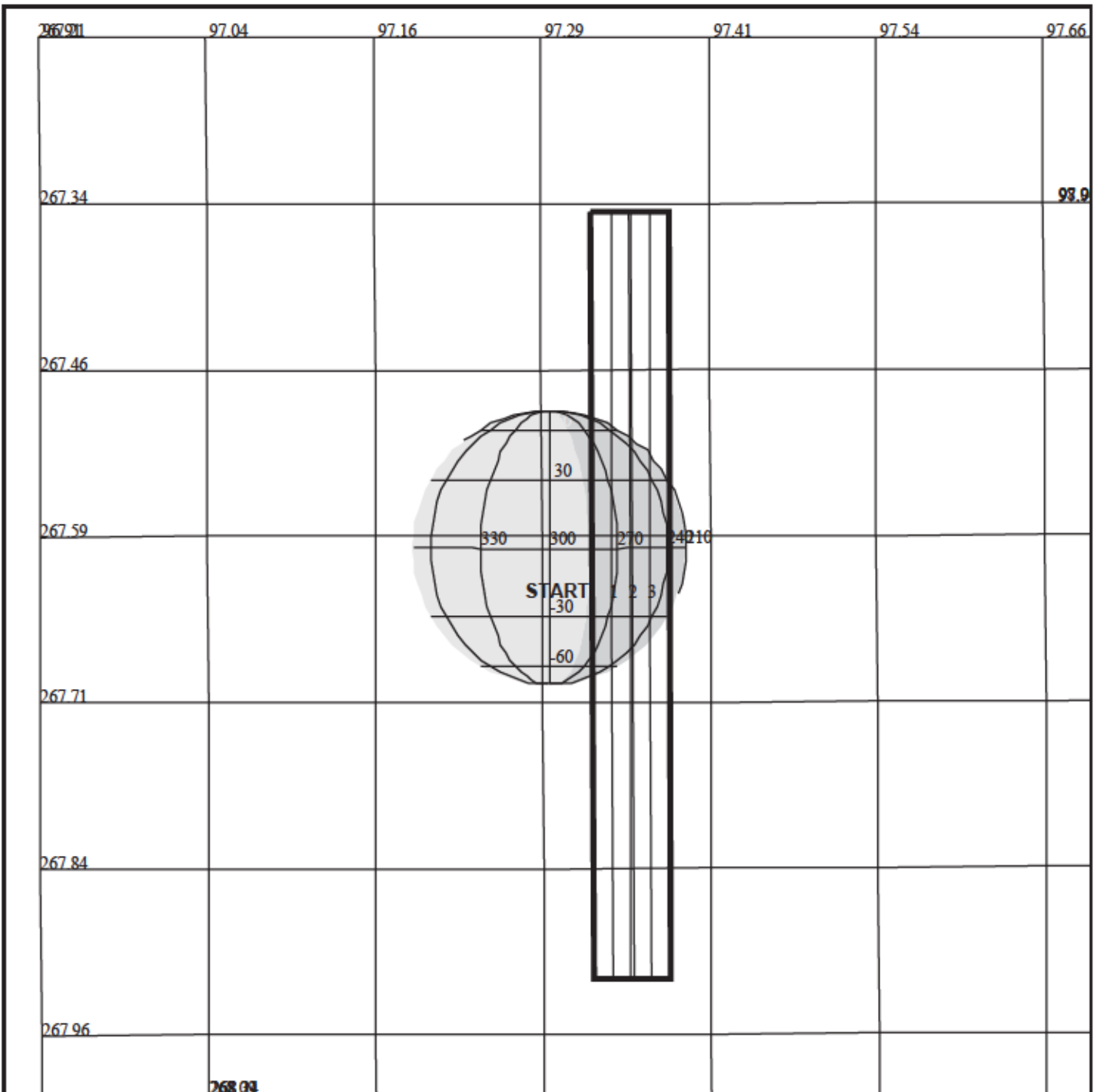
OBSERVATION:G2INVOLCAN02

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 90 S= 0.250

DESCRIP:MONITORING OF PELEE

MON. OF SELECTED VOLCANIC REG.		ACTIVITY ID:	G2INVOLCAN02-		
		START TIME:	96-251/23:20:50.599		
Activity ID: Orbit G2 Target I Inst N OAPEL VOLCAN SeqNo 02 -					
Title	MON. OF SELECTED VOLCANIC REG.		Instrument		NIMS
Requestor	NIMS-SWG/R. LOPES		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2A	Calendar Date	09/07/96 Week 36
Start	IEE+CDS	1064:00:0	96-251/23:20:50.599	IEE+000/17:55:49.333	
End	IEE+CDS	1069:00:0	96-251/23:25:53.932	IEE+000/18:00:52.666	
Duration		5:00:0	000/00:05:03.333	000/00:05:03.333	
Top Label	G2INVOLCAN02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH		
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes
			DMS		Yes
Observation Objective					
To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.					
Data Returned					
Design Detail					
Long Map, 8 wavelengths, 30 secs duration (or less). Orbit 7 is high priority for Loki region, will be seen at the best nightside resolution (278 km). ~ 5 observations per orbit. Tracks: 0.005 per observation. CSMOS should start at IEE+CDS 1068:00:0 with zero blockshift					
Locations of features: Kanehekili ( -10 d. lat, +40 d. long ) Pelee ( -20 d. lat, -255 d. long ) Loki ( +12 d. lat, 310 d. long )					
Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10					
Galileo Activity Plan Form			06/17/96	12:41:05	rev 6/95



165EH:TT= 0 TMC=1 C= -0.40 XC= 0.00 BS=0/2736 TC=1(-20 260 )  
 A= 546 pD= 90 SR=17.430 RA50= 0.20 DEC50= 0.64 cone= 97.33 clock=267.63  
 117EH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=0/2736  
 1:#s= 1 Cs= 0.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 2

## G2INVOLCAN03

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INVOLCAN03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +CDS 1142:00:0

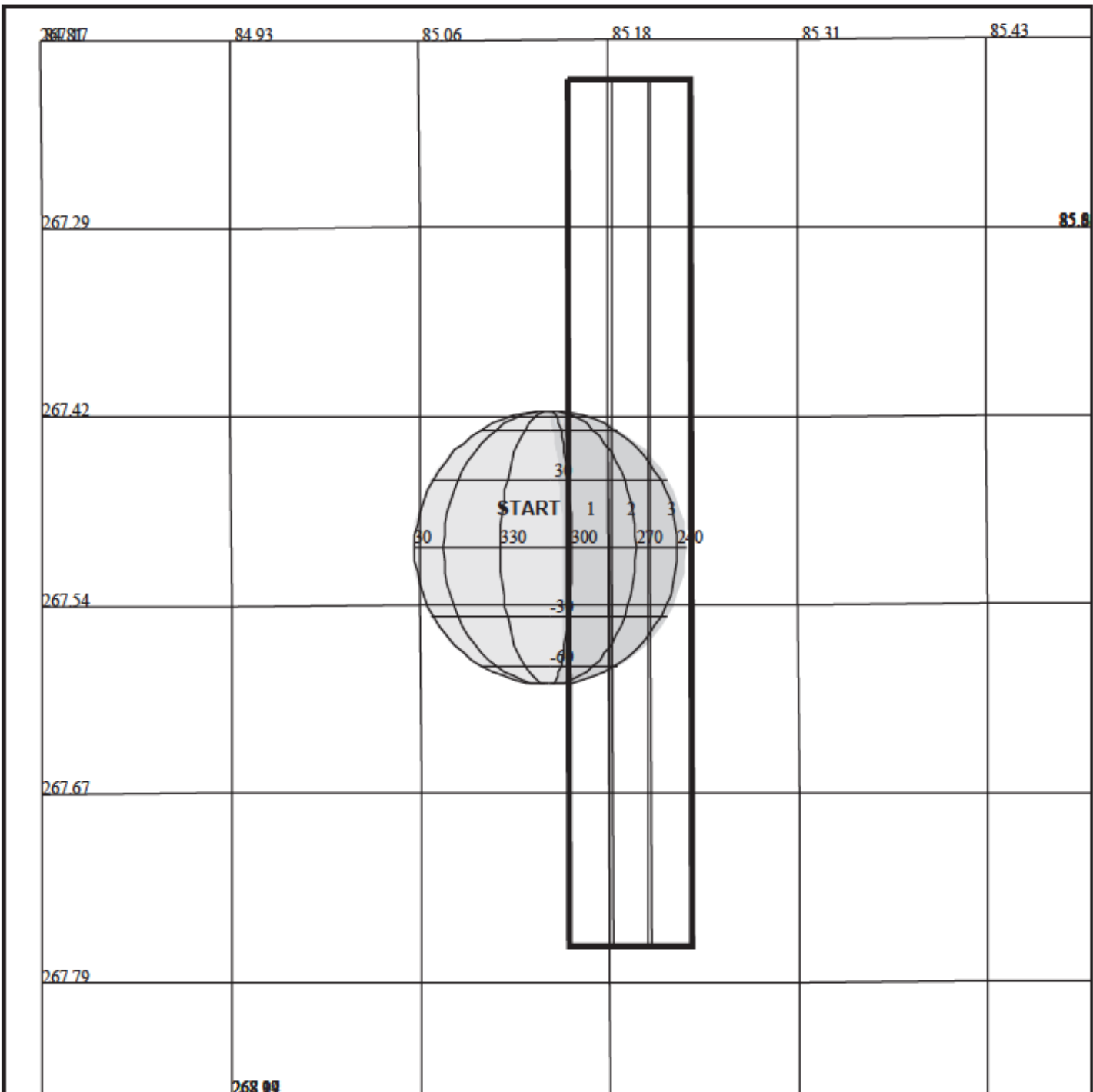
OBSERVATION:G2INVOLCAN03

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 90 S= 0.250

DESCRIP:MONITORING OF PELEE

MON. OF SELECTED VOLCANIC REG.		ACTIVITY ID:	G2INVOLCAN03-		
		START TIME:	96-252/00:35:39.932		
Activity ID: Orbit G2 Target I Inst N OAPEL VOLCAN SeqNo 03 -					
Title	MON. OF SELECTED VOLCANIC REG.		Instrument		NIMS
Requestor	NIMS-SWG/R. LOPES		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2B	Calendar Date	09/08/96 Week 36
Start	IEE+CDS 1138:00:0		96-252/00:35:39.932	IEE+000/19:10:38.666	
End	IEE+CDS 1143:00:0		96-252/00:40:43.266	IEE+000/19:15:42.000	
Duration	5:00:0		000/00:05:03.334	000/00:05:03.334	
Top Label	G2INVOLCAN03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH		
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.					
Data Returned					
Design Detail					
Long Map, 8 wavelengths, 30 secs duration (or less). Orbit 7 is high priority for Loki region, will be seen at the best nightside resolution (278 km). ~ 5 observations per orbit. Tracks: 0.005 per observation. CSMOS should start at IEE+CDS 1142:00:0 with zero blockshift					
Locations of features: Kanehekili ( -10 d. lat, +40 d. long ) Pelee ( -20 d. lat, -255 d. long ) Loki ( +12 d. lat, 310 d. long )					
Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10					
Galileo Activity Plan Form			06/17/96	12:41:05	rev 6/95



268.09

165E:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 09854 TC= 1(15 300 )  
 A= 546 pD= 0 SR=17.430 RA50= 11.18 DEC50= 5.94 cone= 85.16 clock=267.48  
 117E: #SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 09854  
 1: #s= 1 Cs= 0.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 2

## G2INVOLCAN04

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INVOLCAN04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +CDS 1291:00:0

OBSERVATION:G2INVOLCAN04

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.250

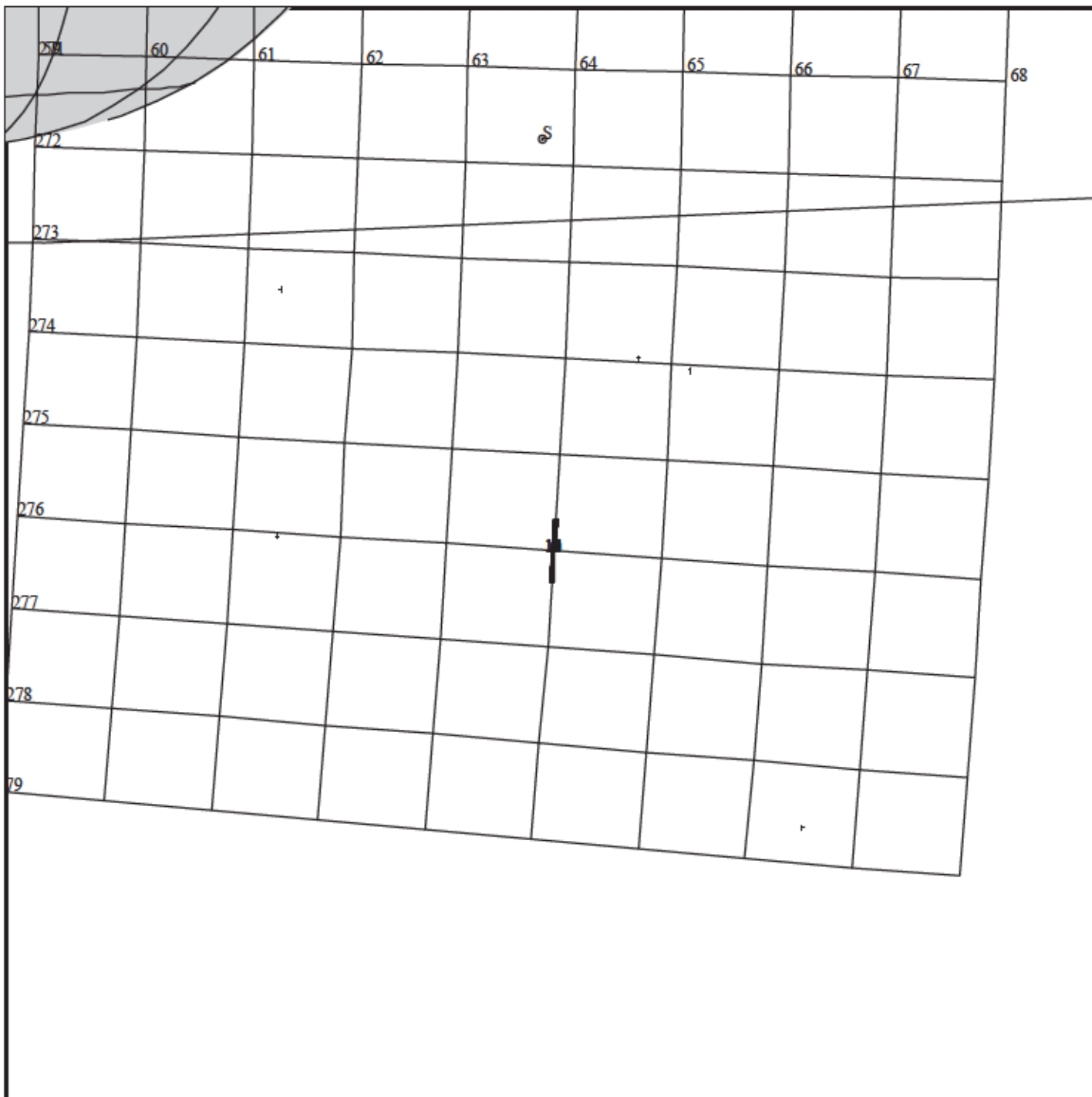
DESCRIP:MONITORING OF LOKI



MON. OF SELECTED VOLCANIC REG.		ACTIVITY ID: G2INVOLCAN04-	
		START TIME: 96-252/03:06:19.266	
Activity ID: Orbit G2 Target I Inst N OAPEL VOLCAN SeqNo 04 -			
Title	MON. OF SELECTED VOLCANIC REG.		Instrument
Requestor	NIMS-SWG/R. LOPES		NIMS Working Group
	Team	NIMS	SWG
Time System	CDS	Load ID	G2B
		Calendar Date	09/08/96
		Week	36
Start	IEE+CDS 1287:00:0	96-252/03:06:19.266	IEE+000/21:41:18.000
End	IEE+CDS 1292:00:0	96-252/03:11:22.599	IEE+000/21:46:21.333
Duration	5:00:0	000/00:05:03.333	000/00:05:03.333
Top Label	G2INVOLCAN04-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	147	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	DMS
		Yes	Yes
Observation Objective			
To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.			
Data Returned			
Design Detail			
Long Map, 8 wavelengths, 30 secs duration (or less).			
Orbit 7 is high priority for Loki region, will be seen at the best nightside resolution (278 km).			
~ 5 observations per orbit.			
Tracks: 0.005 per observation.			
CSMOS should start at IEE+CDS 1291:00:0 with zero blockshift			
Locations of features:	Kanehekili	( -10 d. lat, +40 d. long )	
	Pelee	( -20 d. lat, -255 d. long )	
	Loki	( +12 d. lat, 310 d. long )	
Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10			
Galileo Activity Plan Form		06/17/96 12:41:05	rev 6/95



MON. OF SELECTED VOLCANIC REG.		ACTIVITY ID:	G2INVOLCAN05-		
		START TIME:	96-252/05:14:43.932		
Activity ID: Orbit G2 Target I Inst N OAPEL VOLCAN SeqNo 05 -					
Title	MON. OF SELECTED VOLCANIC REG.		Instrument		NIMS
Requestor	NIMS-SWG/R. LOPES		Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2B	Calendar Date	09/08/96 Week 36
Start	IEE+CDS	1414:00:0		96-252/05:14:43.932	IEE+000/23:49:42.666
End	IEE+CDS	1419:00:0		96-252/05:19:47.266	IEE+000/23:54:46.000
Duration		5:00:0		000/00:05:03.334	000/00:05:03.334
Top Label	G2INVOLCAN05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH		
CDS Source	PA	Spin State	DUAL	Scan Platform	Yes
				DMS	Yes
Observation Objective					
To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.					
Data Returned					
Design Detail					
Long Map, 8 wavelengths, 30 secs duration (or less). Orbit 7 is high priority for Loki region, will be seen at the best nightside resolution (278 km). ~ 5 observations per orbit. Tracks: 0.005 per observation. CSMOS should start at IEE+CDS 1418:00:0 with zero blockshift					
Locations of features: Kanehekili ( -10 d. lat, +40 d. long ) Pelee ( -20 d. lat, -255 d. long ) Loki ( +12 d. lat, 310 d. long )					
Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10					
Galileo Activity Plan Form			06/17/96	12:41:05	rev 6/95



165EX:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=64/4059 TC= 2(64 276 )  
 A= 718 pD= 0 SR=17.430 RA50= 33.98 DEC50= 7.21 cone= 64.00 clock=276.00

**G2HNDARK\_\_05**

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2HNDARK\_\_05

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GEE 96-250/19:00:09.333 +CDS 2042:00:0

OBSERVATION:G2HNDARK\_\_05

THINNING:NIM 1

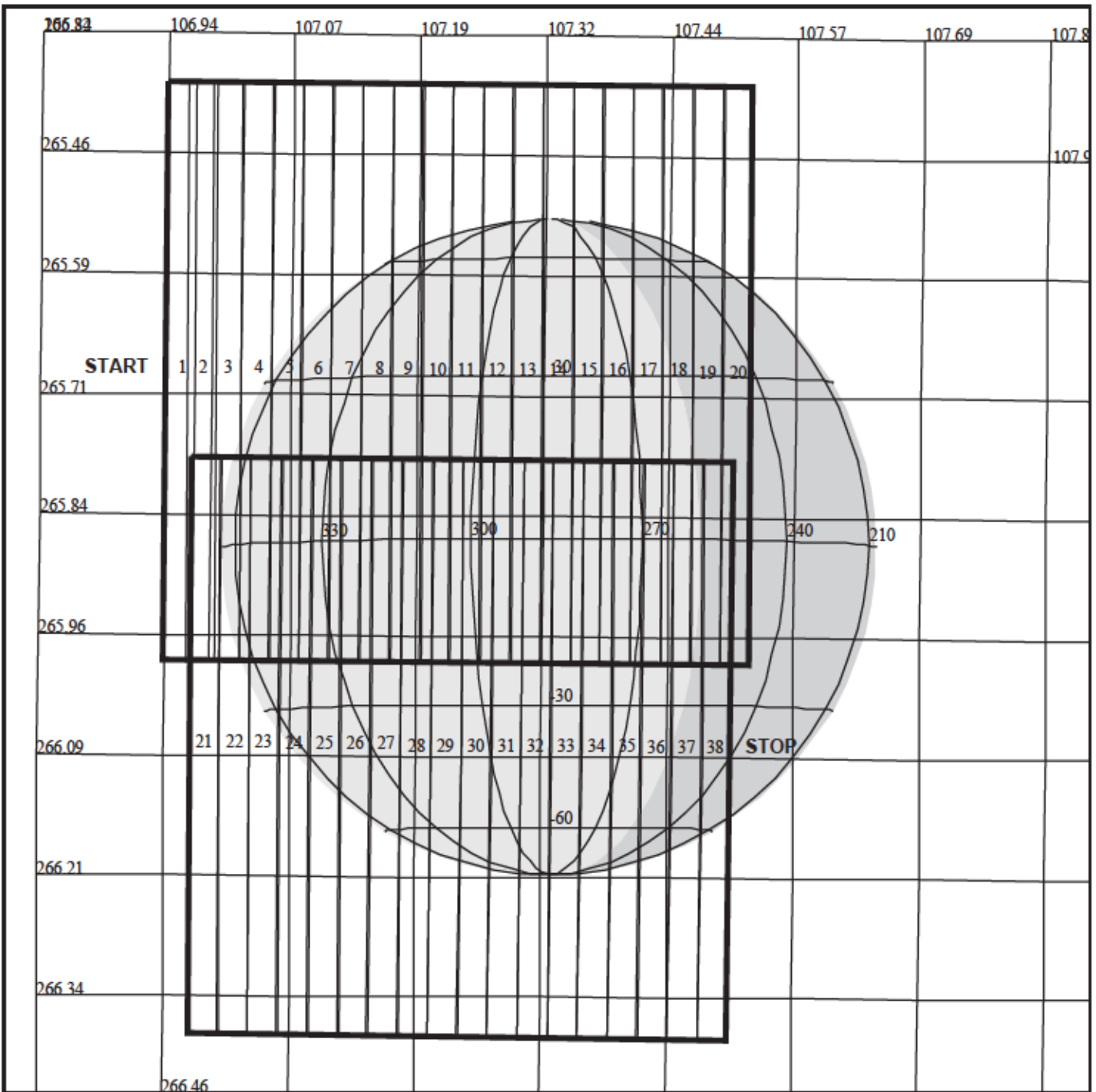
BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800

DESCRIP:DARK SKY 05

DARK SKY		ACTIVITY ID: G2HNDARK 05-	
		START TIME: 96-252/05:20:47.999	
Activity ID: Orbit G2 Target H Inst N OAPEL DARK SeqNo 05 -			
Title	DARK SKY	Instrument	
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G2B
		Calendar Date	09/08/96
		Week	36
Start	GEE+CDS 2038:00:0	96-252/05:20:47.999	GEE+001/10:20:38.666
End	GEE+CDS 2045:00:0	96-252/05:27:52.666	GEE+001/10:27:43.333
Duration	7:00:0	000/00:07:04.667	000/00:07:04.667
Top Label	G2HNDARK 05-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	147	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	DMS
			Yes
			Yes
Observation Objective			
Collect Dark Values for calibration purposes.			
Data Returned			
Design Detail			
Slew to dark space and record 1 Rim of dark values.			
Long Map			
Gain State 2			
Long Map (LM), Gain 2, Grating Start 0, LPU, G2DRK34, G2DRK34			
Galileo Activity Plan Form		06/17/96 12:41:05	rev 6/95

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NIMS PCT Calibration		ACTIVITY ID: G2NNPCTCAL01-	
		START TIME: 96-252/13:54:26.666	
Activity ID: Orbit G2 Target N Inst N OAPEL PCTCAL SeqNo 01 -			
Title	NIMS PCT Calibration		Instrument
Requestor	NIMS-SWG/R. LOPES		NIMS SWG
	Team	NIMS	Working Group
Time System	CDS	Load ID	G2A
		Calendar Date	09/08/96
		Week	36
Start	GEE+CDS 2546:00:0	96-252/13:54:26.666	GEE+001/18:54:17.333
End	GEE+CDS 2649:00:0	96-252/15:38:35.333	GEE+001/20:38:26.000
Duration	103:00:0	000/01:44:08.667	000/01:44:08.667
Top Label	G2NNPCTCAL01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	465	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	DMS
			Yes
			Yes
Observation Objective			
<p>This observation is a NIMS photometric calibration using the PCT target. The data will be used to calibrate the NIMS visible detectors. The calibration data will be recorded. This calibration will take place near the end of the G2 Encounter phase. At this time the spacecraft angle is about 10 degrees, not an ideal sun angle for a PCT calibration. A NIMS Optical Calibration is also performed.</p>			
Data Returned			
Design Detail			
<p>The Dark cone, clock angles must be selected using PPointer.</p> <ol style="list-style-type: none"> <li>1) Turn off PCT heaters 6 hours before calibration.</li> <li>2) Set NIMS to Long Map Mode, Gain State 4, ETB = PCT252, The OPCAL diode will be turned on before step 5.</li> <li>3) Slew to Dark (cone=110.00, clock=90.00), Record 3 Rims in LPU.</li> <li>4) Slew to PCT (cone= 54.88, clock=244.07), Record 3 Rims in LPU.</li> <li>5) Slew to Dark (cone=110.00, clock=90.00), Record 3 Rims in LPU. (The first Rim contains the OPCAL data).</li> <li>6) Slew to Safe (cone=153.00, clock= 0.00).</li> </ol>			
Long Map (LM), Gain 4, Grating Start 0, LPU, G2PCT252, G2PCT180, G2OPCAL48			
Galileo Activity Plan Form		06/17/96 12:41:05	rev 6/95



165EL:TT= 0 TMC=1 C= -5.75 XC= -3.00 BS=52/7827 TC= 3  
 A= 182 pD= 2250 SR= 3.000 RA50=350.66 DEC50= -1.80 cone=106.99 clock=265.69  
 117EL:#SB= 1 OR= 0.030 RR= 5.000 BM=F RC= 1 BS=52/7827  
 1:#s= 2 Cs= 9.00 XCs= 0.00 Cr= -9.25 XCr= 6.50 sD= 910 rD= 34

**G2CNGLOBAL01**

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:CEE 96-253/10:23:57.133 +CDS 04:00:0

OBSERVATION:G2CNGLOBAL01

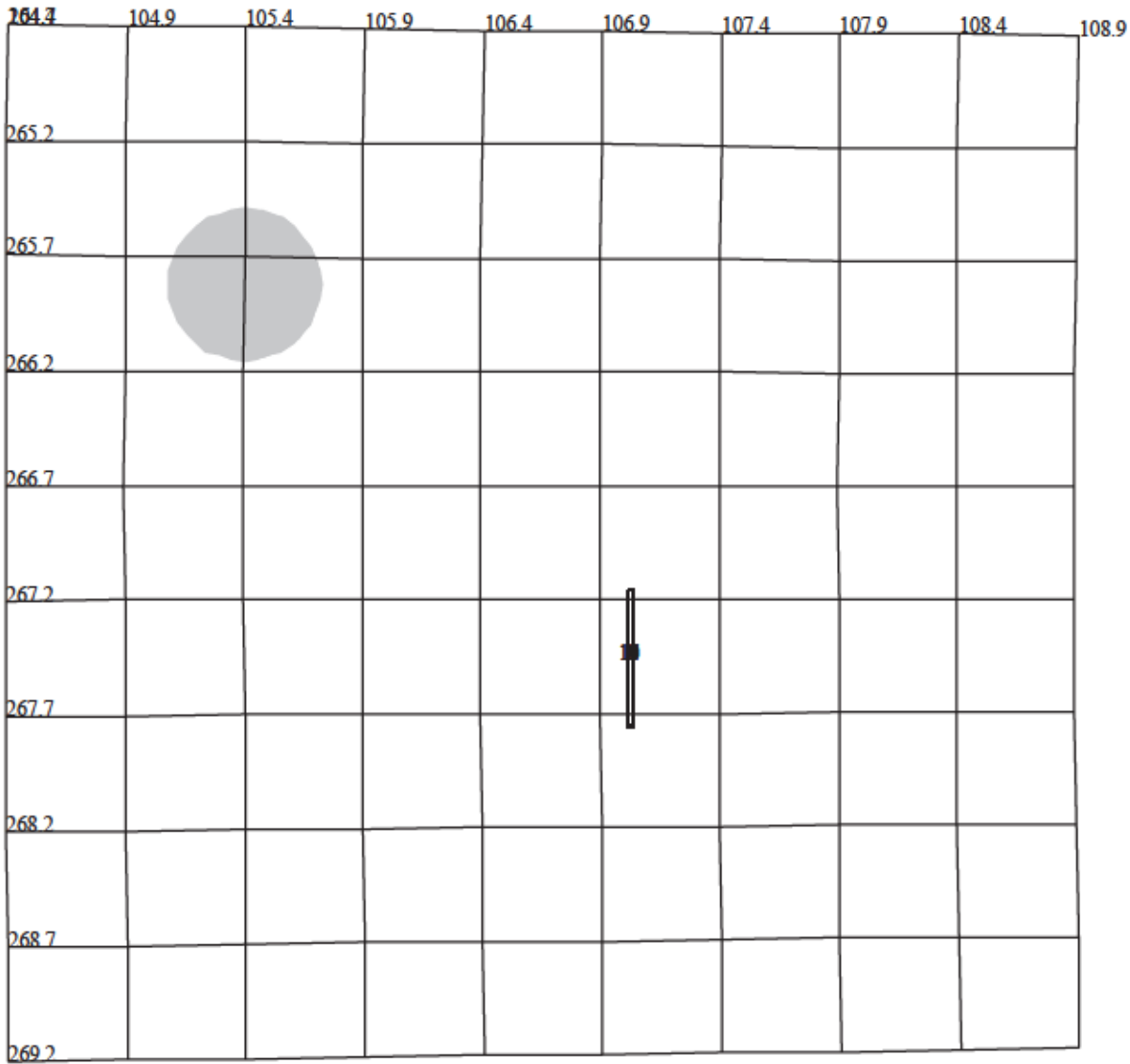
THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 2250 S= 0.600

DESCRIP:G2 Callisto Global Coverage



CALLISTO GLOBAL COVERAGE		ACTIVITY ID: G2CNGLOBAL01-	
		START TIME: 96-253/10:25:58.466	
Activity ID: Orbit G2 Target C Inst N OAPEL GLOBAL SeqNo 01 -			
Title	CALLISTO GLOBAL COVERAGE		Instrument
Requestor	NIMS-SWG/M. SEGURA		NIMS
	Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2B
		Calendar Date	09/09/96
		Week	37
Start	CEE+CDS	2:00:0	96-253/10:25:58.466
End	CEE+CDS	20:00:0	96-253/10:44:10.466
Duration		18:00:0	000/00:18:12.000
			000/00:18:12.000
Top Label	G2CNGLOBAL01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	168	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	DMS
			Yes
			Yes
Observation Objective			
<p>The objective is to obtain the best combined spatial and spectral resolution of Callisto's surface, to investigate the mineralogy and to determine the distribution of compositional units.</p>			
Data Returned			
Design Detail			
<p>Continuous slew, full disk mosaic at Callisto closest approach.  Cover all lit longitudes and latitudes. Observation contains two swaths.  Instrument mode: Long Map  Instrument gain state: 2  Phase angle: 62.8 degrees  Cone angle: 107.74 degrees  Spatial resolution: 211.3 km/nimse1  Spectral resolution: 408 wavelengths  Coverage in nimsels: 18X24 nimsels  Nyquist ~20% overlap</p>			
<p>Long Map (LM), Gain 4, Grating Start 0, MPW, G2CLM442, G2CLM408</p>			
Galileo Activity Plan Form		06/17/96 12:41:06	rev 6/95



16SEM:TT= 0 TMC=1 C= 0.00 XC= 0.00 BS=512377 TC= 2(107 267.5 )  
 A= 718 pD= 0 SR=17.430 RA50=351.40 DEC50= -3.36 cone=107.00 clock=267.50

**G2HNDARK\_\_06**

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2HNDARK\_\_06

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GEE 96-250/19:00:09.333 +CDS 3791:00:0

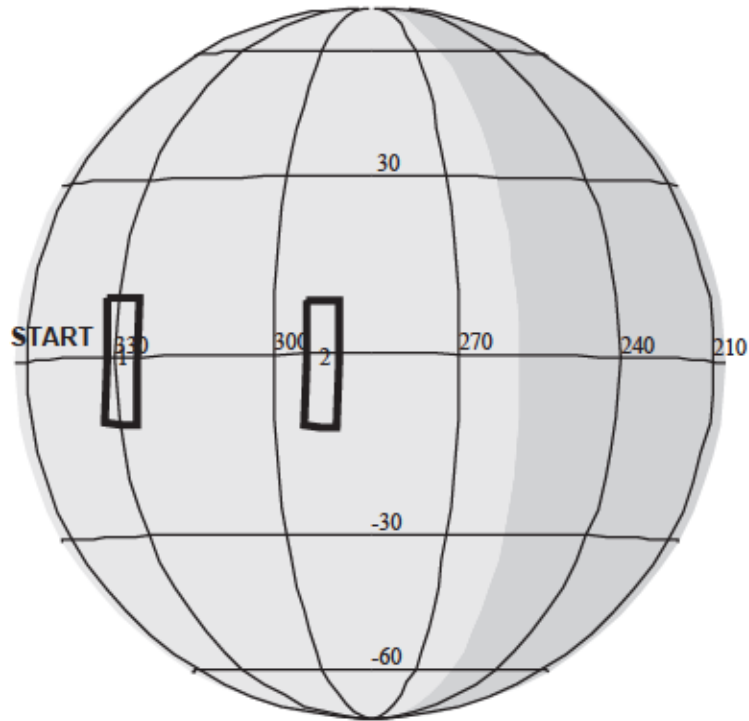
OBSERVATION:G2HNDARK\_\_06

THINNING:NIM 1

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

DESCRIP:DARK SKY 06

DARK SKY		ACTIVITY ID: G2HNDARK 06-	
		START TIME: 96-253/10:49:13.999	
Activity ID: Orbit G2 Target H Inst N OAPEL DARK SeqNo 06 -			
Title	DARK SKY	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG
Time System	CDS	Load ID G2B	Calendar Date 09/09/96 Week 37
Start	GEE+CDS 3787:00:0	96-253/10:49:13.999	GEE+002/15:49:04.666
End	GEE+CDS 3794:00:0	96-253/10:56:18.666	GEE+002/15:56:09.333
Duration	7:00:0	000/00:07:04.667	000/00:07:04.667
Top Label	G2HNDARK 06-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	147	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	Yes
Observation Objective			
Collect Dark Values for calibration purposes.			
Data Returned			
Design Detail			
Slew to dark space and record 1 Rim of dark values.			
Long Map			
Gain State 2			
Long Map (LM), Gain 4, Grating Start 0, LPU, G2DRK34, G2DRK34			
Galileo Activity Plan Form		06/17/96 12:41:06	rev 6/95



## G2CNCALLRT01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2CNCALLRT01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:CEE 96-253/10:23:57.133 +CDS 39:00:0

OBSERVATION:G2CNCALLRT01

165ET:TT= 0 TMC= 1 C= -4.20 XC= 0.00 BS= 0/4197 TC= 3  
 A= 728 pD= 0 SR=17.430 RA50=353.07 DEC50= -0.82 cone=104.40 clock=265.86  
 117ET:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4197  
 1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

THINNING:NIM 7

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:G2CNCALLRT01

CNCALLRT01	ACTIVITY ID:	G2CNCALLRT01-	START TIME:	96-253/10:59:20.466
Activity ID: Orbit G2 Target C Inst N OAPEL CALLRT SeqNo 01 -				
Title	CNCALLRT01	Instrument	NIMS	
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2B	Calendar Date 09/09/96 Week 37
Start	CEE+CDS 35:00:0	96-253/10:59:20.466	CEE+000/00:35:23.333	
End	CEE+CDS 41:00:0	96-253/11:05:24.466	CEE+000/00:41:27.333	
Duration	6:00:0	000/00:06:04.000	000/00:06:04.000	
Top Label	G2CNCALLRT 01-			
Bottom Label				
Plot Key	NIMS	Type	SCI	
CDS Bytes	174	Report Options	BOTH	
CDS Source	PA	Spin State	DUAL	Scan Platform DMS Yes No
Observation Objective				
<p>Real time observation to obtain spectra of Callisto's trailing side in full NIMS spectral resolution. This observation is the first 408 wavelength observation of Callisto in the Jupiter tour. While the observation will give valuable information about surface composition, the data will be used to aid in determining which wavelengths to return during playback.</p>				
Data Returned				
Design Detail				
<p>Target to body center,  Instrument in Long Map mode, Gain State 4,  Mirror Blocked to center mirror positions 8 - 11.  CALM408-ETB.  Observation planned for 5 rims, but RT select to be based on modelling results  Only the first 12 mf per Rims is returned.  CSMOS at slowest scan rate to construct a real time map.</p> <p>Mirror Blocked (1B,1B) (11011,11011)  2 Rims returned (2 grating cycles)</p>				
Long Map (LM), Gain 4, Grating Start 0, R/T, G2CLM442				
Galileo Activity Plan Form			06/17/96 12:41:06	rev 6/95

Turn NIMS chopper off		ACTIVITY ID: G2NNCHOPOF01-	
		START TIME: 96-253/11:06:25.133	
Activity ID: Orbit G2 Target N Inst N OAPEL CHOPOF SeqNo 01 -			
Title	Turn NIMS chopper off		Instrument
Requestor	NIMS-SWG/R. LOPES		NIMS
	Team	NIMS Working Group	SWG
Time System	CDS	Load ID	G2B
		Calendar Date	09/09/96
		Week	37
Start	CEE+CDS	42:00:0	96-253/11:06:25.133
End	CEE+CDS	52:00:0	96-253/11:16:31.799
Duration		10:00:0	000/00:10:06.666
			000/00:10:06.666
Top Label			
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	52	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	No
		DMS	No
Observation Objective			
To preserve the NIMS chopper life.			
Design Detail			
Use a NIMSTAB PA to reset wavelength table with parameters 04,C4,02,00,00 and to issue a 37IOP,0,0 to put NIMS in safe.			
Then:			
Use two NIMS 37IST commands to turn chopper off:			
37IST,0,1,0,0,OFF,0,0,0 (Change Chopper Ref to 63Hz)			
37IST,0,1,1,0,OFF,0,0,0 (CHANGE CHOPPER 63HZ TO OFF).			
Also, use a NIMS 37MB command to reset the mirror positions:			
37MB,0,0,0,0,0,0,0 (00000,00000)			
Galileo Activity Plan Form		06/17/96	12:41:06 rev 6/95

NIMS SHD FLSH OFF FOR PCT CAL		ACTIVITY ID: G2NNSHDOFF01-	
		START TIME: 96-254/13:35:00.334	
Activity ID: Orbit G2 Target N Inst N OAPEL SHDOFF SeqNo 01 -			
Title	NIMS SHD FLSH OFF FOR PCT CAL		Instrument
Requestor	NIMS-SWG/R. LOPES		NIMS
	Team	NIMS	Working Group
Time System	CDS	Load ID	G2B
		Calendar Date	09/10/96
		Week	37
Start	RTA-CDS	2562:79:0	96-254/13:35:00.334
End	RTA-CDS	22:00:0	96-256/08:24:06.334
Duration		2540:79:0	001/18:49:06.000
			001/18:49:06.000
Top Label	G2NNSHDOFF01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	50	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	No
		DMS	No
<b>Observation Objective</b>			
To turn off NIMS shield flash heater at least 48 hours before the RCT calibration.			
<b>Design Detail</b>			
Need comment PA in OPALE to be expanded in the OAP process.			
Galileo Activity Plan Form		06/17/96 12:41:06 rev 6/95	

NIMS RT RCT Calibration		ACTIVITY ID: G2NNRCTRLT01-	
		START TIME: 96-256/08:24:06.334	
Activity ID: Orbit G2 Target N Inst N OAPEL RCTRLT SeqNo 01 -			
Title	NIMS RT RCT Calibration		Instrument
Requestor	NIMS-SWG/R. LOPES		NIMS Working Group SWG
Team	NIMS		
Time System	CDS	Load ID	G2B
		Calendar Date	09/12/96
		Week	37
Start	RTA-CDS	22:00:0	96-256/08:24:06.334
End	RTA+CDS	765:00:0	96-256/21:39:51.000
Duration		787:00:0	000/13:15:44.666
			000/13:15:44.666
Top Label	G2NNRCTRLT01-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	499	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	DMS
			Yes
			No
Observation Objective			
<p>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. This calibration will take place after the OTM.</p>			
Data Returned			
Design Detail			
<p>This is a Library Sequence.  The Dark cone angle must be selected using Pointer.</p> <ol style="list-style-type: none"> <li>1) Turn on RCT Heaters for 12 hours.</li> <li>2) Set Engineering Variable Map to return NIMS Temps more frequently.</li> <li>3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference, Mirror Blocking (11011,11011), ETB=RCT252.</li> <li>4) Pause playback before using scan platform.</li> <li>5) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T</li> <li>6) Slew to RCT (cone= 0.0), return 2 grating cycles (12 mf) in R/T</li> <li>7) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T</li> <li>8) Selw to Safe (cone=153.0)</li> <li>9) Set NIMS to Safe Mode and turn off Chopper.</li> <li>10) Resume Playback after using scan platform.</li> </ol>			
Long Map (LM), Gain 1, Grating Start 0, R/T, G2RCT252			
Galileo Activity Plan Form		06/17/96 12:41:06	rev 6/95



NIMS SHD FLSH OFF/PCT HTRS ON		ACTIVITY ID: G2NNSHDOFF02-	
		START TIME: 96-286/15:22:24.000	
Activity ID: Orbit G2 Target N Inst N OAPEL SHDOFF SeqNo 02 -			
Title	NIMS SHD FLSH OFF/PCT HTRS ON		Instrument
Requestor	NIMS-SWG/R. LOPES		NIMS
	Team	NIMS	Working Group
Time System	CDS	Load ID	G2C
		Calendar Date	10/12/96
		Week	41
Start	RTB-CDS	2200:00:0	96-286/15:22:24.000
End	RTB-CDS	22:00:0	96-288/04:04:36.000
Duration		2178:00:0	001/12:42:12.000
			001/12:42:12.000
Top Label	G2NNSHDOFF02-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	50	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	No
		DMS	No
Observation Objective			
To turn off NIMS shield flash heater 48 hours before the RCT calibration			
Design Detail			
Need comment PA in OAPEL to be expanded in the OAP process.			
Galileo Activity Plan Form		06/17/96	12:41:06 rev 6/95

NIMS RT RCT Calibration		ACTIVITY ID: G2NNRCTRLT02-	
		START TIME: 96-287/18:05:00.667	
Activity ID: Orbit G2 Target N Inst N OAPEL RCTRLT SeqNo 02 -			
Title	NIMS RT RCT Calibration	Instrument NIMS	
Requestor	NIMS-SWG/R. LOPES	Team NIMS Working Group	SWG
Time System	CDS	Load ID G2C	Calendar Date 10/13/96 Week 41
Start	RTB-CDS 22:00:0	96-287/18:05:00.667	RTB-000/00:22:14.666
End	RTB+CDS 00000765:00:0	96-288/07:20:45.333	RTB+000/12:53:30.000
Duration	00000787:00:0	000/13:15:44.666	000/13:15:44.666
Top Label	G2NNRCTRLT02-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	499	Report Options	BOTH
CDS Source	PA	Spin State	DUAL
		Scan Platform	Yes
		DMS	No
Observation Objective			
<p>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. This calibration will take place after Apojove.</p>			
Design Detail			
<p>This is a Library Sequence.  The Dark cone angle must be selected using Pointer.</p> <ol style="list-style-type: none"> <li>1) Turn on RCT Heaters for 12 hours.</li> <li>2) Set Engineering Variable Map to return NIMS Temps more frequently.</li> <li>3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference, Mirror Blocking (11011,11011), ETB=RCT252.</li> <li>4) Pause playback before using scan platform.</li> <li>5) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T</li> <li>6) Slew to RCT (cone= 0.0), return 2 grating cycles (12 mf) in R/T</li> <li>7) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T</li> <li>8) Selw to Safe (cone=153.0)</li> <li>9) Set NIMS to Safe Mode and turn off Chopper.</li> <li>10) Resume Playback after using scan platform.</li> </ol> <p>Long Map (LM), Gain 1, Grating Start 0, R/T, G2RCT252</p>			
Galileo Activity Plan Form		08/21/96 16:14:20	rev 6/95

OPCAL		ACTIVITY ID: G2NNOPCAL 02-	
		START TIME: 96-300/09:57:23.999	
Activity ID: Orbit G2 Target N Inst N OAPEL OPCAL SeqNo 02 -			
Title	OPCAL	Instrument	
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group
			NIMS SWG
Time System	CDS	Load ID	G2C
		Calendar Date	10/26/96
		Week	43
Start	GEE+CDS 00070672:00:0	96-300/09:57:23.999	GEE+049/14:57:14.666
End	GEE+CDS 00070700:00:0	96-300/10:25:42.666	GEE+049/15:25:33.333
Duration	00000028:00:0	000/00:28:18.667	000/00:28:18.667
Top Label	G2NNOPCAL 02-		
Bottom Label			
Plot Key	NIMS	Type	SCI
CDS Bytes	0	Report Options	BOTH
CDS Source	OAP	Spin State	DUAL
		Scan Platform	DMS
			Yes
			No
Observation Objective			
To perform an Optical Calibration of the NIMS instrument			
Design Detail			
Long Map			
Gain State 4			
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)			
ETB selects Detectors 1 and 2 only.			
NIMS is selected in Real Time for 12 mf.			
Only one Long Map grating cycle is returned.			
Long Map (LM), Gain 4, Grating Start 0, R/T, G2OPCAL48			
Galileo Activity Plan Form		08/21/96 16:14:20	rev 6/95

## Chapter 6 - Edit Tables

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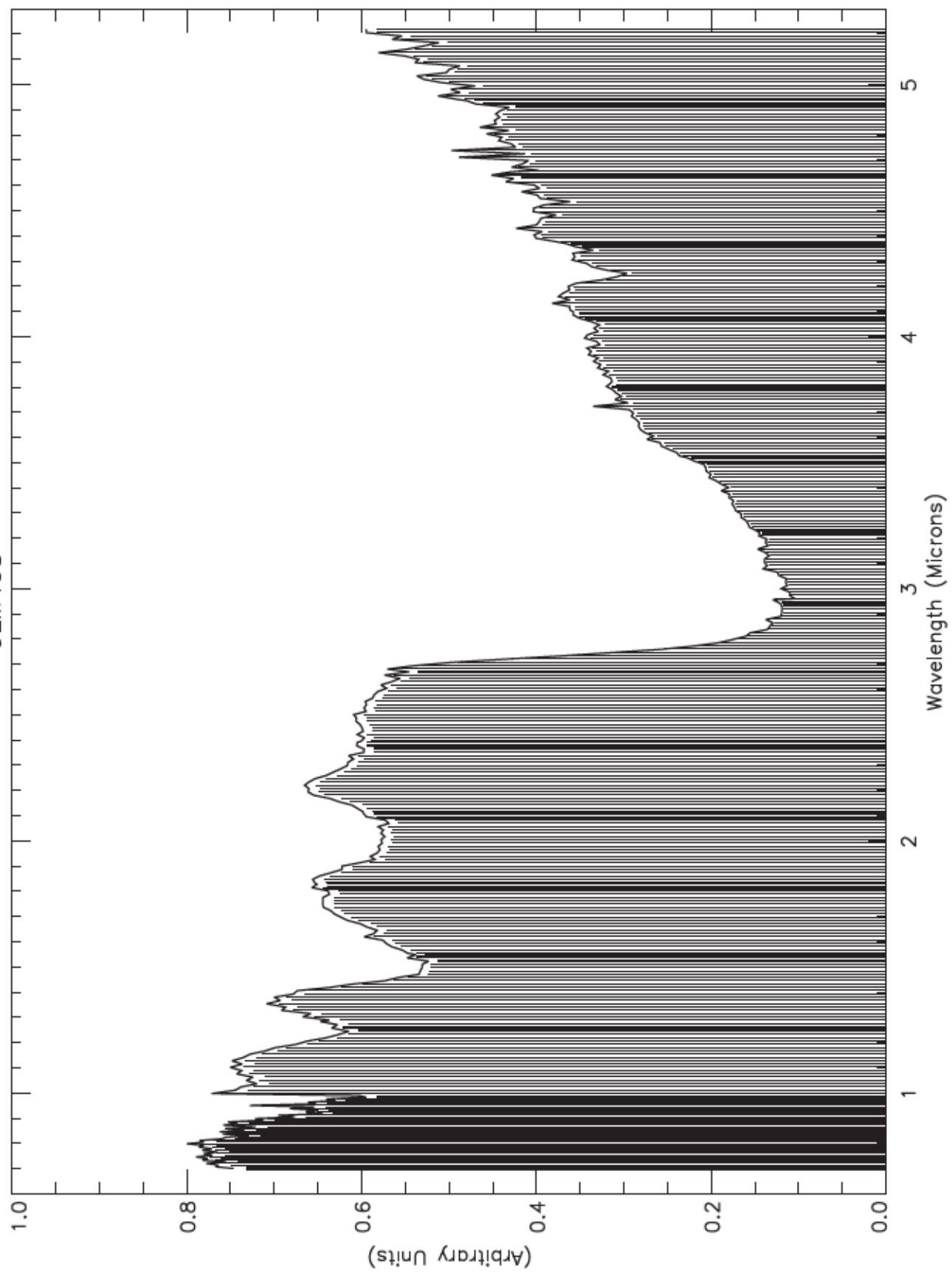
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## Introduction to Chapter 6

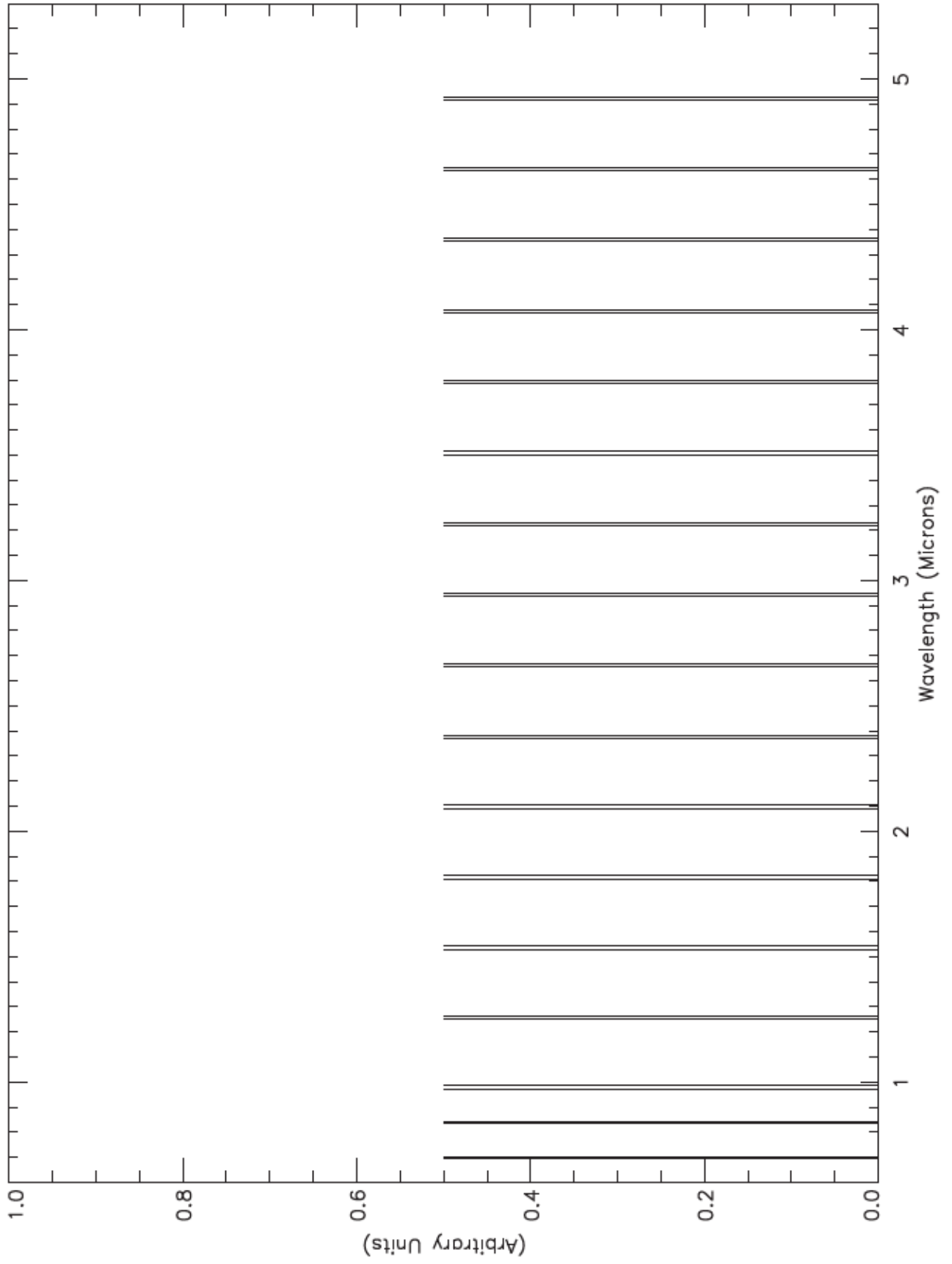
### NIMS Edit Table Plots

This chapter contains plots of the NIMS Edit Tables used in G2. 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.

CLM408

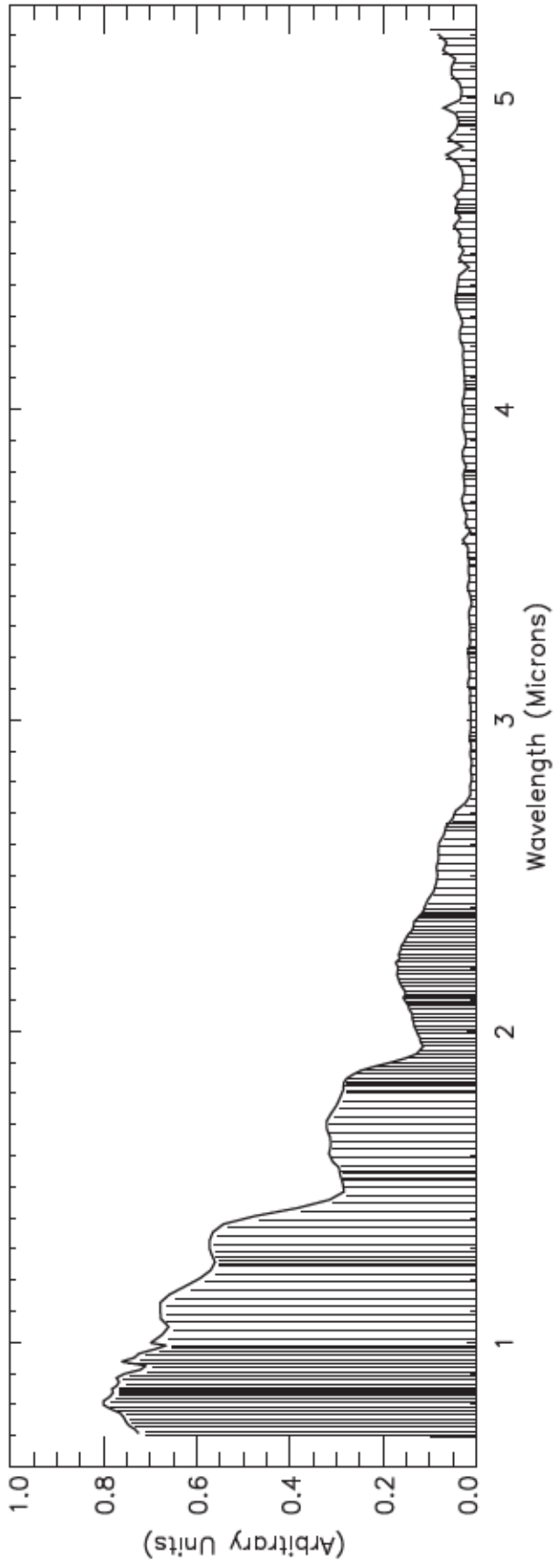


DRK34.ETB

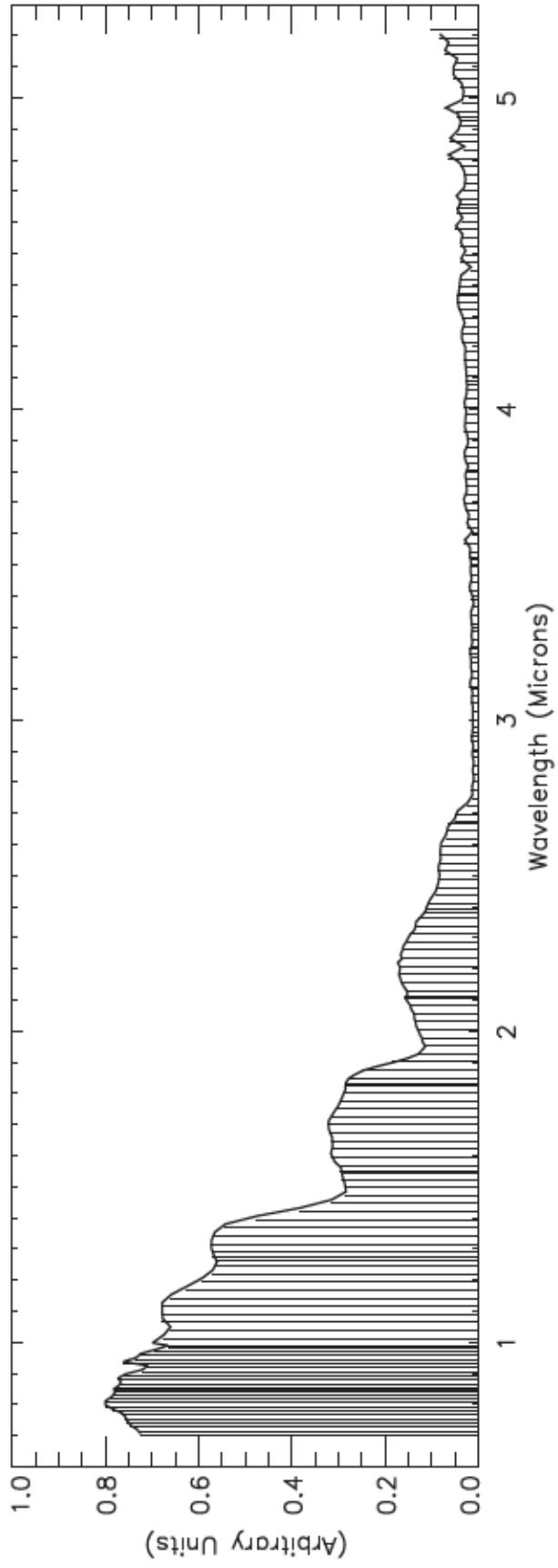




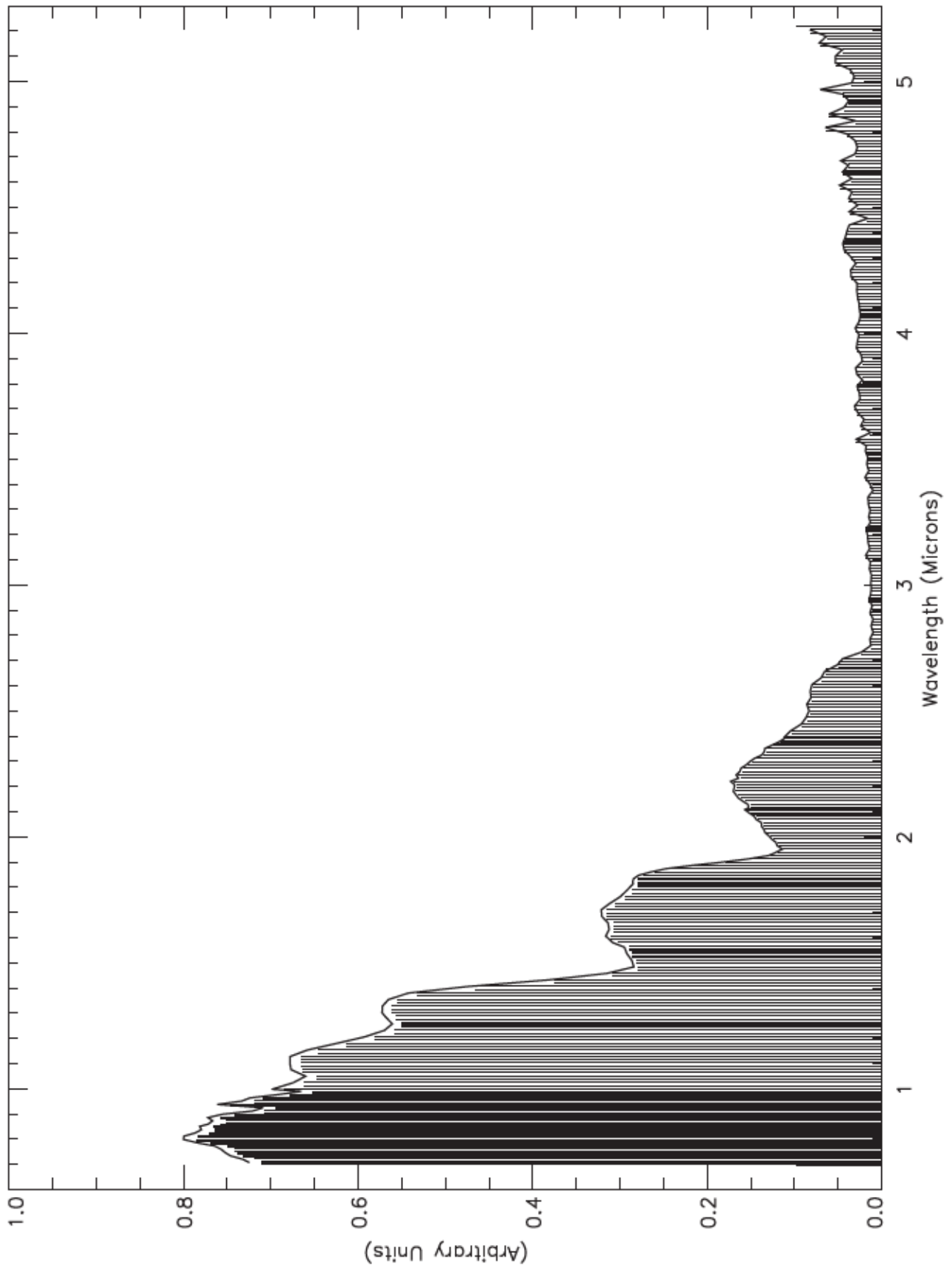
ELM245



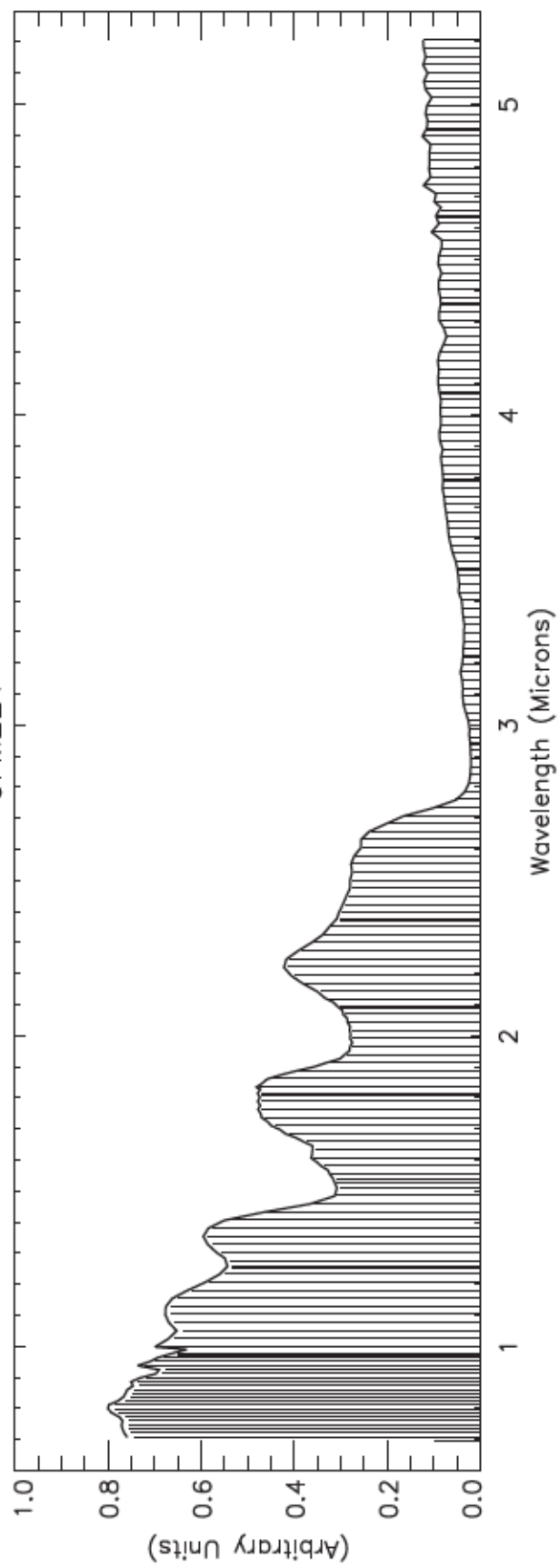
ELM204



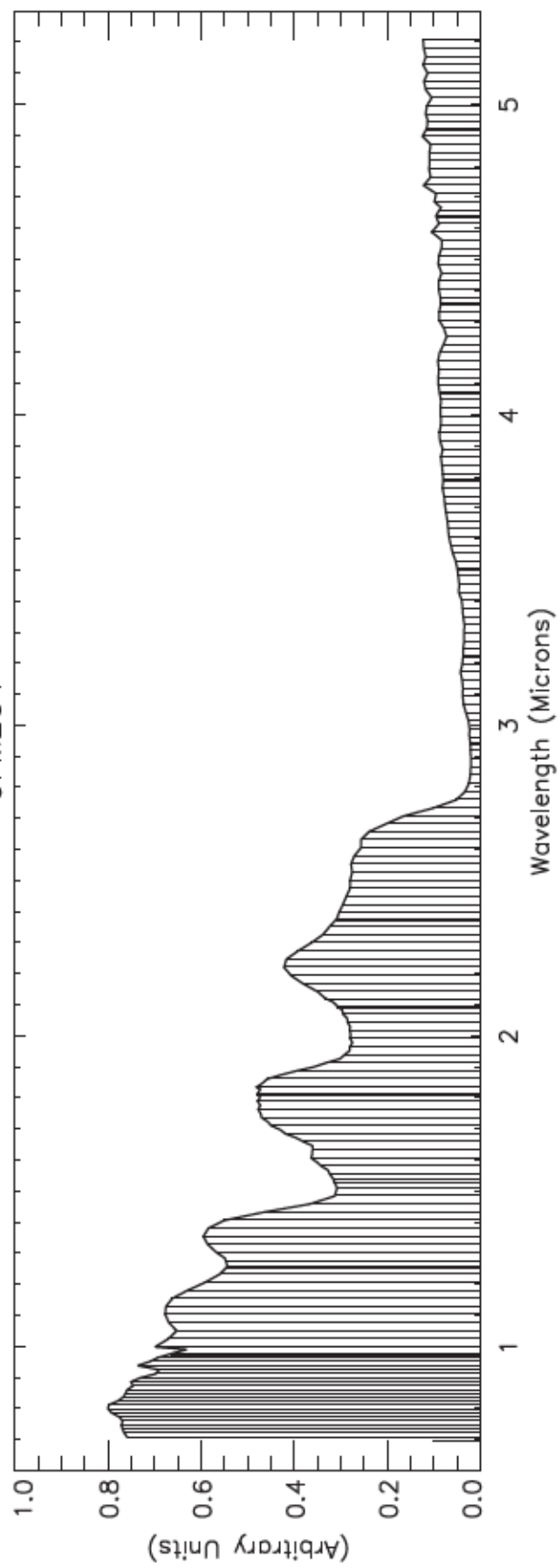
ELM442



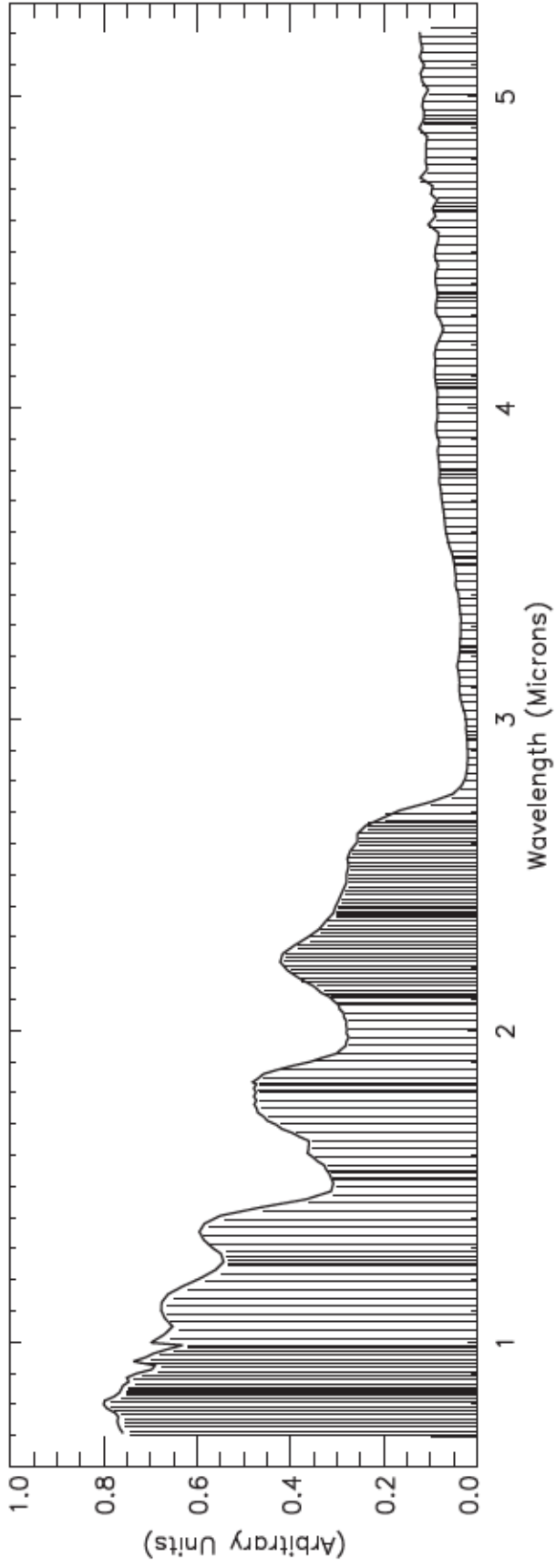
GFM221



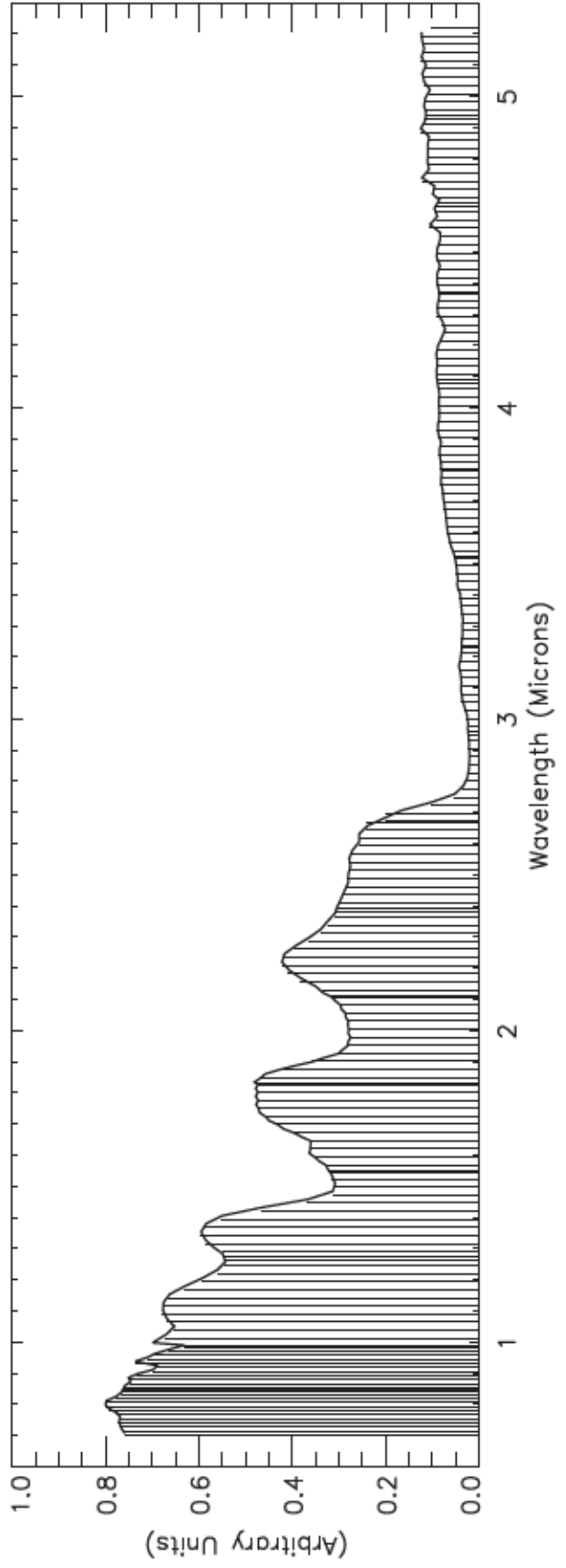
GFM204



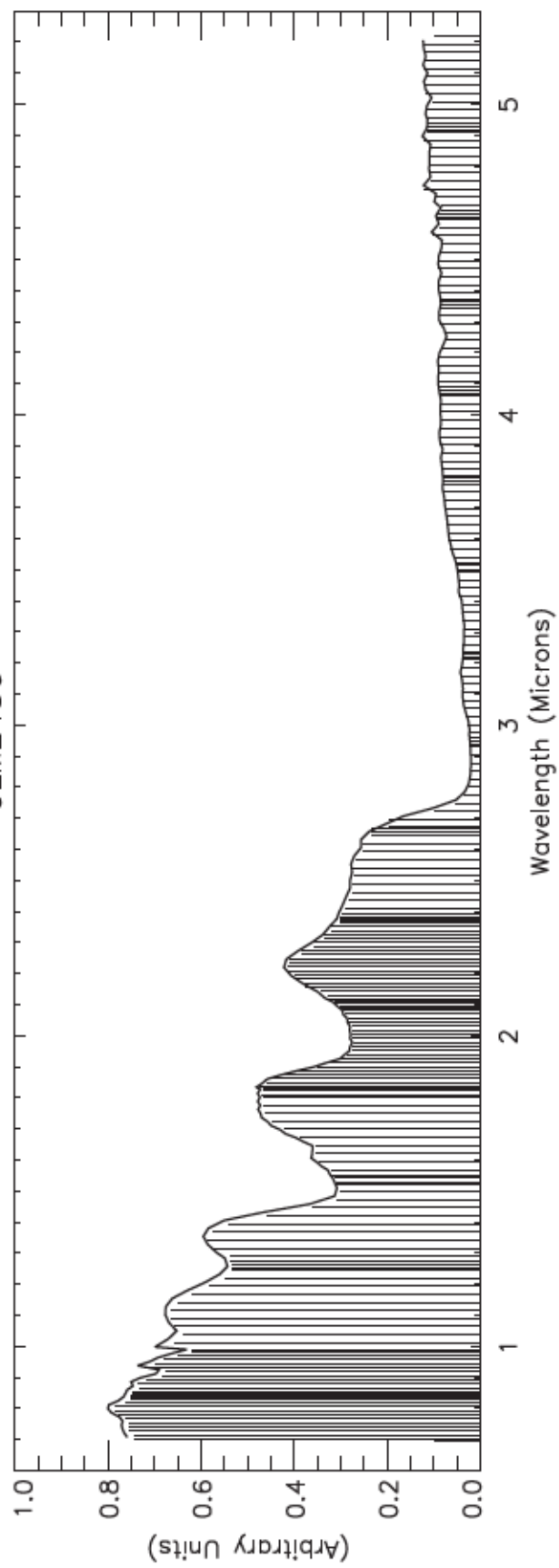
GLM245B



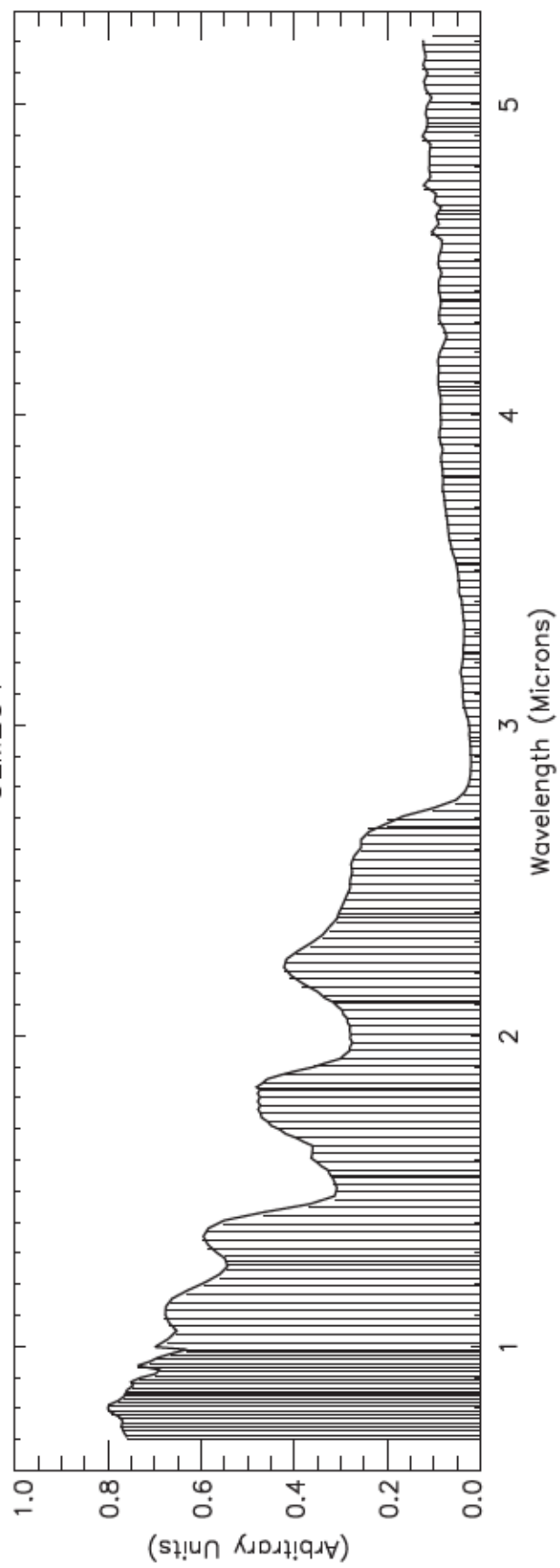
GLM204



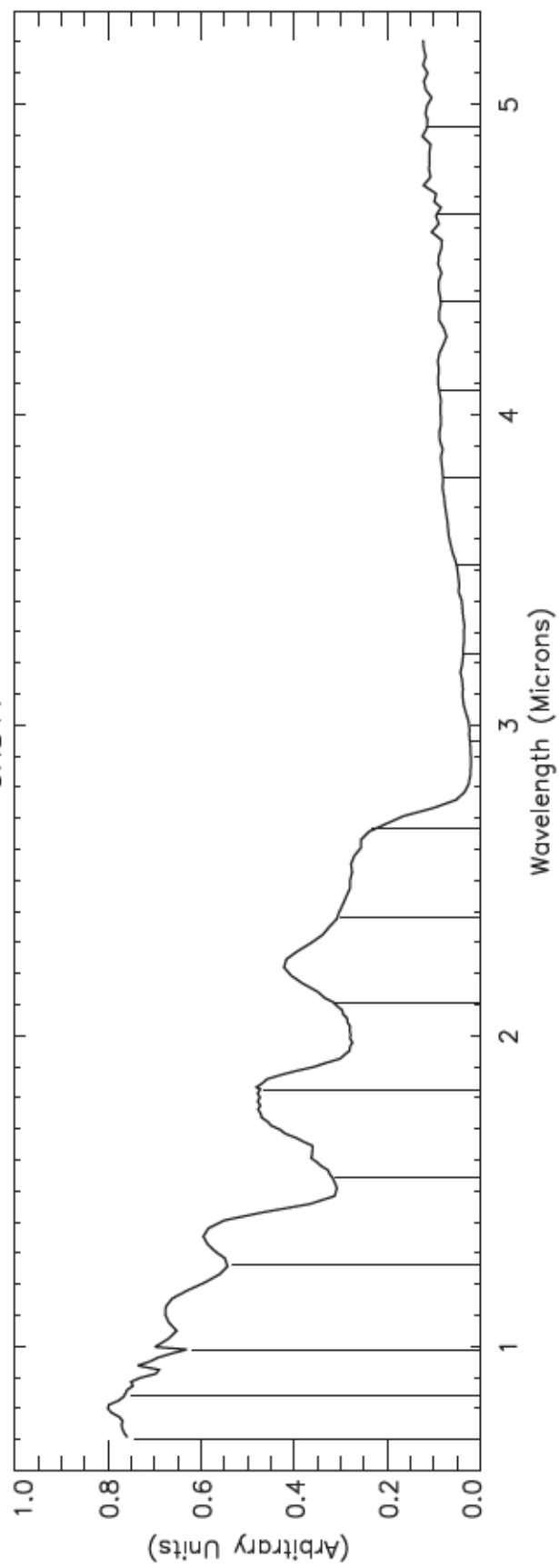
GLM245C



GLM204

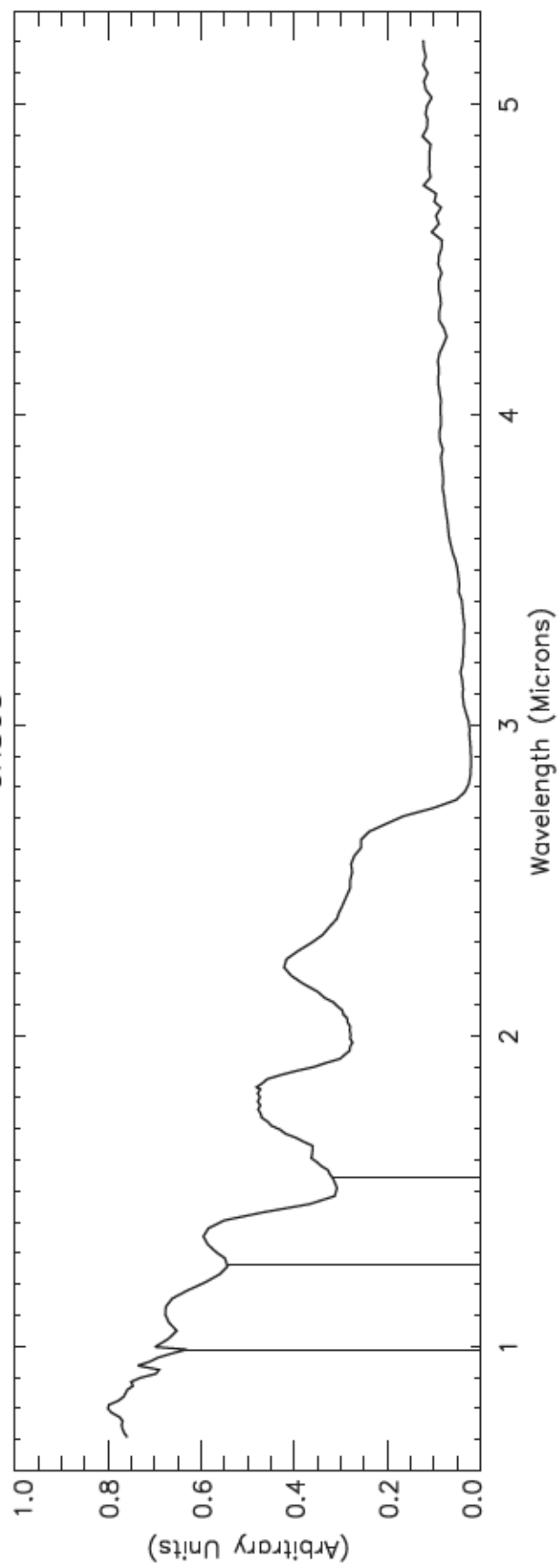


GXS17

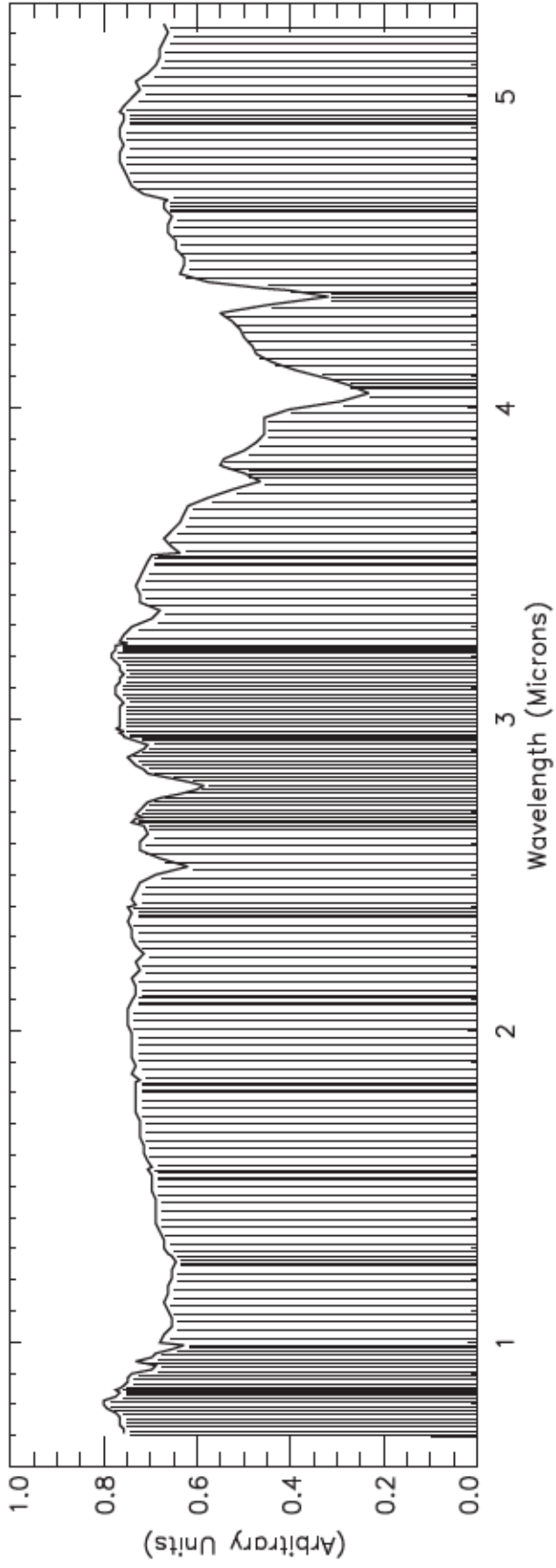


6-11

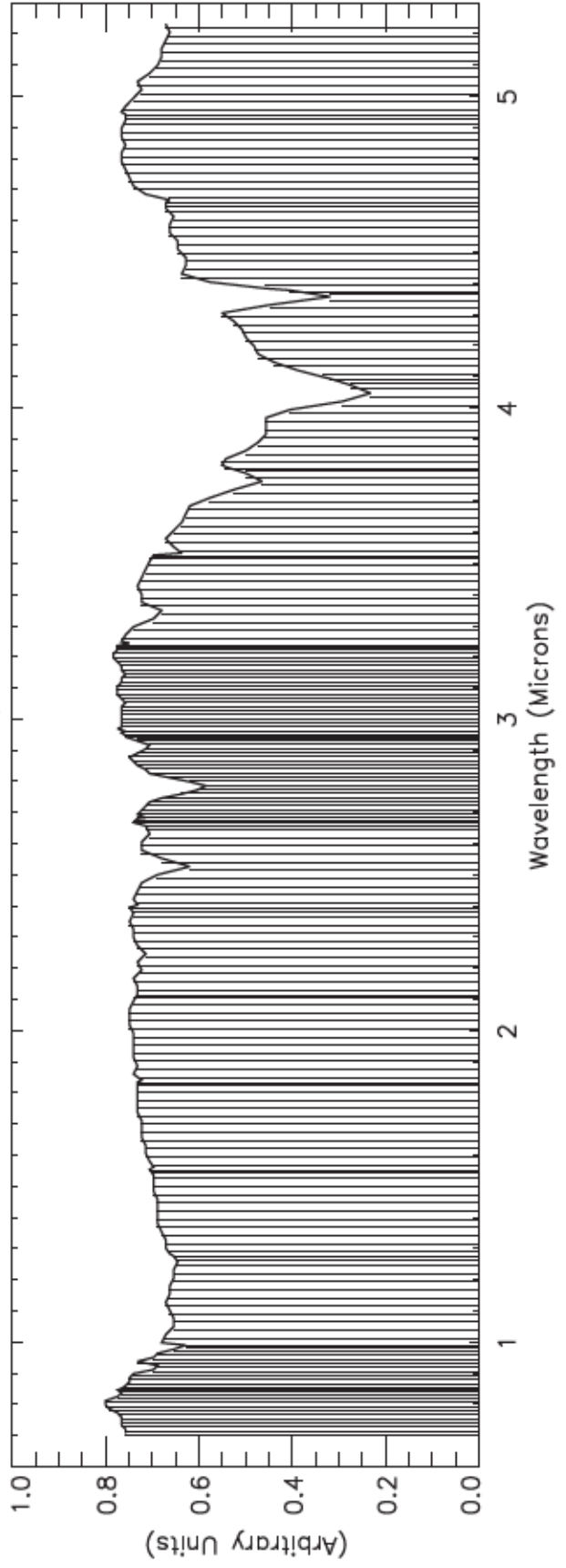
GXS03



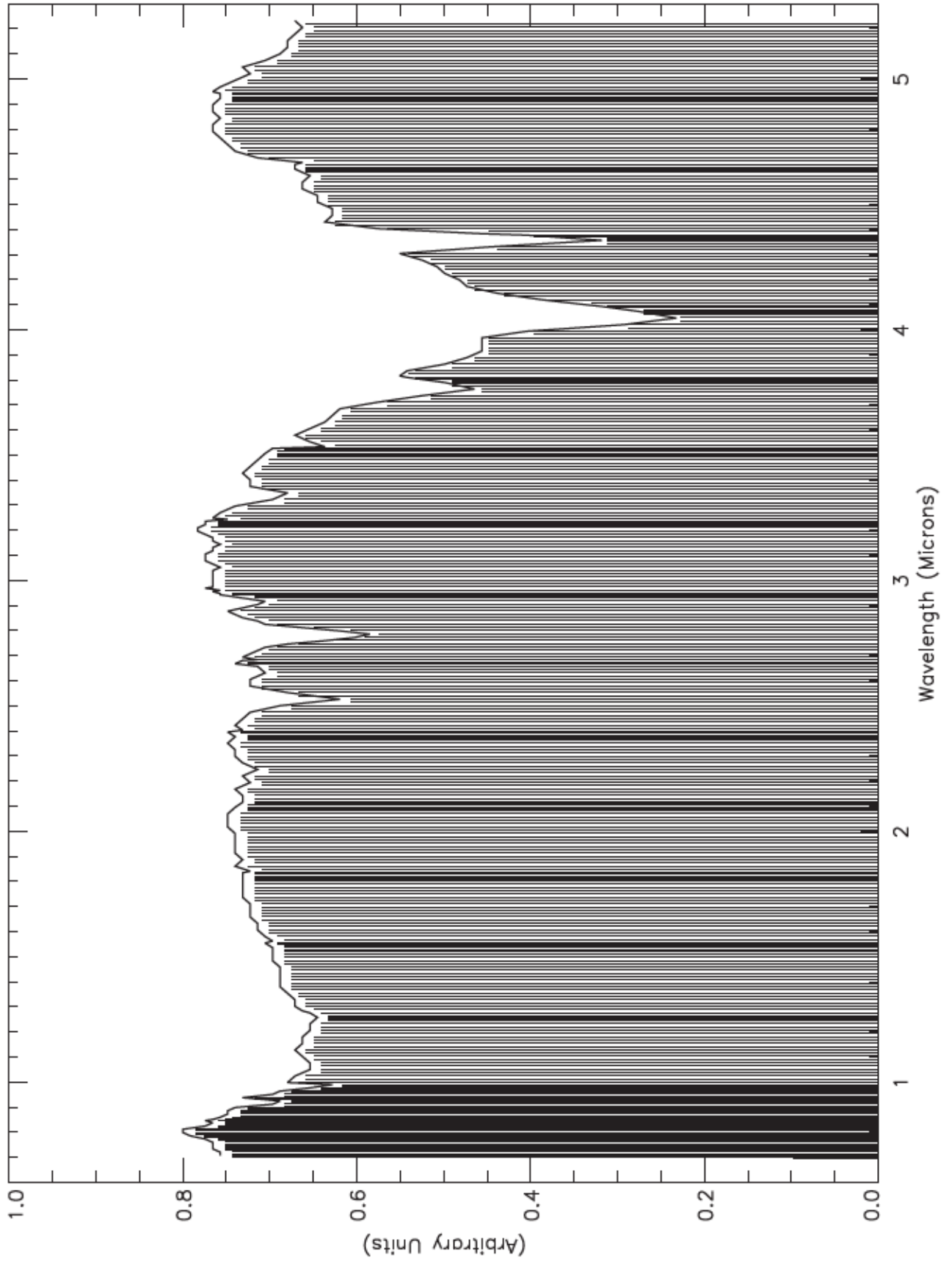
ILM245.ETB



ILM228.PBK

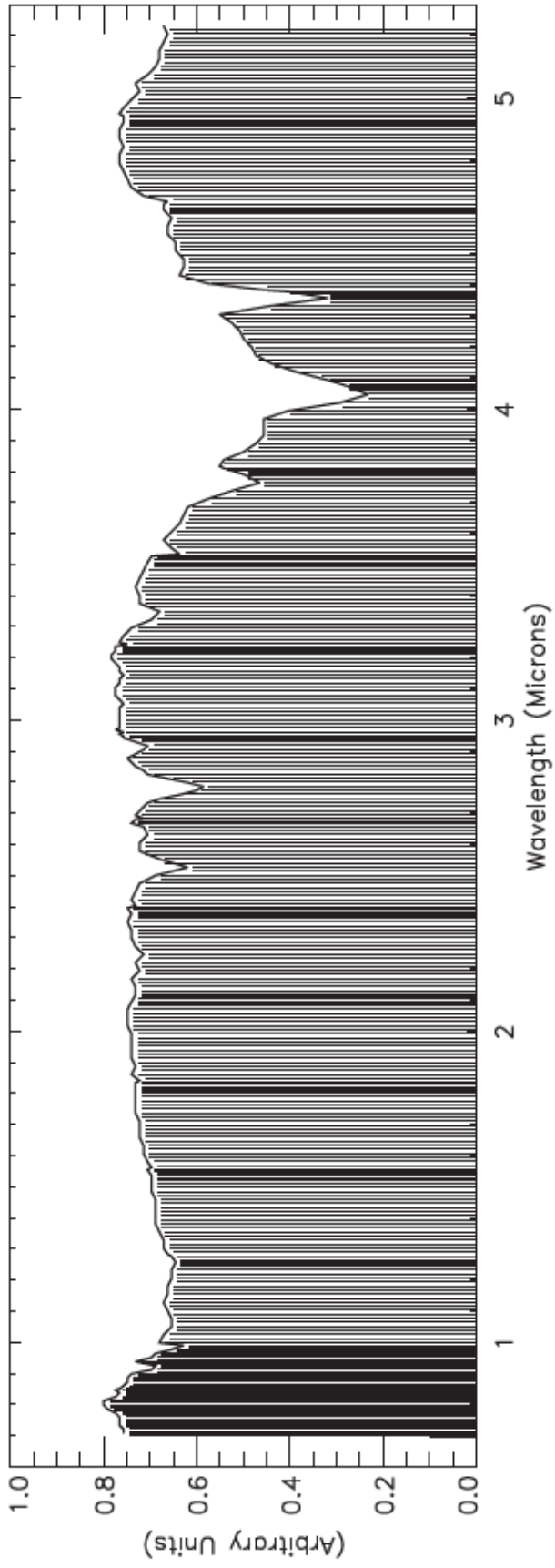


ILM408.PBK

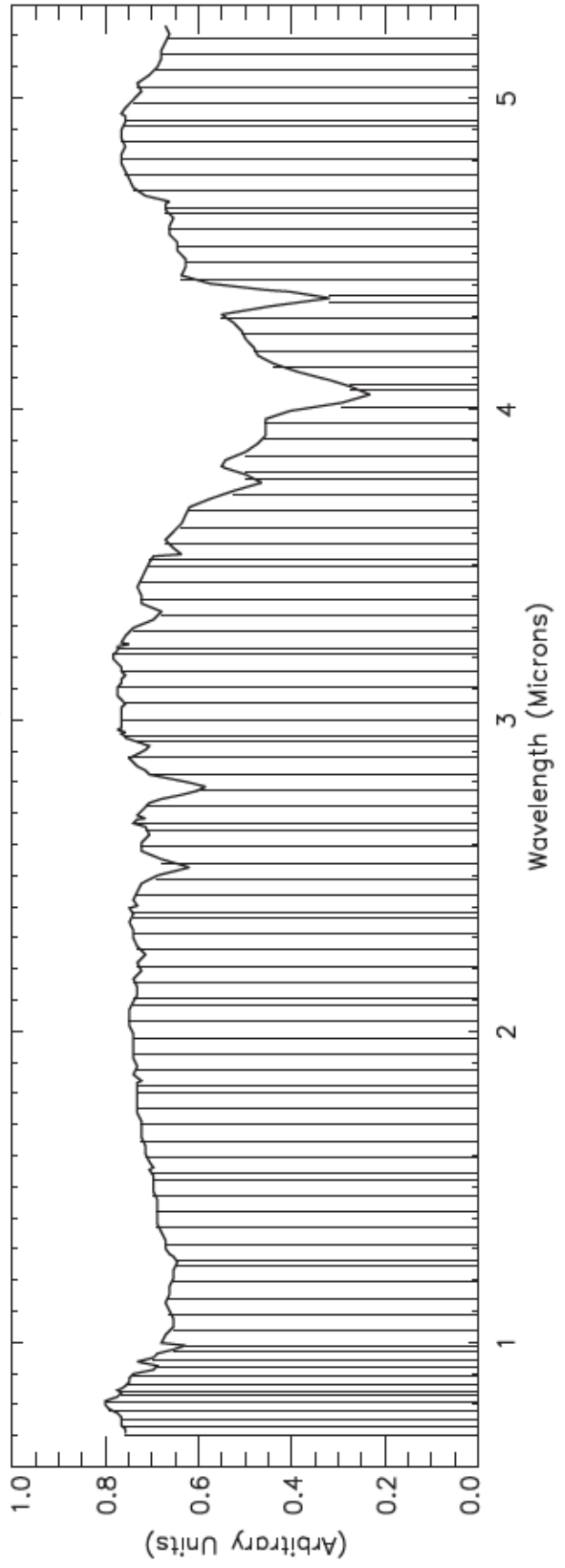




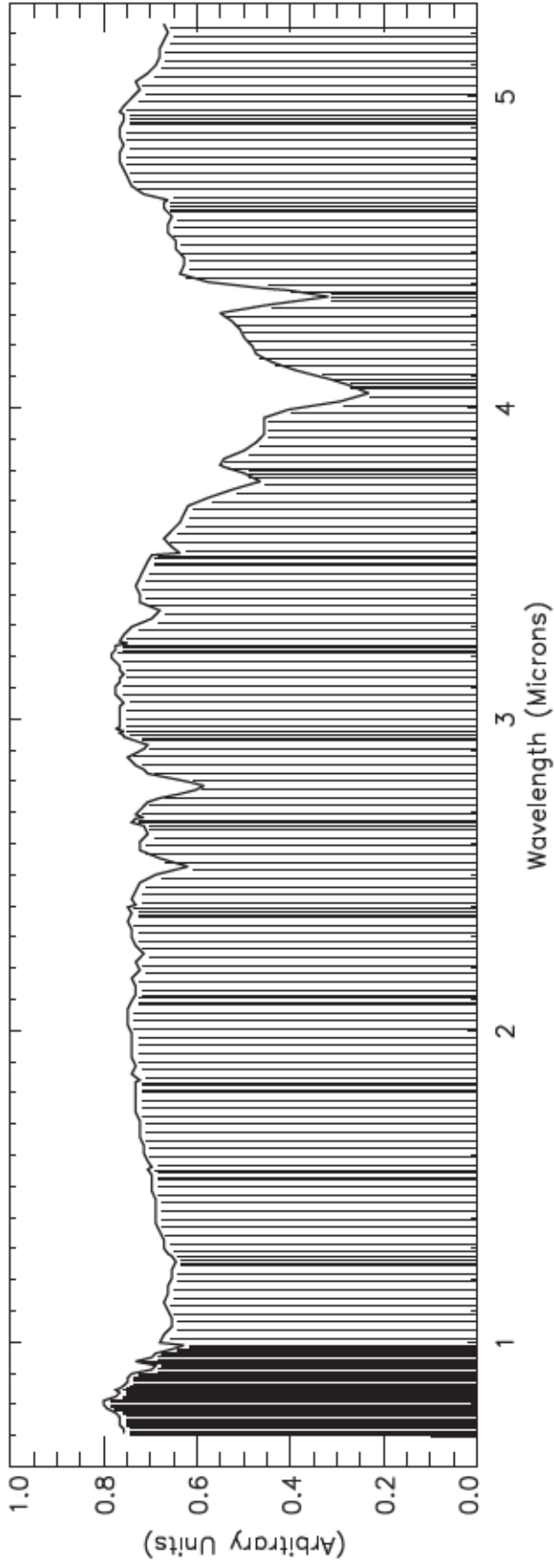
ILM442.ETB



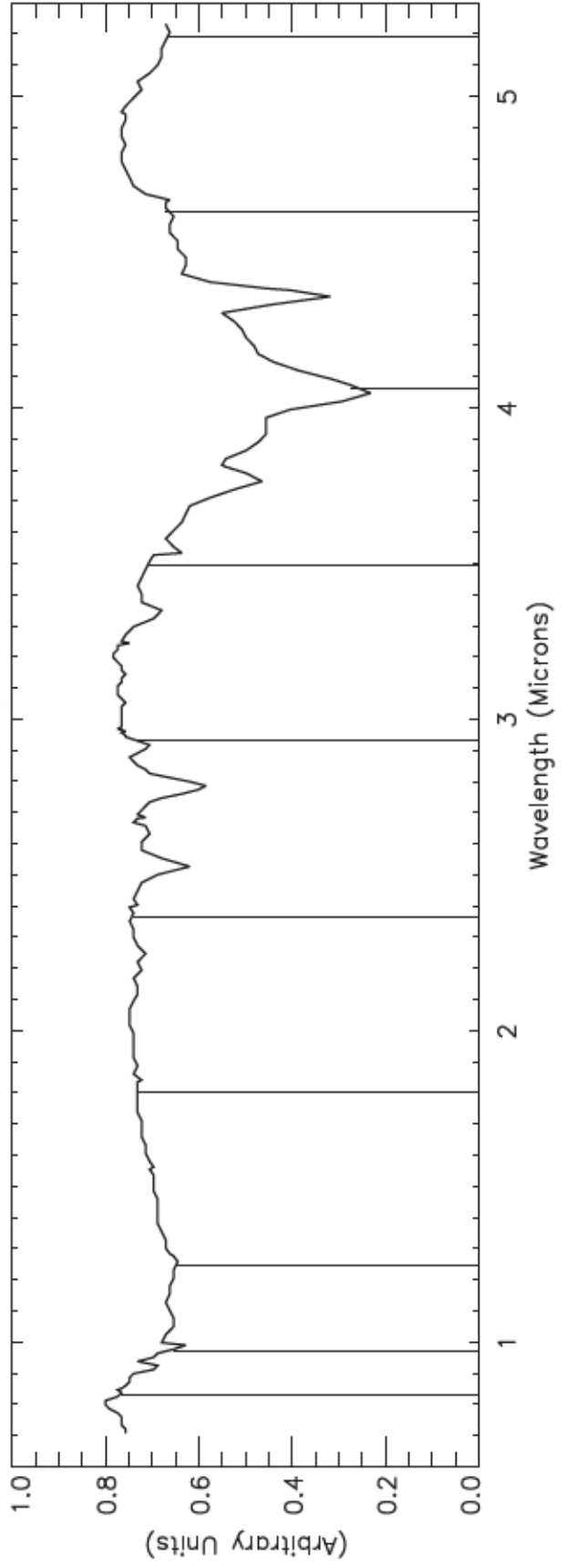
ILM102.PBK

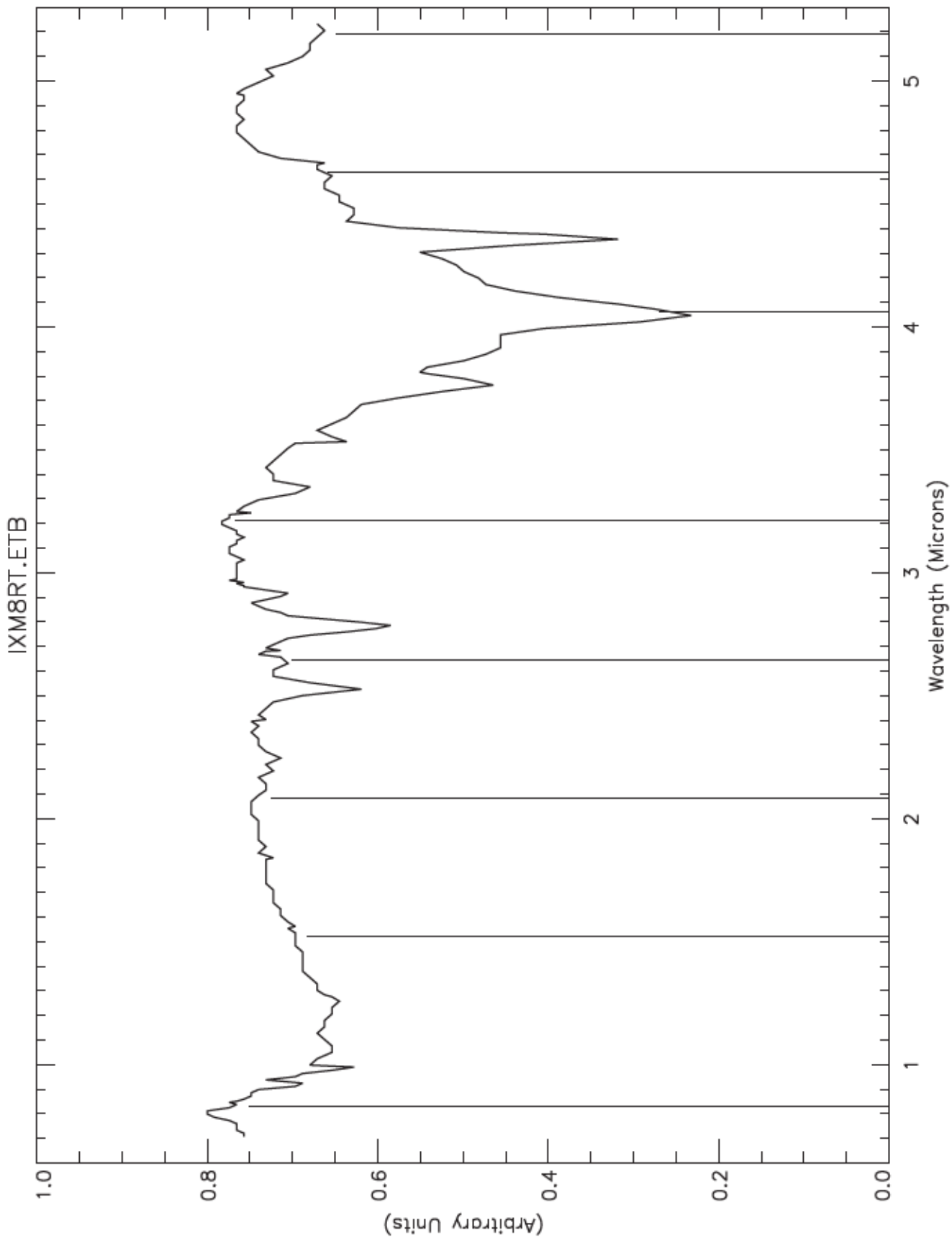


ILMDK245.ETB

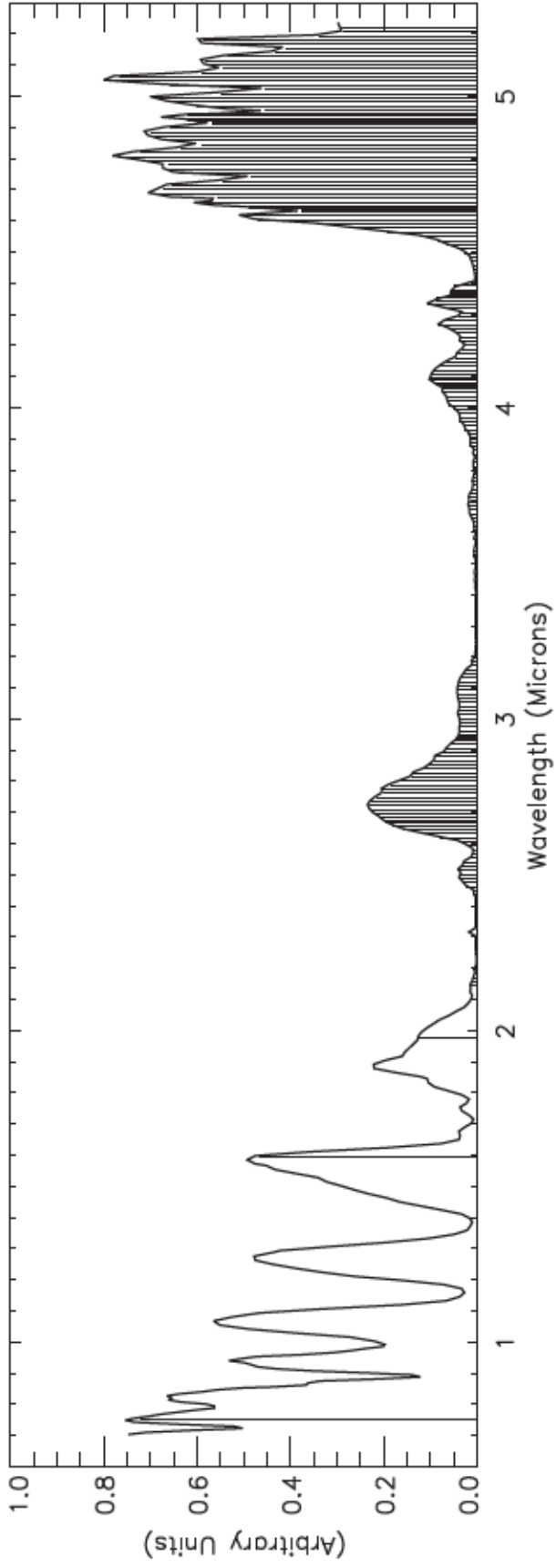


ILMDK10.PBK

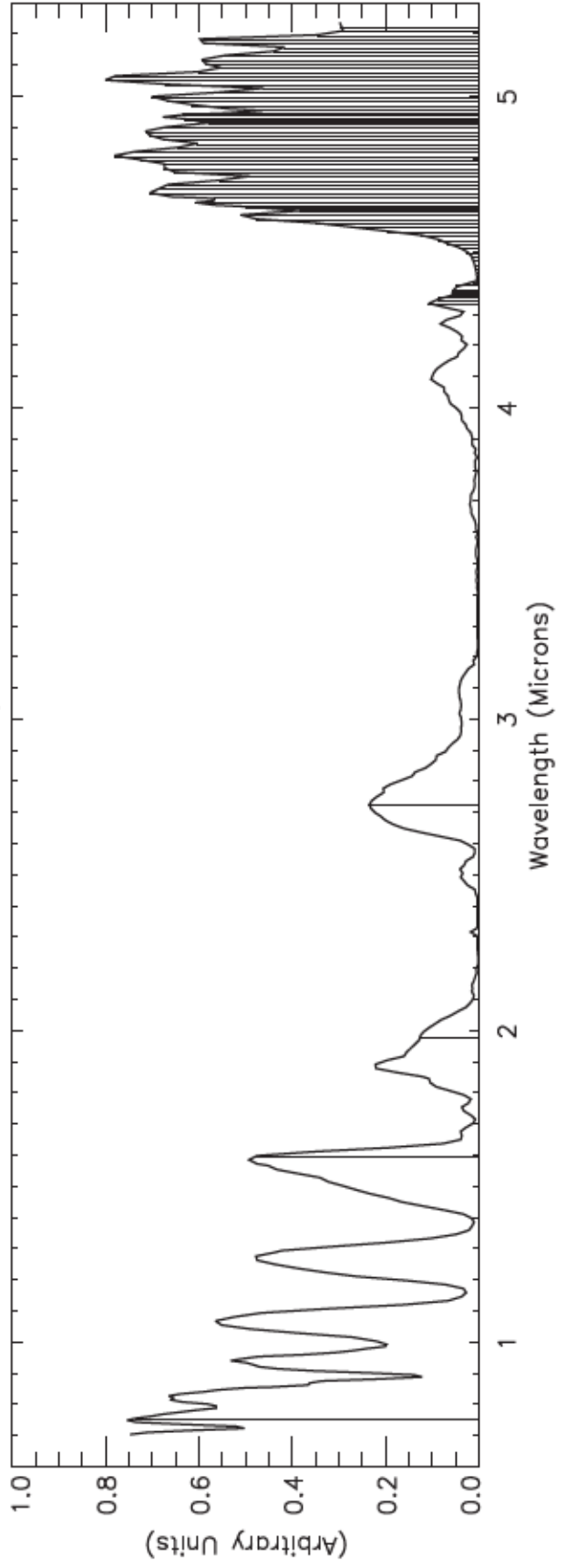




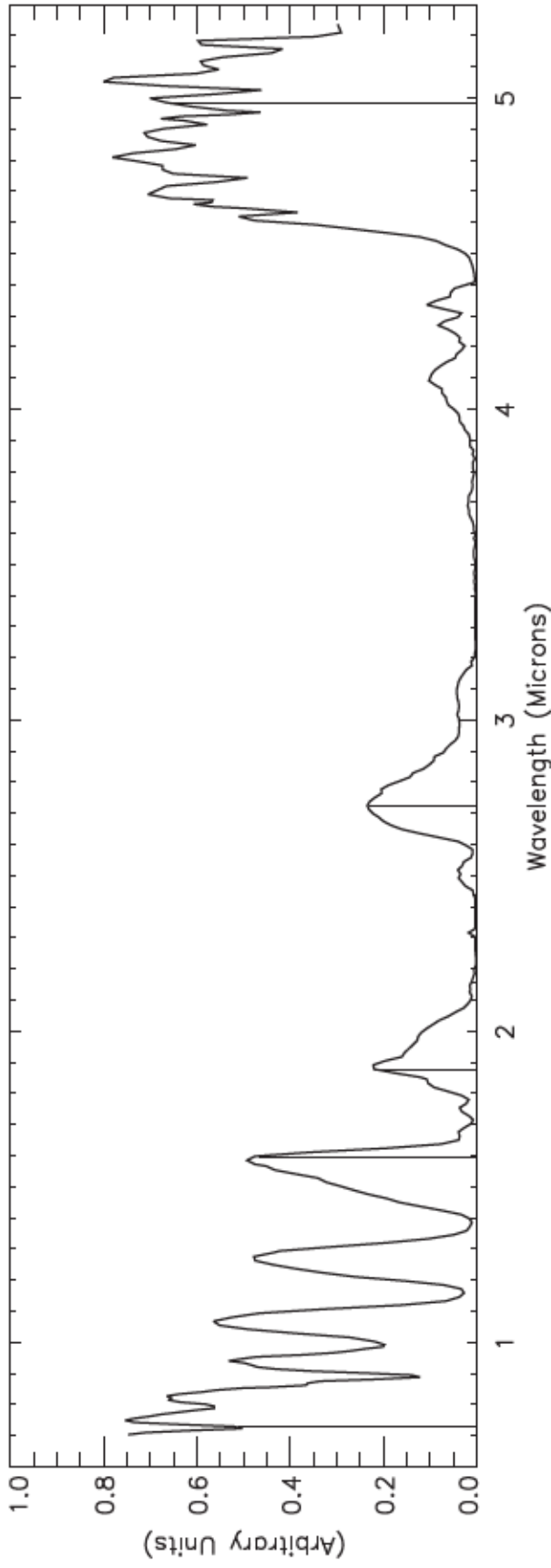
J5M253A.ETB



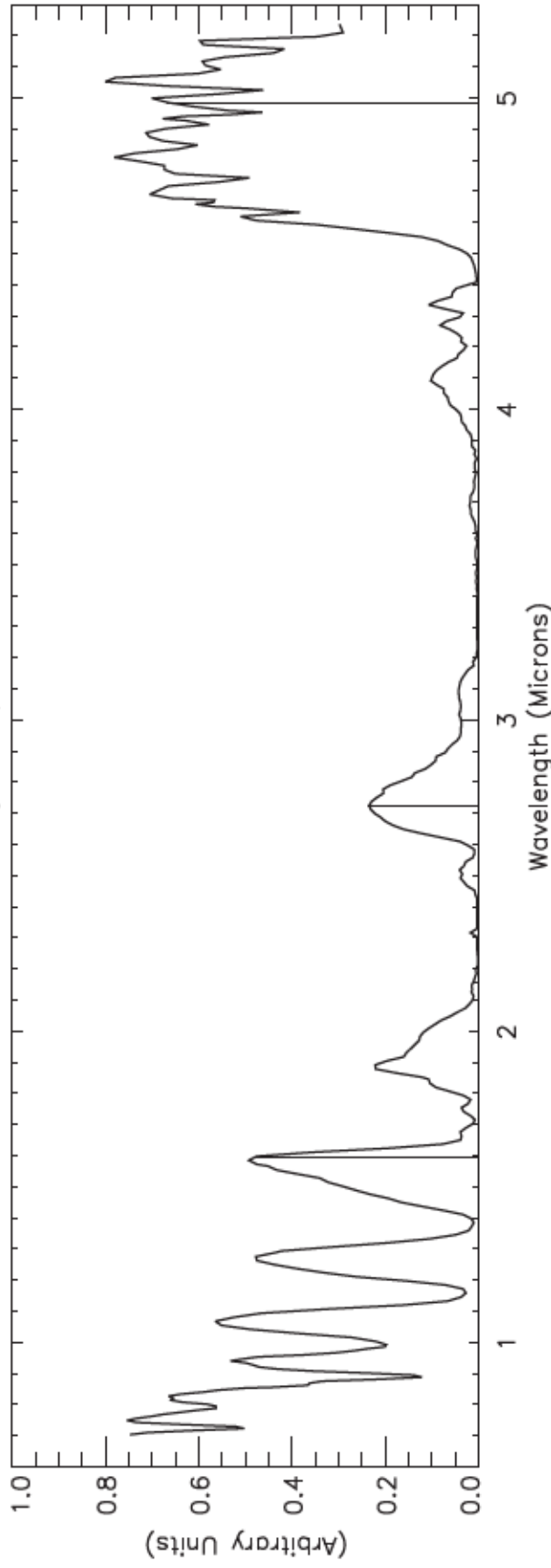
J5M80A.PBK



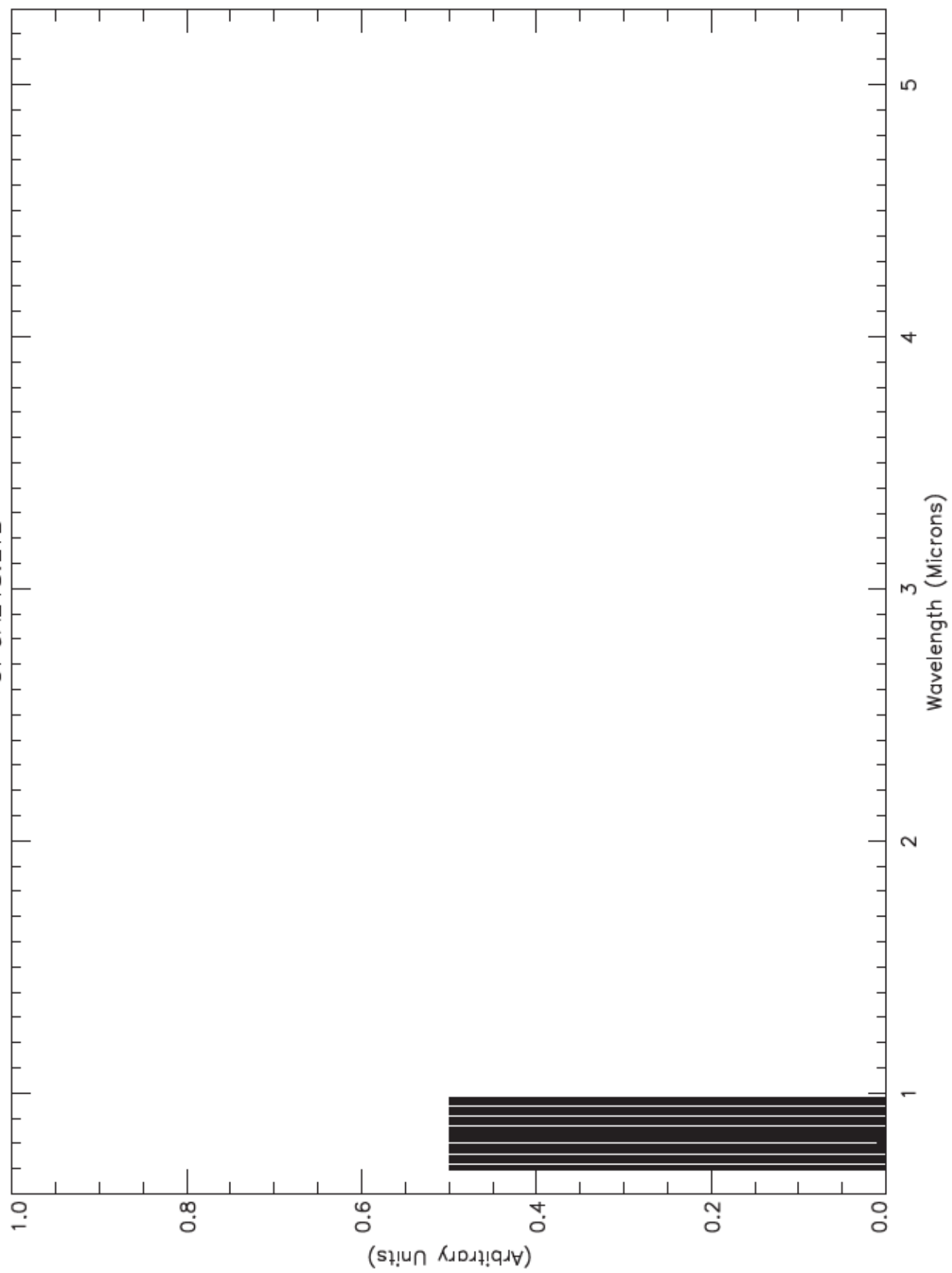
JGM10A.ETB



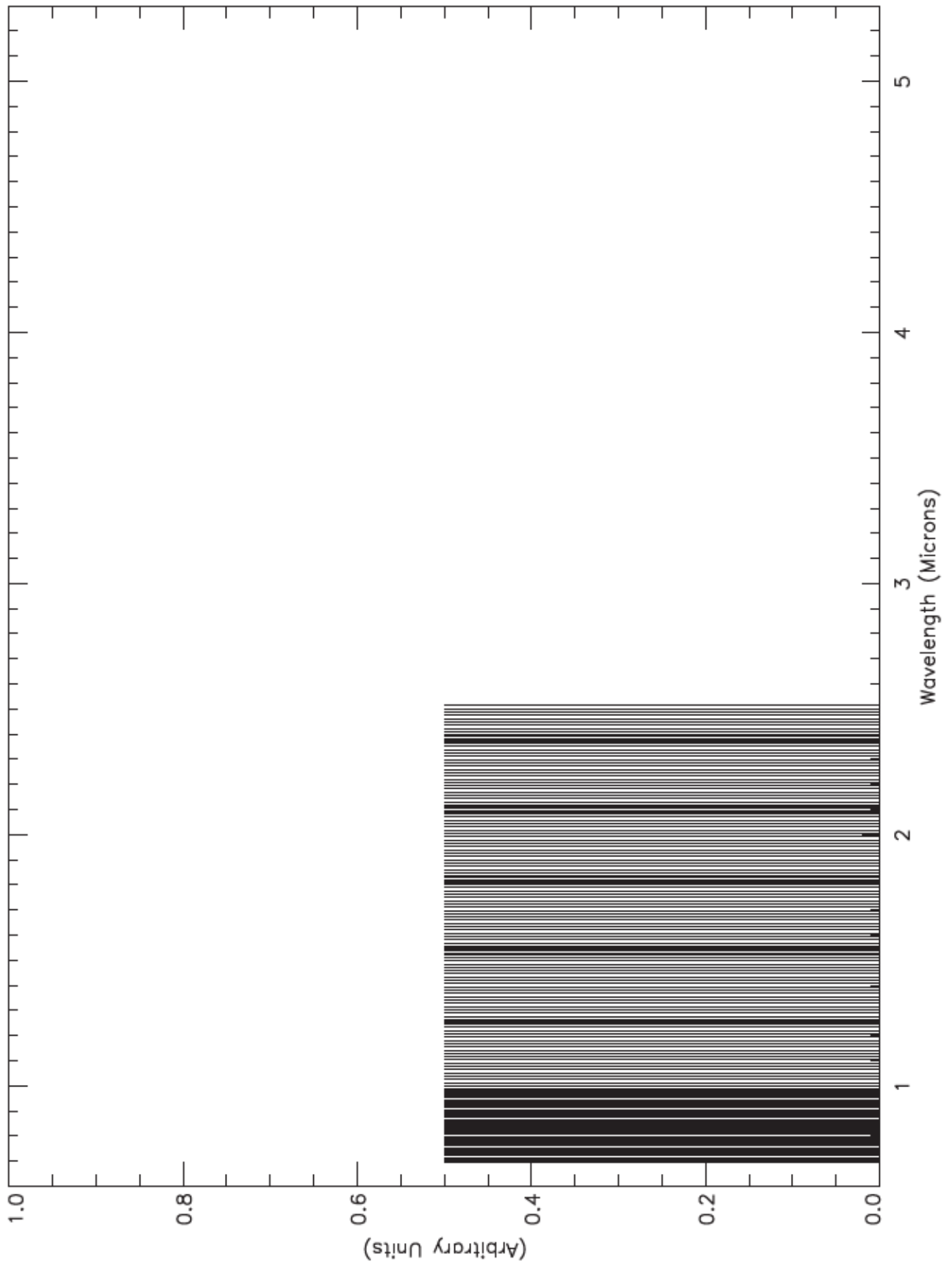
JGM05A.PBK



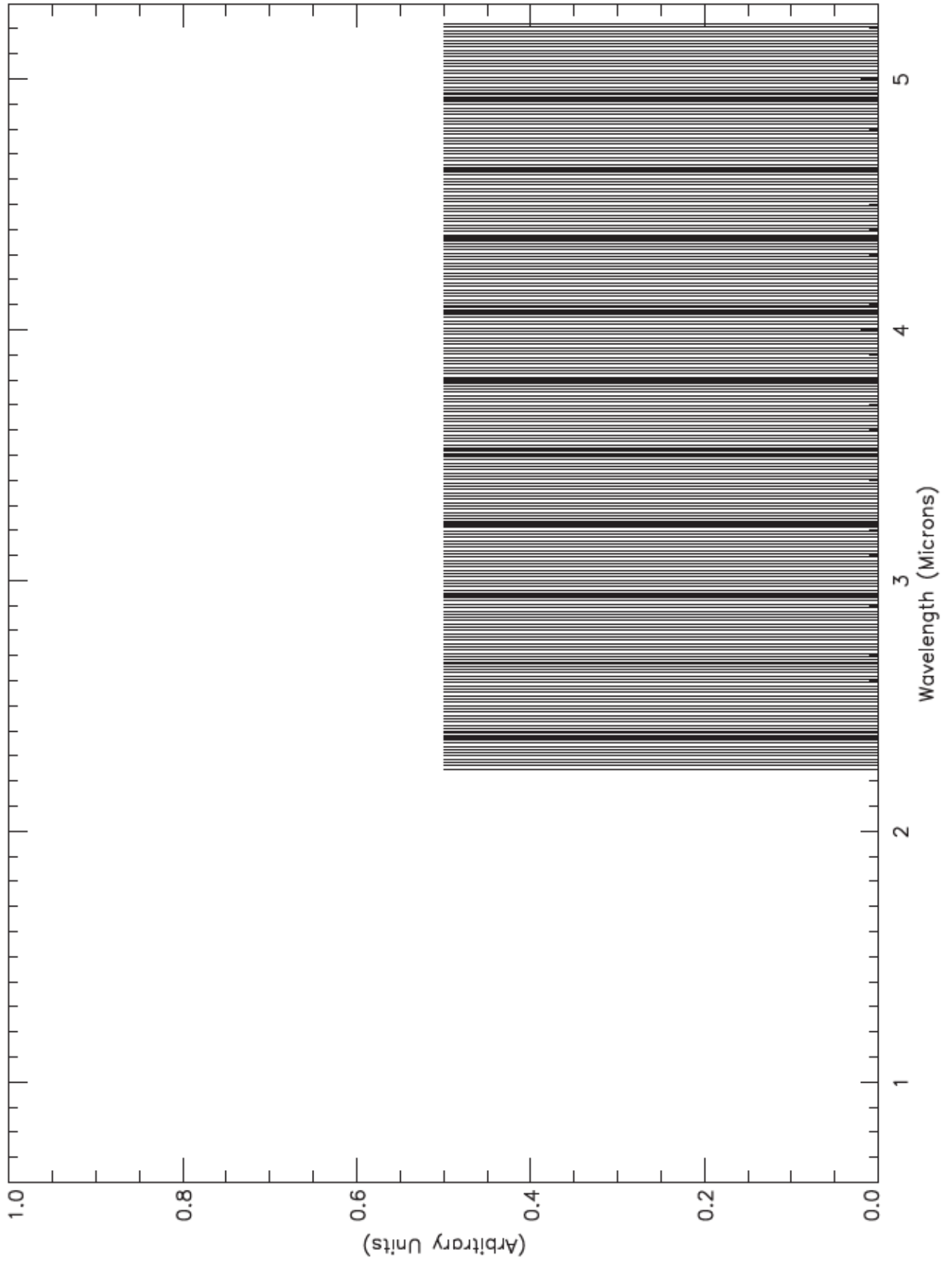
OPCAL48.ETB



PCT180.PBK



RCT252.PBK





## Chapter 7 - Data Return

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## Introduction to Chapter 7

This chapter is a report on the NIMS data return for the G2 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the G2 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 G2 orbit was the first time that NIMS was able to reload its phase2 RAM software from CDS to restart NIMS after the processor had halted due to radiation hits. Three NIMS software reloads were inserted into the G2 command sequence to protect as many observations as possible. The NIMS processor did halt in the middle of the G2 encounter, but fortuitously only two and one half observations were lost, due to a timely reload of the NIMS software. The NIMS software halt was detected by monitoring the SCLK values returned in the NIMS engineering telemetry.

In G2, only two software reloads were originally in the encounter sequence, but it was realized that a third reload was needed close to perijove. This third reload was added at the end of the sequence generation process as an RBS (reserve box sequence). It was this third RBS reload that saved NIMS from losing a large number of post perijove observations (See the orbit plot on page 3 for the timing of the reloads).

The plots on the pages 3 and 4 show the geometry of the NIMS G2 observations using a north trajectory pole projection. The 'returned' observations are in Bold characters and the 'non-returned' in gray.

The spreadsheets on pages 5 to 8 summarize the 'final' playback model for the 'returned' data.

The text on page 9 gives a 'recap' of the G2 playback events which affected which observations were returned.

A Timeline of G2 playback events is on page 10.

The text on pages 11 to 12 describe the G2 NIMS Anomaly.

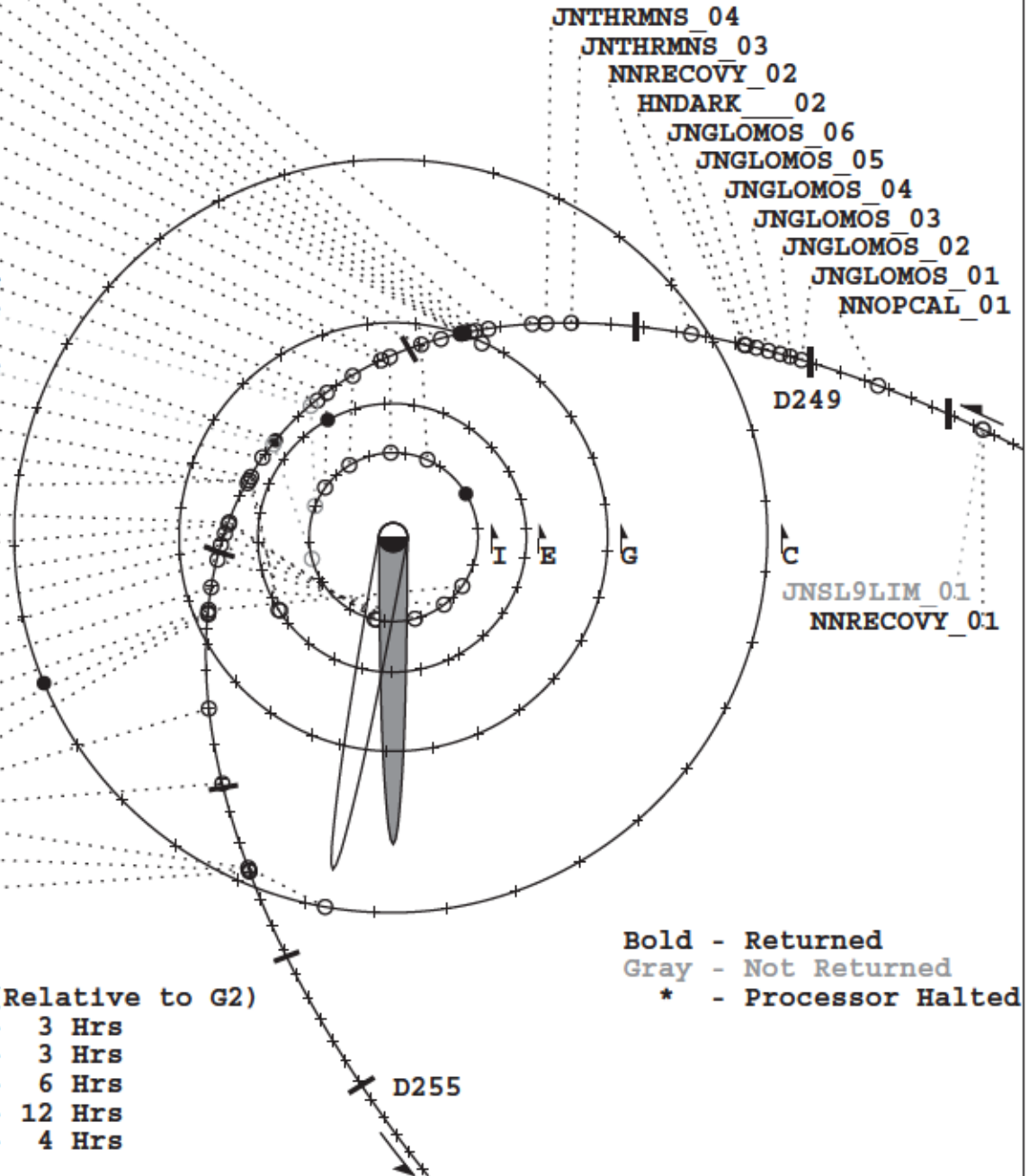
The text on pages 13 gives a brief discussion of the NIMS data files. Additional information about NIMS data formats, data types, data labels and data access is given on pages 14 and 15.

The text on page 16 is a guide to understanding the NIMS MASK.

# NIMS G2 OBSERVATIONS

NNRECOVY\_03  
 GNSIPPAR\_01  
 GNNRPOLE\_01  
 GNTAMMUZ\_01  
 GNANTUM\_01  
 GNLIMBSC\_01  
 GNBRFRGR\_01  
 G2  
 RELOAD\_A  
 INCHEMIS\_01  
 INCHEMIS\_02  
 HNDARK\_03  
 INHRSPEC\_01  
 INIOMON\_01  
 JNTHRMNS\_07\*  
 INCHEMIS\_03\*  
 PJ2  
 INCHEMIS\_04\*  
 RELOAD\_RBS  
 ENLEADMP\_01  
 HNDARK\_04  
 ENEURORT\_01  
 INCHEMIS\_05  
 INTHRMAL\_01  
 INVOLCAN\_01  
 INVOLCAN\_02  
 INVOLCAN\_03  
 INVOLCAN\_04  
 INVOLCAN\_05  
 HNDARK\_05  
 RELOAD\_B  
 NNPCTCAL\_01  
 NNRECOVY\_04  
 CNGLOBAL\_01  
 HNDARK\_06  
 CNCALLRT\_01

Sun ↑      ↑ Earth



**Bold** - Returned  
 Gray - Not Returned  
 \* - Processor Halted

Time Ticks (Relative to G2)  
 Io - 3 Hrs  
 Europa - 3 Hrs  
 Ganymede - 6 Hrs  
 Callisto - 12 Hrs  
 Spacecraft - 4 Hrs

Ganymede Flyby (G2): 06-SEP-1996 (D250) 19:00:41 UTC  
 Perijove (PJ2): 07-SEP-1996 (D251) 13:38:26 UTC

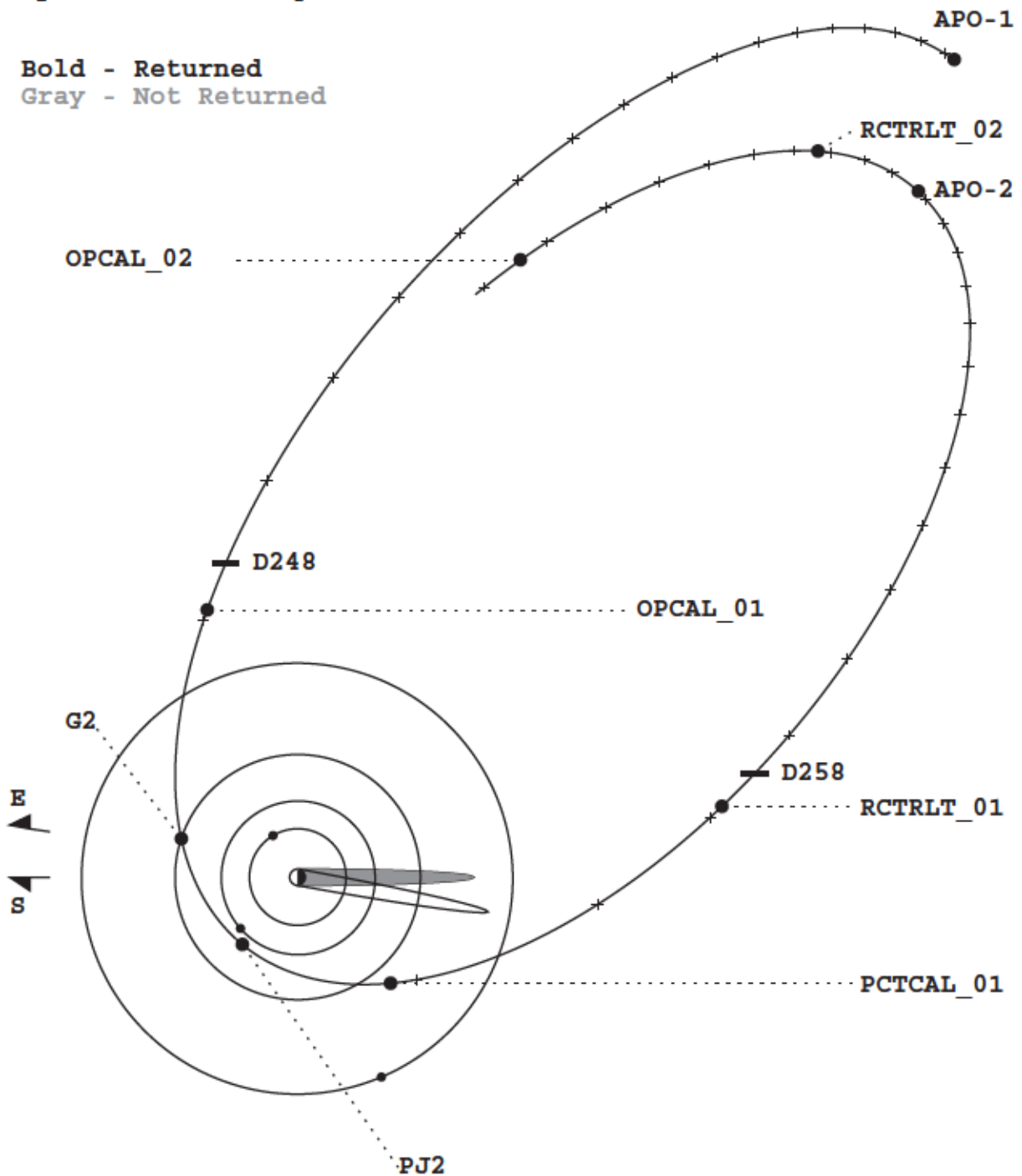
G2 North Trajectory Pole View

# NIMS G2 CALIBRATIONS

Ganymede Flyby (G2): 06-SEP-1996 (D250) 19:00:41 UTC  
Perijove (PJ2): 07-SEP-1996 (D251) 13:38:26 UTC

Time Ticks (Relative to G2)  
Spacecraft - 2 Days

**Bold** - Returned  
**Gray** - Not Returned



G2 North Trajectory Pole View, Apoapsis to Apoapsis

# NIMS G2 DATA RETURN

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit Table	NIMS PB Table	Extra Det	Grating Start	Grating Offset
G2NNRECOVY01-	G2 RECOVERY (Health) 1	LM	2	R/T	G2RCVY3			0	4
G2NNOPCAL 01-	OPCAL #1	LM	4	R/T	G2OPCAL48			0	4
G2JNGLOMOS01-	JUPITER GLOBAL MOSAIC PART 1	XM	2	LPU	G2JGM10A	G2JGM05A		5	4
G2JNGLOMOS02-	JUPITER GLOBAL MOSAIC PART 2	XM	2	LPU	G2JGM10A	G2JGM05A		5	4
G2JNGLOMOS03-	JUPITER GLOBAL MOSAIC PART 3	XM	2	LPU	G2JGM10A	G2JGM05A		5	4
G2JNGLOMOS04-	JUPITER GLOBAL MOSAIC PART 4	XM	2	LPU	G2JGM10A	G2JGM05A		5	4
G2JNGLOMOS05-	JUPITER GLOBAL MOSAIC PART 5	XM	2	LPU	G2JGM10A	G2JGM05A		5	4
G2JNGLOMOS06-	JUPITER GLOBAL MOSAIC PART 6	XM	2	LPU	G2JGM10A	G2JGM05A		5	4
G2HNDARK 02-	DARK OBSERVATION NO. 2	LM	2	LPU	G2DRK34	G2DRK34		0	4
G2NNRECOVY02-	G2 RECOVERY (Health) 2	LM	2	R/T	G2RCVY3			0	4
G2JNTHRMNS03-	JUPITER NORTH/SOUTH STRIPES 3	LM	2	LPU	G2J5M253A	G2J5M80A		0	4
G2JNTHRMNS04-	JUPITER NORTH/SOUTH STRIPES 4	LM	2	LPU	G2J5M253A	G2J5M80A		0	4
G2NNRECOVY03-	G2 RECOVERY (Health) 3	LM	2	R/T	G2RCVY3			0	4
G2GNSIPPAR01	Ganymede Regional Map of Sippar	LM	2	LPU	G2GLM245B	G2GLM204		0	4
G2GNNRPOLE01-	North Pole Region Map	FM	3	MPW	G2GFM221	G2GFM204		0	4
G2GNTAMMUZ01-	TAMMUZ BRIGHT RAYED CRATER	LM	2	LPU	G2GLM245C	G2GLM204		0	4
G2GNANTUM 01-	ANTUM DARK RAYED CRATER	FM	2	MPW	G2GFM221	G2GFM204		0	4
G2GNLIMBSC01+	LIMB SCAN FOR ATMOSPHERE	XS	4	MPW	G2GXS17	G2GXS003		1	4
G2GNBRFRGR01-	BRFRGR BRIGHT FROST GROOVES	FM	3	MPW	G2GFM221	G2GFM204		0	4
G2INCHEMIS01-	MONITORING OF IO'S DAYSIDE	LM	2	MPW	G2ILM245	G2ILM228	9,10	0	4
G2INCHEMIS02-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	G2ILM245	G2ILM228	9,10	0	4
G2HNDARK 03-	DARK OBSERVATION NO. 3	LM	3	MPW	G2DRK34	G2DRK34		0	4
G2INHRSPEC01-	MONITORING OF IO'S DAYSIDE	LM	2	MPW	G2ILM442	G2ILM408		0	4

# NIMS G2 DATA RETURN

ACTID	Obs Cost	Wave-lengths ret	Record Time (sec)	PB Time (sec)	Sel of Tape SBOT (Mb)	Total Bits of Tape BOT (Mbits)	Total Bits of Tape (Mbits)	Mode cycle time (sec)	R/T Mbits	Thold	Comp	Total BTG Mbits (4% ahead)	Data Reduct Factor (SBOT/BTG)
G2NNRECOVY01-		3						8.667	0.00				
G2NNOPCAL 01-		48						8.667	0.00				
G2JNGLOMOS01-	139.6145	5	591	589	3.64	3.65	3.65	0.361		0	2.11	0.805	4.52
G2JNGLOMOS02-	139.6145	5	591	589	3.64	3.65	3.65	0.361		0	2.11	0.805	4.52
G2JNGLOMOS03-	139.6145	5	591	590	3.64	3.65	3.65	0.361		0	1.98	0.858	4.24
G2JNGLOMOS04-	139.6145	5	591	590	3.64	3.65	3.65	0.361		0	1.96	0.867	4.20
G2JNGLOMOS05-	139.6145	5	591	590	3.64	3.65	3.65	0.361		0	1.98	0.858	4.24
G2JNGLOMOS06-	139.6145	5	591	590	3.64	3.65	3.65	0.361		0	1.95	0.872	4.17
G2HNDARK 02-	16.1579	34	65	65	0.40	0.40	0.40	8.667		0	3.52	0.015	26.61
G2NNRECOVY02-		3						8.667	0.00				
G2JNTHRMNS03-	351.9671	80	1497	353	2.18	9.24	9.24	8.667		0	1.44	0.470	4.63
G2JNTHRMNS04-	350.4177	80	1491	27	0.16	9.19	9.19	8.667		0	2.49	0.021	8.00
G2NNRECOVY03-		3						8.667	0.00				
G2GNSIPPAR01-	157.4245	204	667	118	0.73	4.12	4.12	8.667		0	2.26	0.256	2.85
G2GNNRFOLE01-	1025.4771	204	1163	340	3.93	13.44	13.44	4.333		0	1.70	1.959	2.01
G2GN TAMMUZ01-	129.9200	204	550	545	3.36	3.39	3.39	8.667		0	2.32	1.151	2.92
G2GNANTUM 01-	255.5379	204	287	286	3.31	3.32	3.32	4.333		0	2.14	1.309	2.53
G2GNLIMBSC01+		3	182	181	2.10	2.10	2.10	0.167		0	2.27	0.299	7.01
G2GNBRFRGR01-	147.7434	204	165	161	1.86	1.90	1.90	4.333		2	1.59	0.990	1.88
G2INCHEMIS01-	183.1745	228	205	199	2.30	2.37	2.37	8.667		2	1.25	0.870	2.64
G2INCHEMIS02-	58.5061	228	245	243	1.50	1.51	1.51	8.667		0	1.15	1.155	1.30
G2HNDARK 03-	59.8358	34	65	65	0.75	0.75	0.75	8.667		0	1.85	0.029	26.20
G2INHRSPEC01-	252.6076	408	284	283	3.27	3.28	3.28	8.667		0	1.12	2.471	1.32

# NIMS G2 DATA RETURN

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit Table	NIMS PB Table	Extra Det	Grating Start	Grating Offset
G2INIOMON 01	Io Monitoring in Real Time	XM	2	R/T	G2IXM8RT			21	4
G2JNTHRMNS07-	JUPITER NORTH/SOUTH STRIPES 7	LM	2	LPU	G2J5M253A	G2J5M80A		0	4
G2ENLEADMP01-	EUROPA LEAD MAP	LM	3	LPU	G2ELM245	G2ELM204		0	4
G2HNDARK 04-	DARK OBSERVATION NO. 4	LM	3	MPW	G2DRK34	G2DRK34		0	4
G2ENEURORT01	Europa Monitoring in Real Time	LM	3	R/T	G2ELM442			0	4
G2INCHEMIS05-	MONITORING OF IO'S DAYSIDE	LM	2	MPW	G2ILM442	G2ILM102		0	4
G2INTHRMAL01-	MONITORING OF IO'S NIGHTSIDE	LM	4	LPU	G2ILMDK245	G2ILMDK10		0	4
G2INVOLCAN01-	MONITORING OF SELECTED VOLCANICS	LM	2	LPU	G2ILMDK245	G2ILMDK10		0	4
G2INVOLCAN02-	MONITORING OF SELECTED VOLCANICS	LM	2	LPU	G2ILMDK245	G2ILMDK10		0	4
G2INVOLCAN03-	MONITORING OF SELECTED VOLCANICS	LM	2	LPU	G2ILMDK245	G2ILMDK10		0	4
G2INVOLCAN04-	MONITORING OF SELECTED VOLCANICS	LM	2	LPU	G2ILMDK245	G2ILMDK10		0	4
G2INVOLCAN05-	MONITORING OF SELECTED VOLCANICS	LM	2	LPU	G2ILMDK245	G2ILMDK10		0	4
G2HNDARK 05-	DARK OBSERVATION NO. 5	LM	2	LPU	G2DRK34	G2DRK34		0	4
G2NNPCTCAL01	PCT Calibration	LM	4	LPU	G2PCT252	G2PCT180		0	4
G2NNRECOVY04-	G2 RECOVERY (Health) 4	LM	4	R/T	G2RCVY3			0	4
G2CNGLOBAL01-	G2 CALLISTO GLOBAL COVERAGE	LM	4	MPW	G2CLM442	G2CLM408		0	4
G2HNDARK 06-	DARK OBSERVATION NO. 6	LM	4	LPU	G2DRK34	G2DRK34		0	4
G2CNCALLRT01	Callisto Monitoring in Real Time	LM	4	R/T	G2CLM442			0	4
G2NNRCTRLT01	RCT Calibration	LM	1	R/T	G2RCT252			0	4
G2NNRCTRLT02-	RCT Calibration	LM	1	R/T	G2RCT252			0	4
G2NNOPCAL_02-	OPCAL #2	LM	4	R/T	G2OPCAL48			0	4

# NIMS G2 DATA RETURN

ACTID	Obs Cost	Wave-lengths ret	Record Time (sec)	PB Time (sec)	Sel Bits of Tape SBOT (Mb)	Total Bits of Tape BOT (Mbits)	Mode cycle time (sec)	R/T Mbits	Thold	Comp	Total BTG Mbits (4% ahead)	Data Reduct Factor (SBOT/BTG)
G2INIOMON 01-		408						0.03				
G2JNTHRMNS07-	785.3024	80	3346	1697	10.47	20.64	8.667		0	1.23	2.649	3.95
G2ENLEADMP01-	43.0420	204	179	179	1.10	1.11	8.667		2	1.77	0.494	2.23
G2HNDARK 04-	59.8358	34	65	65	0.75	0.75	8.667		0	1.59	0.033	22.52
G2ENEURORT01-		408						0.02	2			
G2INCHERMIS05-	125.4659	102	139	87	1.01	1.61	8.667		2	1.55	0.137	7.32
G2INTHRMAL01-	13.3454	10	53	53	0.32	0.32	8.667		2	2.20	0.006	56.54
G2INVOLCAN01-	8.6574	10	33	33	0.20	0.20	8.667		2	2.20	0.004	56.54
G2INVOLCAN02-	8.6574	10	33	33	0.20	0.20	8.667		2	3.50	0.002	89.95
G2INVOLCAN03-	8.6574	10	33	33	0.20	0.20	8.667		2	3.30	0.002	84.81
G2INVOLCAN04-	8.6574	10	33	33	0.20	0.20	8.667		2	4.10	0.002	105.37
G2INVOLCAN05-	8.7352	10	33	33	0.20	0.20	8.667		2	4.10	0.002	105.37
G2HNDARK 05-	16.1579	34	65	65	0.40	0.40	8.667		0	2.53	0.021	19.12
G2NNPCTCAL01-	132.4512	180	563	186	1.15	3.47	8.667		0	2.00	0.402	2.86
G2NNRBCOVY04-		3					8.667	0.00	0			
G2CNGLOBAL01-	547.3379	408	619	617	7.13	7.16	8.667		2	2.26	2.673	2.67
G2HNDARK 06-	16.1579	34	65	65	0.40	0.40	8.667		0	3.50	0.015	26.46
G2CNCALRT 01-								0.02				
G2NNRCTRLT01-		252					8.667	0.04				
G2NNRCTRLT02-		252					8.667	0.04				
G2NNOPCAL 02-		48					8.667	0.00				
<b>Total</b>	<b>5608.92</b>			Alloc >		113.77	Alloc >	<b>0.15</b>		19.03	22.500	< As Modeled



## Recap of G2 Playback Events

NIMS data playback during G2 was affected mostly by the amount of time available for playback, the compressibility of the data and the fact that only one pass through the tape was allowed for playback in G2. Problems with the CDS software for NIMS playback had been successfully resolved during G1 Cruise so that this problem was no longer a constraint on NIMS playback.

The NIMS processor halted once during the G2 Encounter, just before G2 periapse. This event occurred in the middle of G2JNTHRMNS07. Two subsequent NIMS observations, G2INCHEMIS03 and G2INCHEMIS04, were also lost. The NIMS reload that occurred after G2INCHEMIS04 restarted NIMS and the encounter ended without any more halts. The approximate time of the processor halt was determined before the start of data playback by monitoring the SCLK bits returned in the NIMS engineering telemetry so that no playback bits were wasted in returning 'bad' data from when the NIMS processor was halted.

In G2 the compression estimate for NIMS Io data was greatly overestimated by almost a factor of two. The compressibility of NIMS Io data was not determined in G1 since the G1 Io data were returned as 'garbled' data and had a compression of 0.97. To meet the NIMS playback allocation, the number of wavelengths returned in some of the Io observations and the PCT calibration were trimmed.

The fact that only one pass through the tape was allowed during G2 playback caused the project to waste about 1.5 Mbits of downlink capability. This underflow was mostly due to underestimates of PLS and MAG compression.

G2 Playback Events Timeline (09-01-96 to 10-29-96)

- 09-01-96: G2 encounter starts.
- 09-04-96: Observation G2JNSL9LIM01 is deleted from plan due to insufficient downlink allocation.
- 09-07-96: NIMS processor halts halfway through G2JNTHRMNS07. Observations G2INCHEMIS03, G2INCHEMIS04 are not recorded.
- 09-10-96: Playback begins.
- 09-14-96: First NIMS (G2JNGLOMOS01) observation comes down.
- 09-17-96: PPR releases their allocation, NIMS receives 1 Mb.
- 09-18-96: Updated playback table delivered with increased playback of G2INCHEMIS05 wavelengths.
- 09-25-96: Compression for G2JNTHRMNS03 is much lower than expected at 1.4.
- 10-01-96: Allocation has increased to 19.06 Mb. Ganymede playback nearly complete; actual and predicted btg in good agreement.
- 10-08-96: Playback is on schedule. Last Ganymede has come down (G2GNBRFRGR01) with compression at 1.58. No Io observations yet received.
- 10-15-96: Compression of about 1.2 for G2INCHEMIS01 and 02 forces revisions of the playback plan. These account for about 1 Mb of increased btg, and following G2INHRSPEC01 is projected to increase 1 Mb also. The only remaining large Io observation is G2INCHEMIS05; this is reduced from 408 to 102 wavelengths and spatial coverage is cut by 35%. Also, wavelengths for the G2NNPCTCAL01 are cut from 252 to 180. This is sufficient (with released office margin) to produce a playback table - plan that is within allocation.
- 10-21-96: No modifications to playback table required although G2JNTHRMNS07 compresses even more poorly than 04 (at 1.23).
- 10-29-96: Playback terminates early via CDS autonomous pause. About 1.56 Mb of capability is wasted. Cause is better than expected PLS and MAG compression, and lower than expected data returned in two "buffer dumps."

## NIMS Anomaly Report - G2 Sequence

The NIMS processor halted once during the G2 Encounter. Certain precautions taken in G2 based on lessons learned in G1 helped to lessen the effects of the NIMS processor halt. In the following discussion this NIMS processor halt will be referred to as 'the G2 Halt'.

### Facts:

0. Between the start of the G2 Encounter and the G2 Halt NIMS returned 5 realtime observations and successfully reloaded NIMS from CDS once. The NIMS SCLK engineering channels were continuously monitored without detecting a NIMS processor halt.

1. A NIMS processor halt was detected at SCLK 03600290 from the analysis of the NIMS SCLK engineering telemetry channels S-1931 and S-1932. This occurred near the middle of the NIMS observation G2JNTHRMNS07. The SCLK channels reported correct times after a subsequent NIMS reload. The last 'good' pre-halt SCLK, the anomalous Halt SCLK values and the first post-reload 'good' SCLK follow (Note that the NIMS engineering SCLK value is normally 2 Rims behind the CDS SCLK Rim when it is reported):

NIMS SCLK	CDS SCLK	CDS SCET	GROUND ERT
03600213	03600215.05	1996-251T07:34:25.425	1996-251T08:55:22.725
03600290	03600432.58	1996-251T11:14:25.417	1996-251T12:00:21.464
03600290	03600597.43	1996-251T14:01:05.411	1996-251T14:41:35.081
03600290	03600630.40	1996-251T14:34:25.409	1996-251T16:25:33.763
03600813	03600815.05	1996-251T17:41:05.402	1996-251T18:39:35.692

2. A NIMS reload from CDS occurred at SCLK 03600271. Two MROs of NIMS RAM space starting at locations 1030 and 142E were returned prior to the reload. The two MROs targeted NIMS memory locations that were found to have miscompares with the original code after the G1 Halt. The G2 MROs found no miscompares with the original code. Addresses changed after the G1 Halt were NOT changed by the G2 Halt. The subsequent reload precluded any chance of dumping other NIMS memory locations via MRO. A NIMS memory checksum after the reload confirmed that NIMS had reloaded properly.

3. The repeating SCLK value of 03600290 in the above table was assumed to be the time of the Halt for two reasons: 1) The NIMS SCLK values are more than 2 Rims different from the CDS SCLK values. 2) The NIMS SCLK repeats until the time of the next reload. NIMS data from the observation G2JNTHRMNS07 were returned up to SCLK 03600291:53 to try to catch the point at which the NIMS processor actually halted. The NIMS data start to become nonsense at 03600291:05.5 in agreement with the repeating SCLK.

4. The two NIMS observations between the times of the Halt and the reload which are presumably lost are G2INCHEMIS03 and G2INTHRMAL04.

5. The NIMS realtime observation G2ENEURORT01 at SCLK 3600807 confirmed that NIMS had restarted and was returning 'good' data.

## NIMS Anomaly Report - G2 Sequence

6. No other NIMS anomalies were detected in G2.

### Timing:

SCLK	Comments
03600263:56	Start of NIMS observation G2JNTHRMNS07
03600291:05	Estimated time of NIMS processor halt
03600318:68	End of NIMS observation G2JNTHRMNS07
03600432.58	Anomalous 03600290 SCLK reported
03600517:77	Start of NIMS observation G2INCHEMIS03
03600583:45	END of NIMS observation G2INCHEMIS03
03600597.43	Anomalous 03600290 SCLK reported
03600599:35	Start of NIMS observation G2INCHEMIS04
03600603:19	End of NIMS observation G2INCHEMIS04
03600630.40	Anomalous 03600290 SCLK reported
03600705:16	MROH of NIMS memory location 1030
03600711:70	MROH of NIMS memory location 142E
03600721:16	Start of NIMS CDS Reload
03600727:16	NIMS restarted.
03600785:07	Start of NIMS observation G2ENLEADMP01
03600798:00	Start of NIMS observation G2HNDARK_02
03600807:00	NIMS realtime observation G2ENEURORT01
03600815.05	First correct SCLK after reload (03600813)

### Summary:

1. A single NIMS processor halt (anomaly) occurred during the G2 Encounter.
2. Continuous monitoring of the NIMS SCLK channels led to a rapid identification that a NIMS processor halt had occurred.
3. The 3 NIMS software reloads from CDS greatly lessened the potentially disastrous effects of the G2 Halt and protected most of the NIMS observations in the encounter.
4. Checksums of NIMS memory space verified that NIMS had reloaded properly.
5. Analysis of the MRO data showed that the NIMS memory locations affected in the G1 Halt were not affected by the G2 Halt.
6. Frequent NIMS realtime observations, both science observations and instrument health monitoring observations, verified that NIMS was functioning normally at various time points throughout the encounter.
7. The error avoidance measures applied to the G2 Encounter as determined in the analysis of the G1 processor halt (points 2, 3, 4, 5 and 6 above) were shown to be the proper response for dealing with the inevitable occurrence of radiation-induced NIMS processor halts.

## 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.