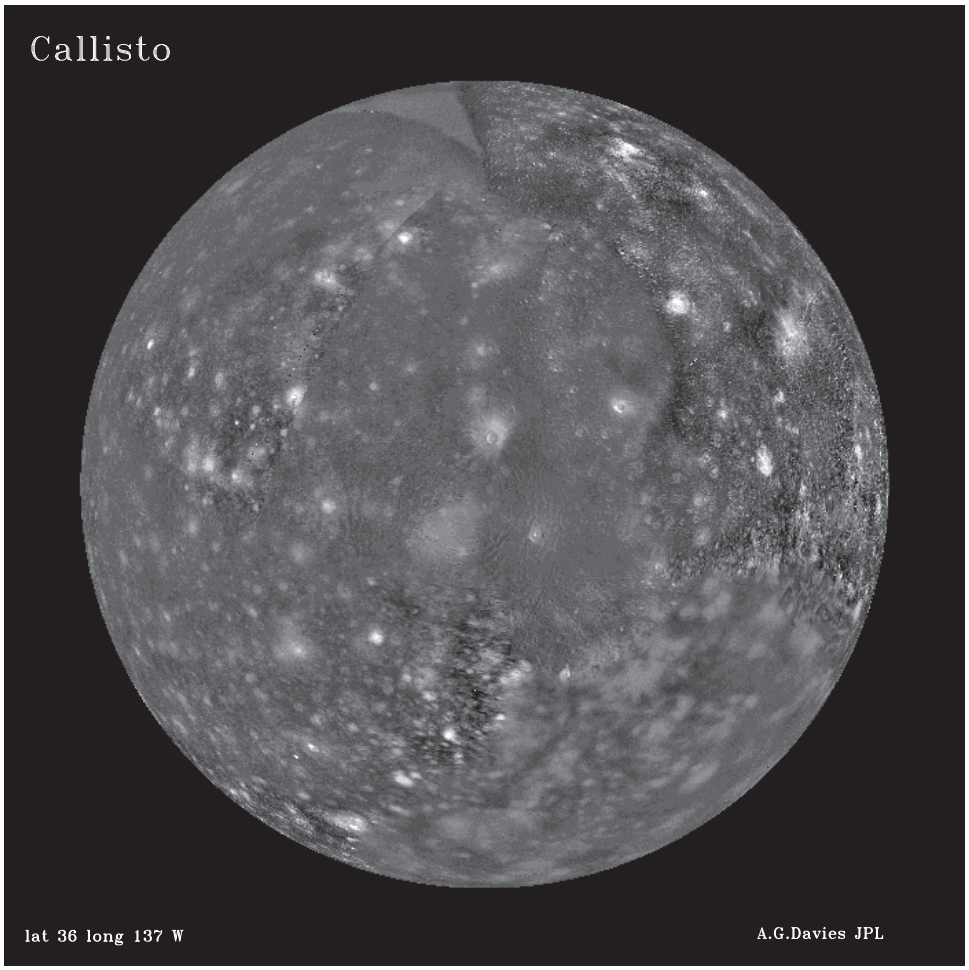
NIMS GUIDE TO THE C3 ORBIT

Original: November 1996
Revised: June 1998



C3 Encounter starts 11/02/96, **C3 Playback starts 11/11/96**

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 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 C3 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS C3 observations and calibrations. Also included in this document is background information on the C3 orbit. This guide was produced before the start of the C3 orbit. After analysis of the NIMS C3 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 C3 orbit. Chapter 2 gives an overview of the C3 orbit and summarizes the NIMS science objectives for the C3 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the C3 orbit. Chapter 4 summarizes the NIMS C3 observations in terms of a comprehensive sequence summary and a NIMS Observation Table (Obstab). Chapter 5 is a collection of the Detailed Observation Designs made up of OAPEL forms and POINTER plots. Chapter 6 contains plots of the NIMS wavelength edit tables used during the C3 orbit.

For more information on the C3 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the C3 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.

Table of Contents

Chapter 1 - Introduction

Contents

Introduction

This C3 orbit is the third of eleven orbits in Galileo's Tour of the Jovian system. This orbit has a targetted satellite flyby of Callisto and a non-targetted distant flyby of Europa. NIMS will make observations of Jupiter, Io, Europa, Callisto and Jupiter's Ring in this orbit. NIMS will also perform some calibrations in this orbit.

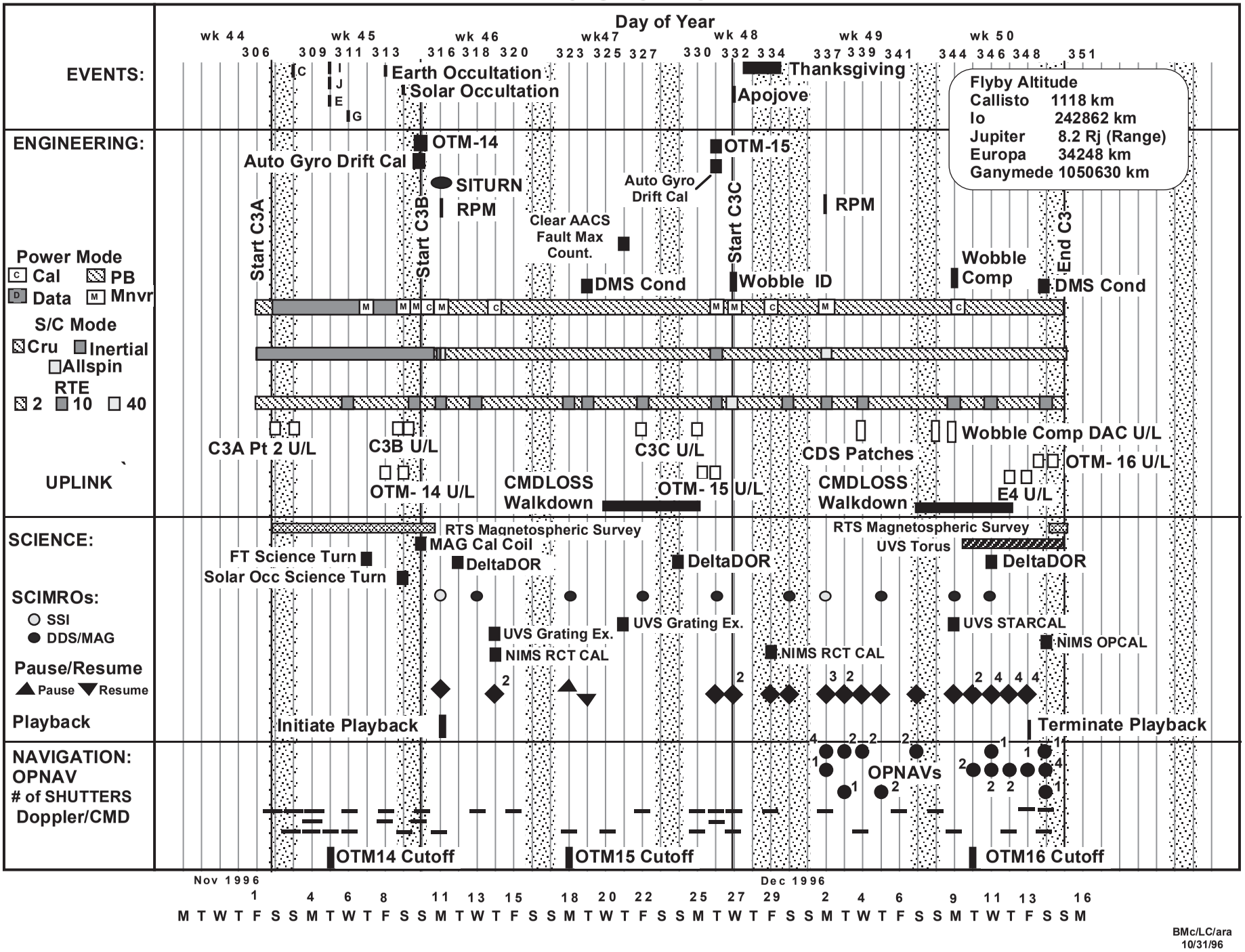
There are five autonomous reloads of the NIMS RAM code from CDS planned during the C3A encounter period with checksums of the NIMS RAM code before each reload. These reloads are in response to the NIMS G1 and G2 flight-anomalies where the NIMS RAM code took some bit hits and halted the instrument during the G1A and G2A encounter periods. NIMS will return realtime data on a daily basis during the C3A encounter period as a means of monitoring the instrument's status. NIMS personnel will also monitior the NIMS engineering telemetry data on a regular schedule to track the instrument's status.

The C3 orbit is divided into 3 sequence loads: one Encounter Load (C3A) and two Orbital Cruise Loads (C3B and C3C). The Encounter Load, C3A, begins on D307 of 1996 (11/02/96) and ends on D316 of 1996 (11/11/96). This load contains the flybys of Jupiter, Callisto, Europa and Io and also the Ring observation and the Jupiter Occultation observation. The first Cruise Load, C3B, runs from D316 to D331. The second Cruise Load, C3C, runs from D331 to D350. Playback of the recorded data takes place during the two Cruise phases, C3B and C3C. A high-level overview timeline of the C3 orbit can be found on the following page.

The following table lists the major events during C3, including NIMS Real Time observations, in UTC.

11/02/96	96-307/16:00:00	C3 Encounter Start
11/04/96	96-309/09:22:00	NIMS R/T Callisto
11/04/96	96-309/13:35:29	Callisto Closest Approach (C3)
11/05/96	96-310/05:29:00	NIMS R/T Jupiter TAR
11/06/96	96-311/03:32:00	NIMS R/T Io
11/06/96	96-311/03:36:00	NIMS RAM Reload #1
11/06/96	96-311/09:40:00	NIMS RAM Reload #2
11/06/96	96-311/09:54:00	NIMS R/T Europa
11/06/96	96-311/13:26:00	NIMS R/T Health 05
11/06/96	96-311/13:32:16	Jupiter Closest Approach (PJ3)
11/06/96	96-311/18:50:00	Europa Closest Approach
11/06/96	96-311/15:54:00	NIMS RAM Reload #3
11/07/96	96-312/01:18:00	NIMS R/T Health 06
11/07/96	96-312/02:24:00	NIMS RAM Reload #4
11/09/96	96-314/03:01:00	NIMS RAM Reload #5
11/09/96	96-314/02:31:00	Start Solar Occultation by Jupiter
11/09/96	96-314/09:37:00	End Solar Occultation by Jupiter
11/11/96	96-316/02:00:00	Start C3 Playback
11/14/96	96-319/13:53:00	NIMS R/T RCT #1
11/30/96	96-335/02:12:00	NIMS R/T RCT #2
12/14/96	96-349/09:23:00	NIMS R/T OPCAL
12/15/96	96-350/00:00:00	End C3 Playback

C3 Overview



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Chapter 2 - Orbit Overview

Contents

Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the C3 Orbit.

The text on pages 3 and 4 summarizes the NIMS science objectives for C3. The NIMS calibrations are discussed on page 4. Early data return and C3 playback are discussed on page 5.

The table on pages 6 and 7 is a time-ordered listing of the NIMS Oapels for C3.

The plot on page 8 shows the geometry of the NIMS C3 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 C3 calibrations.

The spreadsheets on pages 13 and 14 summarize the NIMS resource usage for the NIMS C3 observations. The spreadsheet on page 12 summarizes various inputs for the NIMS C3 observations.

The table on pages 15 and 16 lists various NIMS C3 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The tapemap on pages 17 through 21 shows the placement of the C3 observations on the spacecraft's tape recorder. The NIMS observation names are written with a larger type.

The timeline on pages 22 through 27 shows the preliminary C3 playback schedule.

The NIMS C3 mosaic designs are summarized on pages 28 through 32 in time-order.

NIMS C3 Science Overview

Io Science

NIMS will monitor Io's volcanic activity within +/- 10 hours of Io closest approach. Both day-side and night-side observations will be taken in the search for chemical and thermal changes over a 20 hr period (CHEMIS and THRMAL). The Pele and Loki hot spots on Io's night-side will be observed (VOLCAN). A surface mineralogy map will be obtained at Io closest approach (HRSPEC), which will be Galileo's closest approach to Io during the tour. NIMS will also return a real time observatio of Io (RTIMON).

Europa Science

There is a non-targeted flyby of Europa in C3. There are three NIMS observations of Europa in C3. The first observation (PHINEA), a global mosaic, is one in a series of observations over the entire tour, planned to map composition on a global scale. The second observation (LINEA) provides a medium resolution view of an area of Europa surface laden with cracks, enabling a search for compositional contrasts. The final observation (ELIMB), which includes the limb, is optimized to search for possible outgassing or hot spots.

Ganymede Science

There are no NIMS Ganymede observations in the C3 orbit.

Callisto Science

Callisto is the target body for the C3 orbit. Callisto has never been observed at such close range with the IR capability of the NIMS instrument. C3 contains five NIMS observations of Callisto. The first observation occurs ~ 5 hrs 45 min before closest approach and the final observation ends at ~ 24 minutes after Callisto closest approach. NIMS will determine global distribution of the compositional units from data taken in the first Callisto observation (GLOBAL), the global context map. The Asgard region, a multi-ring structure will be observed ~ 90 minutes before C/A. At this higher spatial resolution, NIMS will begin an intensive study of regional surface composition and search for minor surface components by observing small surface features in the highest spectral resolution possible (ARINGS, CRATER and CSPOTS). NIMS will also return a 408 wavelength real time observation of Callisto (CALLRT).

Rings Science

The C3 orbit contains one observation of the Main Ring (MRING). NIMS will study the composition and particle sizes of the main ring band at a scattering angle at phase angle of approximately 179 degrees, i.e. forward scattering.

NIMS C3 Science Overview

Jupiter Science

The Jupiter feature campaign for the C3 orbit concentrates on South Equitorial Belt (Note: this is a change from the orginal OPG plan. It was found in spring/summer 1996 that no White Ovals were available for viewing during the planned observation times. It was decided by the AWG to swap the E6 South Equitorial Belt target for the C3 White Oval. Thus a White Oval will now be targetted in E6). This feature will be tracked over four separate Jupiter rotations: 11, 55, 136 and 153 degrees (FEAxxx). These feature tracks are sequenced as a collaborative effort by all remote sensing instruments. Several special collaborative observations of the Jovian auroral zone are planned for NIMS, UVS and most particles and fields instruments wherein the magnetosphere footprint on the planet is connected to the S/C is observed simultaneously with the in-situ observations of the magnetic field itself. For NIMS, three real-time, full spectral observations of four mirror positions are acquired (NTARRT), centered at 59 degrees north, 162 degrees west. In addition, NIMS will acquire one other auoral measurement for each pole (AURORA) and a north polar haze observation (NPOLE) one rotation after the collaborative magneto-sphere footprint solar occultation, NIMS will acquire a night-time map of the Jovian hotspot region near 10 degrees north latitude (OCSPEC).

Calibration

There are two NIMS RCT calibration observations in C3 and an Opcal observation. There is no NIMS PCT calibration in C3. The first RCT calibration occurs just after the start of the C3B 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 C3C load after apojove and the OTM and will also be returned via realtime. The OPCAL will be performed near the end of the C3C load in-bound on the E4 orbit and will be returned via realtime. There are no explicit Dark Sky observations in C3. The instrument's dark levels will be extracted from off-limb data.

Early Data Return

There are 11 realtime NIMS observations in C3: 2 instrument health checks of 3 wavelengths (HEALTH), 1 408 wavelength Callisto observation (CALLRT), 3 408 wavelength Jupiter observations (NTARRT), 1 8 wavelength Fixed Map Io observation (RTIMON), 1 408 wavelength Europa observation (EURORT), 2 RCT cals and 1 OPCAL. The times for when these realtime observations will be returned can be found on page 1-02 of the NIMS Guide.

C3 Playback

C3 playback will start 11/11/96 (D316) in the middle of Track 2 where the C3 encouter record started. C3 playback has been split into two passes. C3 playback is scheduled to end on 12/15/96 (D350).

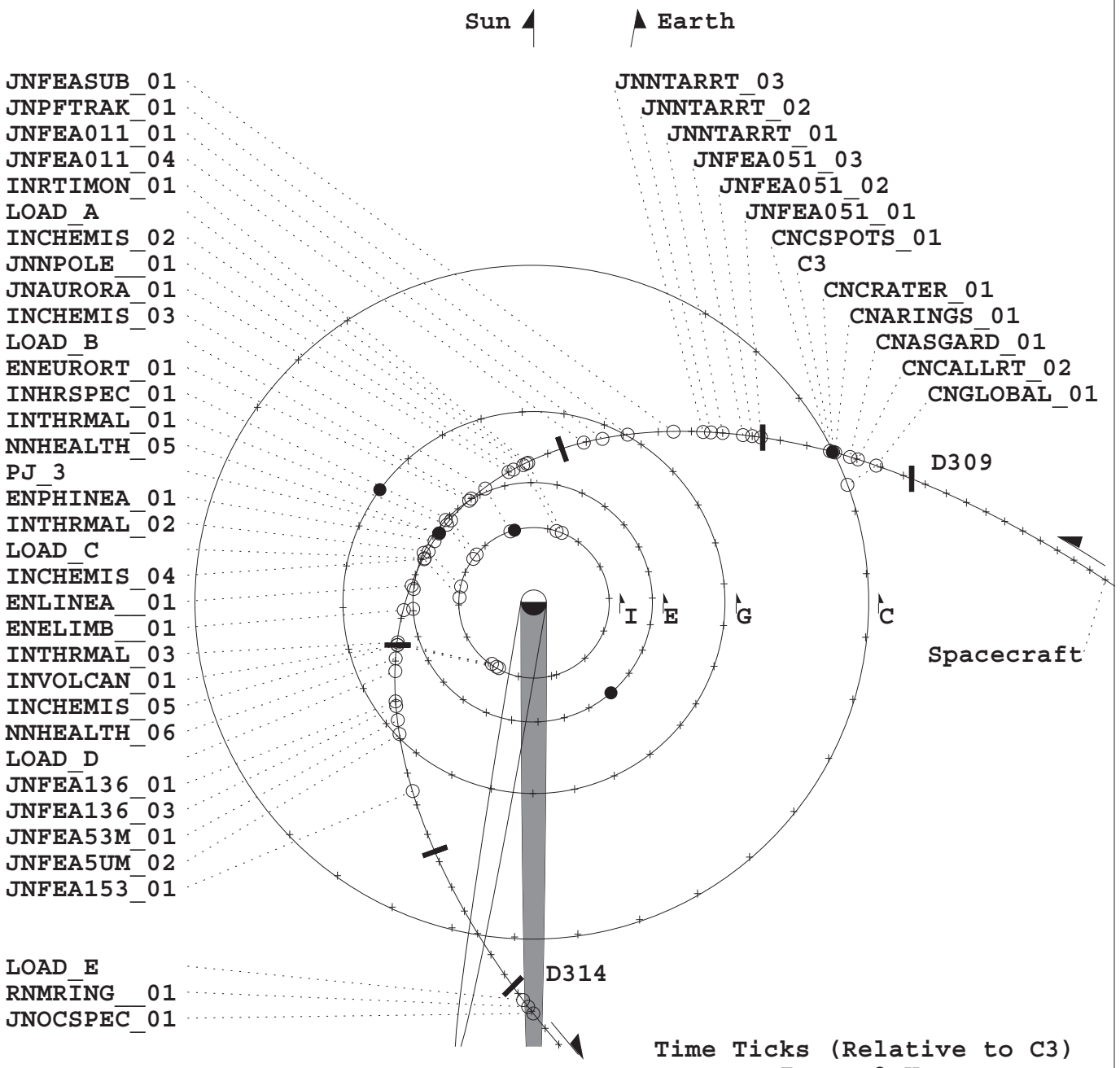
C3 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
C3NNCHOPON01-	96-307/21:57:01	96-307/22:03:05	000/00:06:04
C3CNGLOBAL01-	96-309/06:01:09	96-309/06:43:37	000/00:42:28
C3CNCALLRT02-	96-309/09:20:21	96-309/09:24:23	000/00:04:02
C3CNASGARD01-	96-309/11:59:05	96-309/12:28:55	000/00:29:50
C3CNARINGS01-	96-309/12:47:37	96-309/13:10:53	000/00:23:15
C3CNCRATER01-	96-309/13:16:57	96-309/13:23:31	000/00:06:34
C3CNCSPOTS01-	96-309/13:47:16	96-309/13:54:21	000/00:07:04
C3JNFEA05101-	96-310/00:13:09	96-310/00:19:09	000/00:06:00
C3JNFEA05102-	96-310/01:23:56	96-310/01:29:56	000/00:06:00
C3JNFEA05103-	96-310/02:43:49	96-310/02:49:49	000/00:06:00
C3JNNTARRT01+	96-310/05:26:37	96-310/05:36:44	000/00:10:06
C3JNNTARRT02+	96-310/07:05:42	96-310/07:15:49	000/00:10:06
C3JNNTARRT03+	96-310/07:58:17	96-310/08:08:24	000/00:10:06
C3JNFEASUB01-	96-310/11:38:41	96-310/11:44:20	000/00:05:38
C3JNPFTRAK01-	96-310/16:49:06	96-310/16:59:32	000/00:10:26
C3JNFEA01101-	96-310/19:40:59	96-310/20:04:15	000/00:23:15
C3JNFEA01104-	96-310/21:41:19	96-310/21:51:59	000/00:10:40
C3INRTIMON01-	96-311/03:28:07	96-311/03:34:11	000/00:06:04
C3NIMSP2LD01-	96-311/03:35:12	96-311/03:50:22	000/00:15:10
C3INCHEMIS02-	96-311/04:00:29	96-311/04:09:29	000/00:09:00
C3JNNPOLE 01-	96-311/04:46:59	96-311/05:02:09	000/00:15:10
C3JNAURORA01-	96-311/05:10:15	96-311/06:05:51	000/00:55:36
C3INCHEMIS03-	96-311/08:01:07	96-311/08:18:35	000/00:17:28
C3NIMSP2LD02-	96-311/09:39:12	96-311/09:54:22	000/00:15:10
C3ENEURORT01-	96-311/09:42:14	96-311/09:48:18	000/00:06:04
C3INHRSPEC01-	96-311/11:48:37	96-311/12:09:20	000/00:20:43
C3INTHRMAL01-	96-311/12:24:00	96-311/12:32:49	000/00:08:48
C3NNHEALTH05-	96-311/13:24:40	96-311/13:27:42	000/00:03:02
C3ENPHINEA01-	96-311/14:24:17	96-311/14:32:13	000/00:07:56
C3INTHRMAL02-	96-311/15:12:52	96-311/15:31:04	000/00:18:12
C3NIMSP2LD03-	96-311/15:52:18	96-311/16:07:28	000/00:15:10
C3INCHEMIS04-	96-311/16:00:23	96-311/16:17:42	000/00:17:18

C3 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
C3ENELIMB 01-	96-311/20:50:33	96-311/21:04:33	000/00:14:00
C3INTHRMAL03-	96-311/23:45:30	96-311/23:51:34	000/00:06:04
C3INVOLCAN01-	96-311/23:57:38	96-312/00:07:44	000/00:10:06
C3INCHEMIS05-	96-312/00:03:42	96-312/00:11:47	000/00:08:05
C3NNHEALTH06-	96-312/01:18:31	96-312/01:21:33	000/00:03:02
C3NIMSP2LD04-	96-312/02:24:14	96-312/02:39:24	000/00:15:10
C3JNFEA13601-	96-312/05:23:13	96-312/05:39:23	000/00:16:10
C3JNFEA13603-	96-312/05:53:33	96-312/05:59:33	000/00:06:00
C3JNFEA53M01-	96-312/07:26:34	96-312/07:47:48	000/00:21:14
C3JNFEA5UM02-	96-312/09:01:37	96-312/09:11:37	000/00:10:00
C3NNBFRDMP01+	96-312/09:59:15	96-312/10:01:16	000/00:02:01
C3NNBFRDMP02+	96-312/15:28:52	96-312/15:30:53	000/00:02:01
C3JNFEA15301-	96-312/15:38:59	96-312/16:04:15	000/00:25:16
C3NNBFRDMP03+	96-312/20:39:17	96-312/20:41:18	000/00:02:01
C3NIMSP2LD05-	96-312/03:00:17	96-312/03:15:27	000/00:15:10
C3RNMRING 01-	96-314/04:21:10	96-314/04:38:22	000/00:17:11
C3JNOCSPEC01-	96-314/05:51:10	96-314/06:01:16	000/00:10:06
C3NNNMSAFE01-	96-314/06:02:17	96-314/06:06:20	000/00:04:02
C3NNRCTRLT01-	96-319/01:29:20	96-319/14:33:58	000/12/04/38
C3CNRCTRLT02-	96-334/13:48:49	96-335/02:53:27	000/13:04:38
C3NNNOPCAL01-	96-349/09:16:05	96-349/09:34:17	000/00:18:12

NIMS C3 OBSERVATIONS

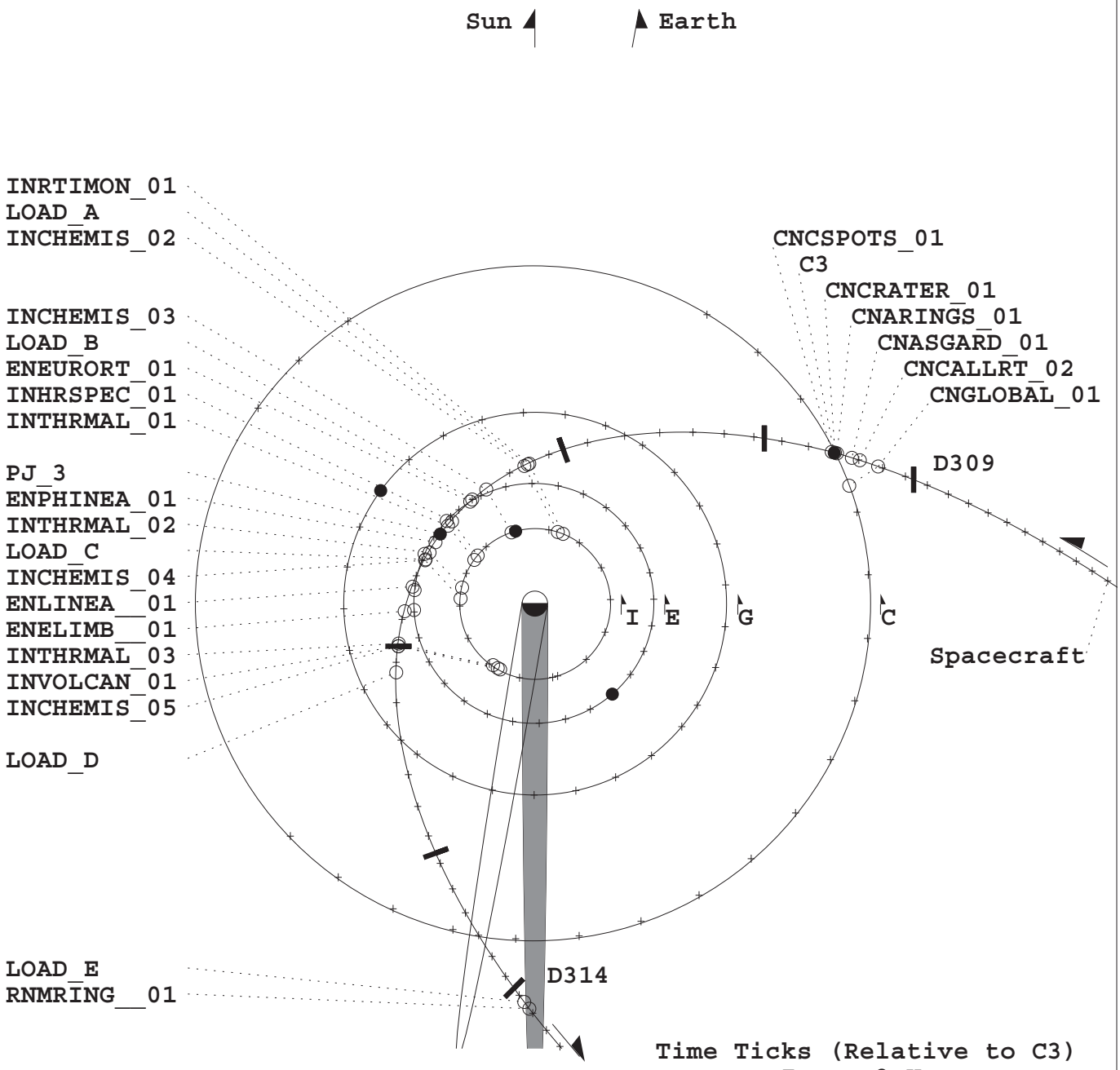


Callisto Flyby (C3): 04-NOV-1996 (D309) 13:35:29 UTC
Perijove (PJ3): 06-NOV-1996 (D311) 13:32:16 UTC

C3 North Trajectory Pole View

NIMS - FEL - 11/08/96

NIMS C3 SATELLITE OBSERVATIONS

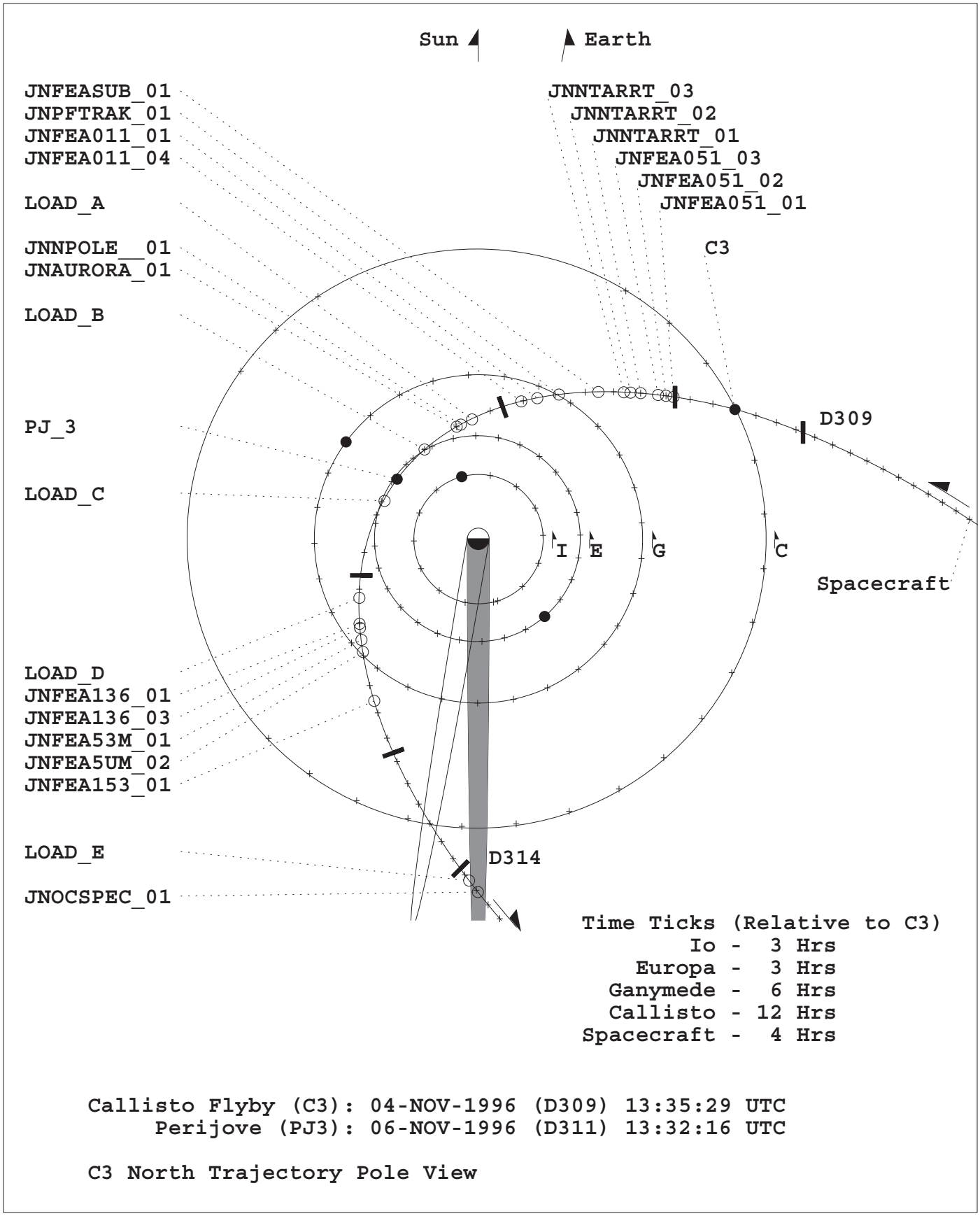


Callisto Flyby (C3): 04-NOV-1996 (D309) 13:35:29 UTC
Perijove (PJ3): 06-NOV-1996 (D311) 13:32:16 UTC

C3 North Trajectory Pole View

NIMS - FEL - 11/08/96

NIMS C3 JUPITER OBSERVATIONS



Callisto Flyby (C3): 04-NOV-1996 (D309) 13:35:29 UTC
Perijove (PJ3): 06-NOV-1996 (D311) 13:32:16 UTC

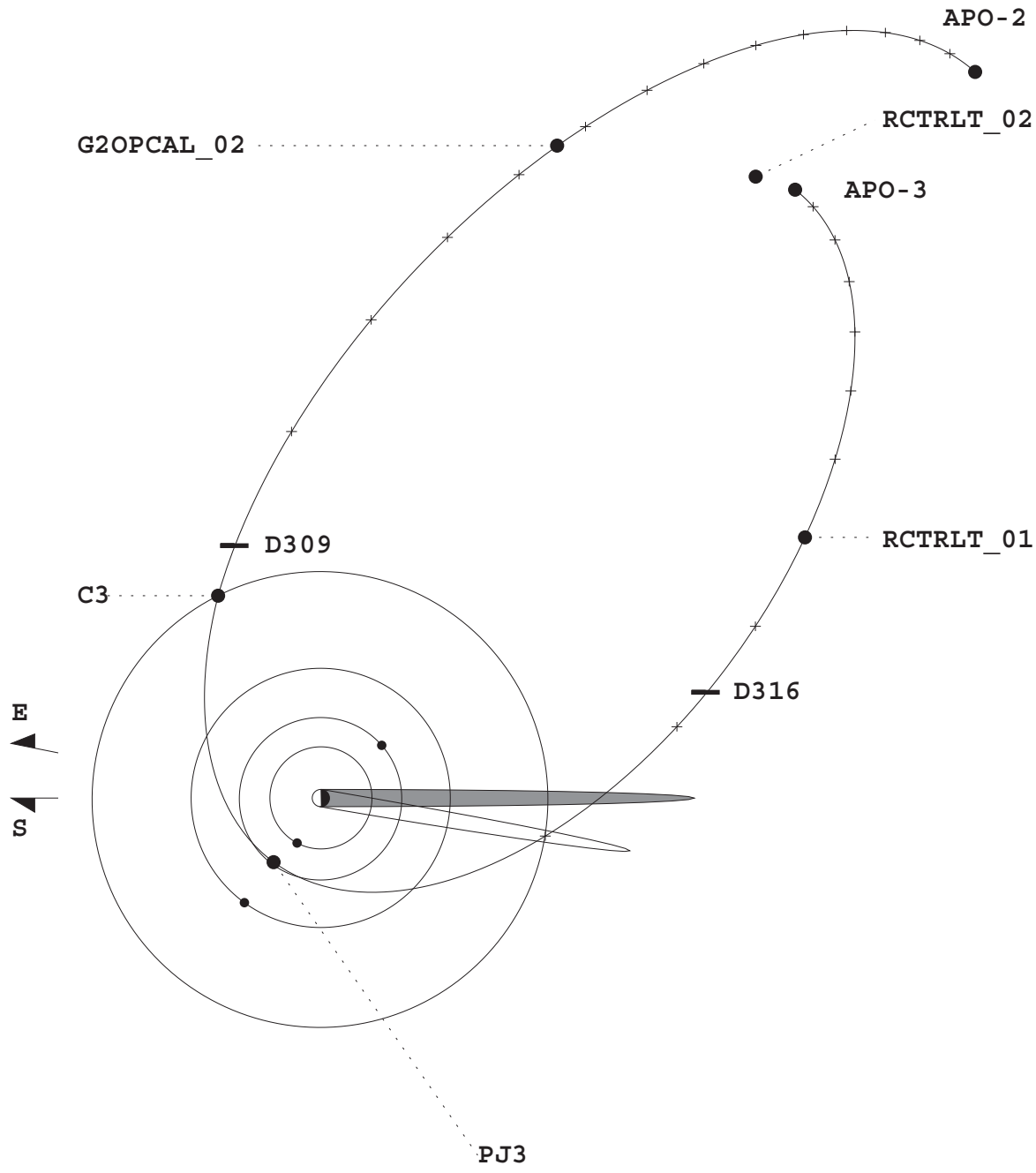
C3 North Trajectory Pole View

NIMS - FEL - 11/08/96

NIMS C3 CALIBRATIONS

Callisto Flyby (C3): 04-NOV-1996 (D309) 13:35:29 UTC
Perijove (PJ3): 06-NOV-1996 (D311) 13:32:16 UTC

Time Ticks (Relative to C3)
Spacecraft - 2 Days



C3 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS C3 Input Parameters

Activity ID	Observation Title	Start time of Activity	Mode	Gain	Record Format	NIMS Edit Table	NIMS Playback Table	Extra Detectors Recorded	Grating Start Position	Grating Offset
C3CNGLOBAL01-	CALLISTO GLOBAL MOSAIC	96-309/06:01:09.666	LM	4	LPU	CLM245	CLM204	11,12		4
C3CNASGARD01-	ASGARD BASIN COVERAGE	96-309/11:59:06.733	FM	4	LPU	CFM126	CFM102			4
C3CNARINGS01-	Callisto multi-ring structure coverage	96-309/12:47:38.733	LM	4	LPU	CLM245	CLM204			4
C3CNCRATER01-	BURR - CENTRAL PIT CRATER	96-309/13:16:57.733	SM	4	MPW	CSM119	CSM102			4
C3CNCSPOTS01-	CALLISTO BRIGHT SPOTS	96-309/13:47:17.733	SM	4	MPW	CFM221	CFM102			4
C3JNFEA05101-	Jupiter campaign feature 51 deg part 1	96-310/02:14:31.012	SM	2	LPU	JFT68C	JFT25A		1	4
C3JNFEA05102-	Jupiter Campaign Feature 53 dgrs. part 2	96-310/03:25:17.012	SM	2	LPU	JFT68C	JFT25A		1	4
C3JNFEA05103-	Jupiter Campaign Feature 53 dgrs. part 3	96-310/04:45:10.012	SM	2	LPU	JFT68C	JFT25A		1	4
C3JNFEASUB01-	Jupiter Campaign Feature Sub-Spectra	96-310/13:40:02.678	LM	4	LPU	JSB253A	JSB80A		0	4
C3JNPFTRAK01-	Jupiter Partial Feature Track part 1	96-310/16:49:07.357	SM	2	LPU	JFT68D	JFT26A		1	4
C3JNFEA01101-	Jupiter Campaign Feature 18 dgrs. part 1	96-310/21:42:20.678	SM	2	LPU	JFT68C	JFT25A		1	4
C3JNFEA01104-	Jupiter Campaign Feature 18 dgrs. part 4	96-310/23:42:40.012	SM	2	LPU	JFT68C	JFT25A		1	4
C3INCHEMIS02-	MONITORING OF IO'S DAYSIDE	96-311/04:00:30.292	LM	2	LPU	ILM245	ILM102	9, 10	0	4
C3JNNPOLE 01-	Jupiter North Pole Map #1	96-311/04:46:59.667	SM	2	LPU	JFT68D	JFT26A		1	4
C3JNAURORA01-	Jupiter Aurora	96-311/05:10:15.000	LM	2	LPU	JAU253A	JAU65A		0	4
C3INCHEMIS03-	MONITORING OF IO'S DAYSIDE	96-311/08:01:08.292	LM	2	LPU	ILM245	ILM102	9, 10	0	4
C3INHRSPEC01-	High spatial & spectral obs. of Io	96-311/11:48:38.292	LM	2	MPW	ILM442	ILM408		0	4
C3INTHRMAL01-	MONITORING OF IO'S NIGHTSIDE	96-311/12:24:02.292	LM	2	MPW	ILM442	ILMDK102		0	4
C3ENPHINEA01-	EUROPA GLOBAL MOSAIC ONE	96-311/14:12:12.333	SM	3	LPU	ESM68	ESM51		0	4
C3INTHRMAL02-	MONITORING OF IO'S NIGHTSIDE	96-311/15:12:53.292	LM	2	MPW	ILM442	ILMDK10		0	4
C3INCHEMIS04-	MONITORING OF IO'S DAYSIDE	96-311/16:00:24.292	LM	2	MPW	ILM442	ILM102		0	4
C3ENLINEA 01-	EUROPA LINEA REGION	96-311/18:21:57.000	LM	2	LPU	ELM245	ELM204	6, 7	0	4
C3ENELIMB 01-	EUROPA OCCULTATION	96-311/20:41:24.333	FM	2	LPU	EFM126	EFM102		0	4
C3INTHRMAL03-	MONITORING OF IO'S NIGHTSIDE	96-311/23:34:22.999	XM	4	LPU	ILMDK245	ILMDK102	1, 2	21	4
C3INVOLCAN01-	Monitoring of selected volcanic regions	96-311/23:45:30.333	XM	2	LPU	ILMDK245	ILMDK102	1, 3	21	4
C3INCHEMIS05-	MONITORING OF IO'S DAYSIDE	96-311/22:25:38.292	LM	2	LPU	ILM245	ILM102	9, 10	0	4
C3JNFEA13601-	Jupiter Campaign Feature 129 phase prt 1		SM	2	LPU	JFT68C	JFT25A			
C3JNFEA13603-	Jupiter Campaign Feature 129 phase prt 3	96-312/07:54:54.012	SM	2	LPU	JFT68C	JFT25A		1	4
C3JNFEA53M01-	Jupiter Campaign Ftr. 5 and 3 micron map	96-312/09:27:55.012	LM	4	LPU	J35160	J35160		0	4
C3JNFEA5UM02-	Jupiter Campaign Feature 5um Map	96-312/11:02:58.012	LM	4	LPU	J5M253B	J5M80B		0	4
C3NNBFRDMP01+	BUFFER DUMP TO TAPE	96-312/12:00:36.012								4
C3NNBFRDMP02+	BUFFER DUMP TO TAPE	96-312/17:30:13.012								4
C3JNFEA15301-	Jupiter Campaign Feature 150 phase prt 1	96-312/17:40:20.012	LM	2	LPU	JFT68C	JFT25A		1	4
C3NNBFRDMP03+	BUFFER DUMP TO TAPE	96-312/22:40:38.012								4
C3RNMRING 01-	MAIN RING OBSERVATION	96-314/04:21:11.807	FM	4	LPU	C3RFM126	C3RFM102			4
C3JNOCSPEC01-	Jupiter Occultation Spectrum	96-314/05:51:10.807	LM		LPU	J35160	J35160			4

NIMS C3 Resource Usage

ACTID	NIMS mode	Record mode	Tics	Number λ returned	Observation record time (sec)	Observation Playback time	Total Tape Mbits (BOT)	Selected MBits (SBOT)	Mode cycle time (sec)
C3CNGLOBAL01-	LM	LPU	528.17	204	2249	2249	13.87	13.87	8.667
C3CNASGARD01-	FM	LPU	414.48	102	1764	1246	10.88	7.69	4.333
C3CNARINGS01-	LM	LPU	157.34	204	667	663	4.11	4.09	8.667
C3CNCRATER01-	SM	MPW	194.60	102	218	207	2.52	2.40	2.330
C3CNCSPOTS01-	FM	MPW	324.68	102	366	365	4.23	4.22	4.333
C3JNFEA05101-	SM	LPU	26.08	25	107	105	0.66	0.65	2.330
C3JNFEA05102-	SM	LPU	26.08	25	107	105	0.66	0.65	2.330
C3JNFEA05103-	SM	LPU	26.08	25	107	105	0.66	0.65	2.330
C3JNFEASUB01-	LM	LPU	82.81	80	349	339	2.15	2.09	8.667
C3JNPFTRAK01-	SM	LPU	99.21	26	419	409	2.58	2.52	2.330
C3JNFEA01101-	SM	LPU	207.04	25	879	399	5.42	2.46	2.330
C3JNFEA01104-	SM	LPU	97.57	25	412	401	2.54	2.47	2.330
C3INCHEMIS02-	LM	LPU	59.60	102	250		1.54	0.00	8.667
C3JNNPOLE 01-	SM	LPU	245.95	26	1045	1035	6.45	6.38	2.330
C3JNAURORA01-	LM	LPU	707.95	65	3016	2823	18.60	17.41	8.667
C3INCHEMIS03-	LM	LPU	176.80	102	750		4.63	0.00	8.667
C3INHRSPEC01-	LM	MPW	836.20	408	948	947	10.96	10.95	8.667
C3INTHRMAL01-	LM	MPW	356.32	102	402		4.65	0.00	8.667
C3ENPHINEA01-	SM	LPU	113.51	51	480	474	2.96	2.92	2.330
C3INTHRMAL02-	LM	MPW	452.12	10	511		5.91	0.00	8.667
C3INCHEMIS04-	LM	MPW	482.00	102	545		6.30	0.00	8.667
C3ENLINEA01-	LM	LPU	760.92	204	3242	822	20.00	5.07	8.667
C3ENELIMB01-	FM	LPU	222.98	102	947	564	5.84	3.48	4.333
C3INTHRMAL03-	LM	LPU	13.89	102	55		0.34	0.00	8.667
C3INVOLCAN01-	LM	LPU	13.89	102	55		0.34	0.00	8.667
C3INCHEMIS05-	LM	LPU	72.49	102	305		1.88	0.00	8.667
C3JNFEA13601	SM	LPU	42.50	25	192	172	1.18	1.06	2.330
C3JNFEA13603-	SM	LPU	28.42	25	117	107	0.72	0.66	2.330
C3JNFEA53M01-	LM	LPU	174.46	160	740	720	4.56	4.44	8.667
C3JNFEA5UM02	LM	LPU	89.37	80	377	357	2.33	2.20	8.667
C3NNBFRDMP01+		LPU	22.10		90			0.00	
C3NNBFRDMP02+		LPU	22.10		90			0.00	
C3JNFEA15301-	SM	LPU	96.64	25	408	376	2.52	2.32	2.33
C3NNBFRDMP03+		LPU	22.10		90	90		0.56	
C3RNMRING01-	FM	LPU	152.42	102	646	642	3.98	3.96	4.333
C3JNOCSPEC01-	LM	LPU	87.96	160	371	300	2.29	1.85	8.667
Total			**7436.82**				**158.26**		

NIMS C3 Resource Usage

ACTID	AACS Mbits compress 2.5	Threshold	Compressn	Total MBTG (w/ 4% overhead)	Data Reduction Factor (SBOT/BTG)
C3CNGLOBAL01-	0.13	2	2.10	5.24	2.6
C3CNASGARD01-	0.10	2	2.10	2.91	2.6
C3CNARINGS01-	0.04	2	2.10	1.55	2.6
C3CNCRATER01-	0.01	2	2.10	0.90	2.7
C3CNCSPOTS01-	0.02	2	2.10	0.85	5.0
C3JNFEA05101-	0.01	0	2.00	0.12	5.5
C3JNFEA05102-	0.01	0	2.00	0.12	5.5
C3JNFEA05103-	0.01	0	2.00	0.12	5.5
C3JNFEASUB01-	0.02	0	2.00	0.33	6.4
C3JNPFTRAK01-	0.02	0	2.00	0.47	5.3
C3JNFEA01101-	0.05	0	2.00	0.45	5.5
C3JNFEA01104-	0.02	0	2.00	0.45	5.5
C3INCHEMIS02-	0.01	2	1.25		
C3JNNPOLE 01-	0.06	0	2.00	1.20	5.3
C3JNAURORA01-	0.17	0	2.00	2.20	7.9
C3INCHEMIS03-	0.04	2	1.25		
C3INHRSPEC01-	0.05	2	1.25	7.42	1.5
C3INTHRMAL01-	0.02	0	2.00		
C3ENPHINEA01-	0.03	2	1.80	1.20	2.4
C3INTHRMAL02-	0.03	0	2.00		
C3INCHEMIS04-	0.03	2	1.25		
C3ENLINEA01-	0.19	2	2.00	2.01	2.5
C3ENELIMB01-	0.05	2	2.00	1.38	2.5
C3INTHRMAL03-	0.00	0	2.00		
C3INVOLCAN01-	0.00	0	2.00		
C3INCHEMIS05-	0.02	2	1.25		
C3JNFEA13601		0	2.00	0.19	5.5
C3JNFEA13603-	0.01	0	2.00	0.12	5.5
C3JNFEA53M01-	0.04	0	1.30	2.13	2.1
C3JNFEA5UM02	0.02	0	1.30	0.53	4.2
C3NNBFRDMP01+					
C3NNBFRDMP02+					
C3JNFEA15301-	0.02	0	2.00	0.42	5.5
C3NNBFRDMP03+					
C3RNMRING01-	0.04	0	2.50	1.26	3.1
C3JNOCSPEC01-	0.02	0	2.00	0.58	3.2
Total	**1.3164**			**34.12**	

NIMS C3 OBSERVING GEOMETRY

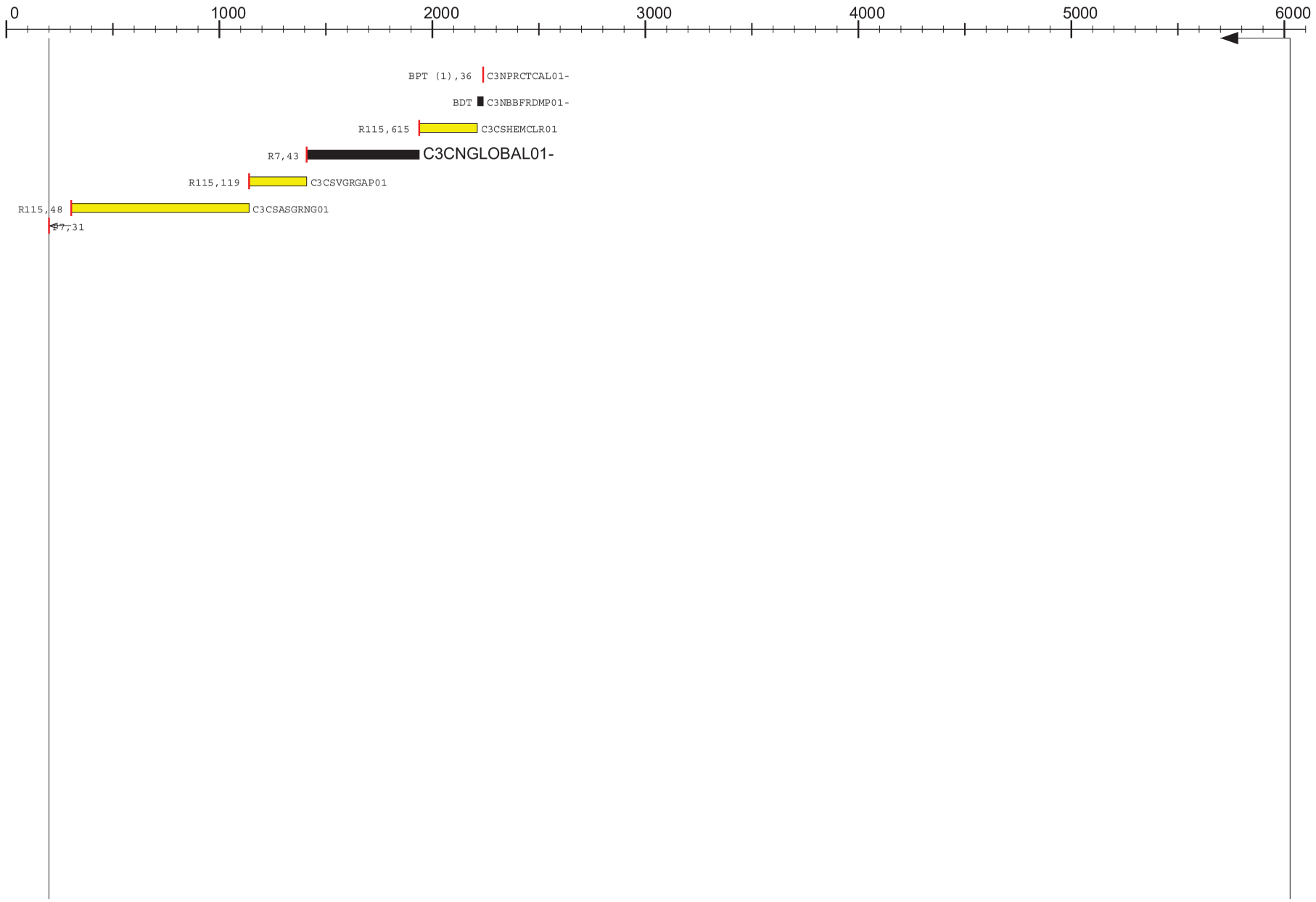
OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
C3CNGLOBAL01	-90 to +90	90 to 220	200K	138	0 to 125	0 to 90	52 to 54
C3CNCALLRT02	-2 to +2	165	115K	138	52	0	52
C3CNASGARD01	+10 to +34	120 to 155	39K	140	15 to 45	15 to 50	51
C3CNARINGS01	+23 to +28	150 to 160	16K	152	44 to 51	26 to 28	32 to 44
C3CNCRATER01	-20 to -18	109 to 110	4K	32 to 52	17 to 20	52 to 55	37 to 40
C3CNCSPOTS01	-42 to -38	38 to 46	9K	52 to 56	74 to 80	63 to 72	113 to 117
C3JNFEA05101	-12 to +2	265 to 275	1,500K	137	55 to 70	5 to 15	53
C3JNFEA05102	-12 to +2	265 to 275	1,490K	136	10 to 26	25 to 45	54
C3JNFEA05103	-12 to +2	270 to 300	1,470K	137	4 to 37	55 to 90	54
C3JNNTARRT01	60	160	1,420K	145	110	87	46
C3JNNTARRT02	60	155	1,340K	145	74	62	46
C3JNNTARRT03	60	160	1,320K	145	66	62	46
C3JNFEASUB01	-10 to 0	265 to 275	1,200K	150	0 to 15	30 to 50	41
C3JNPFTRAK01	+50 to +90	110 to 190	1,060K	162	74 to 104	70 to 90	29
C3JNFEA01101	-12 to +5	235 to 290	960K	171	20 to 90	0 to 70	11
C3JNFEA01104	-12 to +2	260 to 275	874K	172	0 to 20	10 to 40	11
C3INRTIMON01	-90 to -30	120 to 130	444K	143	26 to 36	0 to 10	12 to 26
C3INCHEMIS02	-90 to +90	45 to 225	420K	142	0 to 110	0 to 90	41
C3JNNPOLE_01	+50 to +90	130 to 230	740K	160	70 to 90	70 to 90	9
C3JNAURORA01	-90 to -60 +60 to +90	120 to 200	730K	159	65 to 85	70 to 90	11

NIMS C3 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
C3INCHEMIS03	-90 to +90	75 to 250	286K	135	40 to 120	40 to 90	34
C3ENEURORT01	-5 to +5	280	186K	142	45	3	49
C3INHRSPEC01	-90 to +90	120 to 270	244K	132	26 to 122	27 to 90	37
C3INTHRMAL01	-90 to +90	100 to 190	244K	132	50 to 125	30 to 90	38
C3ENPHINEA01	-70 to +80	250 to 320	100K	154	0 to 90	0 to 60	37
C3INTHRMAL02	-90 to +90	125 to 245	272K	126	30 to 130	30 to 90	43
C3INCHEMIS04	-90 to +90	155 to 310	286K	124	40 to 100	20 to 90	46
C3ENLINEA_01	-25 to +20	215 to 255	35K	115 to 145	10 to 55	10 to 40	20 to 55
C3ENELIMB_01	-45 to +0	180 to 250	60K	81 to 83	30 to 90	10 to 80	87
C3INTHRMAL03	-90 to +90	165 to 245	570K	94	80 to 165	0 to 90	76
C3INVOLCAN01	-90 to +90	165 to 255	580K	93	80 to 160	0 to 90	76
C3INCHEMIS05	-90 to +90	235 to 345	590K	92	10 to 100	0 to 90	77
C3JNFEA13601	-9 to -1	265 to 285	900K	55 to 60	50 to 125	5 to 75	128
C3JNFEA13603	-9 to -1	265 to 285	900K	55	75 to 90	40 to 50	130
C3JNFEA53M01	-9 to -1	265 to 275	940K	55	135 to 155	0 to 30	130
C3JNFEA5UM02	-9 to -1	250 to 280	1,000K	54	135 to 170	60 to 90	131
C3JNFEA15301	-10 to +0	250 to 280	1,200K	36	60 to 140	0 to 90	148
C3RNMRING_01	----------	----------	2,260K	112	90	90	180
C3JNOCSPEC01	+0 to +20	105 to 125	2,280K	110	160 to 170	0 to 20	179

Phase 2A Tapemap of /home/dbliss/dave.bliss
Date: Thu Oct 17 10:43:37 1996 Page: 2

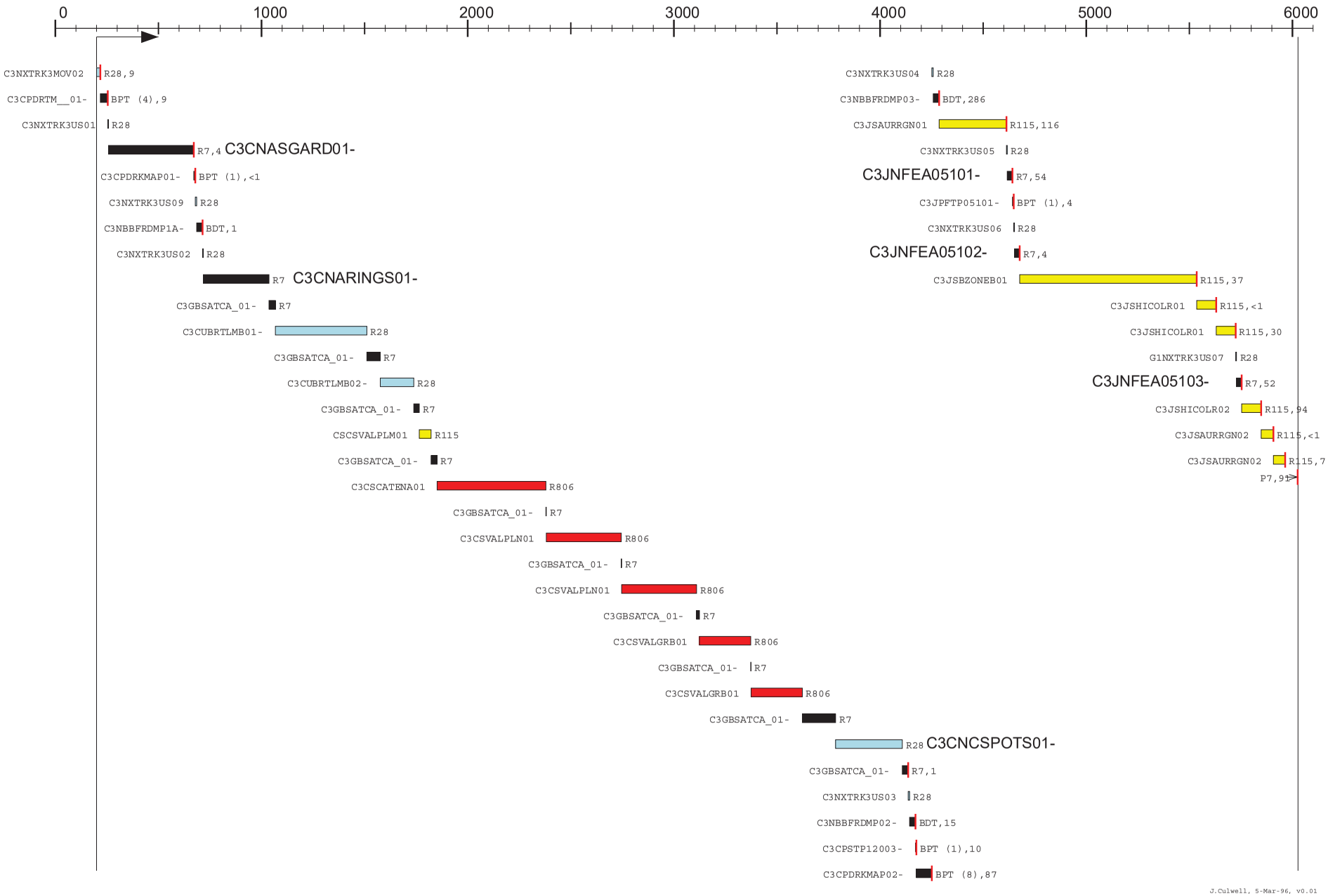
Track 2



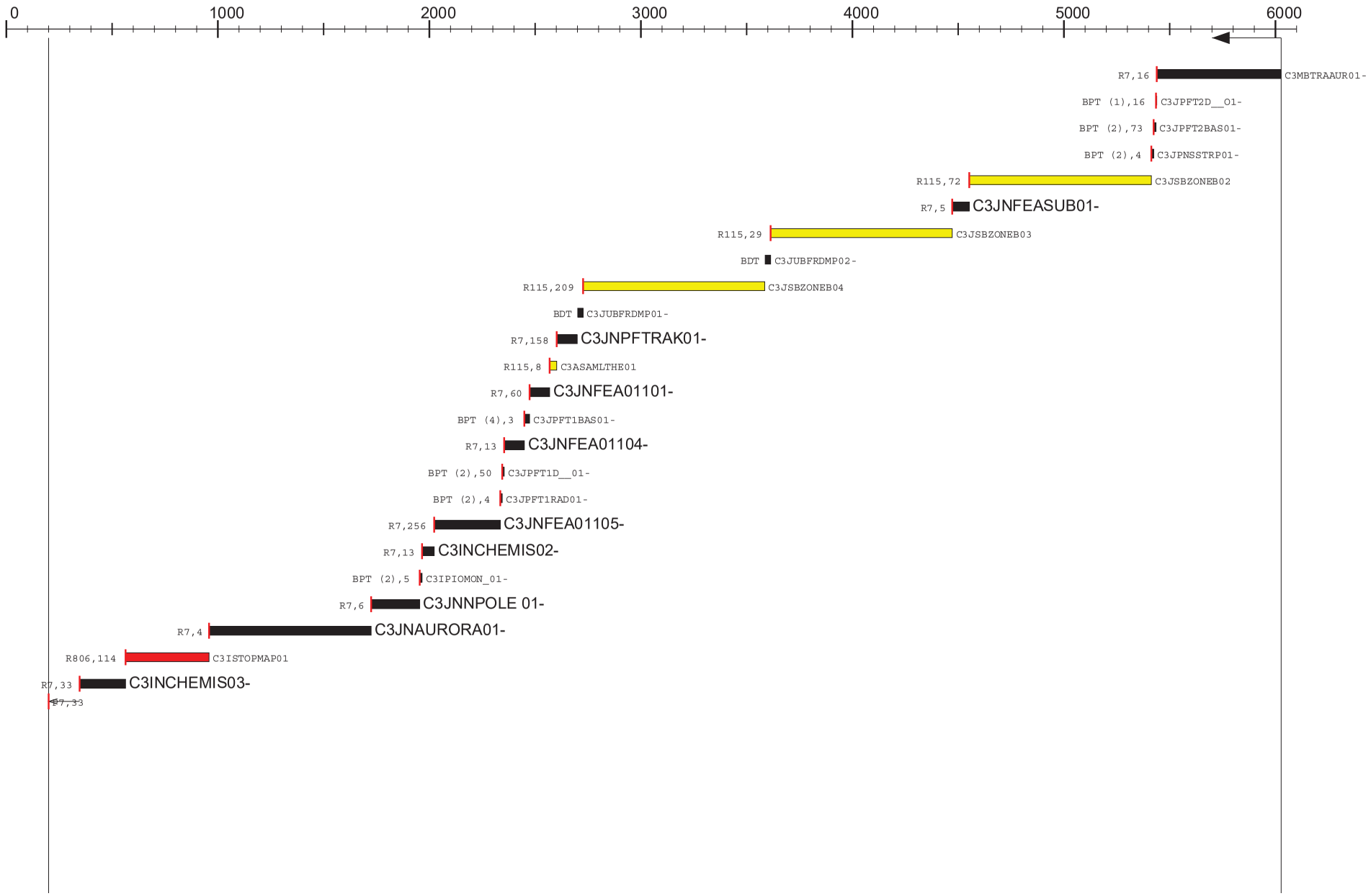
J.Culwell, 5-Mar-96, v0.01

Phase 2A Tapemap of /home/dbliss/dave.bliss
Date: Thu Oct 17 10:43:37 1996 Page: 3

Track 3



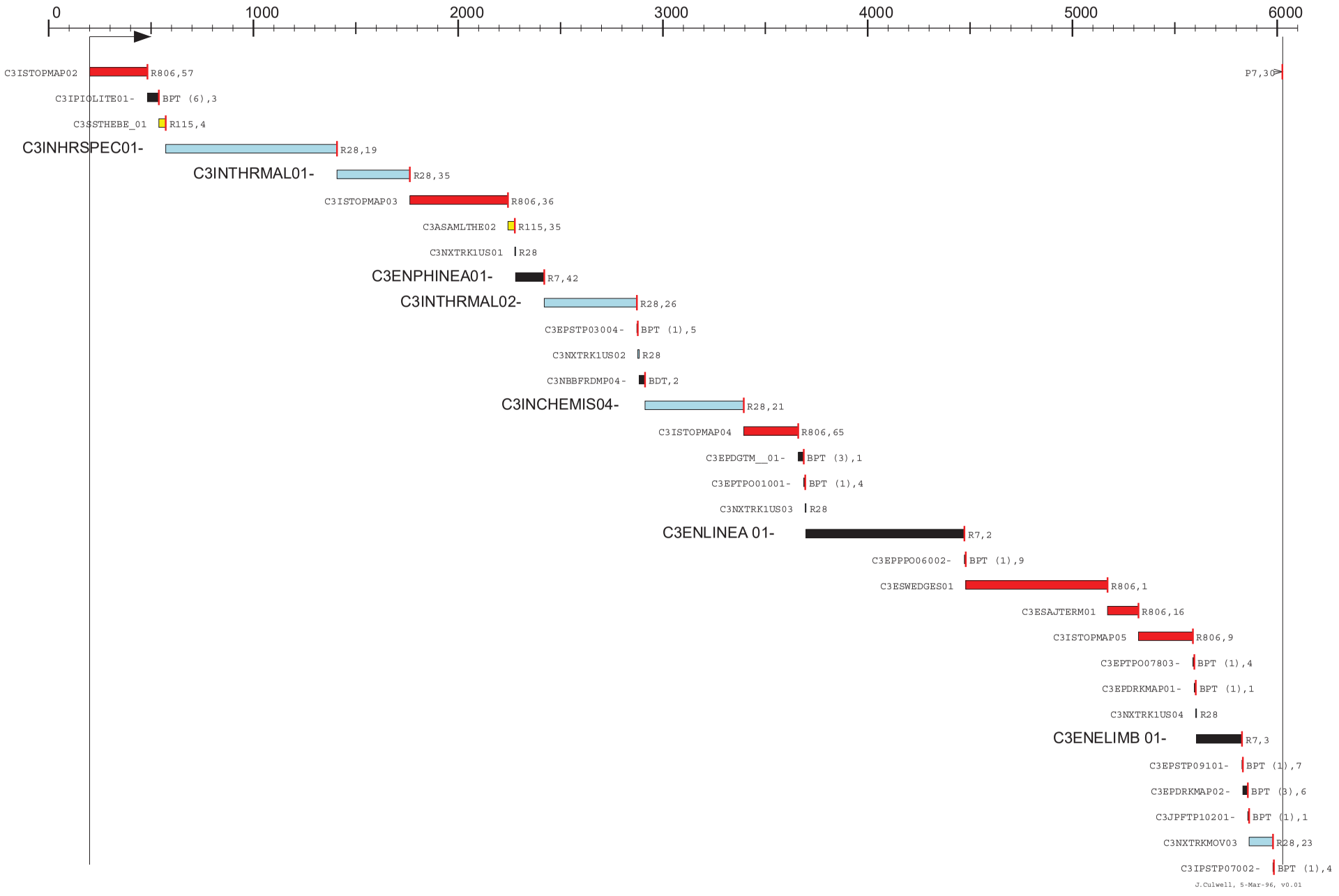
Track 4



J.Culwell, 5-Mar-96, v0.01

Phase 2A Tapemap of /home/dbliss/dave.bliss
Date: Thu Oct 17 10:43:37 1996 Page: 5

Track 1



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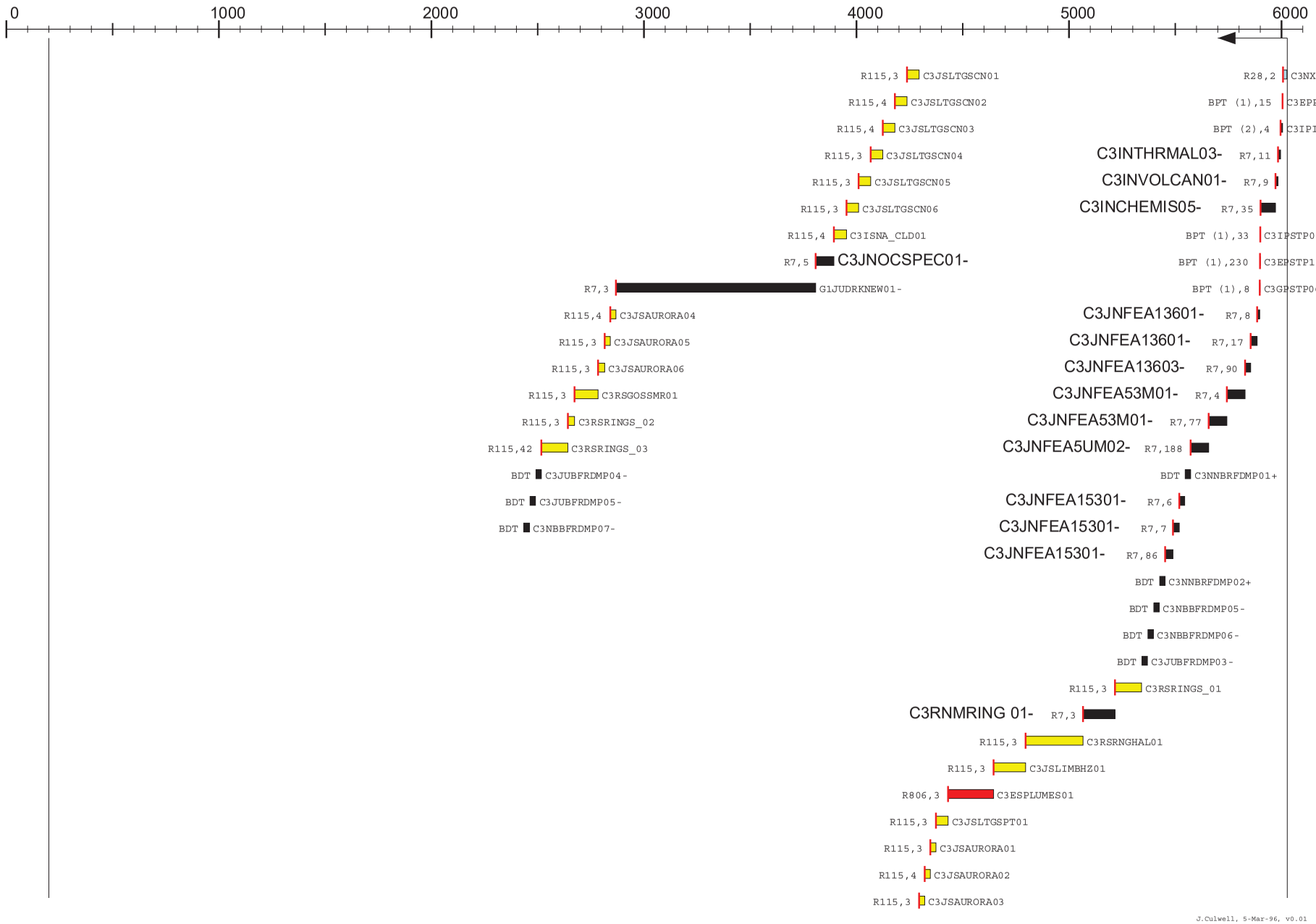
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1000
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R115,4 C3JSLTGSCN03
R115,3 C3JSLTGSCN04
R115,3 C3JSLTGSCN05
R115,3 C3JSLTGSCN06
R115,4 C3ISNA_CLD01
R7,5 C3JNOCSPEC01-
R7,3 G1JUDRKNEW01-
R115,4 C3JSAURORA04
R115,3 C3JSAURORA05
R115,3 C3JSAURORA06
R115,3 C3RSGOSSMR01
R115,3 C3RSRINGS_02
R115,42 C3RSRINGS_03
BDT C3JUBFRDMP04-
BDT C3JUBFRDMP05-
BDT C3NBBFRDMP07-
R28,2 C3NXTRKMOV04
BPT (1),15 C3EPPPO10203-
BPT (2),4 C3IPIOMON_02-
C3INTHRMAL03- R7,11
C3INVOLCAN01- R7,9
C3INCHEMIS05- R7,35
BPT (1),33 C3IPSTP08003-
BPT (1),230 C3EPSTP11003-
BPT (1),8 C3GPSTP06004-
C3JNFEA13601- R7,8
C3JNFEA13601- R7,17
C3JNFEA13603- R7,90
C3JNFEA53M01- R7,4
C3JNFEA53M01- R7,77
C3JNFEA5UM02- R7,188
BDT C3NNBRFDMP01+
C3JNFEA15301- R7,6
C3JNFEA15301- R7,7
C3JNFEA15301- R7,86
BDT C3NNBRFDMP02+
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BDT C3NBBFRDMP06-
BDT C3JUBFRDMP03-
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C3RNMRING 01- R7,3
R115,3 C3RSRNGHAL01
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R806,3 C3ESPLUMES01
R115,3 C3JSLTGSPT01
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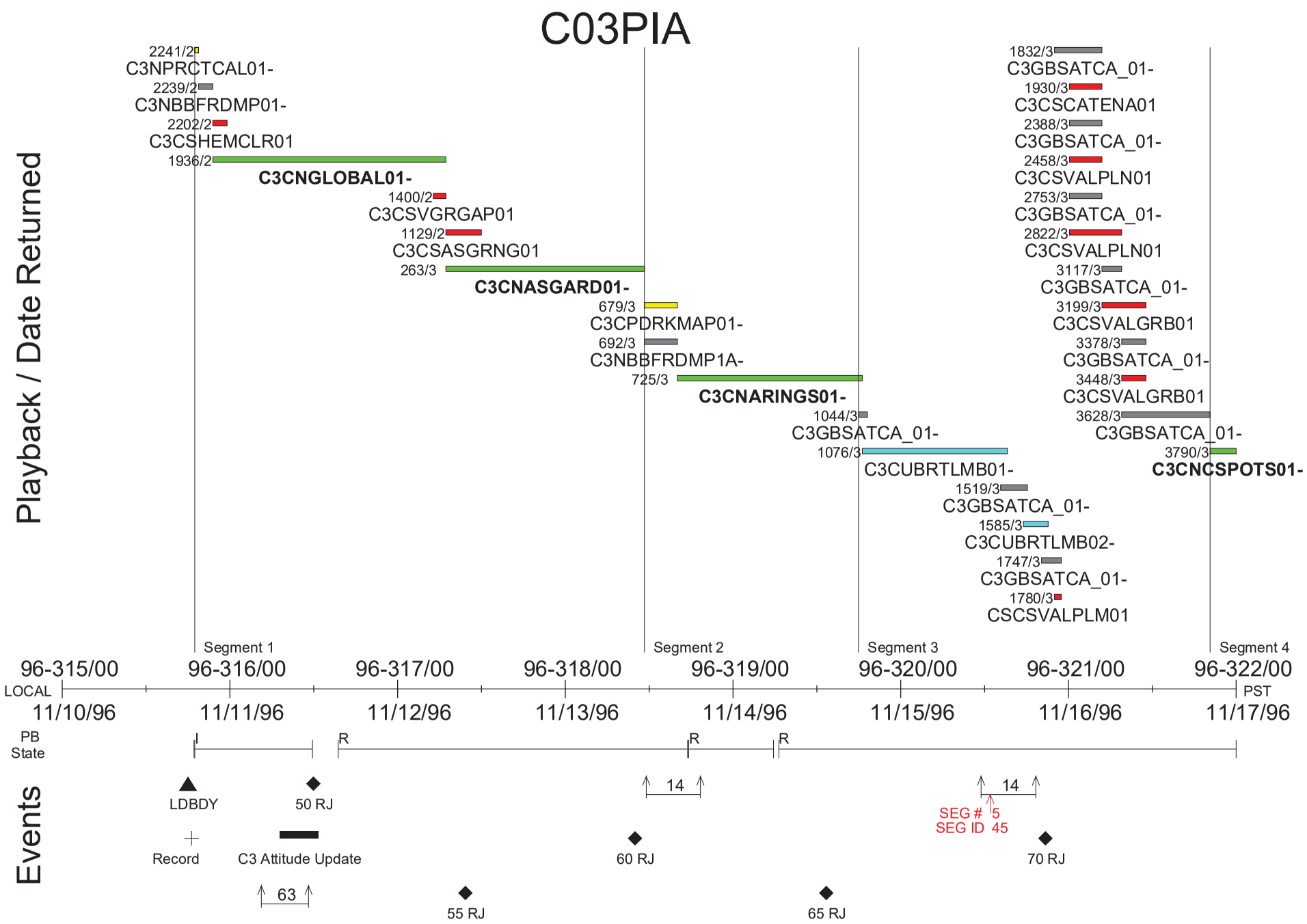
R115,3 C3JSAURORA03
J.Culwell, 5-Mar-96, v0.01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2202/2
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1936/2
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1400/2
C3CSVGRGAP01
1129/2
C3CSASGRNG01
263/3
C3CNASGARD01-
679/3
C3CPDRKMAP01-
692/3
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725/3
C3CNARINGS01-
1044/3
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1076/3
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11/17/96
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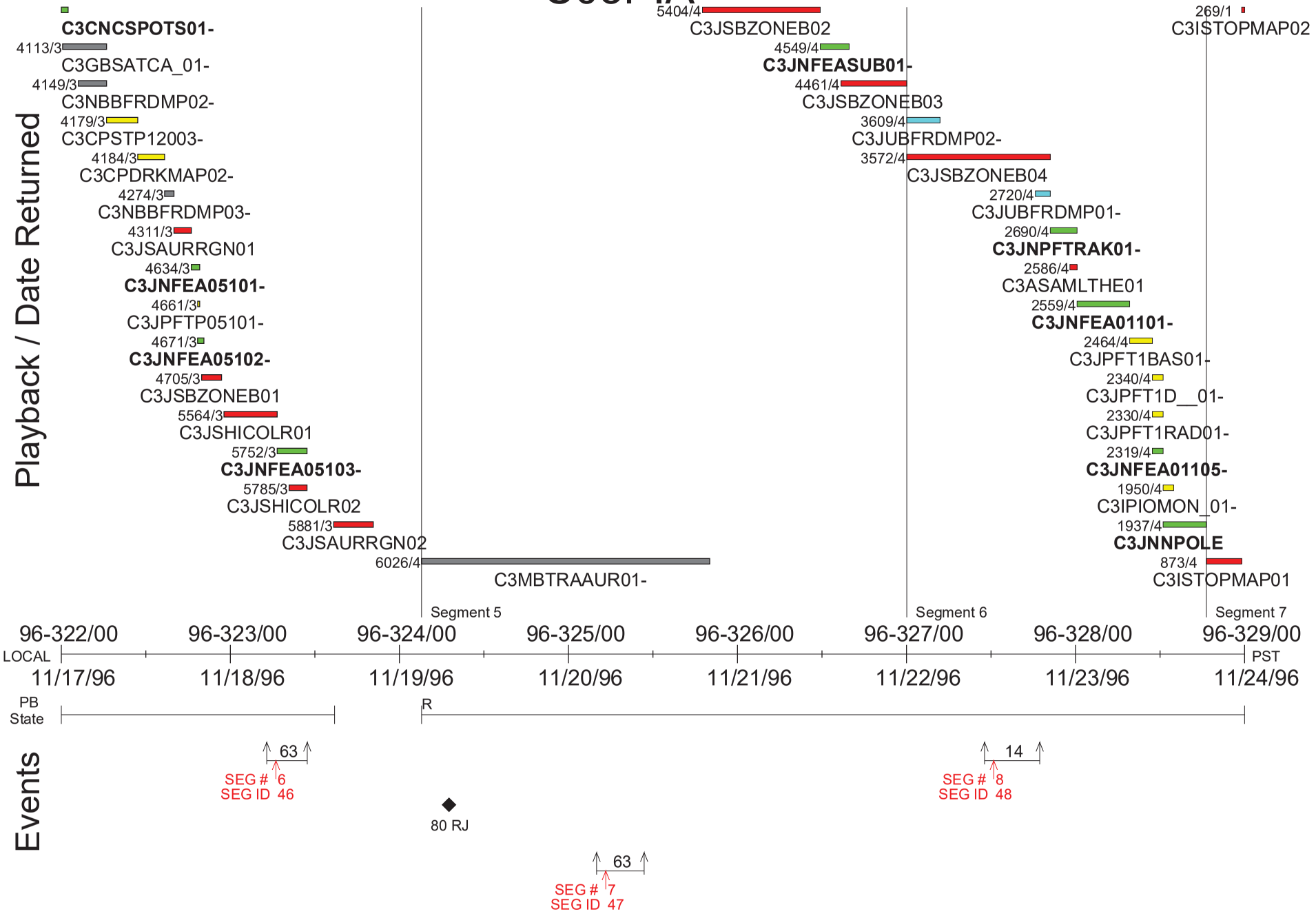
70 RJ
63
55 RJ
65 RJ

C03PIA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4184/3
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4274/3
C3NBBFRDMP03-
4311/3
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4634/3
C3JNFEA05101-
4661/3
C3JPFTP05101-
4671/3
C3JNFEA05102-
4705/3
C3JSBZONEB01
5564/3
C3JSHICOLR01
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C3JNFEA05103-
5785/3
C3JSHICOLR02
5881/3
C3JSAURRGN02
6026/4
C3MBTRAAUR01-
5404/4
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4549/4
C3JNFEASUB01-
4461/4
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3609/4
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3572/4
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2720/4
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2586/4
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2559/4
C3JNFEA01101-
2464/4
C3JPFT1BAS01-
2340/4
C3JPFT1D__01-
2330/4
C3JPFT1RAD01-
2319/4
C3JNFEA01105-
1950/4
C3IPIOMON_01-
1937/4
C3JNNPOLE
873/4
C3ISTOPMAP01
269/1
C3ISTOPMAP02
Segment 5
Segment 6
Segment 7
96-322/00
96-323/00
96-324/00
96-325/00
96-326/00
96-327/00
96-328/00
96-329/00
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11/24/96
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SEG # 7
SEG ID 47
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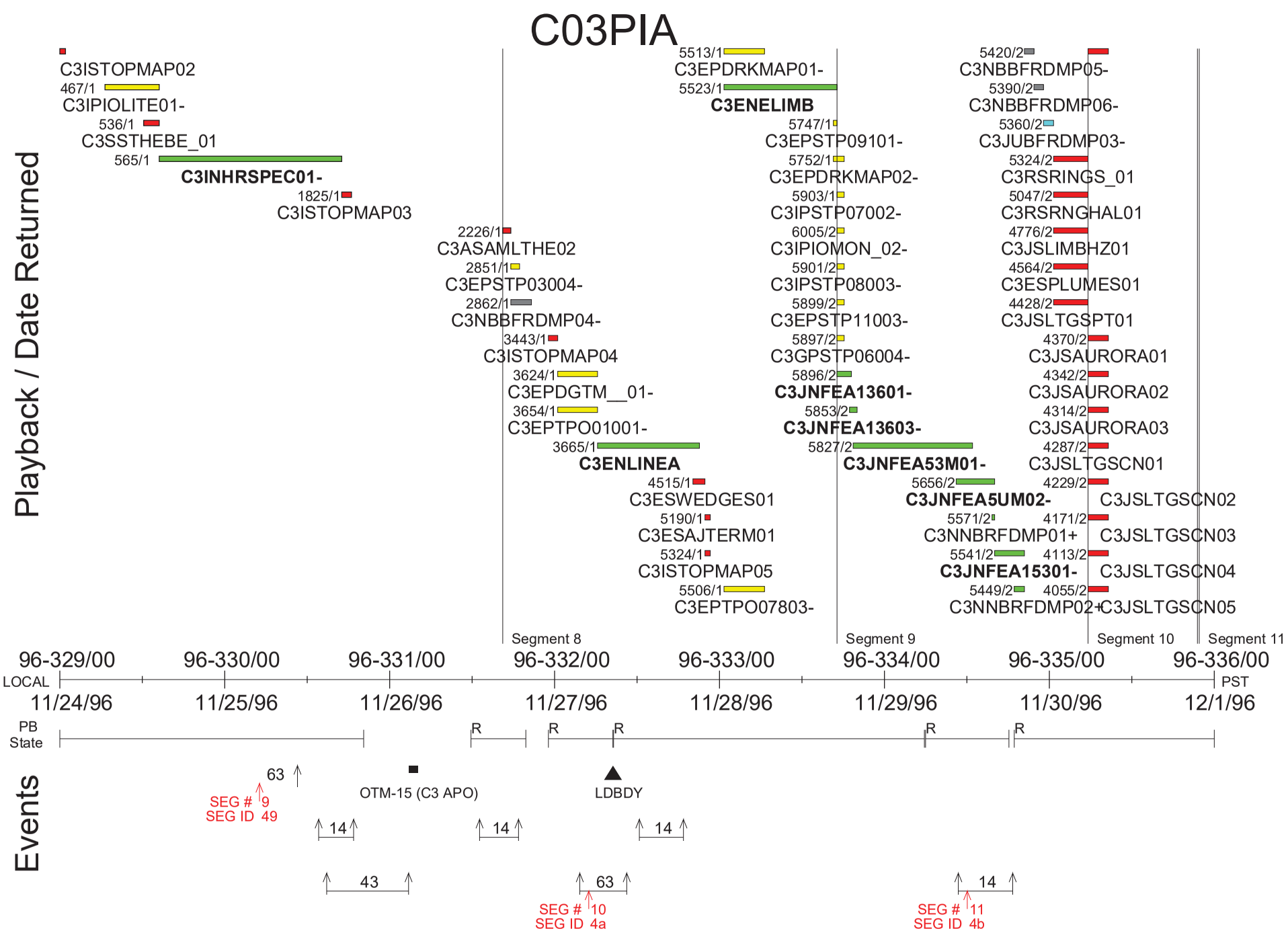
SEG # 8
SEG ID 48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536/1
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C3INHRSPEC01-
1825/1
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2226/1
C3ASAMLTHE02
2851/1
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2862/1
C3NBBFRDMP04-
3443/1
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3624/1
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C3EPTPO01001-
3665/1
C3ENLINEA
4515/1
C3ESWEDGES01
5190/1
C3ESAJTERM01
5324/1
C3ISTOPMAP05
5506/1
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5513/1
C3EPDRKMAP01-
5523/1
C3ENELIMB
5747/1
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5752/1
C3EPDRKMAP02-
5903/1
C3IPSTP07002-
6005/2
C3IPIOMON_02-
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5390/2
C3NBBFRDMP06-
5360/2
C3JUBFRDMP03-
5324/2
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C3RSRNGHAL01
4776/2
C3JSLIMBHZ01
4564/2
C3ESPLUMES01
4428/2
C3JSLTGSPT01
4370/2
C3JSAURORA01
4342/2
C3JSAURORA02
4314/2
C3JSAURORA03
4287/2
C3JSLTGSCN01
4229/2
C3JSLTGSCN02
4171/2
C3JSLTGSCN03
4113/2
C3JSLTGSCN04
4055/2
C3JSLTGSCN05
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Segment 9
Segment 10
Segment 11
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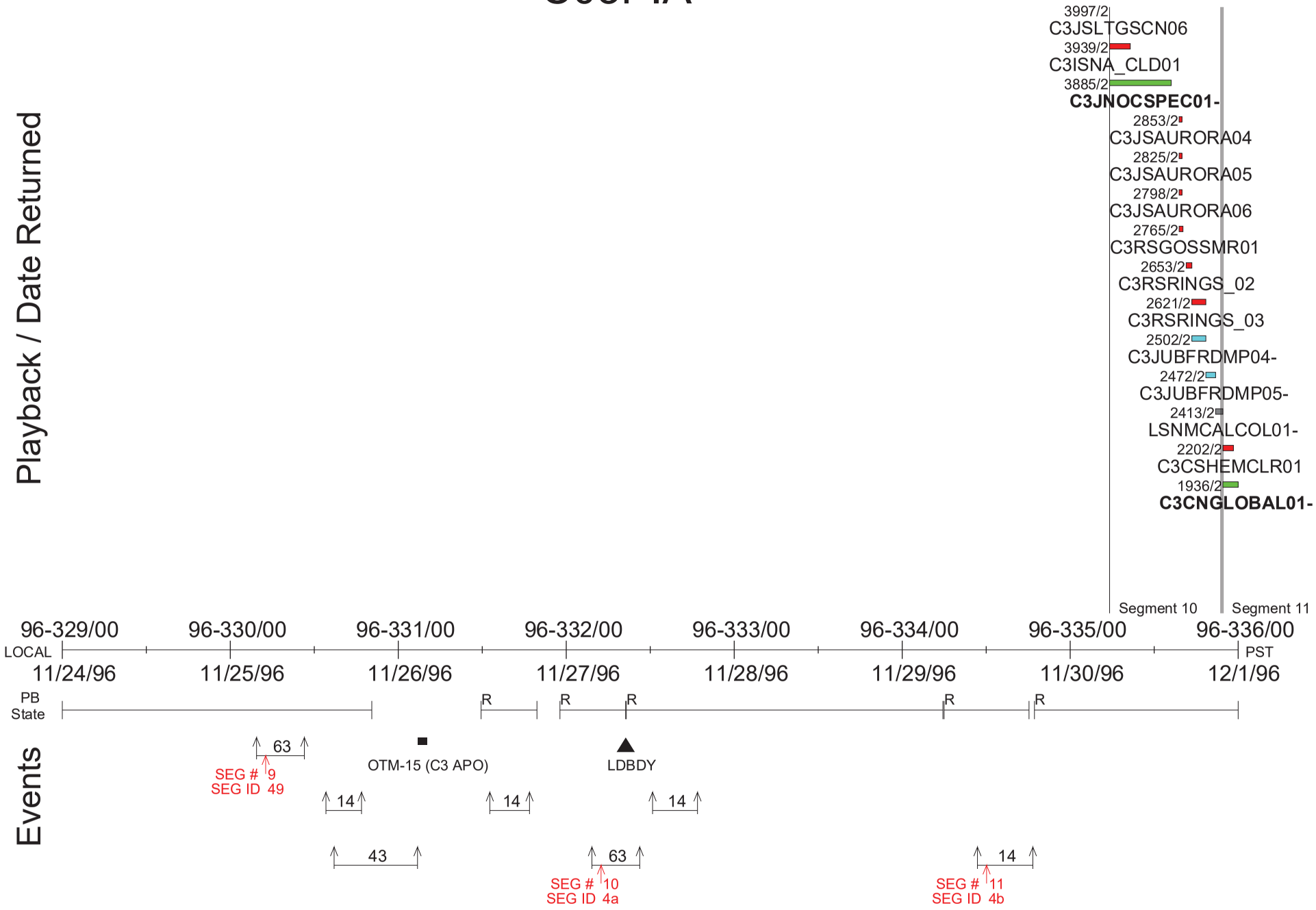
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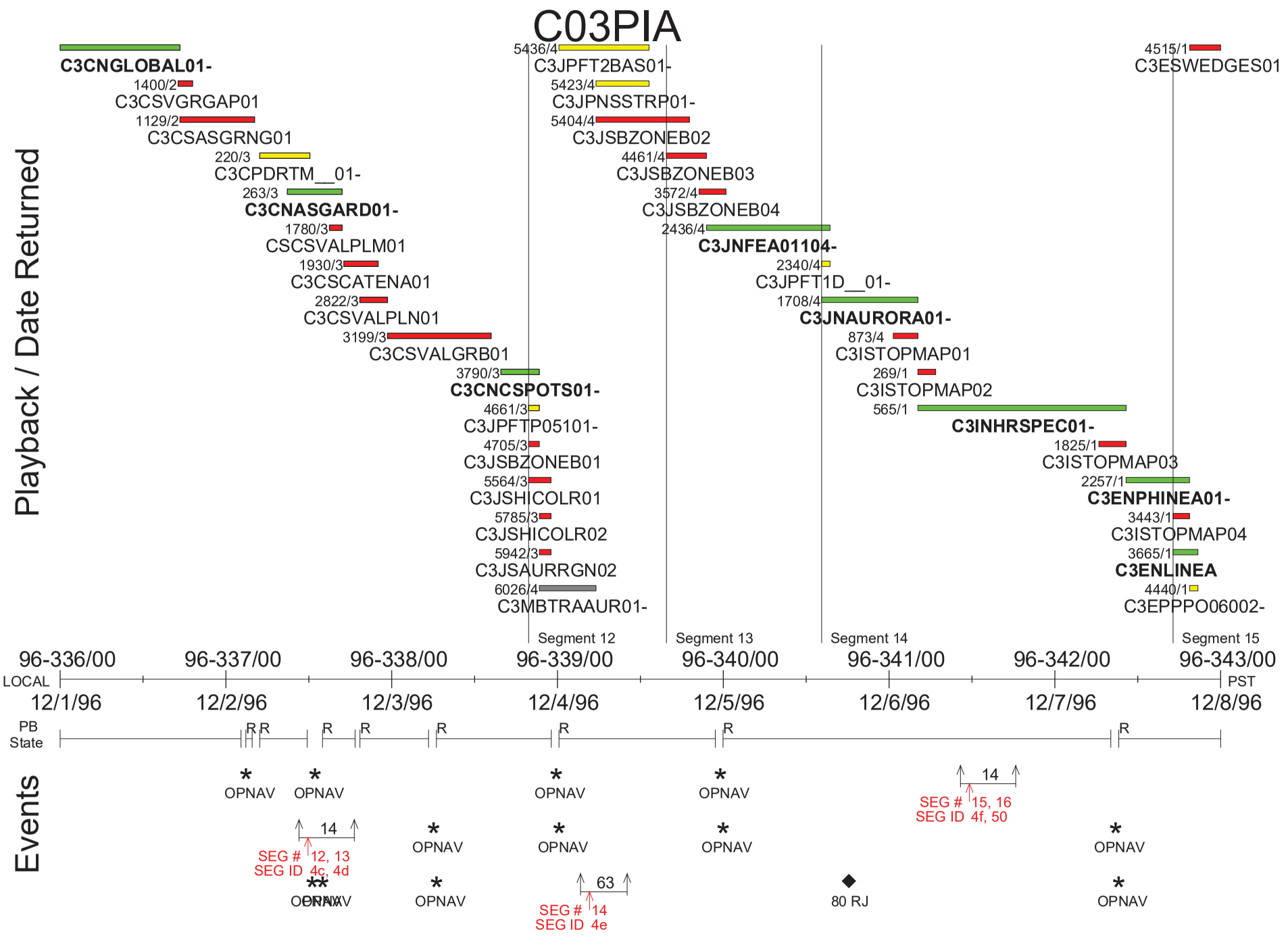

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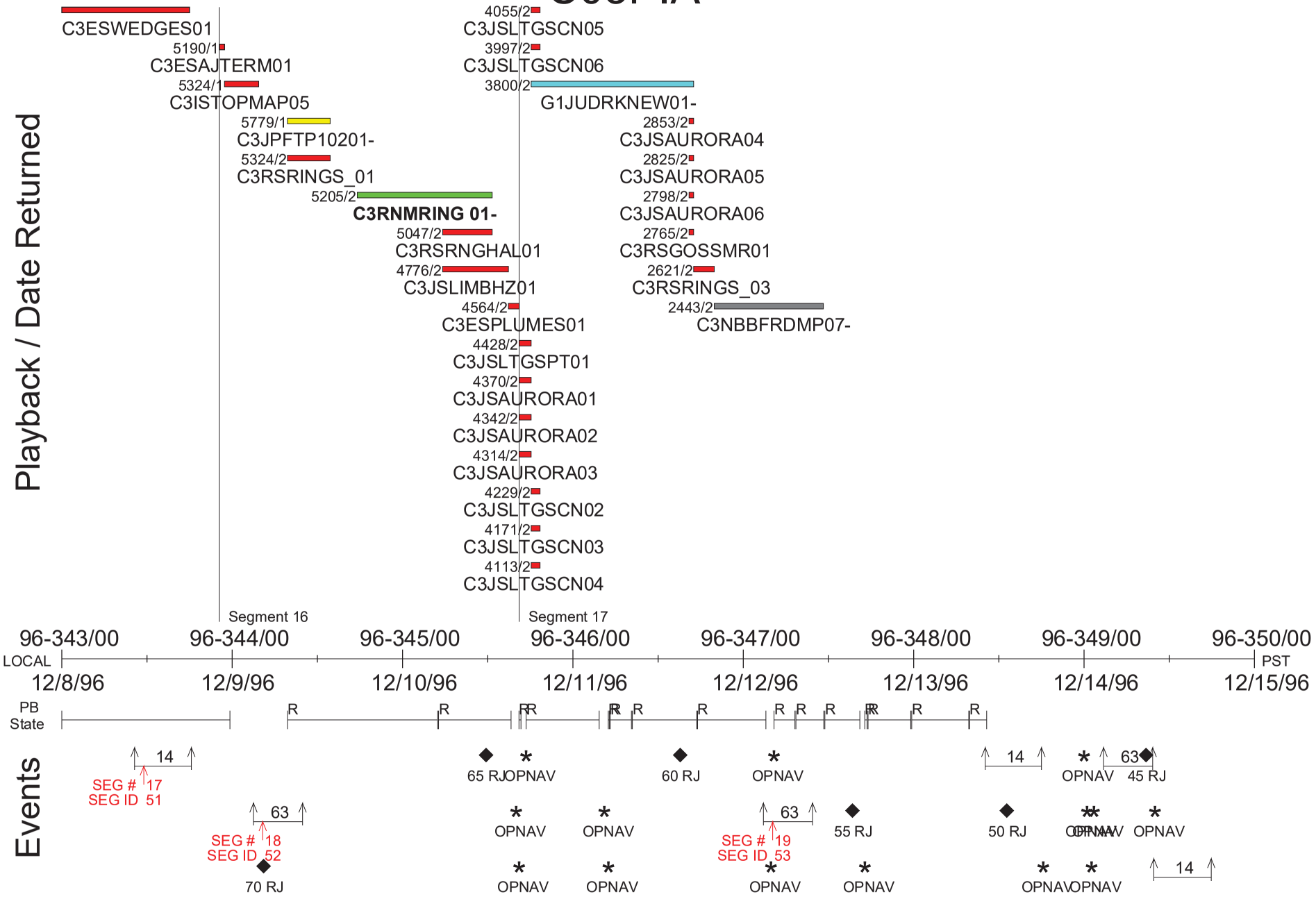
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Segment 17
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12/15/96
PB State
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Events
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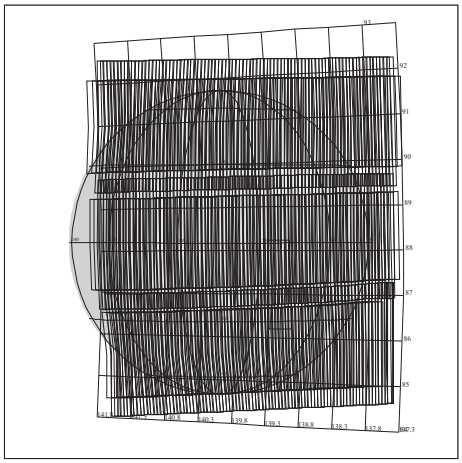

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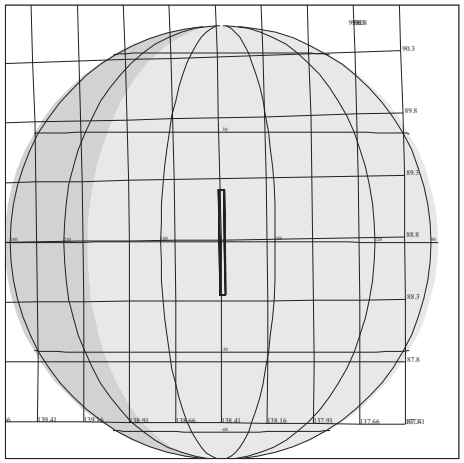

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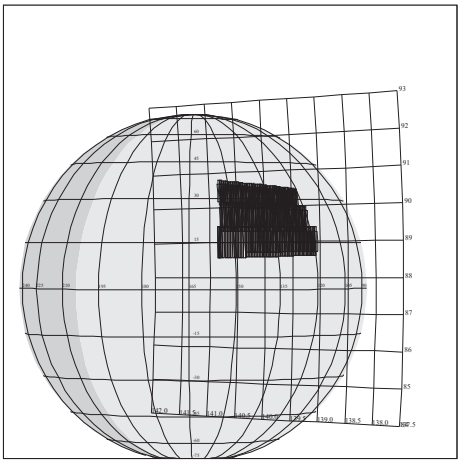

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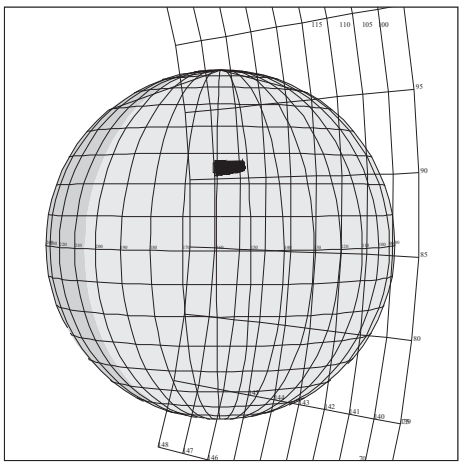

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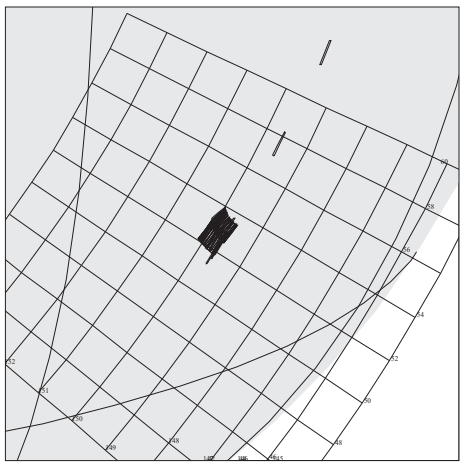

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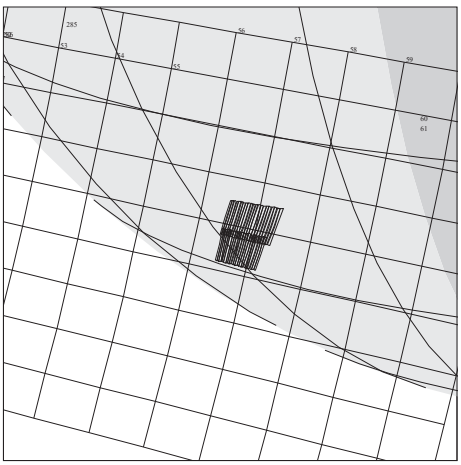

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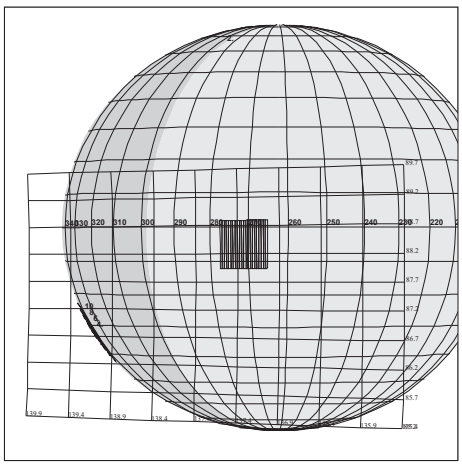

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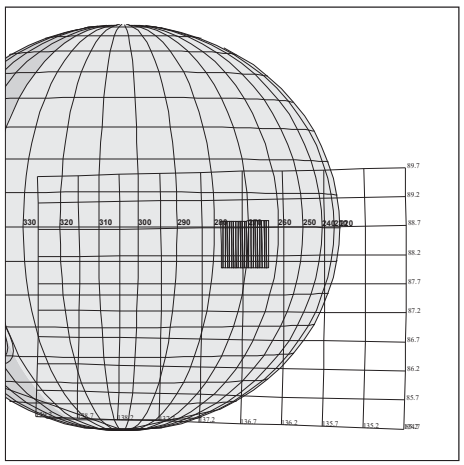

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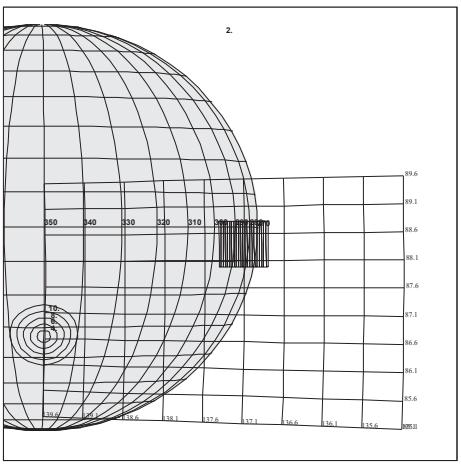

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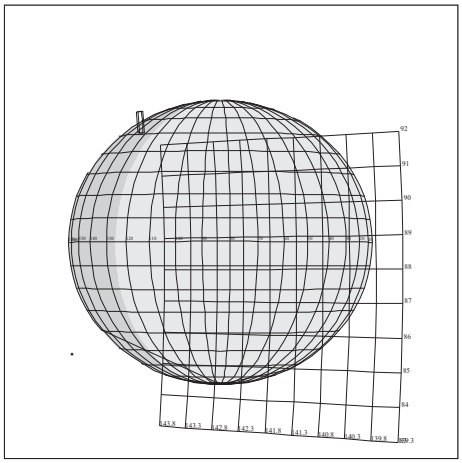

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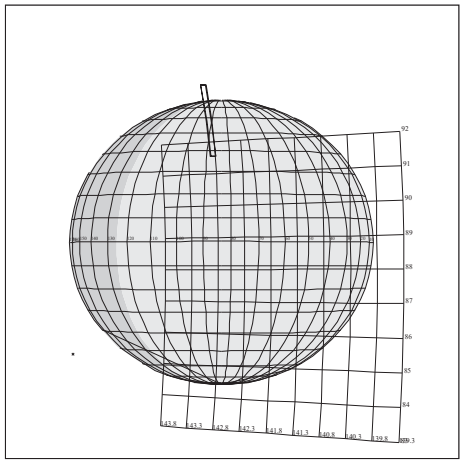

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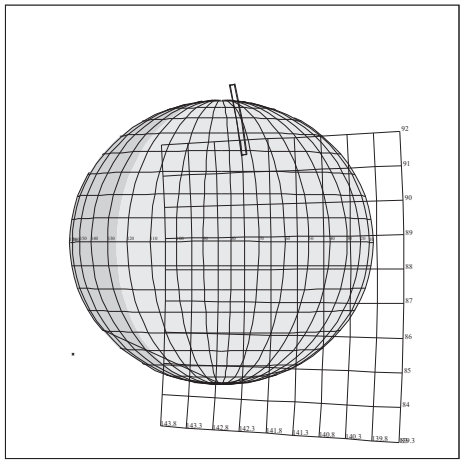

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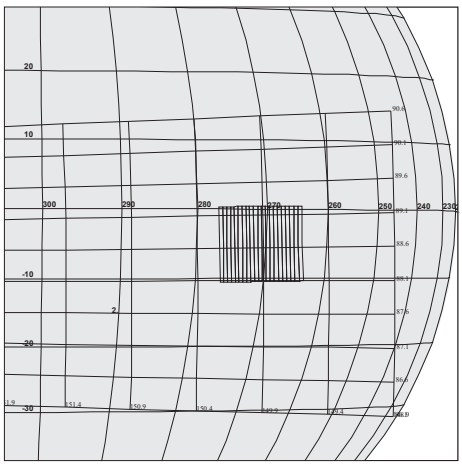

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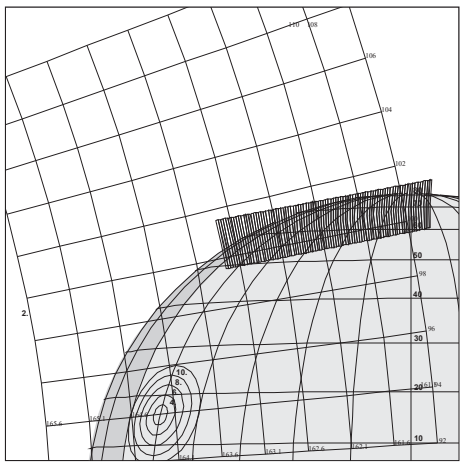

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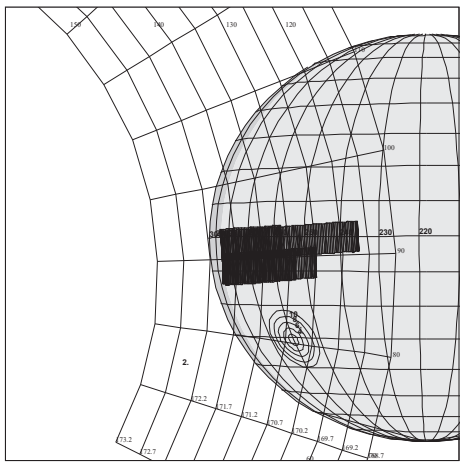

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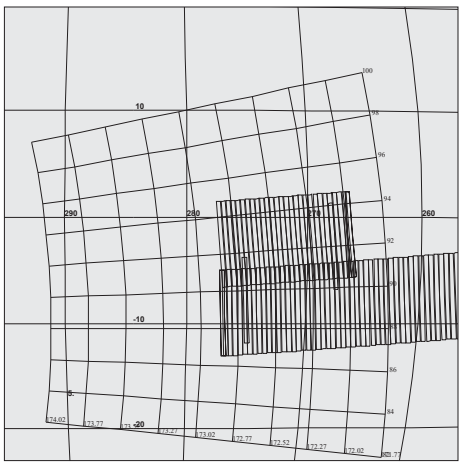

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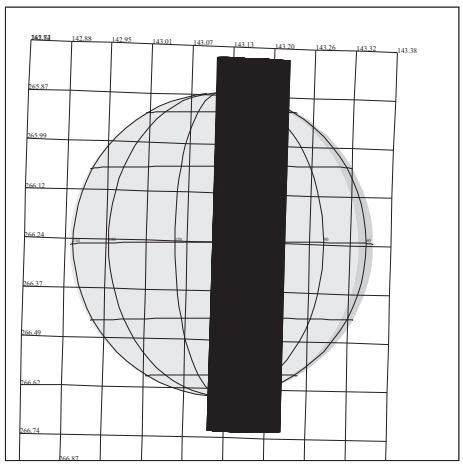

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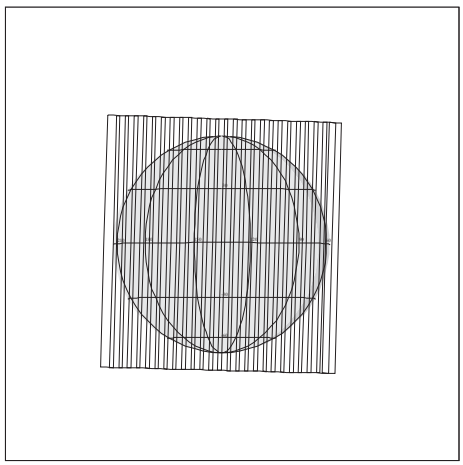

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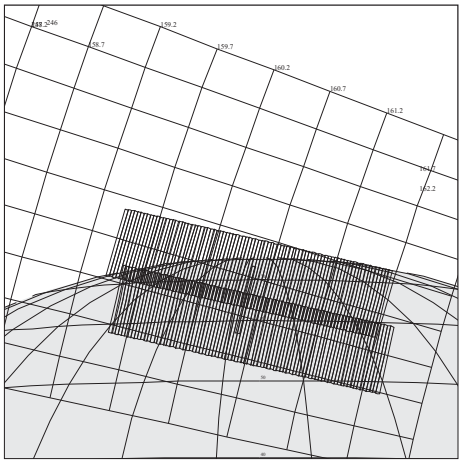

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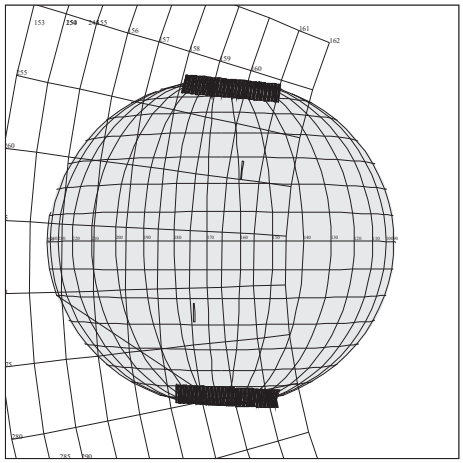

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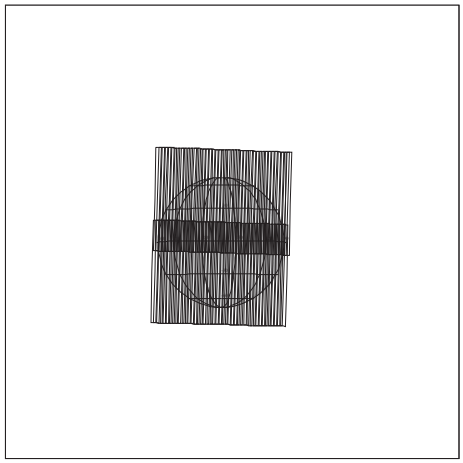

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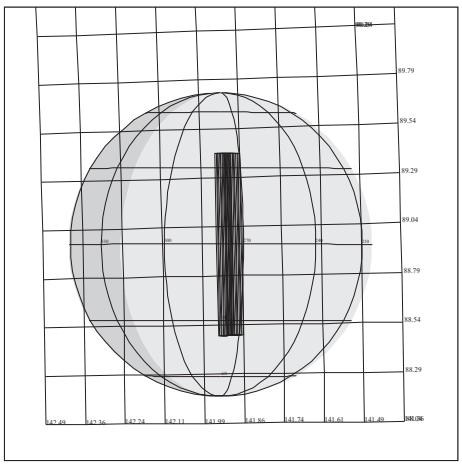

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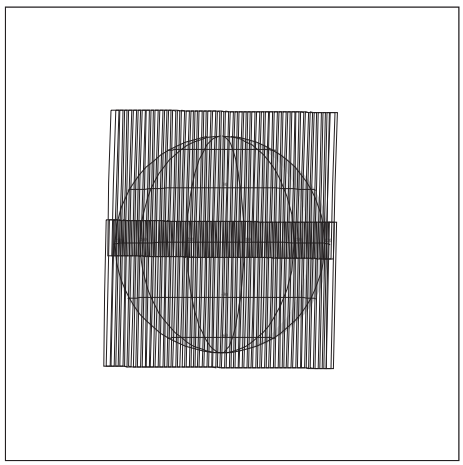

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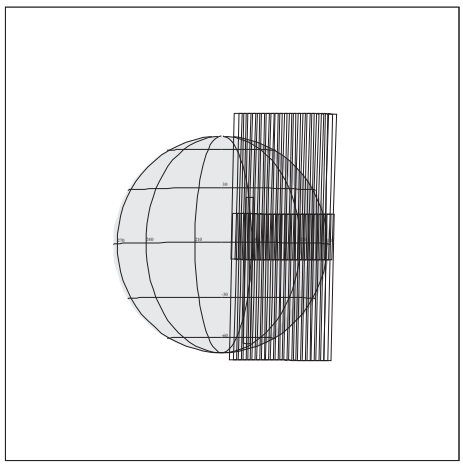

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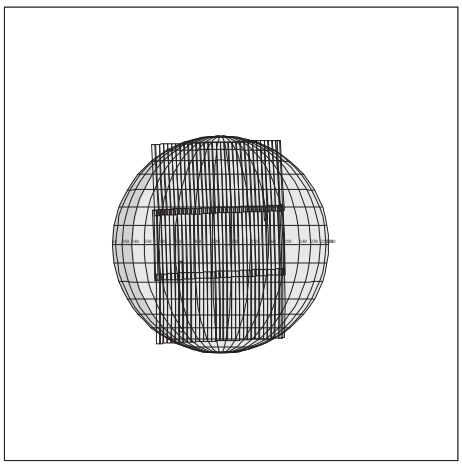

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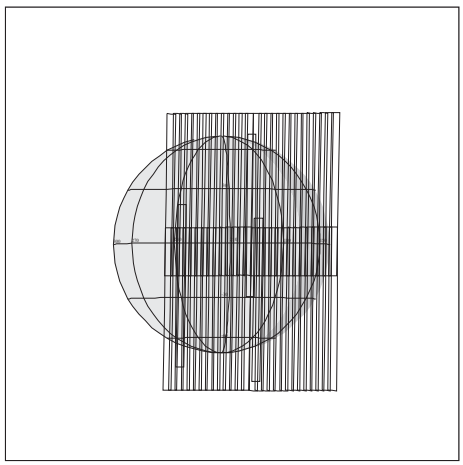

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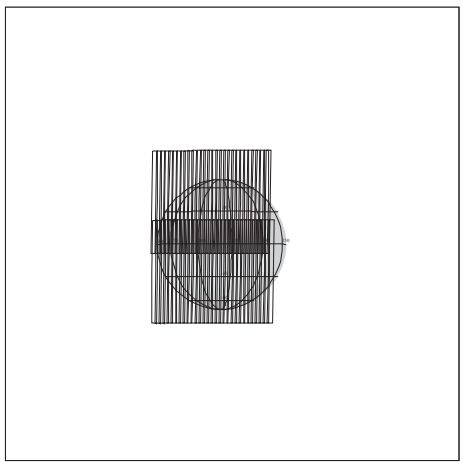

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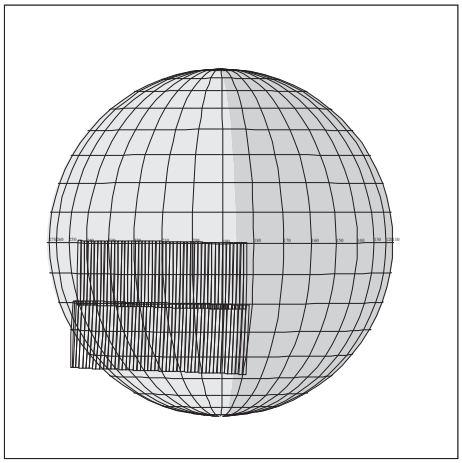

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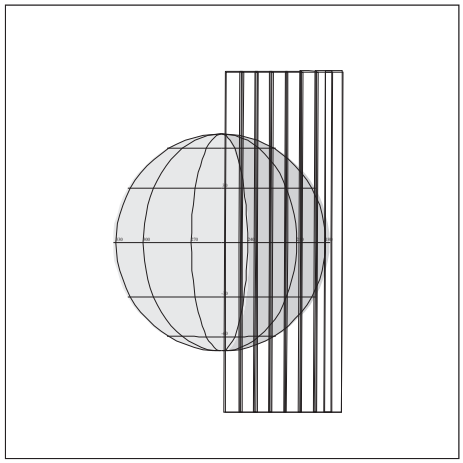

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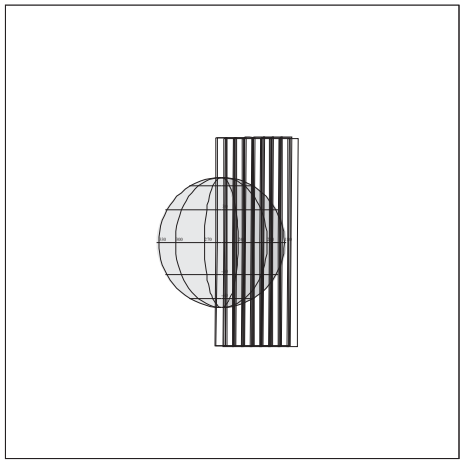

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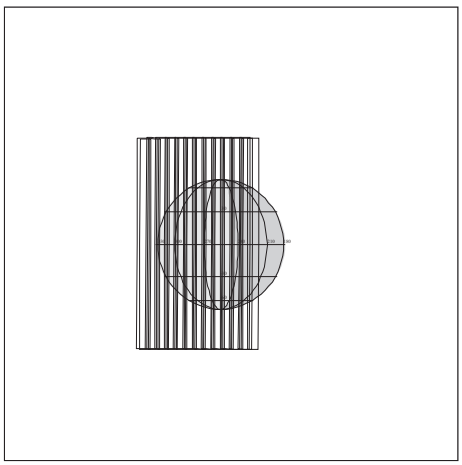

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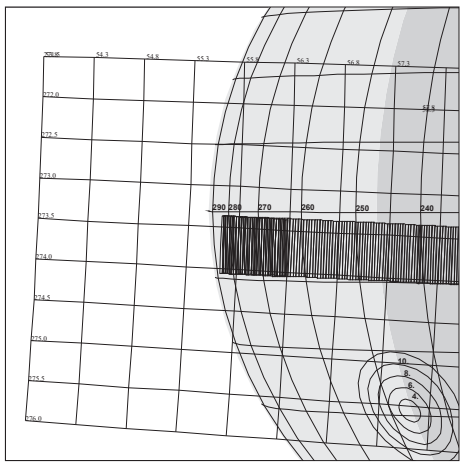

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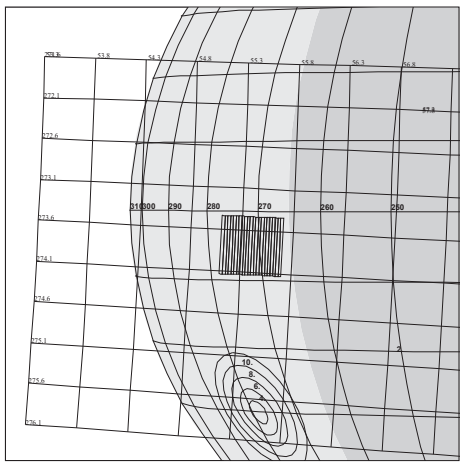

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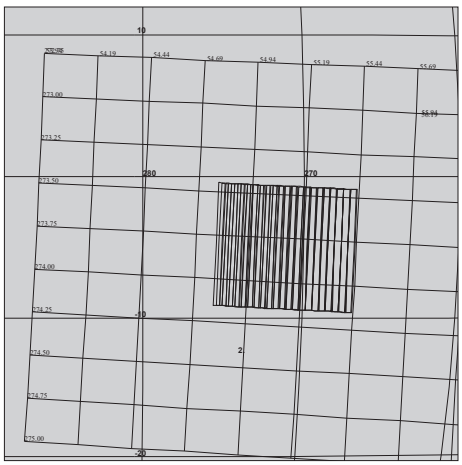

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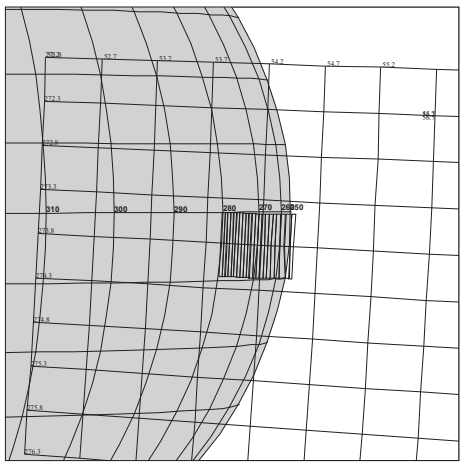

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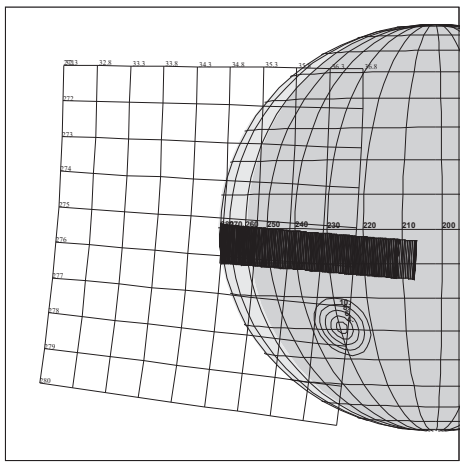

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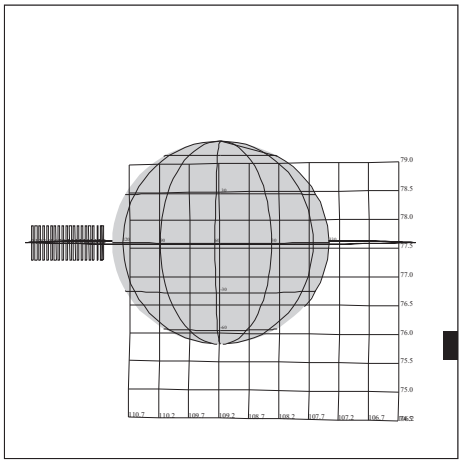

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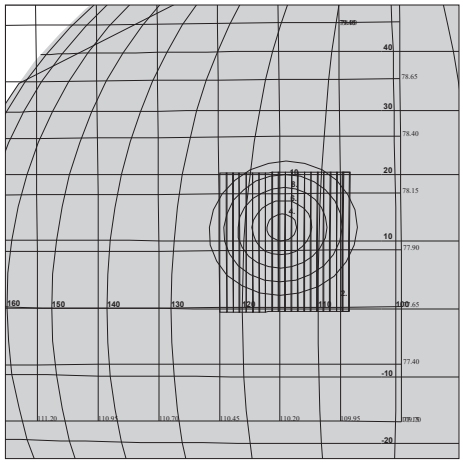

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96-314/05:51:10

Chapter 3 - Orbit Geometries

Contents

Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the C3 Orbit.

The figure on page 3 is a North Trajectory Pole View of the C3 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the C3 Orbit from +/- 5 days of Callisto closest approach.

The figure on page 5 is a North Trajectory Pole View of the C3 Orbit from +/- 1 day of Callisto closest approach.

The figure on page 6 shows the spacecraft's groundtrack on Callisto at Callisto 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 C3 Orbit from +/- 1 hour of Callisto closest approach.

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

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

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

The figure on page 12 shows spacecraft altitude with respect to Europa (km).

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

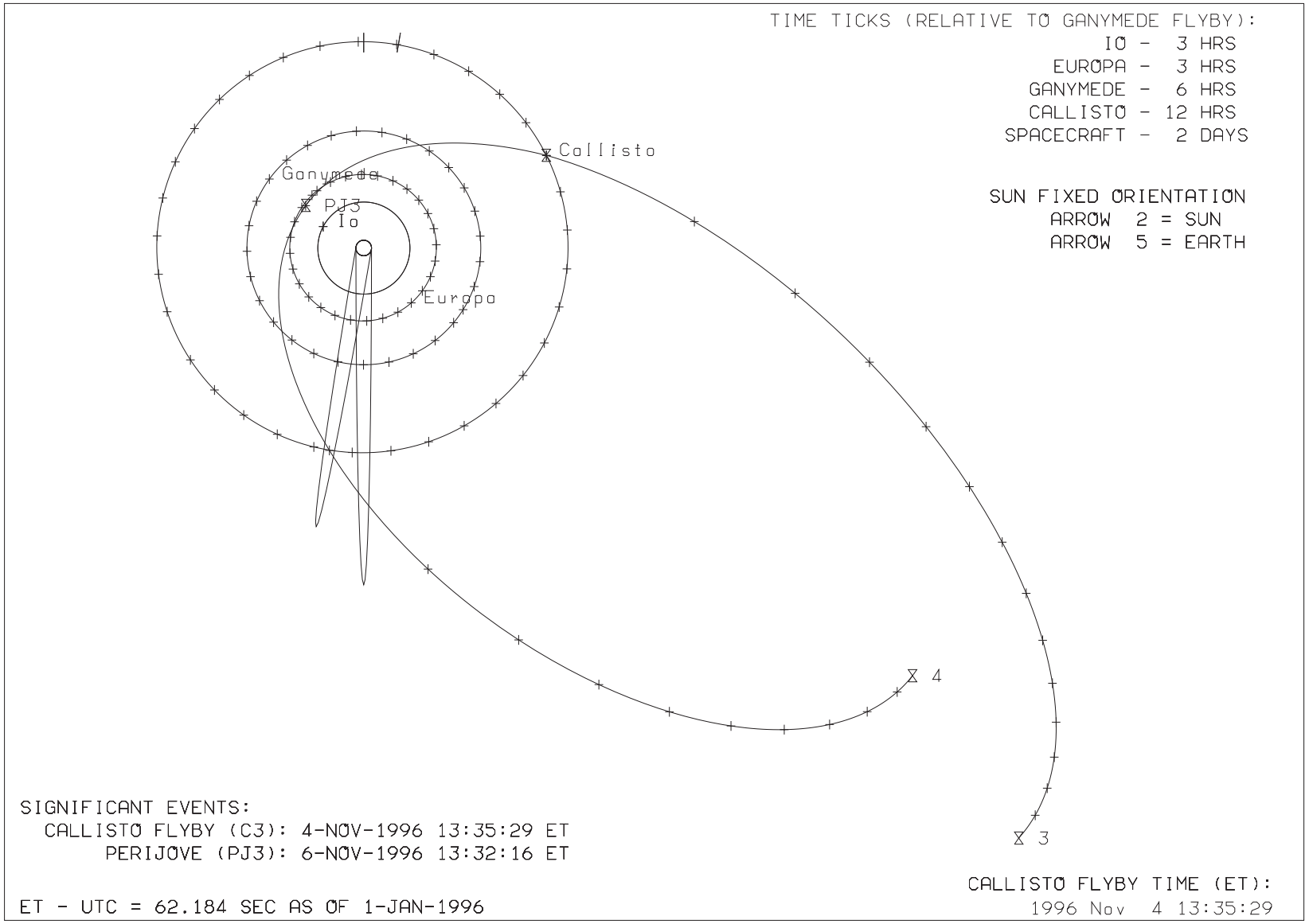
The figure on page 14 shows the Sun-Europa-S/C Angle (deg).

The figure on page 15 shows spacecraft range to Jupiter's center of mass (Rj).

The figure on page 16 shows the cone angle of Jupiter (Earth - S/C - Jupiter, deg).

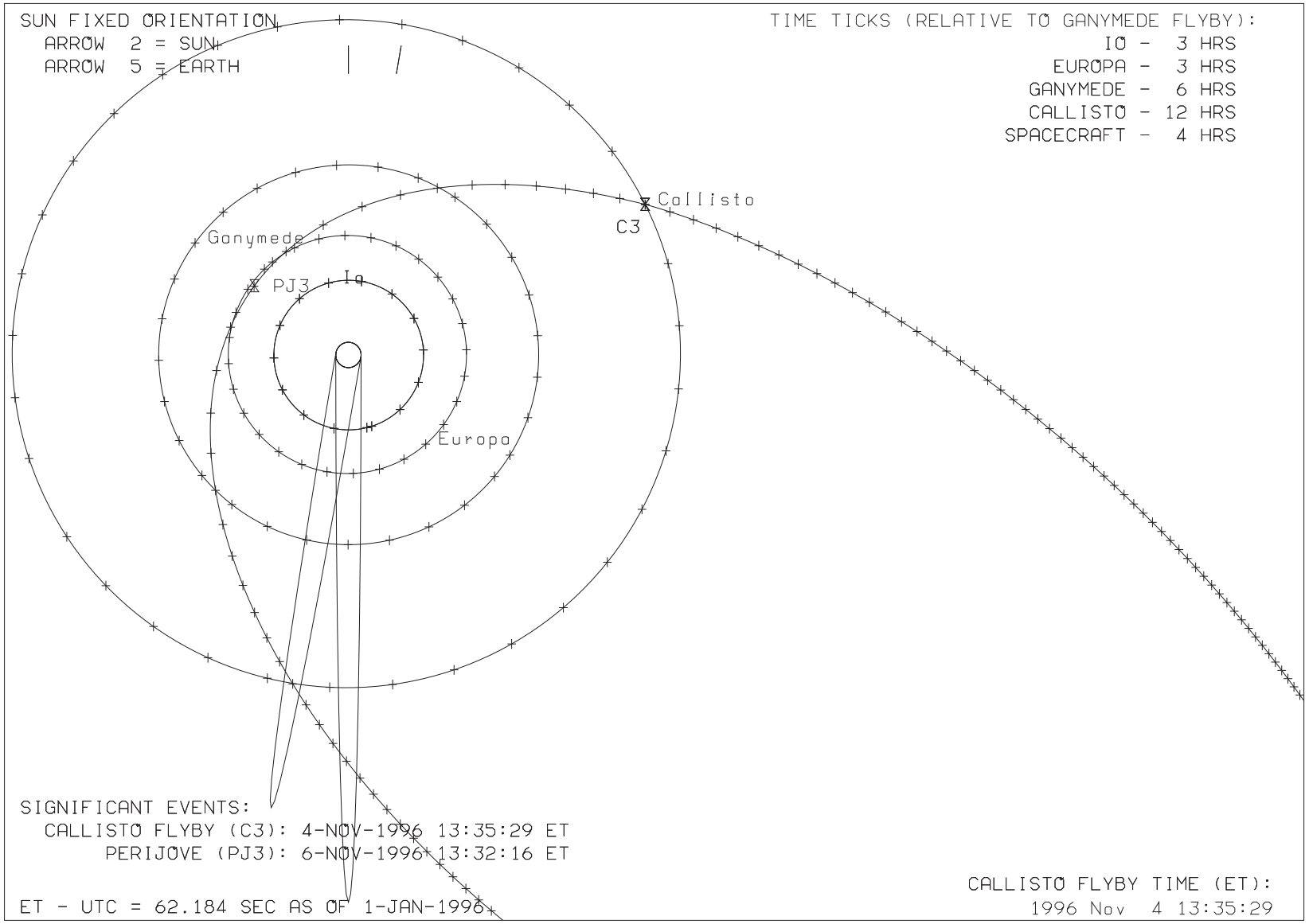
The figure on page 17 shows the Sun-Jupiter-S/C Angle (deg).

Jupiter 3: North Trajectory Pole View (C3 Apo to Apo)



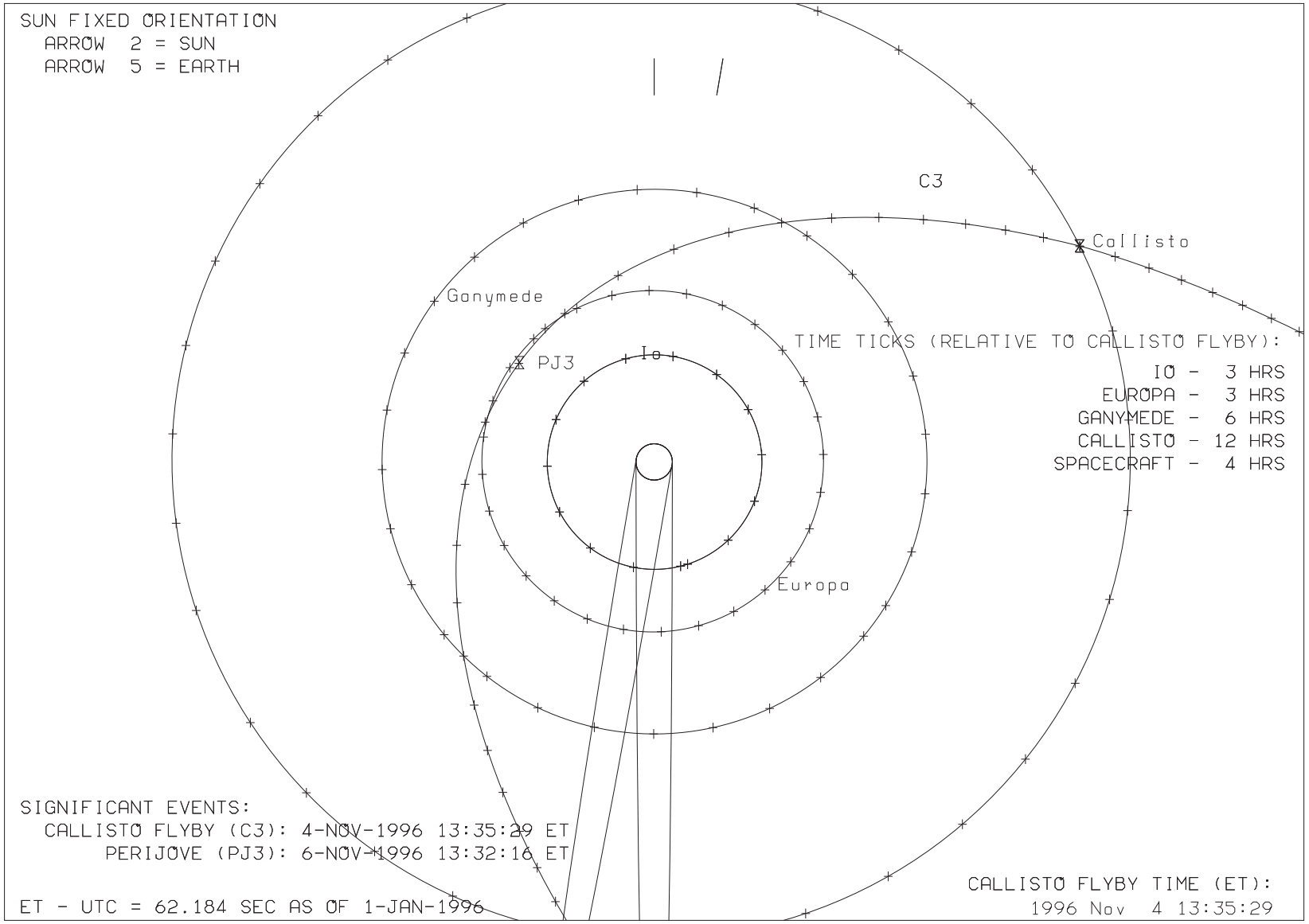
JLB 9/11/96

Jupiter 3: North Trajectory Pole View (C3 +/- 5 days)



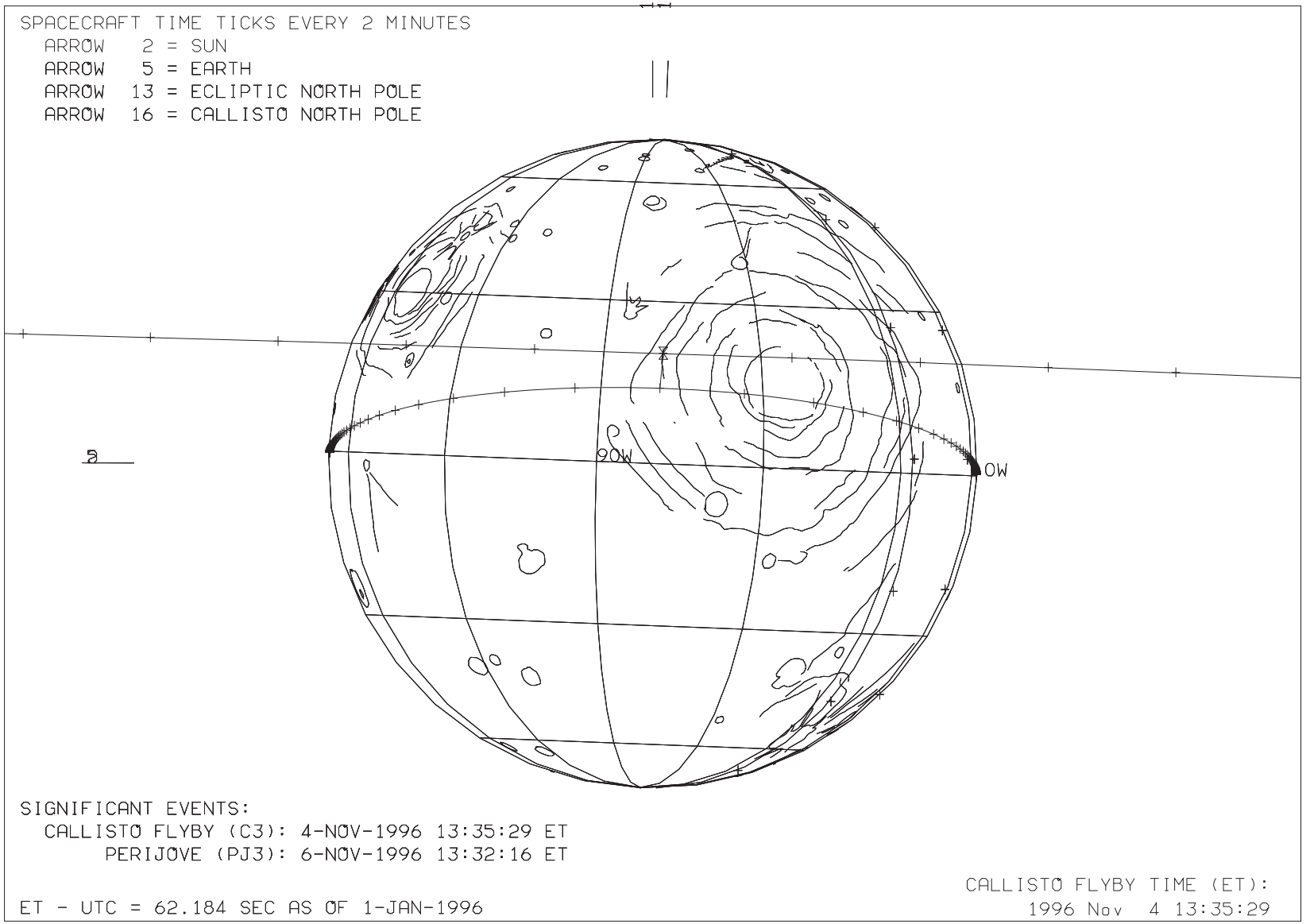
JLB 9/11/96

Jupiter 3: North Trajectory Pole View (C3 +/- 1 day)



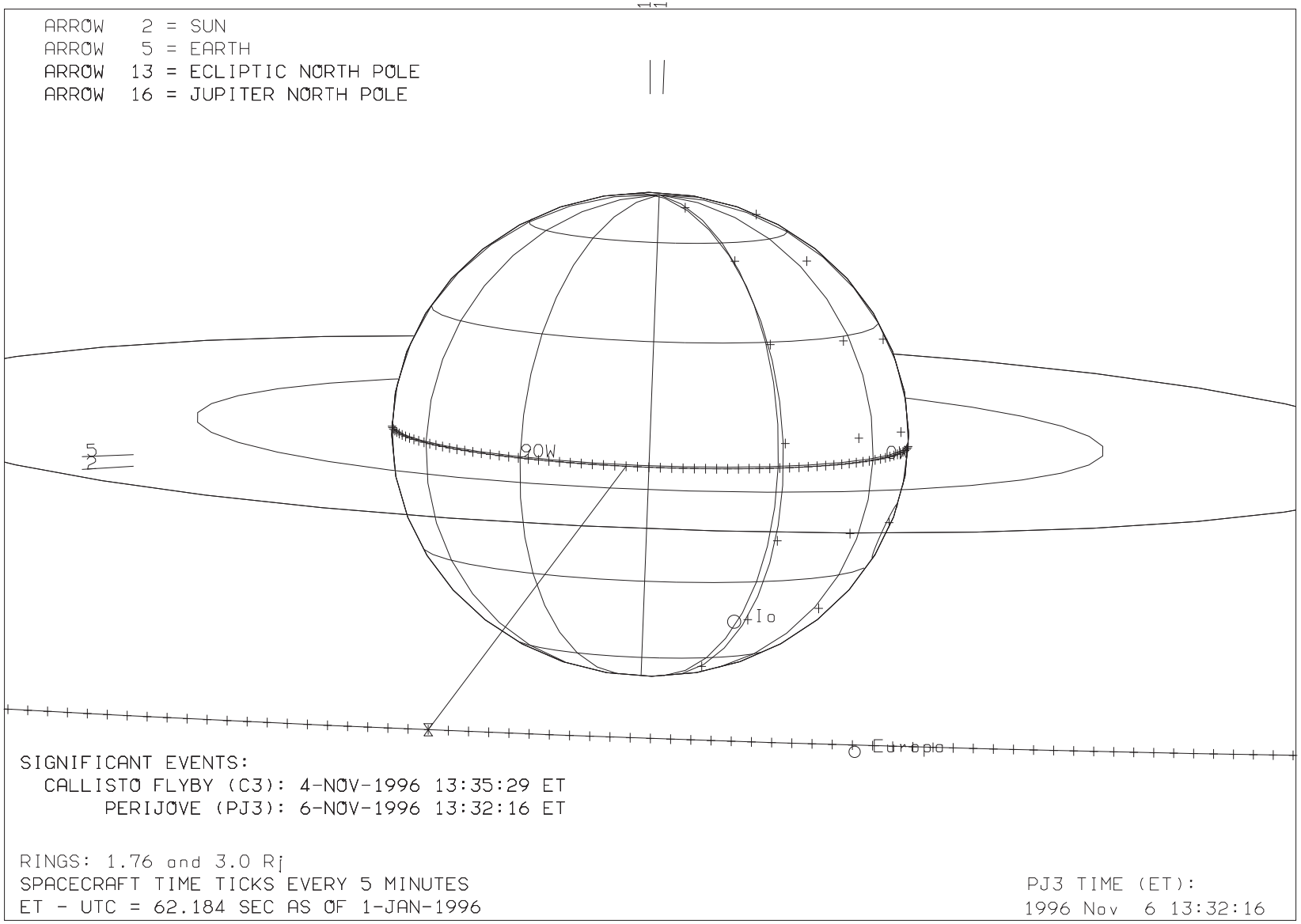
JLB 9/11/96

CALLISTO 3: GROUNDTRACK AT CLOSEST APPROACH



JLB 9/11/96

JUPITER 3: GROUNDTRACK AT CLOSEST APPROACH



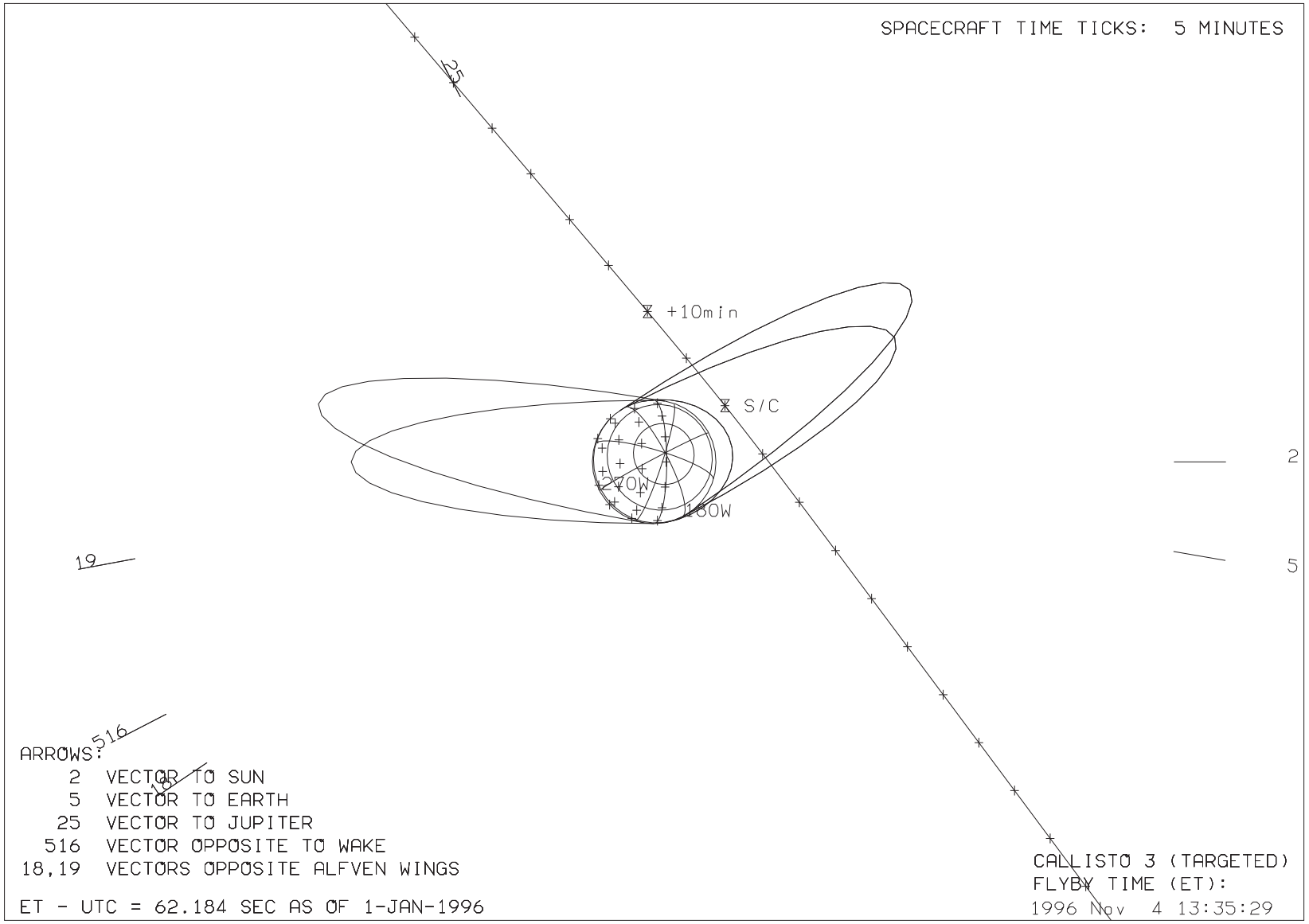
SIGNIFICANT EVENTS:
CALLISTO FLYBY (C3): 4-NOV-1996 13:35:29 ET
PERIJOVE (PJ3): 6-NOV-1996 13:32:16 ET

RINGS: 1.76 and 3.0 Rj
SPACECRAFT TIME TICKS EVERY 5 MINUTES
ET - UTC = 62.184 SEC AS OF 1-JAN-1996

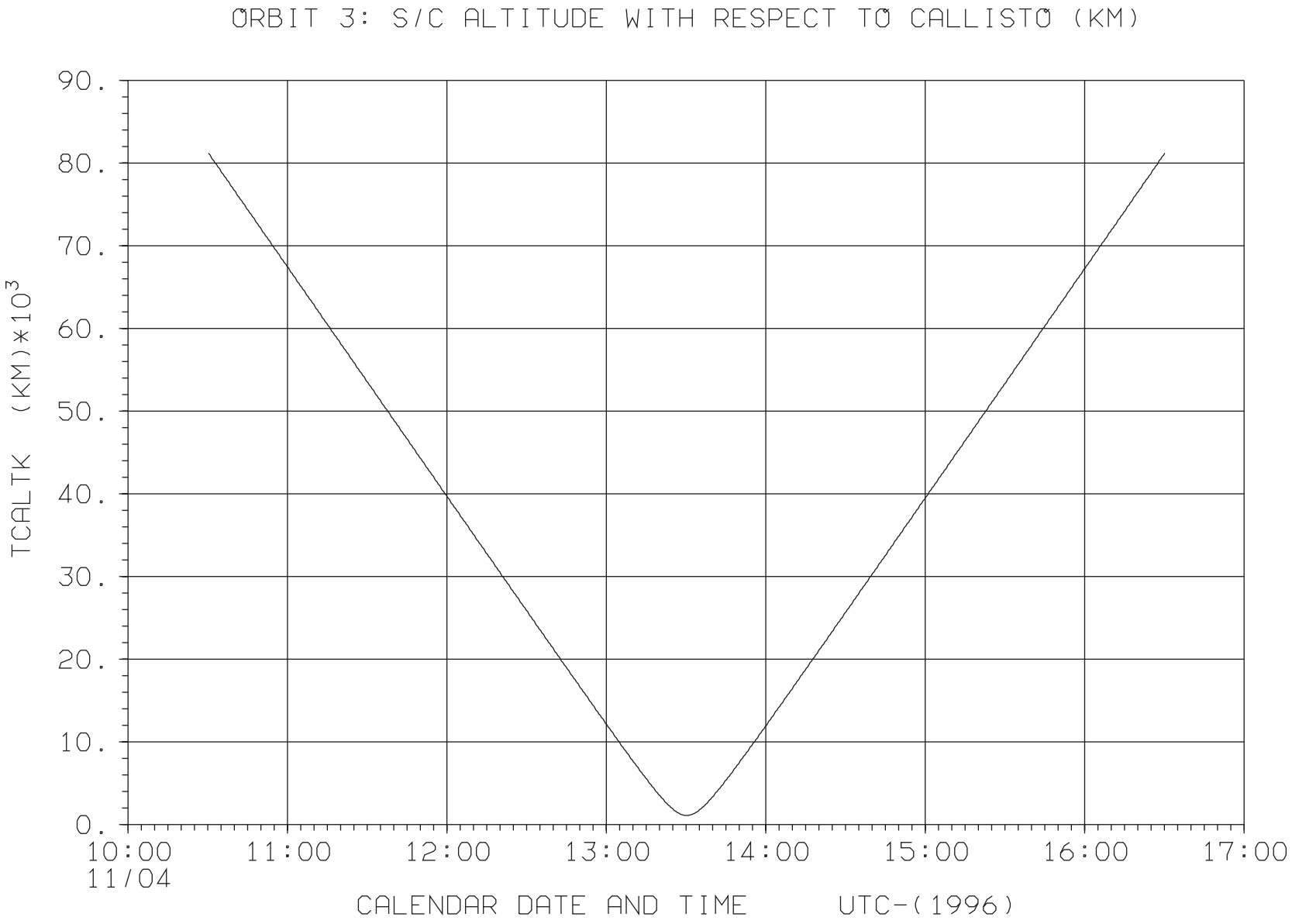
PJ3 TIME (ET):
1996 Nov 6 13:32:16

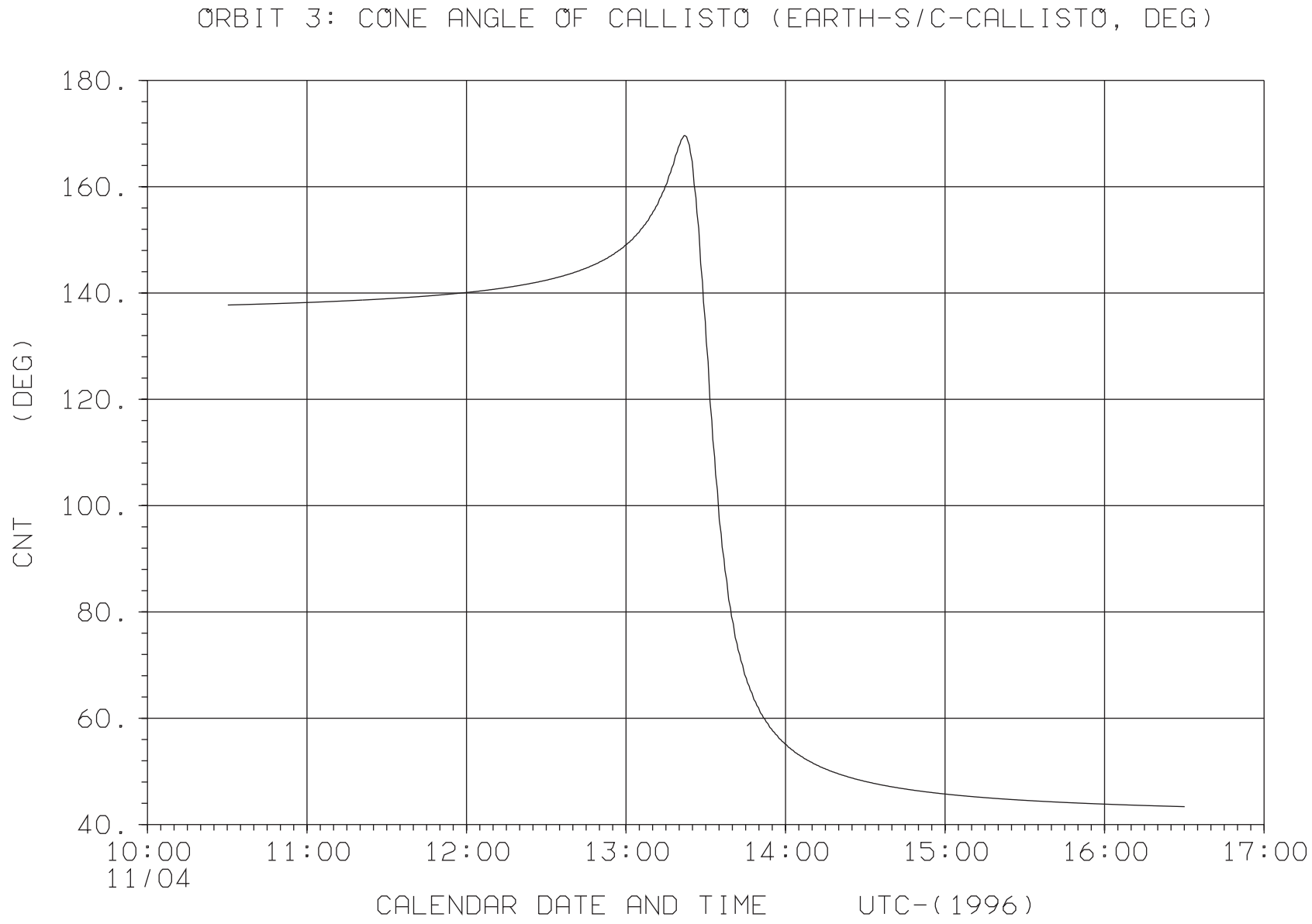
JLB 9/11/96

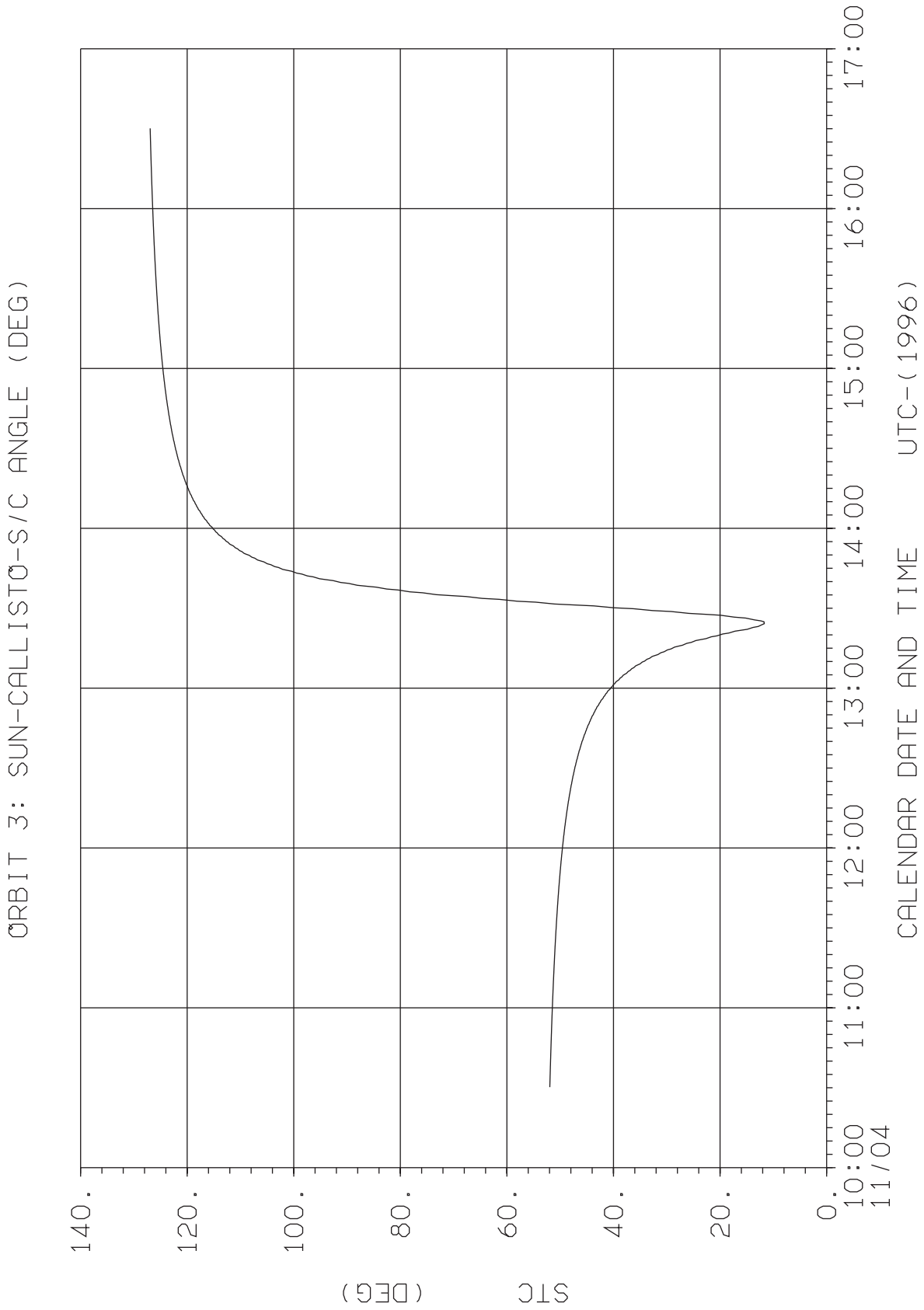
CALLISTO 3: CLOSEST APPROACH (NORTH TRAJECTORY POLE VIEW)

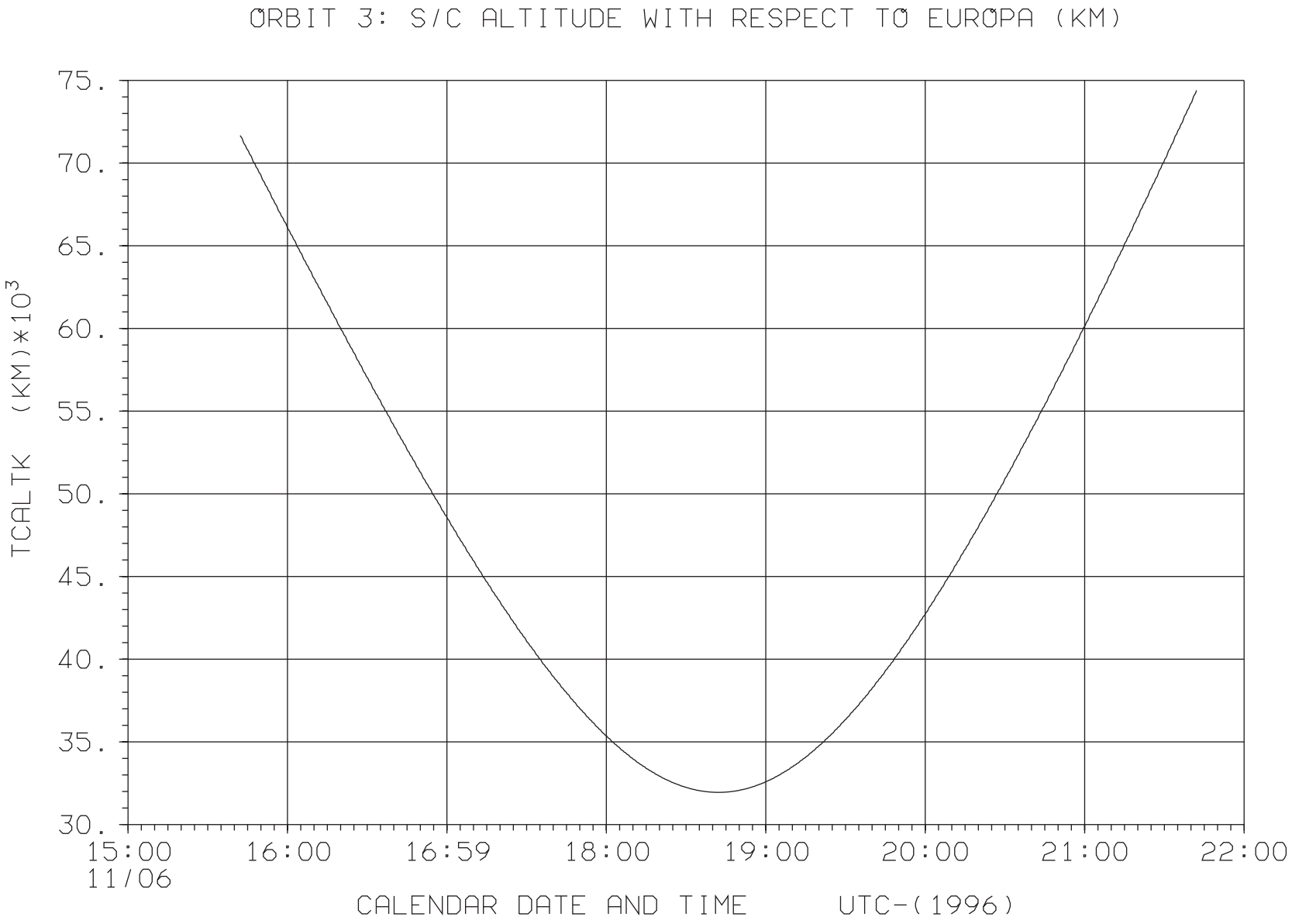


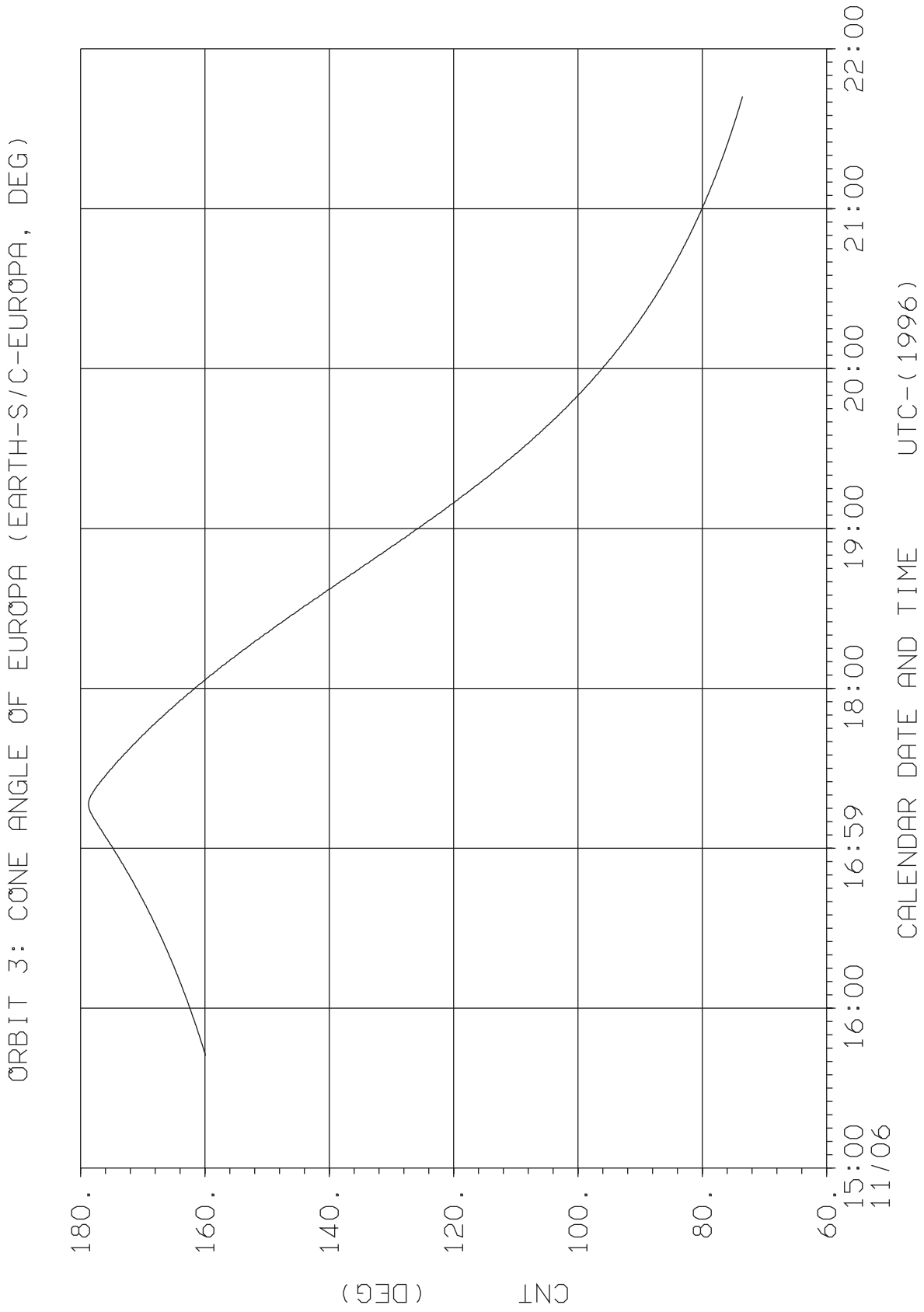
JLB 9/11/96

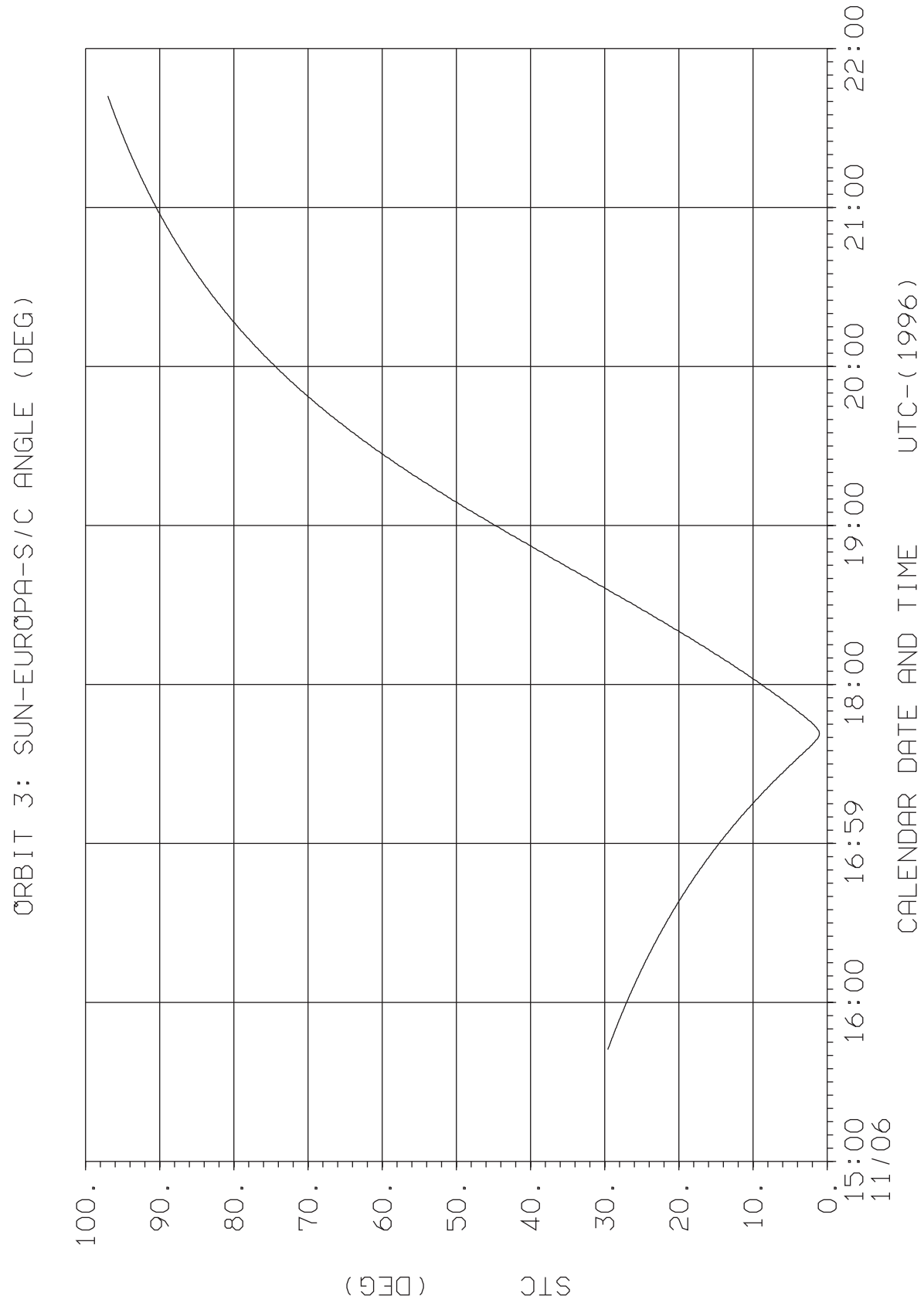

ORBIT 3: S/C ALTITUDE WITH RESPECT TO CALLISTO (KM)
TCALTK (KM)*10^3
90.
80.
70.
60.
50.
40.
30.
20.
10.
0.
10:00
11/04
11:00
12:00
13:00
14:00
15:00
16:00
17:00
CALENDAR DATE AND TIME UTC-(1996)

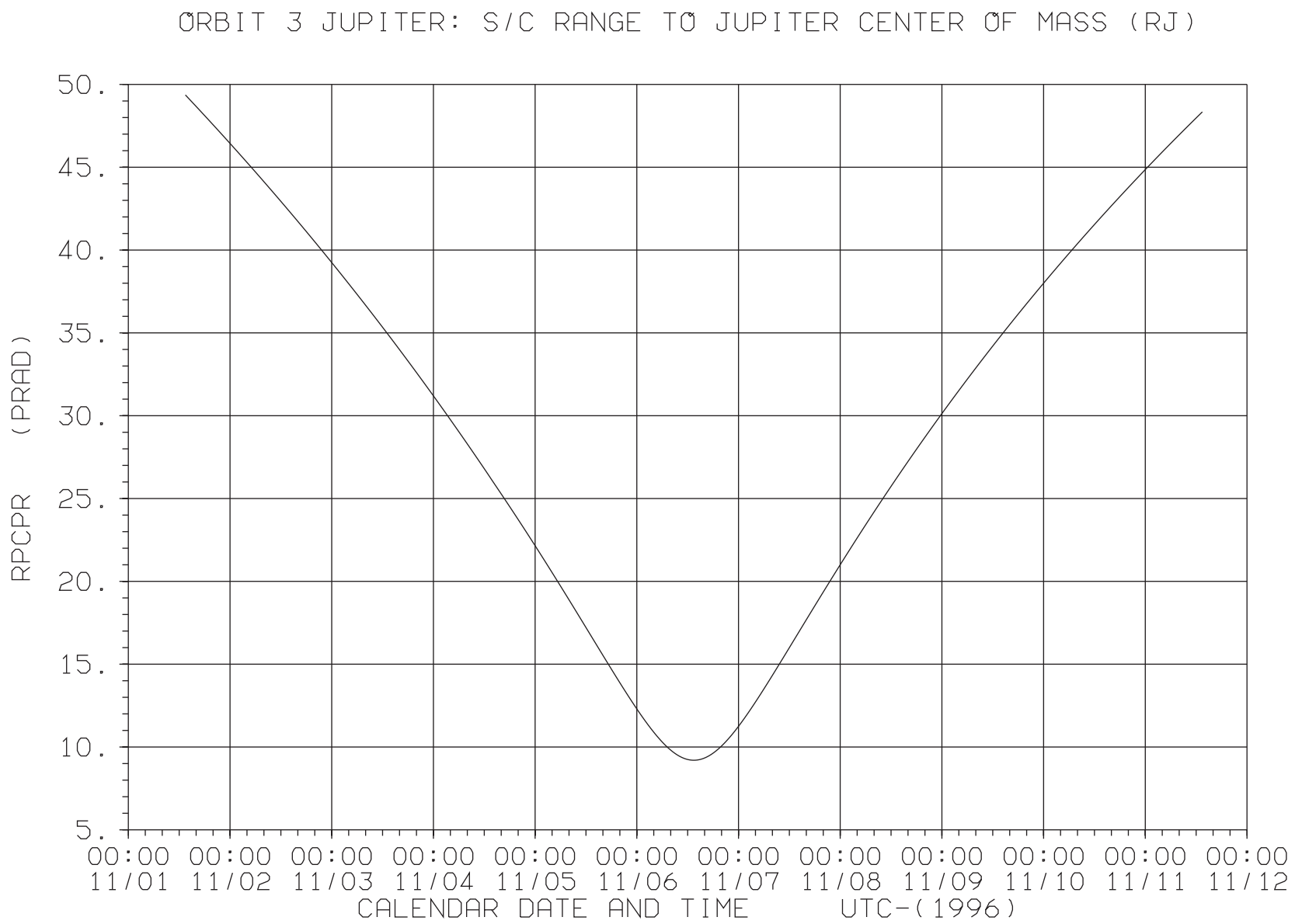

ORBIT 3: CONE ANGLE OF CALLISTO (EARTH-S/C-CALLISTO, DEG)
180.
160.
140.
120.
100.
80.
60.
40.
CNT (DEG)
10:00
11/04
11:00
12:00
13:00
14:00
15:00
16:00
17:00
CALENDAR DATE AND TIME UTC-(1996)

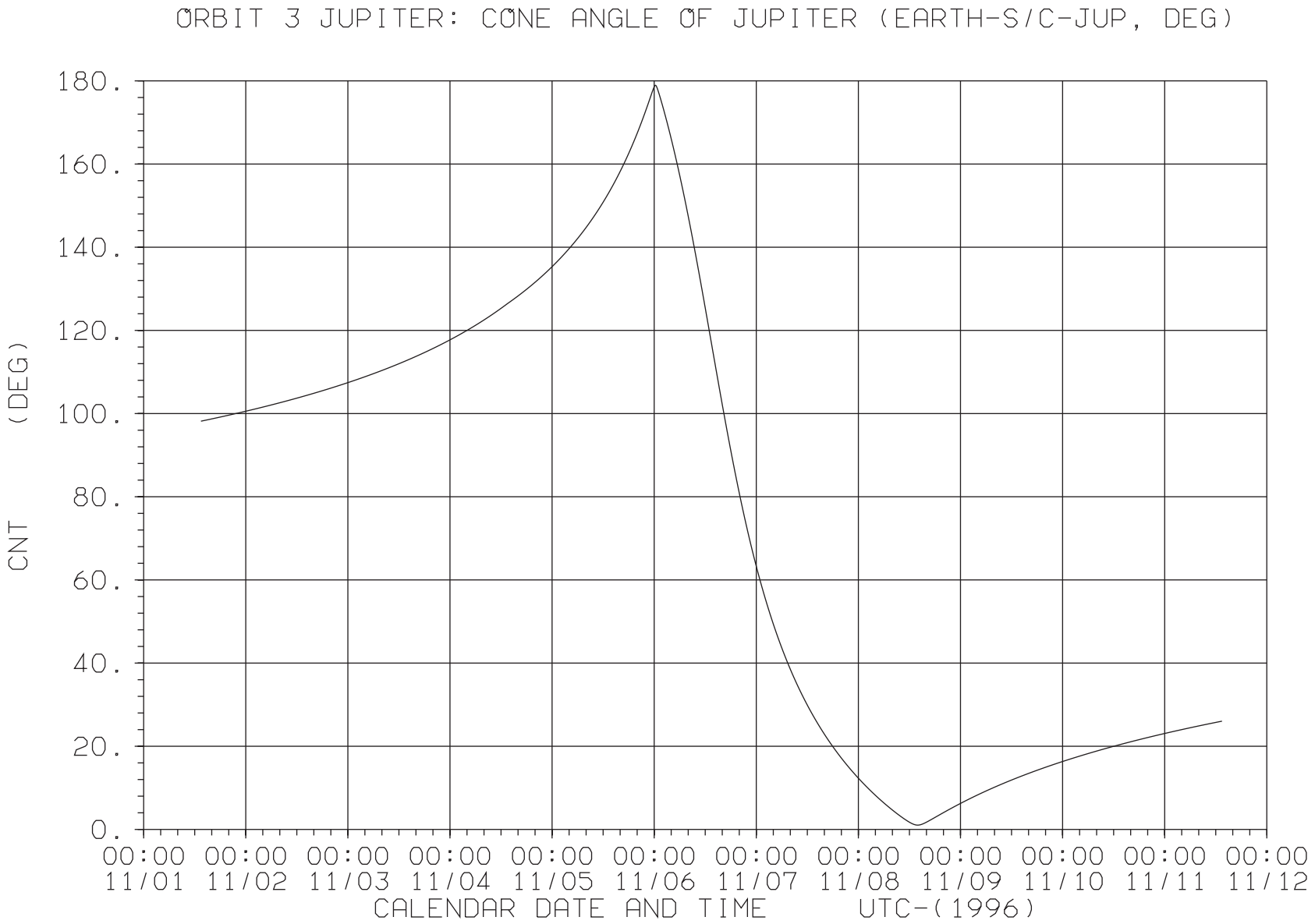

ORBIT 3: SUN-CALLISTO-S/C ANGLE (DEG)
STC (DEG)
140.
120.
100.
80.
60.
40.
20.
0.
10:00
11/04
11:00
12:00
13:00
14:00
15:00
16:00
17:00
CALENDAR DATE AND TIME UTC-(1996)

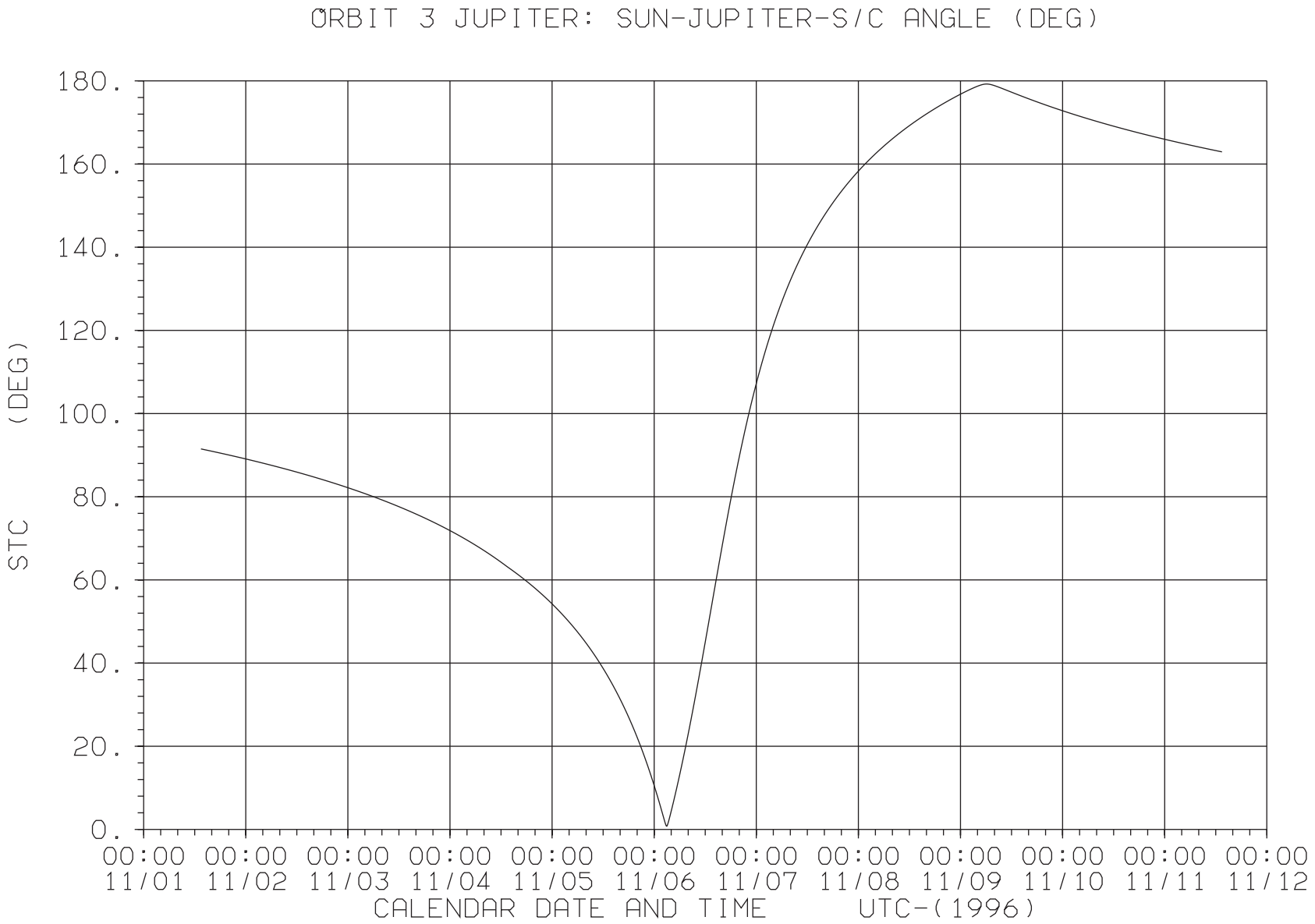

ORBIT 3: S/C ALTITUDE WITH RESPECT TO EUROPA (KM)
TCALTK (KM)*10^3
75.
70.
65.
60.
55.
50.
45.
40.
35.
30.
15:00
11/06
16:00
16:59
18:00
19:00
20:00
21:00
22:00
CALENDAR DATE AND TIME UTC-(1996)


ORBIT 3: CONE ANGLE OF EUROPA (EARTH-S/C-EUROPA, DEG)
180.
160.
140.
120.
100.
80.
60.
CNT (DEG)
15:00
11/06
16:00
16:59
18:00
19:00
20:00
21:00
22:00
CALENDAR DATE AND TIME UTC-(1996)


ORBIT 3: SUN-EUROPA-S/C ANGLE (DEG)
STC (DEG)
100.
90.
80.
70.
60.
50.
40.
30.
20.
10.
0.
15:00
11/06
16:00
16:59
18:00
19:00
20:00
21:00
22:00
CALENDAR DATE AND TIME UTC-(1996)


ORBIT 3 JUPITER: S/C RANGE TO JUPITER CENTER OF MASS (RJ)
RPCPR (PRAD)
50.
45.
40.
35.
30.
25.
20.
15.
10.
5.
00:00 11/01
00:00 11/02
00:00 11/03
00:00 11/04
00:00 11/05
00:00 11/06
00:00 11/07
00:00 11/08
00:00 11/09
00:00 11/10
00:00 11/11
00:00 11/12
CALENDAR DATE AND TIME UTC-(1996)


ORBIT 3 JUPITER: CONE ANGLE OF JUPITER (EARTH-S/C-JUP, DEG)
CNT (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
00:00 11/01
00:00 11/02
00:00 11/03
00:00 11/04
00:00 11/05
00:00 11/06
00:00 11/07
00:00 11/08
00:00 11/09
00:00 11/10
00:00 11/11
00:00 11/12
CALENDAR DATE AND TIME UTC-(1996)


ORBIT 3 JUPITER: SUN-JUPITER-S/C ANGLE (DEG)
STC (DEG)
180.
160.
140.
120.
100.
80.
60.
40.
20.
0.
00:00 11/01
00:00 11/02
00:00 11/03
00:00 11/04
00:00 11/05
00:00 11/06
00:00 11/07
00:00 11/08
00:00 11/09
00:00 11/10
00:00 11/11
00:00 11/12
CALENDAR DATE AND TIME UTC-(1996)

Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS C3 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 C3 Sequence. The information in this summary is derived from the C3 SEFs (Spacecraft Event File) and PBTs (Playback Tables) with inputs from the NIMS Science Coordinators regarding the start time and duration of the NIMS observations. There are twelve columns of information in this table:

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

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

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

The NIMS Obstab (Observation Table) is a time-ordered listing of the NIMS obsrvation parameters for use by downlink data processing of the NIMS C3 data. It is also derived from the C3 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

			Sequence:	C03A1-AR		Created: 11/20/96	Begin: 96-307/16:00:00 Finish: 96-311/03:21:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	96	307	15:59:59.800		DMS:	: READY	RDY, TRACK 1, FWD, TIC 2238.00 +/-	4O0	4	0	3,680,468:88:0
2	**96**	**307**	**16:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,680,468:88:3**
3	**96**	**307**	**16:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,680,468:88:3**
4	**96**	**307**	**16:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,680,468:88:3**
5	**96**	**307**	**16:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,680,468:88:3**
6	**96**	**307**	**16:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,680,468:88:3**
7	**96**	**307**	**16:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,680,468:88:3**
8	**96**	**307**	**16:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,680,468:88:3**
9	**96**	**307**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,680,468:88:3**
10	**96**	**307**	**16:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,680,468:88:3**
11	96	307	16:02:00.466	20OA6A	6HICON			4O0	4	0	3,680,470:87:0
12	**96**	**307**	**16:02:01.800**	**432KA6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4O0**	**4**	**0**	**3,680,470:89:0**
13	96	307	16:02:02.466	432KA431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,680,470:90:0
14	96	307	16:02:03.133	432KA6B	6RTSL1		R/T Select of DDS and	4O0	4	0	3,680,471:00:0
15	**96**	**307**	**16:02:03.133**	**432KA6C**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**4O0**	**4**	**0**	**3,680,471:00:0**
16	96	307	16:02:04.466	488AA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,680,471:02:0
17	96	307	16:09:59.800	41SA99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	3,680,478:78:0
18	**96**	**307**	**16:10:03.800**	**41SA3K**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,680,478:84:0**
19	**96**	**307**	**16:10:13.800**	**41SA3L**	**37F2PR**		**2 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,680,479:08:0**
20	**96**	**307**	**16:10:23.800**	**41SA3A**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,680,479:23:0**
21	**96**	**307**	**16:10:33.800**	**41SA3B**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,680,479:38:0**
22	**96**	**307**	**16:10:43.800**	**41SA3C**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,680,479:53:0**
23	**96**	**307**	**16:10:53.800**	**41SA3D**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,680,479:68:0**
24	96	307	16:46:00.466	444UA443A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,680,514:43:0
25	96	307	18:16:28.466	488AA6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,680,603:86:0
26	96	307	18:52:18.466	488AA6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,680,639:35:0
27	96	307	19:34:37.133	488AA6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,680,681:21:0
28	96	307	20:30:52.466	488AA6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,680,736:79:0
29	96	307	20:45:39.800	488AB6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,680,751:45:0
30	96	307	21:22:27.800	488AB6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,680,787:81:0
31	**96**	**307**	**21:57:01.000**	**C3NNCHOPON01-**		**-----START------**		**4O0**	**4**	**0**	**: :**
32	96	307	21:57:53.133	125FA	NIMSINIT	GS	##### GROUP START INIT	4O0	4	0	3,680,822:84:0
33	**96**	**307**	**21:57:53.133**	**125FA4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,680,822:84:0**
34	**96**	**307**	**21:58:53.800**	**125FA4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**4R0**	**4**	**0**	**3,680,823:84:0**
35	96	307	21:59:54.466	125FA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,680,824:84:0
36	**96**	**307**	**21:59:54.466**	**125FA4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,680,824:84:0**
37	96	307	22:00:00.466	488AB6C	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	4R0	4	0	3,680,825:02:0
38	**96**	**307**	**22:03:05.000**	**C3NNCHOPON01-**		**-----STOP-------**		**4R0**	**4**	**0**	**: :**
39	96	307	22:55:56.466	488AB6D	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4R0	4	0	3,680,880:31:0
40	96	307	23:27:56.466	488AB6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4R0	4	0	3,680,911:90:0
41	96	307	23:59:56.466	488AC6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R0	4	0	3,680,943:58:0
42	96	308	00:59:40.466	488AC6B	6TMSED	NORM,EL7	Sci, Eng, and D/L Chan	4R0	4	0	3,681,002:65:0
43	96	308	01:59:59.800	488AC6C	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	4R0	4	0	3,681,062:34:0
44	96	308	02:13:45.133	165AB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,681,075:89:0
45	96	308	02:13:45.800	165AB4B	7SCAN	NORM,208.396,-14	Check S/P Position	4R0	4	0	3,681,075:90:0
46	96	308	02:44:05.133	165AC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,681,105:89:0
47	96	308	02:44:05.800	165AC4B	7SCAN	NORM,208.019999,	Check S/P Position	4R0	4	0	3,681,105:90:0
48	96	308	03:07:40.466	488AC6D	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	4R0	4	0	3,681,129:28:0
49	96	308	03:54:51.800	165BA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,681,175:89:0
50	96	308	03:54:52.466	165BA4B	7SCAN	NORM,201.125999,	Check S/P Position	4R0	4	0	3,681,175:90:0
51	96	308	03:59:56.466		DMS:	: READY	RDY, TRACK *2, *REV, TIC 2238.00 +/-	4R0	4	0	3,681,181:00:0
52	96	308	03:59:56.466	465KD6A	6DMSC	RDY,2	DMS Control Tape stop	4R0	4	0	3,681,181:00:0
53	96	308	04:21:54.466	488AC6E	6TMSED	FILL,GL6	Sci, Eng, and D/L Chan	4R0	4	0	3,681,202:66:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	308	04:35:33.800	488AD6A	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	4R0	4	0	3,681,216	21:0
55	96	308	05:59:59.800	488AD6B	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R0	4	0	3,681,299	67:0
56	96	308	09:02:14.466	165BB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,681,479	89:0
57	96	308	09:02:15.133	165BB4B	7SCAN	NORM,203.012999,	Check S/P Position	4R0	4	0	3,681,479	90:0
58	96	308	09:46:36.466	488AD6C	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4R0	4	0	3,681,523	78:0
59	96	308	09:59:59.800	488AD6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R0	4	0	3,681,537	09:0
60	96	308	11:22:06.466	488AE6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R0	4	0	3,681,618	28:0
61	96	308	11:26:52.466	488AE6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R0	4	0	3,681,623	02:0
62	96	308	12:03:08.466	488AE6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R0	4	0	3,681,658	81:0
63	96	308	12:44:33.133	488AE6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R0	4	0	3,681,699	77:0
64	96	308	13:29:29.133	488AE6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R0	4	0	3,681,744	26:0
65	96	308	14:15:42.466	192GA4A	**7CONE**	**17.4,0.0**	Check S/P Position	4R0	4	0	3,681,790	00:0
66	96	308	14:20:29.133	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R0	4	0	3,681,794	66:0
67	96	308	14:21:55.800	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R0	4	0	3,681,796	14:0
68	96	308	14:21:57.800		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2238.00 +/-	4R0	4	0	3,681,796	17:0
69	96	308	14:21:57.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R0	4	0	3,681,796	17:0
70	96	308	14:22:07.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2239.17 +/-	4R0	4	0	3,681,796	32:0
71	96	308	14:22:15.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2237.29 +/-	4R0	4	0	3,681,796	44:0
72	96	308	14:22:15.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R0	4	0	3,681,796	44:0
73	96	308	14:22:17.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2237.23 +/-	4R0	4	0	3,681,796	46:1
74	96	308	14:26:46.466	488AF6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R0	4	0	3,681,800	86:0
75	96	308	14:59:11.133	411JA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R0	4	0	3,681,833	00:0
76	96	308	14:59:11.133		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2237.23 +/-	4R0	4	0	3,681,833	00:0
77	96	308	14:59:20.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2238.51 +/-	4R0	4	0	3,681,833	14:3
78	96	308	14:59:21.133	411JA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R0	4	0	3,681,833	15:0
79	96	308	15:01:22.466	411JA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R0	4	0	3,681,835	15:0
80	96	308	15:01:25.133	175TL176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R0	4	0	3,681,835	19:0
81	96	308	15:01:25.800	175TL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R0	4	0	3,681,835	20:0
82	96	308	15:01:32.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2207.62 +/-	4R0	4	0	3,681,835	30:0
83	96	308	15:01:32.466	175TL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R0	4	0	3,681,835	30:0
84	96	308	15:01:33.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2207.56 +/-	4R0	4	0	3,681,835	32:1
85	96	308	16:56:27.133	165CE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,681,948	89:0
86	96	308	16:56:27.800	165CE4B	7SCAN	NORM,220.553999,	Check S/P Position	4R0	4	0	3,681,948	90:0
87	96	308	17:29:49.133	165CF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,681,981	89:0
88	96	308	17:29:49.800	165CF4B	7SCAN	NORM,221.203999,	Check S/P Position	4R0	4	0	3,681,981	90:0
89	96	308	18:25:42.466	488AF6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R0	4	0	3,682,037	23:0
90	96	308	18:37:48.466	488AF6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R0	4	0	3,682,049	20:0
91	96	308	19:14:05.066	488AF6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R0	4	0	3,682,085	09:0
92	96	308	19:34:31.066	488AF6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R0	4	0	3,682,105	28:0
93	96	308	19:44:17.733	165IA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,682,114	89:0
94	96	308	19:44:18.400	165IA4B	7SCAN	NORM,235.481998,	Check S/P Position	4R0	4	0	3,682,114	90:0
95	96	308	19:48:10.400		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 2207.56 +/-	4R0	4	0	3,682,118	74:0
96	96	308	19:48:10.400	175IA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R0	4	0	3,682,118	74:0
97	96	308	19:48:22.400	175IA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R0	4	0	3,682,119	01:0
98	96	308	19:48:22.466		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2202.68 +/-	4R0	4	0	3,682,119	01:1
99	96	308	19:49:38.400	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R0	4	0	3,682,120	24:0
100	96	308	19:49:38.400		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *1935.73 +/-	4R0	4	0	3,682,120	24:0
101	96	308	19:49:39.800		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1934.81 +/-	4R0	4	0	3,682,120	26:1
102	96	308	19:53:23.733	165AD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,682,123	89:0
103	96	308	19:53:24.400	165AD4B	7SCAN	NORM,216.487999,	Check S/P Position	4R0	4	0	3,682,123	90:0
104	96	308	20:09:30.400	488AG6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R0	4	0	3,682,139	83:0
105	96	308	20:23:43.733	165AE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,682,153	89:0
106	96	308	20:23:44.400	165AE4B	7SCAN	NORM,216.789999,	Check S/P Position	4R0	4	0	3,682,153	90:0
107	96	308	20:54:03.733	165AF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,682,183	89:0
108	96	308	20:54:04.400	165AF4B	7SCAN	NORM,217.094,-16	Check S/P Position	4R0	4	0	3,682,183	90:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	96	308	21:19:56.400	488AG6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R0	4	0	3,682,209:52:0
110	96	308	21:24:23.733	165AG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,682,213:89:0
111	96	308	21:24:24.400	165AG4B	7SCAN	NORM,217.328999,	Check S/P Position	4R0	4	0	3,682,213:90:0
112	96	308	21:27:25.733	488AG6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R0	4	0	3,682,216:89:0
113	96	308	21:54:43.733	165AH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,682,243:89:0
114	96	308	21:54:44.400	165AH4B	7SCAN	NORM,200.248999,	Check S/P Position	4R0	4	0	3,682,243:90:0
115	96	308	21:58:38.400	117AA	**CSMOS**	GS	***** GROUP START CSMOS	4R0	4	0	3,682,247:77:0
116	96	308	21:58:47.733	117AA105A106A4A	7STRP	0.015001,0.0,0,0	Slew =,0.01	4R0	4	0	3,682,248:00:0
117	96	308	22:24:04.400	117AA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R0	4	0	3,682,273:00:0
118	96	308	22:25:03.733	165AI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,682,273:89:0
119	96	308	22:25:04.400	165AI4B	7SCAN	NORM,221.469999,	Check S/P Position	4R0	4	0	3,682,273:90:0
120	96	308	22:55:56.400	488AG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R0	4	0	3,682,304:47:0
121	96	308	22:58:17.733	117AB	**CSMOS**	GS	***** GROUP START CSMOS	4R0	4	0	3,682,306:77:0
122	96	308	22:58:27.066	117AB105A106A4A	7STRP	-0.057062,0.0,0,	Slew =17.01	4R0	4	0	3,682,307:00:0
123	96	308	23:27:56.400	488AG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R0	4	0	3,682,336:15:0
124	96	308	23:28:47.066	117AB105A106B4A	7STRP	0.005,0.0,0,0,0,	Slew =17.01	4R0	4	0	3,682,337:00:0
125	96	308	23:29:47.733	117AB105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	4R0	4	0	3,682,338:00:0
126	96	308	23:59:07.066	117AB105A106B4C	7STRP	0.005,0.0,0,0,0,	Slew =17.01	4R0	4	0	3,682,367:00:0
127	96	309	00:00:07.733	117AB105A106B4D	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	4R0	4	0	3,682,368:00:0
128	96	309	00:29:27.066	117AB105A106B4E	7STRP	0.005,0.0,0,0,0,	Slew =17.01	4R0	4	0	3,682,397:00:0
129	96	309	00:30:27.733	117AB105A106B4F	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	4R0	4	0	3,682,398:00:0
130	96	309	00:35:37.733	488AH6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4R0	4	0	3,682,403:10:0
131	96	309	00:56:29.733	488AH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R0	4	0	3,682,423:68:0
132	96	309	00:59:40.400	488AH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4R0	4	0	3,682,426:81:0
133	96	309	00:59:47.066	117AB105A106B4G	7STRP	0.005,0.0,0,0,0,	Slew =17.01	4R0	4	0	3,682,427:00:0
134	96	309	00:59:59.733	488AH6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R0	4	0	3,682,427:19:0
135	96	309	01:00:47.733	117AB105A106B4H	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	4R0	4	0	3,682,428:00:0
136	96	309	01:30:07.066	117AB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R0	4	0	3,682,457:00:0
137	96	309	01:53:21.066	165CA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,682,479:89:0
138	96	309	01:53:21.733	165CA4B	7SCAN	NORM,232.294998,	Check S/P Position	4R0	4	0	3,682,479:90:0
139	96	309	02:12:33.733	165CB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,682,498:89:0
140	96	309	02:12:34.400	165CB4B	7SCAN	NORM,232.727999,	Check S/P Position	4R0	4	0	3,682,498:90:0
141	96	309	03:11:56.400	488AH6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4R0	4	0	3,682,557:64:0
142	96	309	06:01:04.400	165DA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	4	0	3,682,724:89:0
143	96	309	06:01:05.066	165DA4B	7SCAN	NORM,237.202,-21	Check S/P Position	4R0	4	0	3,682,724:90:0
144	**96**	**309**	**06:01:09.666**	**C3CNGLOBAL01-**		**-----START------**		**4R0**	**4**	**0**	**: :**
145	96	309	06:02:01.733	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,682,725:84:0
146	**96**	**309**	**06:02:01.733**	**125DA4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**3,682,725:84:0**
147	96	309	06:02:01.733	125DA	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	3,682,725:84:0
148	96	309	06:02:03.733	176DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R0	4	0	3,682,725:87:0
149	**96**	**309**	**06:03:02.400**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,682,726:84:0**
150	96	309	06:03:02.400	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,682,726:84:0
151	**96**	**309**	**06:03:03.066**	**127DA4B**	**37ETB**	**07,C7,02,00,60,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,682,726:85:0**
152	96	309	06:03:11.066	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,682,727:06:0
153	96	309	06:04:55.733	175DA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,682,728:72:0
154	96	309	06:04:55.733		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 1934.81 +/-	4R3	4	0	3,682,728:72:0
155	96	309	06:04:59.066	117DA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,682,728:77:0
156	96	309	06:05:05.066	175DA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,682,728:86:0
157	96	309	06:05:05.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1936.09 +/-	4R3	4	0	3,682,728:86:3
158	96	309	06:05:08.400	117DA105A106A4A	7STRP	-0.022004,0.0,0,	Slew =,0.03	4R3	4	0	3,682,729:00:0
159	**96**	**309**	**06:06:06.414**	**C3CNGLOBAL01-**	**NIMPBK**	**301ER**	**CALLISTO GLOBAL MOSAIC**	**4R3**	**4**	**0**	**: :**
160	**96**	**309**	**06:16:30.414**	**C3CNGLOBAL01-**	**DESELC**	**300ER**	**CALLISTO GLOBAL MOSAIC**	**4R3**	**4**	**0**	**: :**
161	96	309	06:17:24.400	117DA105A106A4B	7STRP	0.022504,-0.0090	Slew =12.01	4R3	4	0	3,682,741:12:0
162	96	309	06:17:31.733	117DA105A106A4C	7STRP	-0.022004,0.0,0,	Slew =,0.03	4R3	4	0	3,682,741:23:0
163	**96**	**309**	**06:17:31.747**	**C3CNGLOBAL01-**	**NIMPBK**	**301DA**	**CALLISTO GLOBAL MOSAIC**	**4R3**	**4**	**0**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	**96**	**309**	**06:29:47.080**	**C3CNGLOBAL01-**	**DESELC**	**300DA**	**CALLISTO GLOBAL MOSAIC**	**4R3**	**4**	**0**	**: :**	
165	96	309	06:29:47.733	117DA105A106A4D	7STRP	0.022504,-0.0090	Slew =12.01	4R3	4	0	3,682,753:35:0	
166	96	309	06:29:55.066	117DA105A106A4E	7STRP	-0.022004,0.0,0,	Slew =,0.03	4R3	4	0	3,682,753:46:0	
167	**96**	**309**	**06:30:47.747**	**C3CNGLOBAL01-**	**NIMPBK**	**301EV**	**CALLISTO GLOBAL MOSAIC**	**4R3**	**4**	**0**	**: :**	
168	**96**	**309**	**06:41:34.413**	**C3CNGLOBAL01-**	**DESELC**	**300EV**	**CALLISTO GLOBAL MOSAIC**	**4R3**	**4**	**0**	**: :**	
169	96	309	06:42:11.066	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,682,765:58:0	
170	96	309	06:42:45.066	175DA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,682,766:18:0	
171	96	309	06:42:45.066	175DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,682,766:18:0	
172	96	309	06:42:45.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1406.45 +/-	4R3	4	0	3,682,766:18:0	
173	96	309	06:42:46.466		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1406.39 +/-	4R3	4	0	3,682,766:20:1	
174	**96**	**309**	**06:43:37.666**	**C3CNGLOBAL01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
175	96	309	07:21:57.733	165IB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,682,804:89:0	
176	96	309	07:21:58.400	165IB4B	7SCAN	NORM,236.907,-22	Check S/P Position	4R3	4	0	3,682,804:90:0	
177	96	309	07:25:50.400	175IB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,682,808:74:0	
178	96	309	07:25:50.400		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 1406.39 +/-	4R3	4	0	3,682,808:74:0	
179	96	309	07:25:53.733	118IB	**SMOS**	GS		4R3	4	0	3,682,808:79:0	
180	96	309	07:26:02.400	175IB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,682,809:01:0	
181	96	309	07:26:02.466		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *1401.51 +/-	4R3	4	0	3,682,809:01:1	
182	96	309	07:26:03.733	118IB110A111A4A	7STRP	-0.007,0.0,46,0,	Slew =,3.51	4R3	4	0	3,682,809:03:0	
183	96	309	07:26:34.400	118IB110A111A4B	7STRP	-0.0007,0.007,0,	Slew =0,5.0	4R3	4	0	3,682,809:49:0	
184	96	309	07:26:49.733	118IB110A111A4C	7STRP	-0.007,0.0,46,0,	Slew =,3.51	4R3	4	0	3,682,809:72:0	
185	96	309	07:27:17.733	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,682,810:23:0	
186	96	309	07:27:17.733		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *1136.90 +/-	4R3	4	0	3,682,810:23:0	
187	96	309	07:27:19.133		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1135.99 +/-	4R3	4	0	3,682,810:25:1	
188	96	309	07:27:20.400	118IB11A	**SMOS**	GE		4R3	4	0	3,682,810:27:0	
189	96	309	08:59:59.733	481UA4A	7VECT		Inert vect update UTC	4R3	4	0	3,682,901:85:0	
190	96	309	09:20:12.400	125FY11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,682,921:84:0	
191	96	309	09:20:12.400	125FY	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,682,921:84:0	
192	**96**	**309**	**09:20:12.400**	**125FY4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**3,682,921:84:0**	
193	96	309	09:20:15.733	165EX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,682,921:89:0	
194	96	309	09:20:16.400	165EX4B	7SCAN	NORM,237.344999,	Check S/P Position	4R3	4	0	3,682,921:90:0	
195	**96**	**309**	**09:20:21.000**	**C3CNCALLRT02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
196	**96**	**309**	**09:20:37.066**	**432DG6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,682,922:30:0**	
197	**96**	**309**	**09:21:13.066**	**127FY4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,682,922:84:0**	
198	96	309	09:21:13.066	127FY	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,682,922:84:0	
199	**96**	**309**	**09:21:13.733**	**127FY4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,682,922:85:0**	
200	96	309	09:21:21.733	127FY11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,682,923:06:0	
201	**96**	**309**	**09:22:37.066**	**432DH6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,682,924:28:0**	
202	96	309	09:23:17.733	165IC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,682,924:89:0	
203	96	309	09:23:18.400	165IC4B	7SCAN	NORM,236.834999,	Check S/P Position	4R3	4	0	3,682,924:90:0	
204	96	309	09:24:15.066	125FZ	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,682,925:84:0	
205	96	309	09:24:15.066	125FZ11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,682,925:84:0	
206	**96**	**309**	**09:24:15.066**	**125FZ4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**3,682,925:84:0**	
207	**96**	**309**	**09:24:23.666**	**C3CNCALLRT02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
208	96	309	09:27:16.400		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 1135.99 +/-	4R3	4	0	3,682,928:83:0	
209	96	309	09:27:16.400	175IC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,682,928:83:0	
210	96	309	09:27:19.066	118IC	**SMOS**	GS		4R3	4	0	3,682,928:87:0	
211	96	309	09:27:28.400	175IC176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	3,682,929:10:0	
212	96	309	09:27:28.466		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *1131.11 +/-	4R3	4	0	3,682,929:10:1	
213	96	309	09:27:29.066	118IC110A111A4A	7STRP	0.007,0.0,182,0,	Slew =,3.51	4R3	4	0	3,682,929:11:0	
214	96	309	09:28:29.733	118IC110A111A4B	7STRP	0.0,0.007,0,0,0,	Slew =,3.51	4R3	4	0	3,682,930:11:0	
215	96	309	09:29:30.400	118IC110A111A4C	7STRP	0.007,0.0,182,0,	Slew =,3.51	4R3	4	0	3,682,931:11:0	
216	96	309	09:30:31.066	118IC11A	**SMOS**	GE		4R3	4	0	3,682,932:11:0	
217	96	309	09:31:24.400		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC * 301.66 +/-	4R3	4	0	3,682,933:00:0	
218	96	309	09:31:24.400	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,682,933:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	96	309	09:31:25.800		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 300.74 +/-	4R3	4	0	3,682,933	02:1
220	96	309	09:46:36.400	488AI6A	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	4R3	4	0	3,682,948	03:0
221	96	309	10:19:49.733		DMS:	: *DMS-TURN	P7, TRACK 2, REV, TIC 300.74 +/-	4R3	4	0	3,682,980	81:0
222	96	309	10:19:49.733	465KB6A	6DTRN	CMD,6DTRN,465KB6	DMS TRACK TURNAROUND	4R3	4	0	3,682,980	81:0
223	96	309	10:27:17.200		DMS:	: *REVERSE	P7, TRACK 2, REV, TIC * 199.37 +/-	4R3	4	0	3,682,988	24:2
224	96	309	10:27:18.600		DMS:	: *TURNARND	P7, TRACK *3, *FWD, TIC * 199.31 +/-	4R3	4	0	3,682,988	26:3
225	96	309	10:27:32.066		DMS:	: *AUTOSTOP	P7, TRACK 3, FWD, TIC * 201.56 +/-	4R3	4	0	3,682,988	46:5
226	96	309	10:27:33.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 201.62 +/-	4R3	4	0	3,682,988	48:6
227	96	309	10:57:00.400	488AI6B	6TMSED	NORM,EL2	Sci, Eng, and D/L Chan	4R3	4	0	3,683,017	60:0
228	96	309	10:58:25.066	165GC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,683,019	05:0
229	96	309	10:58:25.733	165GC4B	7SCAN	NORM,240.261999,	Check S/P Position	4R3	4	0	3,683,019	06:0
230	96	309	10:59:09.733		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 201.62 +/-	4R3	4	0	3,683,019	72:0
231	96	309	10:59:09.733	175LB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	3,683,019	72:0
232	96	309	10:59:21.733	175LB176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,683,019	90:0
233	96	309	10:59:21.800		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC * 204.52 +/-	4R3	4	0	3,683,019	90:1
234	96	309	10:59:39.733		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC * 220.28 +/-	4R3	4	0	3,683,020	26:0
235	96	309	10:59:39.733	175LB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,683,020	26:0
236	96	309	10:59:41.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 220.50 +/-	4R3	4	0	3,683,020	28:1
237	96	309	11:02:19.733	117GC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,683,022	84:0
238	96	309	11:02:29.066	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,683,023	07:0
239	96	309	11:02:29.066	117GC105A106A4A	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,023	07:0
240	96	309	11:03:01.066	117GC105A106A4B	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,023	55:0
241	96	309	11:03:12.400	117GC105A106A4C	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,023	72:0
242	96	309	11:03:44.400	117GC105A106A4D	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,024	29:0
243	96	309	11:03:55.733	117GC105A106A4E	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,024	46:0
244	96	309	11:04:27.733	117GC105A106A4F	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,025	03:0
245	96	309	11:04:39.066	117GC105A106A4G	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,025	20:0
246	96	309	11:05:11.066	117GC105A106A4H	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,025	68:0
247	96	309	11:05:22.400	117GC105A106A4I	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,025	85:0
248	96	309	11:05:54.400	117GC105A106A4J	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,026	42:0
249	96	309	11:06:05.733	117GC105A106A4K	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,026	59:0
250	96	309	11:06:37.733	117GC105A106A4L	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,027	16:0
251	96	309	11:06:49.066	117GC105A106A4M	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,027	33:0
252	96	309	11:07:21.066	117GC105A106A4N	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,027	81:0
253	96	309	11:07:32.400	117GC105A106A4O	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,028	07:0
254	96	309	11:08:04.400	117GC105A106A4P	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,028	55:0
255	96	309	11:08:15.733	117GC105A106A4Q	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,028	72:0
256	96	309	11:08:47.733	117GC105A106A4R	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,029	29:0
257	96	309	11:08:59.066	117GC105A106A4S	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,029	46:0
258	96	309	11:09:31.066	117GC105A106A4T	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,030	03:0
259	96	309	11:09:42.400	117GC105A106A4U	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,030	20:0
260	96	309	11:10:14.400	117GC105A106A4V	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,030	68:0
261	96	309	11:10:25.733	117GC105A106A4W	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,030	85:0
262	96	309	11:10:57.733	117GC105A106A4X	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,031	42:0
263	96	309	11:11:09.066	117GC105A106A4Y	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,031	59:0
264	96	309	11:11:41.066	117GC105A106A4Z	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,032	16:0
265	96	309	11:11:52.400	117GC105A106A4AA	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,032	33:0
266	96	309	11:12:24.400	117GC105A106A4AB	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,032	81:0
267	96	309	11:12:35.733	117GC105A106A4AC	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,033	07:0
268	96	309	11:13:07.733	117GC105A106A4AD	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,033	55:0
269	96	309	11:13:19.066	117GC105A106A4AE	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,033	72:0
270	96	309	11:13:51.066	117GC105A106A4AF	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,034	29:0
271	96	309	11:14:02.400	117GC105A106A4AG	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,034	46:0
272	96	309	11:14:34.400	117GC105A106A4AH	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,035	03:0
273	96	309	11:14:45.733	117GC105A106A4AI	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,035	20:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	309	11:15:04.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,683,035	48:0
275	96	309	11:15:04.400		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 220.50 +/-	4R3	4	0	3,683,035	48:0
276	96	309	11:15:17.733	117GC105A106A4AJ	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,035	68:0
277	96	309	11:15:29.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 226.05 +/-	4R3	4	0	3,683,035	85:0
278	96	309	11:15:29.066	117GC105A106A4AK	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,035	85:0
279	96	309	11:15:49.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,683,036	24:0
280	96	309	11:15:49.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 230.74 +/-	4R3	4	0	3,683,036	24:0
281	96	309	11:15:50.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 230.80 +/-	4R3	4	0	3,683,036	26:1
282	96	309	11:16:01.066	117GC105A106A4AL	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,036	42:0
283	96	309	11:16:12.400	117GC105A106A4AM	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,036	59:0
284	96	309	11:16:44.400	117GC105A106A4AN	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,037	16:0
285	96	309	11:16:55.733	117GC105A106A4AO	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,037	33:0
286	96	309	11:17:27.733	117GC105A106A4AP	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,037	81:0
287	96	309	11:17:39.066	117GC105A106A4AQ	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,038	07:0
288	96	309	11:18:11.066	117GC105A106A4AR	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,038	55:0
289	96	309	11:18:22.400	117GC105A106A4AS	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,038	72:0
290	96	309	11:18:54.400	117GC105A106A4AT	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,039	29:0
291	96	309	11:18:57.066	488AI6C	6TMSED	FILL,EL2	Sci, Eng, and D/L Chan	4R3	4	0	3,683,039	33:0
292	96	309	11:19:05.733	117GC105A106A4AU	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,039	46:0
293	96	309	11:19:37.733	117GC105A106A4AV	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,040	03:0
294	96	309	11:19:49.066	117GC105A106A4AW	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,040	20:0
295	96	309	11:20:21.066	117GC105A106A4AX	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,040	68:0
296	96	309	11:20:32.400	117GC105A106A4AY	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,040	85:0
297	96	309	11:21:04.400	117GC105A106A4AZ	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,041	42:0
298	96	309	11:21:15.733	117GC105A106A4BA	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,041	59:0
299	96	309	11:21:47.733	117GC105A106A4BB	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,042	16:0
300	96	309	11:21:59.066	117GC105A106A4BC	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,042	33:0
301	96	309	11:22:31.066	117GC105A106A4BD	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,042	81:0
302	96	309	11:22:42.400	117GC105A106A4BE	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,043	07:0
303	96	309	11:23:14.400	117GC105A106A4BF	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,043	55:0
304	96	309	11:23:25.733	117GC105A106A4BG	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,043	72:0
305	96	309	11:23:57.733	117GC105A106A4BH	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,044	29:0
306	96	309	11:24:09.066	117GC105A106A4BI	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,044	46:0
307	96	309	11:24:41.066	117GC105A106A4BJ	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,045	03:0
308	96	309	11:24:52.400	117GC105A106A4BK	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,045	20:0
309	96	309	11:25:24.400	117GC105A106A4BL	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,045	68:0
310	96	309	11:25:35.733	117GC105A106A4BM	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,045	85:0
311	96	309	11:26:07.733	117GC105A106A4BN	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,046	42:0
312	96	309	11:26:19.066	117GC105A106A4BO	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,046	59:0
313	96	309	11:26:51.066	117GC105A106A4BP	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,047	16:0
314	96	309	11:27:02.400	117GC105A106A4BQ	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,047	33:0
315	96	309	11:27:34.400	117GC105A106A4BR	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,047	81:0
316	96	309	11:27:45.733	117GC105A106A4BS	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,048	07:0
317	96	309	11:28:06.400		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 230.80 +/-	4R3	4	0	3,683,048	38:0
318	96	309	11:28:06.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,683,048	38:0
319	96	309	11:28:17.733	117GC105A106A4BT	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,048	55:0
320	96	309	11:28:29.066	117GC105A106A4BU	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,048	72:0
321	96	309	11:28:31.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 236.35 +/-	4R3	4	0	3,683,048	75:0
322	96	309	11:28:51.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 241.04 +/-	4R3	4	0	3,683,049	14:0
323	96	309	11:28:51.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,683,049	14:0
324	96	309	11:28:52.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 241.10 +/-	4R3	4	0	3,683,049	16:1
325	96	309	11:29:01.066	117GC105A106A4BV	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,049	29:0
326	96	309	11:29:12.400	117GC105A106A4BW	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,049	46:0
327	96	309	11:29:44.400	117GC105A106A4BX	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,050	03:0
328	96	309	11:29:55.733	117GC105A106A4BY	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,050	20:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	96	309	11:30:27.733	117GC105A106A4BZ	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,050:68:0	
330	96	309	11:30:39.066	117GC105A106A4CA	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,050:85:0	
331	96	309	11:31:11.066	117GC105A106A4CB	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,051:42:0	
332	96	309	11:31:22.400	117GC105A106A4CC	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,051:59:0	
333	96	309	11:31:54.400	117GC105A106A4CD	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,052:16:0	
334	96	309	11:32:05.733	117GC105A106A4CE	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,052:33:0	
335	96	309	11:32:37.733	117GC105A106A4CF	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,052:81:0	
336	96	309	11:32:49.066	117GC105A106A4CG	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,053:07:0	
337	96	309	11:33:16.400	488AI6D	6TMSED	FILL,EL1	Sci, Eng, and D/L Chan	4R3	4	0	3,683,053:48:0	
338	96	309	11:33:21.066	117GC105A106A4CH	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,053:55:0	
339	96	309	11:33:32.400	117GC105A106A4CI	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,053:72:0	
340	96	309	11:34:04.400	117GC105A106A4CJ	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,054:29:0	
341	96	309	11:34:15.733	117GC105A106A4CK	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,054:46:0	
342	96	309	11:34:47.733	117GC105A106A4CL	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,055:03:0	
343	96	309	11:34:59.066	117GC105A106A4CM	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,055:20:0	
344	96	309	11:35:31.066	117GC105A106A4CN	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,055:68:0	
345	96	309	11:35:42.400	117GC105A106A4CO	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,055:85:0	
346	96	309	11:36:14.400	117GC105A106A4CP	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,056:42:0	
347	96	309	11:36:25.733	117GC105A106A4CQ	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,056:59:0	
348	96	309	11:36:57.733	117GC105A106A4CR	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,057:16:0	
349	96	309	11:37:09.066	117GC105A106A4CS	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,057:33:0	
350	96	309	11:37:41.066	117GC105A106A4CT	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,057:81:0	
351	96	309	11:37:52.400	117GC105A106A4CU	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,058:07:0	
352	96	309	11:38:24.400	117GC105A106A4CV	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,058:55:0	
353	96	309	11:38:35.733	117GC105A106A4CW	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,058:72:0	
354	96	309	11:39:07.733	117GC105A106A4CX	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,059:29:0	
355	96	309	11:39:19.066	117GC105A106A4CY	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,059:46:0	
356	96	309	11:39:51.066	117GC105A106A4CZ	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,060:03:0	
357	96	309	11:40:02.400	117GC105A106A4DA	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,060:20:0	
358	96	309	11:40:34.400	117GC105A106A4DB	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,060:68:0	
359	96	309	11:40:45.733	117GC105A106A4DC	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,060:85:0	
360	96	309	11:41:08.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,683,061:28:0	
361	96	309	11:41:08.400		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 241.10 +/-	4R3	4	0	3,683,061:28:0	
362	96	309	11:41:17.733	117GC105A106A4DD	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,061:42:0	
363	96	309	11:41:29.066	117GC105A106A4DE	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,061:59:0	
364	96	309	11:41:33.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 246.65 +/-	4R3	4	0	3,683,061:65:0	
365	96	309	11:41:53.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,683,062:04:0	
366	96	309	11:41:53.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 251.34 +/-	4R3	4	0	3,683,062:04:0	
367	96	309	11:41:54.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 251.40 +/-	4R3	4	0	3,683,062:06:1	
368	96	309	11:42:01.066	117GC105A106A4DF	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,062:16:0	
369	96	309	11:42:12.400	117GC105A106A4DG	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,062:33:0	
370	96	309	11:42:44.400	117GC105A106A4DH	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,062:81:0	
371	96	309	11:42:55.733	117GC105A106A4DI	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,063:07:0	
372	96	309	11:43:27.733	117GC105A106A4DJ	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,063:55:0	
373	96	309	11:43:39.066	117GC105A106A4DK	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,063:72:0	
374	96	309	11:44:11.066	117GC105A106A4DL	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,064:29:0	
375	96	309	11:44:22.400	117GC105A106A4DM	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,064:46:0	
376	96	309	11:44:54.400	117GC105A106A4DN	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,065:03:0	
377	96	309	11:45:05.733	117GC105A106A4DO	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,065:20:0	
378	96	309	11:45:37.733	117GC105A106A4DP	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,065:68:0	
379	96	309	11:45:49.066	117GC105A106A4DQ	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,065:85:0	
380	96	309	11:46:21.066	117GC105A106A4DR	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,066:42:0	
381	96	309	11:46:32.400	117GC105A106A4DS	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,066:59:0	
382	96	309	11:47:04.400	117GC105A106A4DT	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,067:16:0	
383	96	309	11:47:15.733	117GC105A106A4DU	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,067:33:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	96	309	11:47:47.733	117GC105A106A4DV	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,067:81:0	
385	96	309	11:47:59.066	117GC105A106A4DW	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,068:07:0	
386	96	309	11:48:31.066	117GC105A106A4DX	7STRP	0.068607,-0.0014	Slew =0,9.0	4R3	4	0	3,683,068:55:0	
387	96	309	11:48:42.400	117GC105A106A4DY	7STRP	-0.068105,0.0,0,	Slew =,2.41	4R3	4	0	3,683,068:72:0	
388	96	309	11:49:14.400	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,683,069:29:0	
389	96	309	11:49:14.400	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,683,069:29:0	
390	96	309	11:49:16.400		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 251.40 +/-	4R3	4	0	3,683,069:32:0	
391	96	309	11:49:16.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,683,069:32:0	
392	96	309	11:49:26.400		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 253.51 +/-	4R3	4	0	3,683,069:47:0	
393	96	309	11:49:40.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,683,069:68:0	
394	96	309	11:49:40.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 256.79 +/-	4R3	4	0	3,683,069:68:0	
395	96	309	11:49:41.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 256.85 +/-	4R3	4	0	3,683,069:70:1	
396	96	309	11:56:23.733	165DB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,683,076:36:0	
397	96	309	11:56:24.400	165DB4B	7SCAN	NORM,239.948999,	Check S/P Position	4R3	4	0	3,683,076:37:0	
398	96	309	11:58:57.066	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,683,078:84:0	
399	**96**	**309**	**11:58:57.066**	**127DB4A**	**37IOP**	**1,0**	**Full Map, Grating Start Position =00**	**4R1**	**4**	**0**	**3,683,078:84:0**	
400	**96**	**309**	**11:58:57.733**	**127DB4B**	**37ETB**		**Loads wavelength edit table**	**4R1**	**4**	**0**	**3,683,078:85:0**	
401	**96**	**309**	**11:59:05.666**	**C3CNASGARD01-**		**-----START------**		**4R1**	**4**	**0**	**: :**	
402	96	309	11:59:05.733	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R1	4	0	3,683,079:06:0	
403	96	309	12:00:06.400	117DB	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,683,080:06:0	
404	96	309	12:00:11.066	175KM422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R1	4	0	3,683,080:13:0	
405	96	309	12:00:11.066		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 256.85 +/-	4R1	4	0	3,683,080:13:0	
406	96	309	12:00:23.066	175KM176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R1	4	0	3,683,080:31:0	
407	96	309	12:00:23.133		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC * 259.75 +/-	4R1	4	0	3,683,080:31:1	
408	96	309	12:00:24.400	175DB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,080:33:0	
409	96	309	12:00:24.400		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC * 260.86 +/-	4R1	4	0	3,683,080:33:0	
410	96	309	12:00:25.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC * 261.08 +/-	4R1	4	0	3,683,080:35:1	
411	96	309	12:00:26.400	165DB4C	7VECT		Inert vect update UTC	4R1	4	0	3,683,080:36:0	
412	96	309	12:00:27.066	165DB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R1	4	0	3,683,080:37:0	
413	96	309	12:00:27.066	175DB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R1	4	0	3,683,080:37:0	
414	96	309	12:00:27.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 261.20 +/-	4R1	4	0	3,683,080:37:3	
415	96	309	12:00:27.733	117DB105A106A4A	7STRP	-0.034013,0.0,0,	Slew =,0.06	4R1	4	0	3,683,080:38:0	
416	96	309	12:09:57.733	117DB105A106A4B	7STRP	0.033513,0.00900	Slew =12.01	4R1	4	0	3,683,089:74:0	
417	96	309	12:10:05.066	117DB105A106A4C	7STRP	-0.034013,0.0,0,	Slew =,0.06	4R1	4	0	3,683,089:85:0	
418	**96**	**309**	**12:10:05.068**	**C3CNASGARD01-**	**NIMPBK**	**301DB**	**ASGARD BASIN COVERAGE**	**4R1**	**4**	**0**	**: :**	
419	96	309	12:19:35.066	117DB105A106B4A	7STRP	0.034514,0.01100	Slew =12.01	4R1	4	0	3,683,099:30:0	
420	96	309	12:19:42.400	117DB105A106B4B	7STRP	-0.036316,0.0,0,	Slew =,0.06	4R1	4	0	3,683,099:41:0	
421	**96**	**309**	**12:28:49.066**	**C3CNASGARD01-**	**DESELC**	**300DB**	**ASGARD BASIN COVERAGE**	**4R1**	**4**	**0**	**: :**	
422	**96**	**309**	**12:28:55.666**	**C3CNASGARD01-**		**-----STOP-------**		**4R1**	**4**	**0**	**: :**	
423	96	309	12:29:50.400	117DB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,683,109:43:0	
424	96	309	12:29:51.733	175DB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,109:45:0	
425	96	309	12:29:51.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 674.75 +/-	4R1	4	0	3,683,109:45:0	
426	96	309	12:29:51.733	175DB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R1	4	0	3,683,109:45:0	
427	96	309	12:29:53.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 674.81 +/-	4R1	4	0	3,683,109:47:1	
428	96	309	12:30:25.733	165GA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,110:05:0	
429	96	309	12:30:26.400	165GA4B	7SCAN	NORM,248.314999,	Check S/P Position	4R1	4	0	3,683,110:06:0	
430	96	309	12:34:20.400	117GA	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,683,113:84:0	
431	96	309	12:34:29.733	117GA105A106A4A	7STRP	-0.021703,0.0,0,	Slew =,0.34	4R1	4	0	3,683,114:07:0	
432	96	309	12:34:29.733	176GC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R1	4	0	3,683,114:07:0	
433	96	309	12:35:37.066	117GA105A106A4B	7STRP	0.026706,-0.0024	Slew =,10.0	4R1	4	0	3,683,115:17:0	
434	96	309	12:35:43.733	117GA105A106A4C	7STRP	-0.021703,0.0,0,	Slew =,0.34	4R1	4	0	3,683,115:27:0	
435	96	309	12:36:51.066	117GA105A106A4D	7STRP	0.026706,-0.0024	Slew =,10.0	4R1	4	0	3,683,116:37:0	
436	96	309	12:36:57.733	117GA105A106A4E	7STRP	-0.021703,0.0,0,	Slew =,0.34	4R1	4	0	3,683,116:47:0	
437	96	309	12:38:05.066	117GA105A106A4F	7STRP	0.026706,-0.0024	Slew =,10.0	4R1	4	0	3,683,117:57:0	
438	96	309	12:38:11.733	117GA105A106A4G	7STRP	-0.021703,0.0,0,	Slew =,0.34	4R1	4	0	3,683,117:67:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	96	309	12:39:19.066	117GA105A106A4H	7STRP	0.026706,-0.0024	Slew =,10.0	4R1	4	0	3,683,118	77:0
440	96	309	12:39:25.733	117GA105A106A4I	7STRP	-0.021703,0.0,0,	Slew =,0.34	4R1	4	0	3,683,118	87:0
441	96	309	12:40:33.066	117GA105A106A4J	7STRP	0.026706,-0.0024	Slew =,10.0	4R1	4	0	3,683,120	06:0
442	96	309	12:40:39.733	117GA105A106A4K	7STRP	-0.021703,0.0,0,	Slew =,0.34	4R1	4	0	3,683,120	16:0
443	96	309	12:41:47.066	117GA105A106A4L	7STRP	0.026706,-0.0024	Slew =,10.0	4R1	4	0	3,683,121	26:0
444	96	309	12:41:53.733	117GA105A106A4M	7STRP	-0.021703,0.0,0,	Slew =,0.34	4R1	4	0	3,683,121	36:0
445	96	309	12:43:01.066	117GA105A106A4N	7STRP	0.026706,-0.0024	Slew =,10.0	4R1	4	0	3,683,122	46:0
446	96	309	12:43:07.733	117GA105A106A4O	7STRP	-0.021703,0.0,0,	Slew =,0.34	4R1	4	0	3,683,122	56:0
447	96	309	12:44:15.066	117GA105A106A4P	7STRP	0.026706,-0.0024	Slew =,10.0	4R1	4	0	3,683,123	66:0
448	96	309	12:44:21.733	117GA105A106A4Q	7STRP	-0.021703,0.0,0,	Slew =,0.34	4R1	4	0	3,683,123	76:0
449	96	309	12:45:29.066	117GA105A106A4R	7STRP	0.026706,-0.0024	Slew =,10.0	4R1	4	0	3,683,124	86:0
450	96	309	12:45:35.733	117GA105A106A4S	7STRP	-0.021703,0.0,0,	Slew =,0.34	4R1	4	0	3,683,125	05:0
451	96	309	12:46:43.066	117GA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,683,126	15:0
452	96	309	12:46:43.066	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R1	4	0	3,683,126	15:0
453	96	309	12:46:45.066		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 674.81 +/-	4R1	4	0	3,683,126	18:0
454	96	309	12:46:45.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,126	18:0
455	96	309	12:46:55.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 676.92 +/-	4R1	4	0	3,683,126	33:0
456	96	309	12:47:13.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 681.30 +/-	4R1	4	0	3,683,126	61:0
457	96	309	12:47:13.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,126	61:0
458	96	309	12:47:15.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 681.36 +/-	4R1	4	0	3,683,126	63:1
459	**96**	**309**	**12:47:37.666**	**C3CNARINGS01-**		**-----START------**		**4R1**	**4**	**0**	**: :**	
460	96	309	12:48:03.733		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 681.36 +/-	4R1	4	0	3,683,127	45:0
461	96	309	12:48:03.733	175KY422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R1	4	0	3,683,127	45:0
462	96	309	12:48:15.733	175KY176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R1	4	0	3,683,127	63:0
463	96	309	12:48:15.800		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC * 684.25 +/-	4R1	4	0	3,683,127	63:1
464	96	309	12:48:20.400		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC * 688.29 +/-	4R1	4	0	3,683,127	70:0
465	96	309	12:48:20.400	411JZ6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,127	70:0
466	96	309	12:48:21.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC * 688.51 +/-	4R1	4	0	3,683,127	72:1
467	96	309	12:48:23.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 688.63 +/-	4R1	4	0	3,683,127	74:3
468	96	309	12:48:23.733	411JZ6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R1	4	0	3,683,127	75:0
469	96	309	12:49:46.400	165DC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,129	17:0
470	96	309	12:49:47.066	165DC4B	7SCAN	NORM,246.613998,	Check S/P Position	4R1	4	0	3,683,129	18:0
471	96	309	12:50:25.066	411JZ6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R1	4	0	3,683,129	75:0
472	96	309	12:50:25.733	411JZ6D	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,129	76:0
473	96	309	12:50:25.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 717.33 +/-	4R1	4	0	3,683,129	76:0
474	96	309	12:50:27.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 717.39 +/-	4R1	4	0	3,683,129	78:1
475	96	309	12:50:31.066	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R1	4	0	3,683,129	84:0
476	**96**	**309**	**12:50:31.066**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,683,129**	**84:0**
477	**96**	**309**	**12:50:31.733**	**127DC4B**	**37ETB**	**07,C7,02,00,60,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,683,129**	**85:0**
478	96	309	12:50:39.733	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,683,130	06:0
479	96	309	12:51:40.400		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 717.39 +/-	4R3	4	0	3,683,131	06:0
480	96	309	12:51:40.400	175KB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	3,683,131	06:0
481	96	309	12:51:40.400	117DC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,683,131	06:0
482	96	309	12:51:52.400	175KB176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,683,131	24:0
483	96	309	12:51:52.466		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC * 720.29 +/-	4R3	4	0	3,683,131	24:1
484	96	309	12:51:53.733		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC * 721.40 +/-	4R3	4	0	3,683,131	26:0
485	96	309	12:51:53.733	175DC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,683,131	26:0
486	96	309	12:51:55.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC * 721.62 +/-	4R3	4	0	3,683,131	28:1
487	96	309	12:51:55.733	165DC4C	7VECT		Inert vect update UTC	4R3	4	0	3,683,131	29:0
488	96	309	12:51:56.400	165DC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R3	4	0	3,683,131	30:0
489	96	309	12:51:56.400	175DC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,683,131	30:0
490	96	309	12:51:56.600		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 721.74 +/-	4R3	4	0	3,683,131	30:3
491	96	309	12:51:57.066	117DC105A106A4A	7STRP	-0.040522,0.0,0,	Slew =,0.03	4R3	4	0	3,683,131	31:0
492	**96**	**309**	**12:59:27.066**	**C3CNARINGS01-**	**NIMPBK**	**301DC**	**CALLISTO MULTI-RING STRUCTURE CO**	**4R3**	**4**	**0**	**: :**	
493	**96**	**309**	**13:10:30.399**	**C3CNARINGS01-**	**DESELC**	**300DC**	**CALLISTO MULTI-RING STRUCTURE CO**	**4R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	**96**	**309**	**13:10:53.000**	**C3CNARINGS01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
495	96	309	13:14:35.066	175DC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,683,153:66:0	
496	96	309	13:14:37.733	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	3,683,153:70:0	
497	96	309	13:14:38.400	175TB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,683,153:71:0	
498	96	309	13:14:45.066	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,683,153:81:0	
499	96	309	13:14:46.400	165CO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,683,153:83:0	
500	96	309	13:14:47.066	165CO4B	7SCAN	NORM,223.051998,	Check S/P Position	4R3	4	0	3,683,153:84:0	
501	96	309	13:14:49.066	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	4R3	4	0	3,683,153:87:0	
502	96	309	13:14:51.733	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	4R3	4	0	3,683,154:00:0	
503	96	309	13:15:51.733	428FA6A	6RCCLR			4R3	4	0	3,683,154:90:0	
504	96	309	13:15:52.400	428FA6B	6RCSET	12		4R3	4	0	3,683,155:00:0	
505	96	309	13:15:56.400	488AI6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,683,155:06:0	
506	96	309	13:16:43.733	117CA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,683,155:77:0	
507	96	309	13:16:47.066	175CA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	3,683,155:82:0	
508	96	309	13:16:47.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1071.07 +/-	4R3	4	0	3,683,155:82:0	
509	96	309	13:16:48.466		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *1071.13 +/-	4R3	4	0	3,683,155:84:1	
510	96	309	13:16:52.400	175CA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,683,155:90:0	
511	96	309	13:16:52.466		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *1072.63 +/-	4R3	4	0	3,683,155:90:1	
512	96	309	13:16:53.066	117CA105A106A4A	7STRP	0.363896,0.0,0,0	Slew =,1.61	4R3	4	0	3,683,156:00:0	
513	**96**	**309**	**13:16:57.000**	**C3CNCRATER01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
514	96	309	13:19:50.400	127DD	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,683,158:84:0	
515	**96**	**309**	**13:19:50.400**	**127DD4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**4R5**	**4**	**1**	**3,683,158:84:0**	
516	**96**	**309**	**13:19:51.066**	**127DD4B**	**37ETB**	**04,C4,0F,FF,FF**	**Loads wavelength edit table**	**4R5**	**4**	**1**	**3,683,158:85:0**	
517	96	309	13:19:59.066	127DD11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R5	4	1	3,683,159:06:0	
518	96	309	13:20:55.733	117CA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R5	4	1	3,683,160:00:0	
519	96	309	13:20:57.066	165DD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R5	4	1	3,683,160:02:0	
520	96	309	13:20:57.733	165DD4B	7SCAN	NORM,252.323,-42	Check S/P Position	4R5	4	1	3,683,160:03:0	
521	96	309	13:20:59.733	117DD	**CSMOS**	GS	***** GROUP START CSMOS	4R5	4	1	3,683,160:06:0	
522	96	309	13:21:03.733	428FD6A	6RCCLR			4R5	4	1	3,683,160:12:0	
523	96	309	13:21:04.400	428FD6B	6RCSET	8		4R5	4	1	3,683,160:13:0	
524	96	309	13:21:31.066	165DD4C	7VECT		Inert vect update UTC	4R5	4	1	3,683,160:53:0	
525	96	309	13:21:31.733	165DD4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R5	4	1	3,683,160:54:0	
526	**96**	**309**	**13:21:32.398**	**C3CNCRATER01-**	**NIMPBK**	**301DD**	**BURR - CENTRAL PIT CRATER**	**4R5**	**4**	**1**	**: :**	
527	96	309	13:21:32.400	117DD105A106A4A	7STRP	0.01,0.0,0,0,0,0	Slew =,0.12	4R5	4	1	3,683,160:55:0	
528	96	309	13:22:59.733	117DD105A106B4A	7STRP	-0.01,0.006,0,0,	Slew =12.01	4R5	4	1	3,683,162:04:0	
529	96	309	13:23:10.400	117DD105A106B4B	7STRP	0.014001,0.0,0,0	Slew =,0.12	4R5	4	1	3,683,162:20:0	
530	**96**	**309**	**13:23:31.666**	**C3CNCRATER01-**		**-----STOP-------**		**4R5**	**4**	**1**	**: :**	
531	96	309	13:25:09.066	117DD11A	**CSMOS**	GE	***** GROUP END CSMOS	4R5	4	1	3,683,164:16:0	
532	**96**	**309**	**13:25:09.731**	**C3CNCRATER01-**	**DESELC**	**300DD**	**BURR - CENTRAL PIT CRATER**	**4R5**	**4**	**1**	**: :**	
533	96	309	13:25:15.733	175TC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R5	4	1	3,683,164:26:0	
534	96	309	13:25:15.733		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *1514.95 +/-	4R5	4	1	3,683,164:26:0	
535	96	309	13:25:17.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1515.17 +/-	4R5	4	1	3,683,164:28:1	
536	96	309	13:25:18.400	175TC176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R5	4	1	3,683,164:30:0	
537	96	309	13:25:18.600		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *1515.29 +/-	4R5	4	1	3,683,164:30:3	
538	96	309	13:25:57.733	165CP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R5	4	1	3,683,164:89:0	
539	96	309	13:25:58.400	165CP4B	7SCAN	NORM,7.638,-25.7	Check S/P Position	4R5	4	1	3,683,164:90:0	
540	96	309	13:27:36.400	428FE6A	6RCCLR			4R5	4	1	3,683,166:55:0	
541	96	309	13:27:37.066	428FE6B	6RCSET	12		4R5	4	1	3,683,166:56:0	
542	96	309	13:29:55.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1580.24 +/-	4R5	4	1	3,683,168:82:0	
543	96	309	13:29:55.733	175CB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	4	1	3,683,168:82:0	
544	96	309	13:29:57.133		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *1580.30 +/-	4R5	4	1	3,683,168:84:1	
545	96	309	13:30:01.066	175CB176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R5	4	1	3,683,168:90:0	
546	96	309	13:30:01.133		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *1581.80 +/-	4R5	4	1	3,683,168:90:1	
547	96	309	13:31:32.400	428FF6A	6RCCLR			4R5	4	1	3,683,170:45:0	
548	96	309	13:31:33.066	428FF6B	6RCSET	8		4R5	4	1	3,683,170:46:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	96	309	13:33:03.066	165ID4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R5	4	1	3,683,171	90:0
550	96	309	13:33:03.733	165ID4B	7SCAN	NORM,309.266998,	Check S/P Position	4R5	4	1	3,683,172	00:0
551	96	309	13:33:04.400		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *1742.88 +/-	4R5	4	1	3,683,172	01:0
552	96	309	13:33:04.400	175TD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R5	4	1	3,683,172	01:0
553	96	309	13:33:05.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1743.10 +/-	4R5	4	1	3,683,172	03:1
554	96	309	13:33:07.066	175TD176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R5	4	1	3,683,172	05:0
555	96	309	13:33:07.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *1743.21 +/-	4R5	4	1	3,683,172	05:3
556	96	309	13:34:03.066	428FG6A	6RCCLR			4R5	4	1	3,683,172	89:0
557	96	309	13:34:03.733	428FG6B	6RCSET	12		4R5	4	1	3,683,172	90:0
558	96	309	13:35:00.400	175ID422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R5	4	1	3,683,173	84:0
559	96	309	13:35:00.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1769.73 +/-	4R5	4	1	3,683,173	84:0
560	96	309	13:35:01.800		DMS:	: *RUNUP	R115, TRACK 3, FWD, TIC *1769.79 +/-	4R5	4	1	3,683,173	86:1
561	96	309	13:35:02.400	165ID4C	7VECT		Inert vect update UTC	4R5	4	1	3,683,173	87:0
562	96	309	13:35:03.066	165ID4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R5	4	1	3,683,173	88:0
563	96	309	13:35:05.733	175ID176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R5	4	1	3,683,174	01:0
564	96	309	13:35:05.800		DMS:	**: *RECORD**	R115, TRACK 3, FWD, TIC *1776.06 +/-	4R5	4	1	3,683,174	01:1
565	96	309	13:35:12.400	428FI6A	6RCCLR			4R5	4	1	3,683,174	11:0
566	96	309	13:35:13.066	428FI6B	6RCSET	8		4R5	4	1	3,683,174	12:0
567	96	309	13:35:20.400		DMS:	**: *RUNDOWN**	R115, TRACK 3, FWD, TIC *1827.39 +/-	4R5	4	1	3,683,174	23:0
568	96	309	13:35:20.400	175TE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R5	4	1	3,683,174	23:0
569	96	309	13:35:21.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1828.30 +/-	4R5	4	1	3,683,174	25:1
570	96	309	13:35:23.066	175TE176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R5	4	1	3,683,174	27:0
571	96	309	13:35:23.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *1828.42 +/-	4R5	4	1	3,683,174	27:3
572	96	309	13:36:22.400	165IE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R5	4	1	3,683,175	25:0
573	96	309	13:36:23.066	165IE4B	7SCAN	NORM,339.492996,	Check S/P Position	4R5	4	1	3,683,175	26:0
574	96	309	13:36:25.066	428FH6A	6RCCLR			4R5	4	1	3,683,175	29:0
575	96	309	13:36:25.733	428FH6B	6RCSET	14		4R5	4	1	3,683,175	30:0
576	96	309	13:37:10.400	117IE	**CSMOS**	GS	***** GROUP START CSMOS	4R5	4	1	3,683,176	06:0
577	96	309	13:37:28.400	175IE422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R5	4	1	3,683,176	33:0
578	96	309	13:37:28.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1857.75 +/-	4R5	4	1	3,683,176	33:0
579	96	309	13:37:29.800		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *1857.81 +/-	4R5	4	1	3,683,176	35:1
580	96	309	13:37:31.066	165IE4C	7VECT		Inert vect update UTC	4R5	4	1	3,683,176	37:0
581	96	309	13:37:31.733	165IE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R5	4	1	3,683,176	38:0
582	96	309	13:37:32.400	117IE105A106A4A	7STRP	0.060072,-0.0160	Slew =,3.01	4R5	4	1	3,683,176	39:0
583	96	309	13:37:34.400	175IE176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	4R5	4	1	3,683,176	42:0
584	96	309	13:37:35.000		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *1921.82 +/-	4R5	4	1	3,683,176	42:9
585	96	309	13:37:44.400	428FJ6A	6RCCLR			4R5	4	1	3,683,176	57:0
586	96	309	13:37:45.066	428FJ6B	6RCSET	11		4R5	4	1	3,683,176	58:0
587	96	309	13:37:53.066	175TF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R5	4	1	3,683,176	70:0
588	96	309	13:37:53.066		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2366.43 +/-	4R5	4	1	3,683,176	70:0
589	96	309	13:37:55.733	165IF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R5	4	1	3,683,176	74:0
590	96	309	13:37:55.733	117IE11A	**CSMOS**	GE	***** GROUP END CSMOS	4R5	4	1	3,683,176	74:0
591	96	309	13:37:56.200		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2377.43 +/-	4R5	4	1	3,683,176	74:7
592	96	309	13:37:56.400	165IF4B	7SCAN	NORM,337.872997,	Check S/P Position	4R5	4	1	3,683,176	75:0
593	96	309	13:37:57.066	175TF176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R5	4	1	3,683,176	76:0
594	96	309	13:37:57.666		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2377.55 +/-	4R5	4	1	3,683,176	76:9
595	96	309	13:38:00.400	117IF	**CSMOS**	GS	***** GROUP START CSMOS	4R5	4	1	3,683,176	81:0
596	96	309	13:38:01.066	428FK6A	6RCCLR			4R5	4	1	3,683,176	82:0
597	96	309	13:38:01.733	428FK6B	6RCSET	14		4R5	4	1	3,683,176	83:0
598	96	309	13:38:05.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2379.44 +/-	4R5	4	1	3,683,176	89:0
599	96	309	13:38:05.733	175IF422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R5	4	1	3,683,176	89:0
600	96	309	13:38:07.133		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2379.50 +/-	4R5	4	1	3,683,177	00:1
601	96	309	13:38:08.400	165IF4C	7VECT		Inert vect update UTC	4R5	4	1	3,683,177	02:0
602	96	309	13:38:09.066	165IF4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R5	4	1	3,683,177	03:0
603	96	309	13:38:09.733	117IF105A106A4A	7STRP	0.033012,0.0,0,0	Slew =,3.05	4R5	4	1	3,683,177	04:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	96	309	13:38:11.733	175IF176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	4R5	4	1	3,683,177	07:0
605	96	309	13:38:12.333		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2443.52 +/- 1	4R5	4	1	3,683,177	07:9
606	96	309	13:38:17.066	428FN6A	6RCCLR			4R5	4	1	3,683,177	15:0
607	96	309	13:38:17.733	428FN6B	6RCSET	11		4R5	4	1	3,683,177	16:0
608	96	309	13:38:23.733		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2724.07 +/- 1	4R5	4	1	3,683,177	25:0
609	96	309	13:38:23.733	117IF105A106B4A	7STRP	0.007,0.007,0,0,	Slew =0,5.0	4R5	4	1	3,683,177	25:0
610	96	309	13:38:23.733	175TG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R5	4	1	3,683,177	25:0
611	96	309	13:38:26.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2735.07 +/- 1	4R5	4	1	3,683,177	29:7
612	96	309	13:38:27.733	175TG176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R5	4	1	3,683,177	31:0
613	96	309	13:38:28.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2735.18 +/- 1	4R5	4	1	3,683,177	31:9
614	96	309	13:38:30.400	428FO6A	6RCCLR			4R5	4	1	3,683,177	35:0
615	96	309	13:38:31.066	428FO6B	6RCSET	14		4R5	4	1	3,683,177	36:0
616	96	309	13:38:35.733	175TY422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R5	4	1	3,683,177	43:0
617	96	309	13:38:35.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2736.92 +/- 1	4R5	4	1	3,683,177	43:0
618	96	309	13:38:37.133		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2736.98 +/- 1	4R5	4	1	3,683,177	45:1
619	96	309	13:38:39.733	117IF105A106B4B	7STRP	-0.041023,0.0,0,	Slew =,3.05	4R5	4	1	3,683,177	49:0
620	96	309	13:38:41.733	175TY176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	4R5	4	1	3,683,177	52:0
621	96	309	13:38:42.333		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2800.99 +/- 1	4R5	4	1	3,683,177	52:9
622	96	309	13:38:47.066	428FP6A	6RCCLR			4R5	4	1	3,683,177	60:0
623	96	309	13:38:47.733	428FP6B	6RCSET	11		4R5	4	1	3,683,177	61:0
624	96	309	13:38:53.733		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3081.54 +/- 1	4R5	4	1	3,683,177	70:0
625	96	309	13:38:53.733	175TH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R5	4	1	3,683,177	70:0
626	96	309	13:38:56.400	117IF11A	**CSMOS**	GE	***** GROUP END CSMOS	4R5	4	1	3,683,177	74:0
627	96	309	13:38:56.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3092.54 +/- 1	4R5	4	1	3,683,177	74:7
628	96	309	13:38:57.733	175TH176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R5	4	1	3,683,177	76:0
629	96	309	13:38:58.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3092.66 +/- 1	4R5	4	1	3,683,177	76:9
630	96	309	13:39:11.733	117IG	**CSMOS**	GS	***** GROUP START CSMOS	4R5	4	1	3,683,178	06:0
631	96	309	13:39:15.066	165IG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R5	4	1	3,683,178	11:0
632	96	309	13:39:15.733	165IG4B	7SCAN	NORM,5.324,-16.3	Check S/P Position	4R5	4	1	3,683,178	12:0
633	96	309	13:39:23.733	428FQ6A	6RCCLR			4R5	4	1	3,683,178	24:0
634	96	309	13:39:24.400	428FQ6B	6RCSET	14		4R5	4	1	3,683,178	25:0
635	96	309	13:39:57.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3106.58 +/- 1	4R5	4	1	3,683,178	75:0
636	96	309	13:39:57.733	175IG422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R5	4	1	3,683,178	75:0
637	96	309	13:39:59.133		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *3106.64 +/- 1	4R5	4	1	3,683,178	77:1
638	96	309	13:40:00.400	165IG4C	7VECT		Inert vect update UTC	4R5	4	1	3,683,178	79:0
639	96	309	13:40:01.066	165IG4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R5	4	1	3,683,178	80:0
640	96	309	13:40:01.733	117IG105A106A4A	7STRP	-0.019002,0.0,0,	Slew =,3.01	4R5	4	1	3,683,178	81:0
641	96	309	13:40:03.733	175IG176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	4R5	4	1	3,683,178	84:0
642	96	309	13:40:04.333		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3170.66 +/- 1	4R5	4	1	3,683,178	84:9
643	96	309	13:40:07.066	428FR6A	6RCCLR			4R5	4	1	3,683,178	89:0
644	96	309	13:40:07.733	428FR6B	6RCSET	11		4R5	4	1	3,683,178	90:0
645	96	309	13:40:11.066	175TI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R5	4	1	3,683,179	04:0
646	96	309	13:40:11.066	117IG105A106B4A	7STRP	-0.0042,0.007,0,	Slew =0,5.0	4R5	4	1	3,683,179	04:0
647	96	309	13:40:11.066		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3336.36 +/- 1	4R5	4	1	3,683,179	04:0
648	96	309	13:40:14.200		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3347.36 +/- 2	4R5	4	1	3,683,179	08:7
649	96	309	13:40:15.066	175TI176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R5	4	1	3,683,179	10:0
650	96	309	13:40:15.666		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3347.48 +/- 2	4R5	4	1	3,683,179	10:9
651	96	309	13:40:17.733	428FS6A	6RCCLR			4R5	4	1	3,683,179	14:0
652	96	309	13:40:18.400	428FS6B	6RCSET	14		4R5	4	1	3,683,179	15:0
653	96	309	13:40:23.066	175LZ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R5	4	1	3,683,179	22:0
654	96	309	13:40:23.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3349.21 +/- 2	4R5	4	1	3,683,179	22:0
655	96	309	13:40:24.466		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *3349.27 +/- 2	4R5	4	1	3,683,179	24:1
656	96	309	13:40:27.066	117IG105A106B4B	7STRP	0.025005,0.0,0,0	Slew =,3.01	4R5	4	1	3,683,179	28:0
657	96	309	13:40:29.066	175LZ176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	4R5	4	1	3,683,179	31:0
658	96	309	13:40:29.666		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3413.29 +/- 2	4R5	4	1	3,683,179	31:9

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	96	309	13:40:32.400	428FT6A	6RCCLR			4R5	4	1	3,683,179:36:0	
660	96	309	13:40:33.066	428FT6B	6RCSET	11		4R5	4	1	3,683,179:37:0	
661	96	309	13:40:36.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3578.99 +/- 2	4R5	4	1	3,683,179:42:0	
662	96	309	13:40:36.400	175TJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R5	4	1	3,683,179:42:0	
663	96	309	13:40:39.533		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3589.99 +/- 2	4R5	4	1	3,683,179:46:7	
664	96	309	13:40:40.400	175TJ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R5	4	1	3,683,179:48:0	
665	96	309	13:40:40.400	117IG11A	**CSMOS**	GE	***** GROUP END CSMOS	4R5	4	1	3,683,179:48:0	
666	96	309	13:40:40.400	165CQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R5	4	1	3,683,179:48:0	
667	96	309	13:40:41.000		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3590.11 +/- 2	4R5	4	1	3,683,179:48:9	
668	96	309	13:40:41.066	165CQ4B	7SCAN	NORM,4.999,-9.81	Check S/P Position	4R5	4	1	3,683,179:49:0	
669	96	309	13:46:20.400	428FU6A	6RCCLR			4R5	4	1	3,683,185:12:0	
670	96	309	13:46:21.066	428FU6B	6RCSET	12		4R5	4	1	3,683,185:13:0	
671	**96**	**309**	**13:47:16.999**	**C3CNCSPOTS01-**		**-----START------**		**4R5**	**4**	**1**	**: :**	
672	**96**	**309**	**13:51:11.066**	**127DE4A**	**37IOP**	**1,0**	**Full Map, Grating Start Position =00**	**4R1**	**4**	**0**	**3,683,189:84:0**	
673	96	309	13:51:11.066	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	4R1	4	0	3,683,189:84:0	
674	**96**	**309**	**13:51:11.733**	**127DE4B**	**37ETB**	**04,CA,1B,FF,FF**	**Loads wavelength edit table**	**4R1**	**4**	**0**	**3,683,189:85:0**	
675	96	309	13:51:19.733	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R1	4	0	3,683,190:06:0	
676	96	309	13:51:25.733	165DE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,190:15:0	
677	96	309	13:51:26.400	165DE4B	7SCAN	NORM,49.161,2.13	Check S/P Position	4R1	4	0	3,683,190:16:0	
678	96	309	13:52:07.066	117DE	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,683,190:77:0	
679	96	309	13:52:07.733	175DE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R1	4	0	3,683,190:78:0	
680	96	309	13:52:07.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3751.06 +/- 2	4R1	4	0	3,683,190:78:0	
681	96	309	13:52:09.133		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *3751.12 +/- 2	4R1	4	0	3,683,190:80:1	
682	96	309	13:52:13.066	175DE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R1	4	0	3,683,190:86:0	
683	96	309	13:52:13.133		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *3752.62 +/- 2	4R1	4	0	3,683,190:86:1	
684	96	309	13:52:15.066	165DE4C	7VECT		Inert vect update UTC	4R1	4	0	3,683,190:89:0	
685	96	309	13:52:15.733	165DE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R1	4	0	3,683,190:90:0	
686	**96**	**309**	**13:52:16.397**	**C3CNCSPOTS01-**	**NIMPBK**	**301DE**	**CALLISTO BRIGHT SPOTS**	**4R1**	**4**	**0**	**: :**	
687	96	309	13:52:16.400	117DE105A106A4A	7STRP	0.0104,0.0,0,0,0	Slew =,0.06	4R1	4	0	3,683,191:00:0	
688	96	309	13:54:17.066	428FV6A	6RCCLR			4R1	4	0	3,683,192:90:0	
689	**96**	**309**	**13:54:17.730**	**C3CNCSPOTS01-**	**DESELC**	**300DE**	**CALLISTO BRIGHT SPOTS**	**4R1**	**4**	**0**	**: :**	
690	96	309	13:54:17.733	428FV6B	6RCSET	8		4R1	4	0	3,683,193:00:0	
691	**96**	**309**	**13:54:21.666**	**C3CNCSPOTS01-**		**-----STOP-------**		**4R1**	**4**	**0**	**: :**	
692	96	309	13:55:11.733	117DE105A106A4B	7STRP	-0.011,-0.008,0,	Slew =12.01	4R1	4	0	3,683,193:81:0	
693	96	309	13:55:23.066	117DE105A106A4C	7STRP	0.0104,0.0,0,0,0	Slew =,0.06	4R1	4	0	3,683,194:07:0	
694	96	309	13:57:19.733	432MB6A	6RTSL1		R/T Select of DDS and	4R1	4	0	3,683,196:00:0	
695	96	309	13:58:18.400	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,683,196:88:0	
696	96	309	13:58:19.733		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *4074.83 +/- 2	4R1	4	0	3,683,196:90:0	
697	96	309	13:58:19.733	175TK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,196:90:0	
698	96	309	13:58:21.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4075.05 +/- 2	4R1	4	0	3,683,197:01:1	
699	96	309	13:58:22.400	175TK176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R1	4	0	3,683,197:03:0	
700	96	309	13:58:22.600		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4075.17 +/- 2	4R1	4	0	3,683,197:03:3	
701	96	309	13:59:23.066	428FW6A	6RCCLR			4R1	4	0	3,683,198:03:0	
702	96	309	14:00:19.733	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4R1	4	0	3,683,198:88:0	
703	96	309	14:00:20.400	432MC6A	6RTSL1		R/T Select of DDS and	4R1	4	0	3,683,198:89:0	
704	96	309	14:00:23.733	432OL431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R1	4	0	3,683,199:03:0	
705	96	309	14:00:23.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4103.56 +/- 2	4R1	4	0	3,683,199:03:0	
706	96	309	14:00:23.733	175TK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,199:03:0	
707	96	309	14:00:24.400	432OL6A	6RTSL1		R/T Select of DDS and	4R1	4	0	3,683,199:04:0	
708	96	309	14:00:25.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4103.62 +/- 2	4R1	4	0	3,683,199:05:1	
709	96	309	14:00:25.733	488AJ6A	6TMSED	FILL,EL1	Sci, Eng, and D/L Chan	4R1	4	0	3,683,199:06:0	
710	96	309	14:00:27.733	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4R1	4	0	3,683,199:09:0	
711	96	309	14:01:16.400	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4R1	4	0	3,683,199:82:0	
712	96	309	14:01:17.066	282NB432A6A	6RTSL1		R/T Select of DDS and	4R1	4	0	3,683,199:83:0	
713	96	309	14:02:06.400	175KC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R1	4	0	3,683,200:66:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	96	309	14:02:06.400		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 4103.62 +/- 2	4R1	4	0	3,683,200	66:0
715	96	309	14:02:18.400	175KC176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R1	4	0	3,683,200	84:0
716	96	309	14:02:18.466		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *4106.51 +/- 2	4R1	4	0	3,683,200	84:1
717	96	309	14:02:23.066	411JB6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,201	00:0
718	96	309	14:02:23.066		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *4110.55 +/- 2	4R1	4	0	3,683,201	00:0
719	96	309	14:02:24.466		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4110.77 +/- 2	4R1	4	0	3,683,201	02:1
720	96	309	14:02:25.933		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4110.89 +/- 2	4R1	4	0	3,683,201	04:3
721	96	309	14:02:26.400	411JB6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R1	4	0	3,683,201	05:0
722	96	309	14:04:27.733	411JB6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R1	4	0	3,683,203	05:0
723	96	309	14:04:28.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4139.60 +/- 2	4R1	4	0	3,683,203	06:0
724	96	309	14:04:28.400	411JB6D	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,203	06:0
725	96	309	14:04:29.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4139.66 +/- 2	4R1	4	0	3,683,203	08:1
726	96	309	14:16:04.400	165GF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,214	49:0
727	96	309	14:16:05.066	165GF4B	7SCAN	NORM,54.428,22.7	Check S/P Position	4R1	4	0	3,683,214	50:0
728	96	309	14:19:38.400	117GF	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,683,218	06:0
729	96	309	14:20:08.400	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R1	4	0	3,683,218	51:0
730	96	309	14:20:08.400	117GF105A106A4A	7STRP	-0.002,0.00275,0	Slew =,0.26	4R1	4	0	3,683,218	51:0
731	96	309	14:20:27.733	117GF11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,683,218	80:0
732	96	309	14:20:41.733	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R1	4	0	3,683,219	10:0
733	96	309	14:20:43.733		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4139.66 +/- 2	4R1	4	0	3,683,219	13:0
734	96	309	14:20:43.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,219	13:0
735	96	309	14:20:53.733		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4141.77 +/- 2	4R1	4	0	3,683,219	28:0
736	96	309	14:21:01.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4143.49 +/- 2	4R1	4	0	3,683,219	39:0
737	96	309	14:21:01.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,219	39:0
738	96	309	14:21:02.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4143.55 +/- 2	4R1	4	0	3,683,219	41:1
739	96	309	14:21:56.400	165GB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,220	31:0
740	96	309	14:21:57.066	165GB4B	7SCAN	NORM,52.16,21.30	Check S/P Position	4R1	4	0	3,683,220	32:0
741	96	309	14:25:42.400	117GB	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,683,224	06:0
742	96	309	14:26:00.400	176GF6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R1	4	0	3,683,224	33:0
743	96	309	14:26:00.400	117GB105A106A4A	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,224	33:0
744	96	309	14:29:35.733	117GB105A106A4B	7STRP	-0.085205,0.0017	Slew =12.01	4R1	4	0	3,683,227	83:0
745	96	309	14:29:46.400	117GB105A106A4C	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,228	08:0
746	96	309	14:33:21.733	117GB105A106A4D	7STRP	-0.085205,0.0017	Slew =12.01	4R1	4	0	3,683,231	58:0
747	96	309	14:33:32.400	117GB105A106A4E	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,231	74:0
748	96	309	14:37:07.733	117GB105A106A4F	7STRP	-0.085205,0.0017	Slew =12.01	4R1	4	0	3,683,235	33:0
749	96	309	14:37:18.400	117GB105A106A4G	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,235	49:0
750	96	309	14:38:35.733		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4143.55 +/- 2	4R1	4	0	3,683,236	74:0
751	96	309	14:38:35.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,236	74:0
752	96	309	14:39:00.400		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4149.10 +/- 2	4R1	4	0	3,683,237	20:0
753	96	309	14:39:20.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4153.79 +/- 2	4R1	4	0	3,683,237	50:0
754	96	309	14:39:20.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,237	50:0
755	96	309	14:39:21.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4153.85 +/- 2	4R1	4	0	3,683,237	52:1
756	96	309	14:40:53.733	117GB105A106A4H	7STRP	-0.085205,0.0017	Slew =12.01	4R1	4	0	3,683,239	08:0
757	96	309	14:41:04.400	117GB105A106A4I	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,239	24:0
758	96	309	14:44:39.733	117GB105A106B4A	7STRP	-0.082436,0.0012	Slew =12.01	4R1	4	0	3,683,242	74:0
759	96	309	14:44:50.400	117GB105A106B4B	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,242	90:0
760	96	309	14:48:25.733	117GB105A106B4C	7STRP	-0.082436,0.0012	Slew =12.01	4R1	4	0	3,683,246	49:0
761	96	309	14:48:36.400	117GB105A106B4D	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,246	65:0
762	96	309	14:51:37.733		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4153.85 +/- 2	4R1	4	0	3,683,249	64:0
763	96	309	14:51:37.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,249	64:0
764	96	309	14:52:02.400		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4159.40 +/- 2	4R1	4	0	3,683,250	10:0
765	96	309	14:52:11.733	117GB105A106B4E	7STRP	-0.082436,0.0012	Slew =12.01	4R1	4	0	3,683,250	24:0
766	96	309	14:52:22.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4164.09 +/- 2	4R1	4	0	3,683,250	40:0
767	96	309	14:52:22.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,250	40:0
768	96	309	14:52:22.400	117GB105A106B4F	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,250	40:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	96	309	14:52:23.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4164.15 +/- 2	4R1	4	0	3,683,250:42:1	
770	96	309	14:55:57.733	117GB105A106B4G	7STRP	-0.082436,0.0012	Slew =12.01	4R1	4	0	3,683,253:90:0	
771	96	309	14:56:08.400	117GB105A106B4H	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,254:15:0	
772	96	309	14:59:43.733	117GB105A106B4I	7STRP	-0.082436,0.0012	Slew =12.01	4R1	4	0	3,683,257:65:0	
773	96	309	14:59:54.400	117GB105A106B4J	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,257:81:0	
774	96	309	15:03:29.733	117GB105A106C4A	7STRP	-0.081178,0.0007	Slew =12.01	4R1	4	0	3,683,261:40:0	
775	96	309	15:03:40.400	117GB105A106C4B	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,261:56:0	
776	96	309	15:04:39.733		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4164.15 +/- 2	4R1	4	0	3,683,262:54:0	
777	96	309	15:04:39.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,262:54:0	
778	96	309	15:05:04.400		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4169.70 +/- 2	4R1	4	0	3,683,263:00:0	
779	96	309	15:05:24.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,263:30:0	
780	96	309	15:05:24.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4174.39 +/- 2	4R1	4	0	3,683,263:30:0	
781	96	309	15:05:25.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4174.45 +/- 2	4R1	4	0	3,683,263:32:1	
782	96	309	15:07:15.733	117GB105A106C4C	7STRP	-0.081178,0.0007	Slew =12.01	4R1	4	0	3,683,265:15:0	
783	96	309	15:07:26.400	117GB105A106C4D	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,265:31:0	
784	96	309	15:11:01.733	117GB105A106C4E	7STRP	-0.081178,0.0007	Slew =12.01	4R1	4	0	3,683,268:81:0	
785	96	309	15:11:12.400	117GB105A106C4F	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,269:06:0	
786	96	309	15:14:47.733	117GB105A106C4G	7STRP	-0.081178,0.0007	Slew =12.01	4R1	4	0	3,683,272:56:0	
787	96	309	15:14:58.400	117GB105A106C4H	7STRP	0.077153,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,272:72:0	
788	96	309	15:17:42.400		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4174.45 +/- 2	4R1	4	0	3,683,275:45:0	
789	96	309	15:17:42.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,275:45:0	
790	96	309	15:18:06.400		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4179.84 +/- 2	4R1	4	0	3,683,275:81:0	
791	96	309	15:18:26.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,276:20:0	
792	96	309	15:18:26.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4184.53 +/- 2	4R1	4	0	3,683,276:20:0	
793	96	309	15:18:27.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4184.59 +/- 2	4R1	4	0	3,683,276:22:1	
794	96	309	15:18:33.733	117GB105A106D4A	7STRP	-0.068105,0.0240	Slew =12.01	4R1	4	0	3,683,276:31:0	
795	96	309	15:18:44.400	117GB105A106D4B	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,276:47:0	
796	96	309	15:21:15.066	117GB105A106E4A	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,279:00:0	
797	96	309	15:21:25.066	117GB105A106E4B	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,279:15:0	
798	96	309	15:23:40.400	488AJ6B	6TMSED	FILL,EL2	Sci, Eng, and D/L Chan	4R1	4	0	3,683,281:36:0	
799	96	309	15:23:57.066	117GB105A106E4C	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,281:61:0	
800	96	309	15:24:07.066	117GB105A106E4D	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,281:76:0	
801	96	309	15:26:39.066	117GB105A106E4E	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,284:31:0	
802	96	309	15:26:49.066	117GB105A106E4F	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,284:46:0	
803	96	309	15:29:21.066	117GB105A106E4G	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,287:01:0	
804	96	309	15:29:31.066	117GB105A106E4H	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,287:16:0	
805	96	309	15:30:44.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,288:35:0	
806	96	309	15:30:44.400		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4184.59 +/- 2	4R1	4	0	3,683,288:35:0	
807	96	309	15:31:09.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4190.14 +/- 2	4R1	4	0	3,683,288:72:0	
808	96	309	15:31:29.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4194.83 +/- 2	4R1	4	0	3,683,289:11:0	
809	96	309	15:31:29.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,289:11:0	
810	96	309	15:31:30.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4194.89 +/- 2	4R1	4	0	3,683,289:13:1	
811	96	309	15:32:03.066	117GB105A106E4I	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,289:62:0	
812	96	309	15:32:13.066	117GB105A106E4J	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,289:77:0	
813	96	309	15:34:18.400	488AJ6C	6TMSED	NORM,EL2	Sci, Eng, and D/L Chan	4R1	4	0	3,683,291:83:0	
814	96	309	15:34:45.066	117GB105A106E4K	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,292:32:0	
815	96	309	15:34:55.066	117GB105A106E4L	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,292:47:0	
816	96	309	15:37:27.066	117GB105A106E4M	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,295:02:0	
817	96	309	15:37:37.066	117GB105A106E4N	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,295:17:0	
818	96	309	15:40:09.066	117GB105A106E4O	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,297:63:0	
819	96	309	15:40:19.066	117GB105A106E4P	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,297:78:0	
820	96	309	15:42:51.066	117GB105A106E4Q	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,300:33:0	
821	96	309	15:43:01.066	117GB105A106E4R	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,300:48:0	
822	96	309	15:43:46.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,301:25:0	
823	96	309	15:43:46.400		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4194.89 +/- 2	4R1	4	0	3,683,301:25:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	96	309	15:44:11.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4200.44 +/- 2	4R1	4	0	3,683,301	62:0
825	96	309	15:44:31.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,302	01:0
826	96	309	15:44:31.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4205.13 +/- 2	4R1	4	0	3,683,302	01:0
827	96	309	15:44:32.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4205.19 +/- 2	4R1	4	0	3,683,302	03:1
828	96	309	15:45:33.066	117GB105A106E4S	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,303	03:0
829	96	309	15:45:43.066	117GB105A106E4T	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,303	18:0
830	96	309	15:48:15.066	117GB105A106E4U	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,305	64:0
831	96	309	15:48:25.066	117GB105A106E4V	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,305	79:0
832	96	309	15:50:57.066	117GB105A106E4W	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,308	34:0
833	96	309	15:51:07.066	117GB105A106E4X	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,308	49:0
834	96	309	15:53:39.066	117GB105A106E4Y	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,311	04:0
835	96	309	15:53:49.066	117GB105A106E4Z	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,311	19:0
836	96	309	15:56:21.066	117GB105A106E4AA	7STRP	-0.055557,-0.002	Slew =12.01	4R1	4	0	3,683,313	65:0
837	96	309	15:56:31.066	117GB105A106E4AB	7STRP	0.054053,0.0,0,0	Slew =,0.37	4R1	4	0	3,683,313	80:0
838	96	309	15:56:49.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,314	16:0
839	96	309	15:56:49.066		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4205.19 +/- 2	4R1	4	0	3,683,314	16:0
840	96	309	15:57:13.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4210.59 +/- 2	4R1	4	0	3,683,314	52:0
841	96	309	15:57:33.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,314	82:0
842	96	309	15:57:33.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4215.28 +/- 2	4R1	4	0	3,683,314	82:0
843	96	309	15:57:34.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4215.34 +/- 2	4R1	4	0	3,683,314	84:1
844	96	309	15:59:03.066	117GB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,683,316	35:0
845	96	309	16:00:35.066	176GF6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R1	4	0	3,683,317	82:0
846	96	309	16:00:37.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,317	85:0
847	96	309	16:00:37.066		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4215.34 +/- 2	4R1	4	0	3,683,317	85:0
848	96	309	16:00:47.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4217.45 +/- 2	4R1	4	0	3,683,318	09:0
849	96	309	16:00:57.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,318	24:0
850	96	309	16:00:57.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4219.79 +/- 2	4R1	4	0	3,683,318	24:0
851	96	309	16:00:58.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4219.85 +/- 2	4R1	4	0	3,683,318	26:1
852	96	309	16:02:41.066	165CR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,319	89:0
853	96	309	16:02:41.733	165CR4B	7SCAN	NORM,251.434999,	Check S/P Position	4R1	4	0	3,683,319	90:0
854	96	309	16:59:59.733	488AJ6D	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	4R1	4	0	3,683,376	60:0
855	96	309	17:29:23.066		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 4219.85 +/- 2	4R1	4	0	3,683,405	66:0
856	96	309	17:29:23.066	175KX422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R1	4	0	3,683,405	66:0
857	96	309	17:29:35.066	175KX176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R1	4	0	3,683,405	84:0
858	96	309	17:29:35.133		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *4222.75 +/- 2	4R1	4	0	3,683,405	84:1
859	96	309	17:29:39.733		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *4226.79 +/- 2	4R1	4	0	3,683,406	00:0
860	96	309	17:29:39.733	411JC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,683,406	00:0
861	96	309	17:29:41.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4227.01 +/- 2	4R1	4	0	3,683,406	02:1
862	96	309	17:29:42.600		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4227.13 +/- 2	4R1	4	0	3,683,406	04:3
863	96	309	17:29:43.066	411JC6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R1	4	0	3,683,406	05:0
864	96	309	17:31:44.400	411JC6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R1	4	0	3,683,408	05:0
865	96	309	17:31:45.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4255.83 +/- 2	4R1	4	0	3,683,408	06:0
866	96	309	17:31:45.066	411JC6D	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,408	06:0
867	96	309	17:31:46.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4255.89 +/- 2	4R1	4	0	3,683,408	08:1
868	96	309	18:10:51.733	488AJ6E	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	4R1	4	0	3,683,446	68:0
869	96	309	18:16:28.400	488AK6A	6TMSED	FILL,CL1	Sci, Eng, and D/L Chan	4R1	4	0	3,683,452	27:0
870	96	309	18:19:11.066	165CS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,454	89:0
871	96	309	18:19:11.733	165CS4B	7SCAN	NORM,219.162998,	Check S/P Position	4R1	4	0	3,683,454	90:0
872	96	309	18:49:31.066	165CD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,484	89:0
873	96	309	18:49:31.733	165CD4B	7SCAN	NORM,220.063999,	Check S/P Position	4R1	4	0	3,683,484	90:0
874	96	309	18:52:44.400	488AK6B	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	4R1	4	0	3,683,488	15:0
875	96	309	19:19:51.066	165CG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,514	89:0
876	96	309	19:19:51.733	165CG4B	7SCAN	NORM,220.983,-17	Check S/P Position	4R1	4	0	3,683,514	90:0
877	96	309	19:39:25.066	488AK6C	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	4R1	4	0	3,683,534	30:0
878	96	309	20:04:37.733	488AK6D	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	4R1	4	0	3,683,559	24:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	96	309	21:31:54.400	488AK6E	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	4R1	4	0	3,683,645:53:0	
880	96	309	21:34:52.400	488AL6A	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	4R1	4	0	3,683,648:47:0	
881	96	309	22:14:46.400	165JF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,687:89:0	
882	96	309	22:14:47.066	165JF4B	7SCAN	NORM,233.294998,	Check S/P Position	4R1	4	0	3,683,687:90:0	
883	96	309	22:18:39.066		DMS:	: *US-RUNUP	R115, TRACK 3, FWD, TIC 4255.89 +/- 2	4R1	4	0	3,683,691:74:0	
884	96	309	22:18:39.066	175IH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,683,691:74:0	
885	96	309	22:18:42.400	118JF	**SMOS**	GS		4R1	4	0	3,683,691:79:0	
886	96	309	22:18:51.066	175IH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,683,692:01:0	
887	96	309	22:18:51.133		DMS:	**: *RECORD**	R115, TRACK 3, FWD, TIC *4263.56 +/- 2	4R1	4	0	3,683,692:01:1	
888	96	309	22:18:52.400	118JF110A111A4A	7STRP	0.0065,0.0025,46	Slew =,3.01	4R1	4	0	3,683,692:03:0	
889	96	309	22:19:07.733	118JF110A111A4B	7STRP	-0.0065,-0.0025,	Slew =,3.01	4R1	4	0	3,683,692:26:0	
890	96	309	22:19:23.066	118JF110A111A4C	7STRP	0.0065,0.0025,46	Slew =,3.01	4R1	4	0	3,683,692:49:0	
891	96	309	22:19:38.400	118JF110A111A4D	7STRP	-0.0065,-0.0025,	Slew =,3.01	4R1	4	0	3,683,692:72:0	
892	96	309	22:19:53.733	118JF110A111A4E	7STRP	0.0065,0.0025,46	Slew =,3.01	4R1	4	0	3,683,693:04:0	
893	96	309	22:20:09.066	118JF110A111A4F	7STRP	-0.0065,-0.0025,	Slew =,3.01	4R1	4	0	3,683,693:27:0	
894	96	309	22:20:21.733	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,683,693:46:0	
895	96	309	22:20:21.733		DMS:	**: *RUNDOWN**	R115, TRACK 3, FWD, TIC *4582.07 +/- 2	4R1	4	0	3,683,693:46:0	
896	96	309	22:20:23.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4582.99 +/- 2	4R1	4	0	3,683,693:48:1	
897	96	309	22:20:24.400	118JF110A111A4G	7STRP	0.0065,0.0025,46	Slew =,3.01	4R1	4	0	3,683,693:50:0	
898	96	309	22:20:39.733	118JF11A	**SMOS**	GE		4R1	4	0	3,683,693:73:0	
899	96	309	22:49:32.400	488AL6B	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	4R1	4	0	3,683,722:33:0	
900	96	309	23:21:32.400	488AL6C	6TMSED	NORM,CL5	Sci, Eng, and D/L Chan	4R1	4	0	3,683,754:01:0	
901	96	310	00:13:04.400	165DF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,683,804:89:0	
902	96	310	00:13:05.066	165DF4B	7SCAN	NORM,236.483,-22	Check S/P Position	4R1	4	0	3,683,804:90:0	
903	**96**	**310**	**00:13:09.667**	**C3JNFEA05101-**		**-----START------**		**4R1**	**4**	**0**	**: :**	
904	**96**	**310**	**00:15:02.400**	**125DF4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R1**	**4**	**0**	**3,683,806:84:0**	
905	96	310	00:15:02.400	125DF11A	NIMSINIT	GE	##### GROUP END INIT	2R1	4	0	3,683,806:84:0	
906	96	310	00:15:02.400	125DF	NIMSINIT	GS	##### GROUP START INIT	2R1	4	0	3,683,806:84:0	
907	96	310	00:16:03.066	127DF	NIMSTAB	GS	%%%%% GROUP START TAB	2R1	4	0	3,683,807:84:0	
908	**96**	**310**	**00:16:03.066**	**127DF4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,683,807:84:0**	
909	**96**	**310**	**00:16:03.733**	**127DF4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,683,807:85:0**	
910	96	310	00:16:11.733	127DF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,683,808:06:0	
911	96	310	00:16:49.066	175KD422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,683,808:62:0	
912	96	310	00:16:49.066		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 4582.99 +/- 2	2R5	4	1	3,683,808:62:0	
913	96	310	00:16:59.066	117DF	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,683,808:77:0	
914	96	310	00:17:01.066	175KD176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,683,808:80:0	
915	96	310	00:17:01.133		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *4585.88 +/- 2	2R5	4	1	3,683,808:80:1	
916	96	310	00:17:02.400		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *4586.99 +/- 2	2R5	4	1	3,683,808:82:0	
917	96	310	00:17:02.400	175DF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,683,808:82:0	
918	96	310	00:17:03.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4587.21 +/- 2	2R5	4	1	3,683,808:84:1	
919	96	310	00:17:05.066	175DF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,683,808:86:0	
920	96	310	00:17:05.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4587.33 +/- 2	2R5	4	1	3,683,808:86:3	
921	**96**	**310**	**00:17:05.707**	**C3JNFEA05101-**	**NIMPBK**	**301DF**	**JUPITER CAMPAIGN FEATURE 51 DEG**	**2R5**	**4**	**1**	**: :**	
922	96	310	00:17:08.400	117DF105A106A4A	7STRP	-0.01,0.0,0,0,0,	Slew =0,0.1	2R5	4	1	3,683,809:00:0	
923	**96**	**310**	**00:18:50.374**	**C3JNFEA05101-**	**DESELC**	**300DF**	**JUPITER CAMPAIGN FEATURE 51 DEG**	**2R5**	**4**	**1**	**: :**	
924	96	310	00:18:51.066	117DF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,683,810:63:0	
925	96	310	00:18:52.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4612.44 +/- 2	2R5	4	1	3,683,810:65:0	
926	96	310	00:18:52.400	175DF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,683,810:65:0	
927	96	310	00:18:52.400	175DF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,683,810:65:0	
928	96	310	00:18:53.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4612.50 +/- 2	2R5	4	1	3,683,810:67:1	
929	**96**	**310**	**00:19:09.667**	**C3JNFEA05101-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
930	96	310	00:29:48.400	488AL6D	6TMSED	NORM,CL6	Sci, Eng, and D/L Chan	2R5	4	1	3,683,821:48:0	
931	96	310	01:12:43.666	165HK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,683,863:89:0	
932	96	310	01:12:44.333	165HK4B	7SCAN	NORM,237.07,-22.	Check S/P Position	2R5	4	1	3,683,863:90:0	
933	96	310	01:12:49.000	117HK	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,683,864:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	96	310	01:13:40.333	176GG6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,683,864:83:0	
935	96	310	01:13:40.333	117HK105A106A4A	7STRP	-0.0096,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,683,864:83:0	
936	96	310	01:15:19.666	117HK105A106A4B	7STRP	0.0099,-0.00122,	Slew =12.01	2R5	4	1	3,683,866:50:0	
937	96	310	01:15:26.333	117HK105A106A4C	7STRP	-0.0096,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,683,866:60:0	
938	96	310	01:17:05.666	117HK105A106A4D	7STRP	0.0099,-0.00122,	Slew =12.01	2R5	4	1	3,683,868:27:0	
939	96	310	01:17:12.333	117HK105A106A4E	7STRP	-0.0096,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,683,868:37:0	
940	96	310	01:18:51.666	117HK105A106A4F	7STRP	0.0099,-0.00122,	Slew =12.01	2R5	4	1	3,683,870:04:0	
941	96	310	01:18:58.333	117HK105A106A4G	7STRP	-0.0096,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,683,870:14:0	
942	96	310	01:20:37.666	117HK105A106A4H	7STRP	0.0099,-0.00122,	Slew =12.01	2R5	4	1	3,683,871:72:0	
943	96	310	01:20:44.333	117HK105A106A4I	7STRP	-0.0096,0.0,0,0,	Slew =0,0.1	2R5	4	1	3,683,871:82:0	
944	96	310	01:22:21.000	176GG6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,683,873:45:0	
945	96	310	01:22:23.000		DMS:	: *US-RUNUP	R7, TRACK 3, FWD, TIC 4612.50 +/- 2	2R5	4	1	3,683,873:48:0	
946	96	310	01:22:23.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,683,873:48:0	
947	96	310	01:22:23.666	117HK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,683,873:49:0	
948	96	310	01:22:33.000		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4614.61 +/- 2	2R5	4	1	3,683,873:63:0	
949	96	310	01:22:48.333	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,683,873:86:0	
950	96	310	01:22:48.333		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4618.21 +/- 2	2R5	4	1	3,683,873:86:0	
951	96	310	01:22:49.733		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4618.27 +/- 2	2R5	4	1	3,683,873:88:1	
952	96	310	01:23:51.000	165DG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,683,874:89:0	
953	96	310	01:23:51.666	165DG4B	7SCAN	NORM,235.775,-21	Check S/P Position	2R5	4	1	3,683,874:90:0	
954	**96**	**310**	**01:23:56.334**	**C3JNFEA05102-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
955	96	310	01:27:35.666		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 4618.27 +/- 2	2R5	4	1	3,683,878:62:0	
956	96	310	01:27:35.666	175KE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,683,878:62:0	
957	96	310	01:27:45.666	117DG	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,683,878:77:0	
958	96	310	01:27:47.666	175KE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,683,878:80:0	
959	96	310	01:27:47.733		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *4621.16 +/- 2	2R5	4	1	3,683,878:80:1	
960	96	310	01:27:49.000		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *4622.28 +/- 2	2R5	4	1	3,683,878:82:0	
961	96	310	01:27:49.000	175DG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,683,878:82:0	
962	96	310	01:27:50.400		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4622.50 +/- 2	2R5	4	1	3,683,878:84:1	
963	96	310	01:27:51.666	175DG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,683,878:86:0	
964	96	310	01:27:51.866		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4622.61 +/- 2	2R5	4	1	3,683,878:86:3	
965	**96**	**310**	**01:27:52.372**	**C3JNFEA05102-**	**NIMPBK**	**301DG**	**JUPITER CAMPAIGN FEATURE 53 DGRS**	**2R5**	**4**	**1**	**: :**	
966	96	310	01:27:55.000	117DG105A106A4A	7STRP	-0.01,0.0,0,0,0,	Slew =0,0.1	2R5	4	1	3,683,879:00:0	
967	**96**	**310**	**01:29:37.038**	**C3JNFEA05102-**	**DESELC**	**300DG**	**JUPITER CAMPAIGN FEATURE 53 DGRS**	**2R5**	**4**	**1**	**: :**	
968	96	310	01:29:37.666	117DG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,683,880:63:0	
969	96	310	01:29:39.000		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4647.72 +/- 2	2R5	4	1	3,683,880:65:0	
970	96	310	01:29:39.000	175DG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,683,880:65:0	
971	96	310	01:29:39.000	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,683,880:65:0	
972	96	310	01:29:40.400		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4647.78 +/- 2	2R5	4	1	3,683,880:67:1	
973	96	310	01:29:55.000	165IJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,683,880:89:0	
974	96	310	01:29:55.666	165IJ4B	7SCAN	NORM,235.970999,	Check S/P Position	2R5	4	1	3,683,880:90:0	
975	**96**	**310**	**01:29:56.334**	**C3JNFEA05102-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
976	96	310	01:30:00.333	488AL6E	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	2R5	4	1	3,683,881:06:0	
977	96	310	01:33:47.666	175IJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,683,884:74:0	
978	96	310	01:33:47.666		DMS:	: *US-RUNUP	R115, TRACK 3, FWD, TIC 4647.78 +/- 2	2R5	4	1	3,683,884:74:0	
979	96	310	01:33:51.000	118IJ	**SMOS**	GS		2R5	4	1	3,683,884:79:0	
980	96	310	01:33:59.666	175IJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,683,885:01:0	
981	96	310	01:33:59.733		DMS:	**: *RECORD**	R115, TRACK 3, FWD, TIC *4655.45 +/- 2	2R5	4	1	3,683,885:01:1	
982	96	310	01:34:01.000	118IJ110A111A4A	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R5	4	1	3,683,885:03:0	
983	96	310	01:34:16.333	118IJ110A111B4A	7STRP	-0.0067,0.0,0,0,	Slew =,3.01	2R5	4	1	3,683,885:26:0	
984	96	310	01:34:31.666	118IJ110A111B4B	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R5	4	1	3,683,885:49:0	
985	96	310	01:34:47.000	118IJ110A111A4B	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R5	4	1	3,683,885:72:0	
986	96	310	01:35:02.333	118IJ110A111A4C	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R5	4	1	3,683,886:04:0	
987	96	310	01:35:17.666	118IJ110A111B4C	7STRP	-0.0067,0.0,0,0,	Slew =,3.01	2R5	4	1	3,683,886:27:0	
988	96	310	01:35:33.000	118IJ110A111B4D	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R5	4	1	3,683,886:50:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	96	310	01:35:48.333	118IJ110A111A4D	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R5	4	1	3,683,886:73:0	
990	96	310	01:36:03.666	118IJ110A111A4E	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R5	4	1	3,683,887:05:0	
991	96	310	01:36:19.000	118IJ110A111B4E	7STRP	-0.0067,0.0,0,0,	Slew =,3.01	2R5	4	1	3,683,887:28:0	
992	96	310	01:36:34.333	118IJ110A111B4F	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R5	4	1	3,683,887:51:0	
993	96	310	01:36:49.666	118IJ110A111A4F	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R5	4	1	3,683,887:74:0	
994	96	310	01:37:05.000	118IJ110A111A4G	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R5	4	1	3,683,888:06:0	
995	96	310	01:37:20.333	118IJ110A111B4G	7STRP	-0.0067,0.0,0,0,	Slew =,3.01	2R5	4	1	3,683,888:29:0	
996	96	310	01:37:35.666	118IJ110A111B4H	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R5	4	1	3,683,888:52:0	
997	96	310	01:37:51.000	118IJ11A	**SMOS**	GE		2R5	4	1	3,683,888:75:0	
998	96	310	01:38:00.333	165CZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,683,888:89:0	
999	96	310	01:38:01.000	165CZ4B	7SCAN	NORM,236.033998,	Check S/P Position	2R5	4	1	3,683,888:90:0	
1000	96	310	01:38:01.666		DMS:	**: *RUNDOWN**	R115, TRACK 3, FWD, TIC *5505.99 +/- 2	2R5	4	1	3,683,889:00:0	
1001	96	310	01:38:01.666	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,683,889:00:0	
1002	96	310	01:38:03.066		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5506.91 +/- 2	2R5	4	1	3,683,889:02:1	
1003	96	310	01:38:53.000	117CZ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,683,889:77:0	
1004	96	310	01:39:02.333	117CZ105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R5	4	1	3,683,890:00:0	
1005	96	310	01:40:33.000	117CZ105A106B4A	7STRP	-0.007,0.0,0,0,0	Slew =17.01	2R5	4	1	3,683,891:45:0	
1006	96	310	01:41:03.666	117CZ105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R5	4	1	3,683,892:00:0	
1007	96	310	01:42:34.333	117CZ105A106C4A	7STRP	0.007,-0.007,0,0	Slew =17.01	2R5	4	1	3,683,893:45:0	
1008	96	310	01:43:05.000	117CZ105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R5	4	1	3,683,894:00:0	
1009	96	310	01:44:35.666	117CZ105A106D4A	7STRP	-0.007,0.0,0,0,0	Slew =17.01	2R5	4	1	3,683,895:45:0	
1010	96	310	01:45:06.333	117CZ105A106D4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R5	4	1	3,683,896:00:0	
1011	96	310	01:46:37.000	117CZ105A106E4A	7STRP	0.0035,0.0035,0,	Slew =17.01	2R5	4	1	3,683,897:45:0	
1012	96	310	01:47:07.666	117CZ105A106E4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R5	4	1	3,683,898:00:0	
1013	96	310	01:48:38.333	117CZ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,683,899:45:0	
1014	96	310	02:11:22.333	165IW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,683,921:89:0	
1015	96	310	02:11:23.000	165IW4B	7SCAN	NORM,238.893999,	Check S/P Position	2R5	4	1	3,683,921:90:0	
1016	96	310	02:15:47.666		DMS:	: *US-RUNUP	R115, TRACK 3, FWD, TIC 5506.91 +/- 2	2R5	4	1	3,683,926:32:0	
1017	96	310	02:15:47.666	175IK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,683,926:32:0	
1018	96	310	02:15:59.666	175IK176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R5	4	1	3,683,926:50:0	
1019	96	310	02:15:59.733		DMS:	**: *RECORD**	R115, TRACK 3, FWD, TIC *5514.57 +/- 3	2R5	4	1	3,683,926:50:1	
1020	96	310	02:16:24.333		DMS:	**: *RUNDOWN**	R115, TRACK 3, FWD, TIC *5601.06 +/- 3	2R5	4	1	3,683,926:87:0	
1021	96	310	02:16:24.333	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,683,926:87:0	
1022	96	310	02:16:25.733		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5601.97 +/- 3	2R5	4	1	3,683,926:89:1	
1023	96	310	02:16:48.333		DMS:	: *US-RUNUP	R115, TRACK 3, FWD, TIC 5601.97 +/- 3	2R5	4	1	3,683,927:32:0	
1024	96	310	02:16:48.333	175IW422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,683,927:32:0	
1025	96	310	02:17:00.333	175IW176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R5	4	1	3,683,927:50:0	
1026	96	310	02:17:00.400		DMS:	**: *RECORD**	R115, TRACK 3, FWD, TIC *5609.63 +/- 3	2R5	4	1	3,683,927:50:1	
1027	96	310	02:17:25.000	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,683,927:87:0	
1028	96	310	02:17:25.000		DMS:	**: *RUNDOWN**	R115, TRACK 3, FWD, TIC *5696.12 +/- 3	2R5	4	1	3,683,927:87:0	
1029	96	310	02:17:26.400		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5697.03 +/- 3	2R5	4	1	3,683,927:89:1	
1030	96	310	02:43:43.666	165DH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,683,953:89:0	
1031	96	310	02:43:44.333	165DH4B	7SCAN	NORM,236.219999,	Check S/P Position	2R5	4	1	3,683,953:90:0	
1032	**96**	**310**	**02:43:49.000**	**C3JNFEA05103-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1033	96	310	02:46:42.333	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,683,956:84:0	
1034	**96**	**310**	**02:46:43.000**	**127DH4A**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,683,956:85:0**	
1035	96	310	02:46:51.000	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,683,957:06:0	
1036	96	310	02:47:28.333		DMS:	: *US-RUNUP	R28, TRACK 3, FWD, TIC 5697.03 +/- 3	2R5	4	1	3,683,957:62:0	
1037	96	310	02:47:28.333	175KZ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,683,957:62:0	
1038	96	310	02:47:38.333	117DH	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,683,957:77:0	
1039	96	310	02:47:40.333	175KZ176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,683,957:80:0	
1040	96	310	02:47:40.400		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *5699.93 +/- 3	2R5	4	1	3,683,957:80:1	
1041	96	310	02:47:41.666	175DH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,683,957:82:0	
1042	96	310	02:47:41.666		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *5701.04 +/- 3	2R5	4	1	3,683,957:82:0	
1043	96	310	02:47:43.066		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5701.26 +/- 3	2R5	4	1	3,683,957:84:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	96	310	02:47:44.333	175DH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,683,957:86:0	
1045	96	310	02:47:44.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5701.38 +/- 3	2R5	4	1	3,683,957:86:3	
1046	**96**	**310**	**02:47:45.036**	**C3JNFEA05103-**	**NIMPBK**	**301DH**	**JUPITER CAMPAIGN FEATURE 53 DGRS**	**2R5**	**4**	**1**	**: :**	
1047	96	310	02:47:47.666	117DH105A106A4A	7STRP	-0.01,0.0,0,0,0,	Slew =0,0.1	2R5	4	1	3,683,958:00:0	
1048	**96**	**310**	**02:49:29.702**	**C3JNFEA05103-**	**DESELC**	**300DH**	**JUPITER CAMPAIGN FEATURE 53 DGRS**	**2R5**	**4**	**1**	**: :**	
1049	96	310	02:49:30.333	117DH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,683,959:63:0	
1050	96	310	02:49:31.666	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,683,959:65:0	
1051	96	310	02:49:31.666		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5726.49 +/- 3	2R5	4	1	3,683,959:65:0	
1052	96	310	02:49:31.666	175DH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,683,959:65:0	
1053	96	310	02:49:33.066		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5726.55 +/- 3	2R5	4	1	3,683,959:67:1	
1054	**96**	**310**	**02:49:49.000**	**C3JNFEA05103-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1055	96	310	03:37:19.000	165JU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,684,006:89:0	
1056	96	310	03:37:19.666	165JU4B	7SCAN	NORM,238.112999,	Check S/P Position	2R5	4	1	3,684,006:90:0	
1057	96	310	03:41:44.333		DMS:	: *US-RUNUP	R115, TRACK 3, FWD, TIC 5726.55 +/- 3	2R5	4	1	3,684,011:32:0	
1058	96	310	03:41:44.333	175IL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,684,011:32:0	
1059	96	310	03:41:56.333	175IL176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R5	4	1	3,684,011:50:0	
1060	96	310	03:41:56.400		DMS:	**: *RECORD**	R115, TRACK 3, FWD, TIC *5734.21 +/- 3	2R5	4	1	3,684,011:50:1	
1061	96	310	03:42:21.000		DMS:	**: *RUNDOWN**	R115, TRACK 3, FWD, TIC *5820.70 +/- 3	2R5	4	1	3,684,011:87:0	
1062	96	310	03:42:21.000	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,684,011:87:0	
1063	96	310	03:42:22.400		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5821.61 +/- 3	2R5	4	1	3,684,011:89:1	
1064	96	310	04:17:07.666	488AM6A	6TMSED	FILL,FL6	Sci, Eng, and D/L Chan	2R5	4	1	3,684,046:32:0	
1065	96	310	04:30:47.000	488AM6B	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	2R5	4	1	3,684,059:78:0	
1066	96	310	05:12:21.666	165IH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,684,100:89:0	
1067	96	310	05:12:22.333	165IH4B	7SCAN	NORM,243.844,-20	Check S/P Position	2R5	4	1	3,684,100:90:0	
1068	96	310	05:16:17.666	118IH	**SMOS**	GS		2R5	4	1	3,684,104:79:0	
1069	96	310	05:16:27.666	118IH110A111A4A	7STRP	-0.004,0.004,46,	Slew =,3.01	2R5	4	1	3,684,105:03:0	
1070	96	310	05:16:29.666		DMS:	: *US-RUNUP	R115, TRACK 3, FWD, TIC 5821.61 +/- 3	2R5	4	1	3,684,105:06:0	
1071	96	310	05:16:29.666	175IY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,684,105:06:0	
1072	96	310	05:16:41.666	175IY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,684,105:24:0	
1073	96	310	05:16:41.733		DMS:	**: *RECORD**	R115, TRACK 3, FWD, TIC *5829.27 +/- 3	2R5	4	1	3,684,105:24:1	
1074	96	310	05:16:43.000	118IH110A111A4B	7STRP	0.004,-0.004,0,0	Slew =,3.01	2R5	4	1	3,684,105:26:0	
1075	96	310	05:16:56.333		DMS:	**: *RUNDOWN**	R115, TRACK 3, FWD, TIC *5880.60 +/- 3	2R5	4	1	3,684,105:46:0	
1076	96	310	05:16:56.333	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,684,105:46:0	
1077	96	310	05:16:57.733		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5881.52 +/- 3	2R5	4	1	3,684,105:48:1	
1078	96	310	05:16:58.333	118IH110A111A4C	7STRP	-0.004,0.004,46,	Slew =,3.01	2R5	4	1	3,684,105:49:0	
1079	96	310	05:17:00.333		DMS:	: *US-RUNUP	R115, TRACK 3, FWD, TIC 5881.52 +/- 3	2R5	4	1	3,684,105:52:0	
1080	96	310	05:17:00.333	175IZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,684,105:52:0	
1081	96	310	05:17:12.333	175IZ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	3,684,105:70:0	
1082	96	310	05:17:12.400		DMS:	**: *RECORD**	R115, TRACK 3, FWD, TIC *5889.18 +/- 3	2R5	4	1	3,684,105:70:1	
1083	96	310	05:17:13.666	118IH110A111A4D	7STRP	0.004,-0.004,0,0	Slew =,3.01	2R5	4	1	3,684,105:72:0	
1084	96	310	05:17:26.333		DMS:	**: *RUNDOWN**	R115, TRACK 3, FWD, TIC *5938.17 +/- 3	2R5	4	1	3,684,106:00:0	
1085	96	310	05:17:26.333	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,684,106:00:0	
1086	96	310	05:17:27.733		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5939.08 +/- 3	2R5	4	1	3,684,106:02:1	
1087	96	310	05:17:29.000	118IH110A111A4E	7STRP	-0.004,0.004,46,	Slew =,3.01	2R5	4	1	3,684,106:04:0	
1088	96	310	05:17:44.333	118IH110A111A4F	7STRP	0.004,-0.004,0,0	Slew =,3.01	2R5	4	1	3,684,106:27:0	
1089	96	310	05:17:59.666	118IH110A111A4G	7STRP	-0.004,0.004,46,	Slew =,3.01	2R5	4	1	3,684,106:50:0	
1090	96	310	05:18:15.000	118IH11A	**SMOS**	GE		2R5	4	1	3,684,106:73:0	
1091	96	310	05:22:28.333	165AX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,684,110:89:0	
1092	96	310	05:22:29.000	165AX4B	7SCAN	NORM,244.0,-20.9	Check S/P Position	2R5	4	1	3,684,110:90:0	
1093	96	310	05:25:25.000		DMS:	: *DMS-TURN	P7, TRACK 3, FWD, TIC 5939.08 +/- 3	2R5	4	1	3,684,113:81:0	
1094	96	310	05:25:25.000	465KC6A	6DTRN	CMD,6DTRN,465KC6	DMS TRACK TURNAROUND	2R5	4	1	3,684,113:81:0	
1095	96	310	05:26:27.666	125FF	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,684,114:84:0	
1096	96	310	05:26:27.666	125FF11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,684,114:84:0	
1097	**96**	**310**	**05:26:27.666**	**125FF4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R5**	**4**	**1**	**3,684,114:84:0**	
1098	96	310	05:26:31.000	165AX4C	7VECT		Inert vect update UTC	2R5	4	1	3,684,114:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1099	96	310	05:26:31.666	165AX4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R5	4	1	3,684,114:90:0
1100	**96**	**310**	**05:26:37.357**	**C3JNNTARRT01+**		**-----START------**		**2R5**	**4**	**1**	**: :**
1101	**96**	**310**	**05:27:28.333**	**127FF4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,684,115:84:0**
1102	96	310	05:27:28.333	127FF	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,684,115:84:0
1103	**96**	**310**	**05:27:29.000**	**127FF4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,684,115:85:0**
1104	96	310	05:27:37.000	127FF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,684,116:06:0
1105	**96**	**310**	**05:28:53.666**	**432FF6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,684,117:30:0**
1106	**96**	**310**	**05:29:53.000**	**432FG6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,684,118:28:0**
1107	96	310	05:31:43.733		DMS:	: *REVERSE	P7, TRACK 3, FWD, TIC *6027.63 +/- 3	2R3	4	0	3,684,120:12:1
1108	96	310	05:31:45.133		DMS:	: *TURNARND	P7, TRACK *4, *REV, TIC *6027.69 +/- 3	2R3	4	0	3,684,120:14:2
1109	96	310	05:31:58.600		DMS:	: *AUTOSTOP	P7, TRACK 4, REV, TIC *6025.44 +/-	2R3	4	0	3,684,120:34:4
1110	96	310	05:32:00.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC *6025.38 +/-	2R3	4	0	3,684,120:36:5
1111	**96**	**310**	**05:36:44.024**	**C3JNNTARRT01+**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1112	96	310	07:03:18.333	175PZ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,210:64:0
1113	96	310	07:03:18.333		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 6025.38 +/-	2R3	4	0	3,684,210:64:0
1114	96	310	07:03:27.666	175PZ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,684,210:78:0
1115	96	310	07:03:27.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *6026.65 +/-	2R3	4	0	3,684,210:78:3
1116	96	310	07:04:34.333	282NC431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	2R3	4	0	3,684,211:87:0
1117	96	310	07:04:37.000	431MB6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	3,684,212:00:0
1118	**96**	**310**	**07:05:42.691**	**C3JNNTARRT02+**		**-----START------**		**2R3**	**4**	**0**	**: :**
1119	**96**	**310**	**07:10:00.333**	**432FH6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,684,217:30:0**
1120	**96**	**310**	**07:10:59.666**	**432FI6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,684,218:28:0**
1121	**96**	**310**	**07:15:49.357**	**C3JNNTARRT02+**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1122	96	310	07:45:05.666	432OM431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	3,684,252:03:0
1123	96	310	07:45:06.333	432OM6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,684,252:04:0
1124	96	310	07:45:09.666	282ND431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	3,684,252:09:0
1125	96	310	07:45:15.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5438.89 +/-	2R3	4	0	3,684,252:18:0
1126	96	310	07:45:15.666	175PZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,252:18:0
1127	96	310	07:45:17.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5438.83 +/-	2R3	4	0	3,684,252:20:1
1128	96	310	07:45:58.333	282ND432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	3,684,252:82:0
1129	96	310	07:45:59.000	282ND432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	3,684,252:83:0
1130	**96**	**310**	**07:52:13.357**	**C3JNNTARRT03+**		**-----START------**		**2R3**	**4**	**0**	**: :**
1131	**96**	**310**	**07:55:30.333**	**432FJ6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,684,262:30:0**
1132	**96**	**310**	**07:56:29.666**	**432FK6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,684,263:28:0**
1133	96	310	07:57:07.000	125FG	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,684,263:84:0
1134	96	310	07:57:07.000	125FG11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,684,263:84:0
1135	**96**	**310**	**07:57:07.000**	**125FG4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,684,263:84:0**
1136	96	310	07:58:11.000	165HJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,264:89:0
1137	96	310	07:58:11.666	165HJ4B	7SCAN	NORM,246.210999,	Check S/P Position	2R3	4	0	3,684,264:90:0
1138	96	310	08:02:05.666	117HJ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,684,268:77:0
1139	96	310	08:02:15.000	117HJ105A106A4A	7STRP	-0.015701,0.0,0,	Slew =,0.14	2R3	4	0	3,684,269:00:0
1140	96	310	08:02:15.000	176HI6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,684,269:00:0
1141	**96**	**310**	**08:02:20.023**	**C3JNNTARRT03+**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
1142	96	310	08:04:09.666	117HJ105A106A4B	7STRP	0.015401,-0.0013	Slew =12.01	2R3	4	0	3,684,270:81:0
1143	96	310	08:04:17.666	117HJ105A106A4C	7STRP	-0.015701,0.0,0,	Slew =,0.14	2R3	4	0	3,684,271:02:0
1144	96	310	08:06:12.333	117HJ105A106A4D	7STRP	0.015401,-0.0013	Slew =12.01	2R3	4	0	3,684,272:83:0
1145	96	310	08:06:20.333	117HJ105A106A4E	7STRP	-0.015701,0.0,0,	Slew =,0.14	2R3	4	0	3,684,273:04:0
1146	96	310	08:08:15.000	117HJ105A106A4F	7STRP	0.015401,-0.0013	Slew =12.01	2R3	4	0	3,684,274:85:0
1147	96	310	08:08:23.000	117HJ105A106A4G	7STRP	-0.015701,0.0,0,	Slew =,0.14	2R3	4	0	3,684,275:06:0
1148	96	310	08:10:17.666	117HJ105A106A4H	7STRP	0.015401,-0.0013	Slew =12.01	2R3	4	0	3,684,276:87:0
1149	96	310	08:10:25.666	117HJ105A106A4I	7STRP	-0.015701,0.0,0,	Slew =,0.14	2R3	4	0	3,684,277:08:0
1150	96	310	08:12:20.333	117HJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,684,278:89:0
1151	96	310	08:12:20.333	176HI6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,684,278:89:0
1152	96	310	08:12:22.333		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5438.83 +/-	2R3	4	0	3,684,279:01:0
1153	96	310	08:12:22.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,279:01:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	96	310	08:12:32.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5439.99 +/-	2R3	4	0	3,684,279:16:0	
1155	96	310	08:12:49.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5436.09 +/-	2R3	4	0	3,684,279:41:0	
1156	96	310	08:12:49.000	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,279:41:0	
1157	96	310	08:12:50.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5436.03 +/-	2R3	4	0	3,684,279:43:1	
1158	96	310	08:15:00.333	488AM6C	6TMSED	NORM,CL6	Sci, Eng, and D/L Chan	2R3	4	0	3,684,281:56:0	
1159	96	310	08:22:27.000	165HI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,288:89:0	
1160	96	310	08:22:27.666	165HI4B	7SCAN	NORM,243.296999,	Check S/P Position	2R3	4	0	3,684,288:90:0	
1161	96	310	08:23:19.666	117HI	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,684,289:77:0	
1162	96	310	08:23:29.000	117HI105A106A4A	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,290:00:0	
1163	96	310	08:23:29.000	176HJ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,684,290:00:0	
1164	96	310	08:25:25.666	117HI105A106A4B	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,291:84:0	
1165	96	310	08:25:37.000	117HI105A106A4C	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,292:10:0	
1166	96	310	08:27:33.666	117HI105A106A4D	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,294:03:0	
1167	96	310	08:27:45.000	117HI105A106A4E	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,294:20:0	
1168	96	310	08:29:41.666	117HI105A106A4F	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,296:13:0	
1169	96	310	08:29:53.000	117HI105A106A4G	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,296:30:0	
1170	96	310	08:31:49.666	117HI105A106A4H	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,298:23:0	
1171	96	310	08:32:01.000	117HI105A106A4I	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,298:40:0	
1172	96	310	08:33:57.666	117HI105A106A4J	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,300:33:0	
1173	96	310	08:34:09.000	117HI105A106A4K	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,300:50:0	
1174	96	310	08:36:04.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,302:41:0	
1175	96	310	08:36:04.333		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5436.03 +/-	2R3	4	0	3,684,302:41:0	
1176	96	310	08:36:05.666	117HI105A106A4L	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,302:43:0	
1177	96	310	08:36:17.000	117HI105A106A4M	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,302:60:0	
1178	96	310	08:36:29.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5433.76 +/-	2R3	4	0	3,684,302:78:0	
1179	96	310	08:36:49.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5429.07 +/-	2R3	4	0	3,684,303:17:0	
1180	96	310	08:36:49.000	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,303:17:0	
1181	96	310	08:36:50.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5429.01 +/-	2R3	4	0	3,684,303:19:1	
1182	96	310	08:38:13.666	117HI105A106A4N	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,304:53:0	
1183	96	310	08:38:25.000	117HI105A106A4O	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,304:70:0	
1184	96	310	08:40:21.666	117HI105A106A4P	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,306:63:0	
1185	96	310	08:40:33.000	117HI105A106A4Q	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,306:80:0	
1186	96	310	08:42:29.666	117HI105A106A4R	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,308:73:0	
1187	96	310	08:42:41.000	117HI105A106A4S	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,308:90:0	
1188	96	310	08:44:37.666	117HI105A106A4T	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,310:83:0	
1189	96	310	08:44:49.000	117HI105A106A4U	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,311:09:0	
1190	96	310	08:46:45.666	117HI105A106A4V	7STRP	0.0016,0.016705,	Slew =12.01	2R3	4	0	3,684,313:02:0	
1191	96	310	08:46:57.000	117HI105A106A4W	7STRP	0.0,-0.016705,0,	Slew =,0.26	2R3	4	0	3,684,313:19:0	
1192	96	310	08:48:53.666	117HI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,684,315:12:0	
1193	96	310	08:49:06.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,315:31:0	
1194	96	310	08:49:06.333		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5429.01 +/-	2R3	4	0	3,684,315:31:0	
1195	96	310	08:49:12.333	176HJ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,684,315:40:0	
1196	96	310	08:49:31.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5426.74 +/-	2R3	4	0	3,684,315:68:0	
1197	96	310	08:49:50.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5422.21 +/-	2R3	4	0	3,684,316:06:0	
1198	96	310	08:49:50.333	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,316:06:0	
1199	96	310	08:49:51.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5422.15 +/-	2R3	4	0	3,684,316:08:1	
1200	96	310	09:23:08.333	488AM6D	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	2R3	4	0	3,684,349:00:0	
1201	96	310	09:56:29.000	165HN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,381:89:0	
1202	96	310	09:56:29.666	165HN4B	7SCAN	NORM,248.202999,	Check S/P Position	2R3	4	0	3,684,381:90:0	
1203	96	310	09:56:34.333	117HN	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,684,382:06:0	
1204	96	310	09:57:03.666	176GI6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,684,382:50:0	
1205	96	310	09:57:03.666	117HN105A106A4A	7STRP	0.005,0.111696,0	Slew =,0.15	2R3	4	0	3,684,382:50:0	
1206	96	310	10:09:39.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,395:00:0	
1207	96	310	10:09:39.000		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5422.15 +/-	2R3	4	0	3,684,395:00:0	
1208	96	310	10:10:03.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5419.87 +/-	2R3	4	0	3,684,395:37:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	96	310	10:10:23.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5415.19 +/-	2R3	4	0	3,684,395:67:0	
1210	96	310	10:10:23.666	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,395:67:0	
1211	96	310	10:10:25.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5415.13 +/-	2R3	4	0	3,684,395:69:1	
1212	96	310	10:22:20.333	117HN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,684,407:50:0	
1213	96	310	10:22:20.333	176GI6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,684,407:50:0	
1214	96	310	10:22:22.333		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 5415.13 +/-	2R3	4	0	3,684,407:53:0	
1215	96	310	10:22:22.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,407:53:0	
1216	96	310	10:22:32.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5416.29 +/-	2R3	4	0	3,684,407:68:0	
1217	96	310	10:22:51.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5411.92 +/-	2R3	4	0	3,684,408:05:0	
1218	96	310	10:22:51.000	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,408:05:0	
1219	96	310	10:22:52.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5411.86 +/-	2R3	4	0	3,684,408:07:1	
1220	96	310	10:23:47.000	165IK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,408:89:0	
1221	96	310	10:23:47.666	165IK4B	7SCAN	NORM,250.912998,	Check S/P Position	2R3	4	0	3,684,408:90:0	
1222	96	310	10:27:39.666		DMS:	: *US-RUNUP	R115, TRACK 4, REV, TIC 5411.86 +/-	2R3	4	0	3,684,412:74:0	
1223	96	310	10:27:39.666	175IT422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,684,412:74:0	
1224	96	310	10:27:43.000	118IK	**SMOS**	GS		2R3	4	0	3,684,412:79:0	
1225	96	310	10:27:51.666	175IT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,684,413:01:0	
1226	96	310	10:27:51.733		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *5406.98 +/-	2R3	4	0	3,684,413:01:1	
1227	96	310	10:27:53.000	118IK110A111A4A	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,413:03:0	
1228	96	310	10:28:08.333	118IK110A111B4A	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,413:26:0	
1229	96	310	10:28:23.666	118IK110A111B4B	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,413:49:0	
1230	96	310	10:28:39.000	118IK110A111A4B	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R3	4	0	3,684,413:72:0	
1231	96	310	10:28:54.333	118IK110A111A4C	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,414:04:0	
1232	96	310	10:29:09.666	118IK110A111B4C	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,414:27:0	
1233	96	310	10:29:25.000	118IK110A111B4D	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,414:50:0	
1234	96	310	10:29:40.333	118IK110A111A4D	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R3	4	0	3,684,414:73:0	
1235	96	310	10:29:55.666	118IK110A111A4E	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,415:05:0	
1236	96	310	10:30:11.000	118IK110A111B4E	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,415:28:0	
1237	96	310	10:30:26.333	118IK110A111B4F	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,415:51:0	
1238	96	310	10:30:41.666	118IK110A111A4F	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R3	4	0	3,684,415:74:0	
1239	96	310	10:30:57.000	118IK110A111A4G	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,416:06:0	
1240	96	310	10:31:12.333	118IK110A111B4G	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,416:29:0	
1241	96	310	10:31:27.666	118IK110A111B4H	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,416:52:0	
1242	96	310	10:31:43.000	118IK11A	**SMOS**	GE		2R3	4	0	3,684,416:75:0	
1243	96	310	10:31:52.333	165CX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,416:89:0	
1244	96	310	10:31:53.000	165CX4B	7SCAN	NORM,250.942999,	Check S/P Position	2R3	4	0	3,684,416:90:0	
1245	96	310	10:31:55.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4551.75 +/-	2R3	4	0	3,684,417:02:0	
1246	96	310	10:31:55.000	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,417:02:0	
1247	96	310	10:31:56.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4550.83 +/-	2R3	4	0	3,684,417:04:1	
1248	96	310	10:32:45.000	117CX	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,684,417:77:0	
1249	96	310	10:32:54.333	117CX105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,418:00:0	
1250	96	310	10:34:25.000	117CX105A106B4A	7STRP	-0.007,0.0,0,0,0	Slew =17.01	2R3	4	0	3,684,419:45:0	
1251	96	310	10:34:55.666	117CX105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,420:00:0	
1252	96	310	10:36:26.333	117CX105A106C4A	7STRP	0.007,-0.007,0,0	Slew =17.01	2R3	4	0	3,684,421:45:0	
1253	96	310	10:36:57.000	117CX105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,422:00:0	
1254	96	310	10:38:27.666	117CX105A106D4A	7STRP	-0.007,0.0,0,0,0	Slew =17.01	2R3	4	0	3,684,423:45:0	
1255	96	310	10:38:58.333	117CX105A106D4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,424:00:0	
1256	96	310	10:40:29.000	117CX105A106E4A	7STRP	0.0035,0.0035,0,	Slew =17.01	2R3	4	0	3,684,425:45:0	
1257	96	310	10:40:59.666	117CX105A106E4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,426:00:0	
1258	96	310	10:42:30.333	117CX11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,684,427:45:0	
1259	96	310	11:01:42.333	488AN6A	6TMSED	FILL,CL4	Sci, Eng, and D/L Chan	2R3	4	0	3,684,446:44:0	
1260	96	310	11:07:40.333	488AN6B	6TMSED	FILL,CL1	Sci, Eng, and D/L Chan	2R3	4	0	3,684,452:35:0	
1261	96	310	11:38:33.000	127DK	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,684,482:84:0	
1262	**96**	**310**	**11:38:33.000**	**127DK4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,684,482:84:0**	
1263	**96**	**310**	**11:38:33.666**	**127DK4B**	**37ETB**		**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,684,482:85:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	**96**	**310**	**11:38:41.666**	**C3JNFEASUB01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1265	96	310	11:38:41.666	127DK11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,684,483:06:0	
1266	96	310	11:41:38.333	165DK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,485:89:0	
1267	96	310	11:41:39.000	165DK4B	7SCAN	NORM,249.953999,	Check S/P Position	2R3	4	0	3,684,485:90:0	
1268	96	310	11:43:31.666	117DK	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,684,487:77:0	
1269	96	310	11:43:41.000	117DK105A106A4A	7STRP	-0.0108,0.0,0,0,	Slew =,0.03	2R3	4	0	3,684,488:00:0	
1270	**96**	**310**	**11:44:20.333**	**C3JNFEASUB01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1271	96	310	11:44:29.000	175DK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,488:72:0	
1272	96	310	11:44:29.000		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 4550.83 +/-	2R3	4	0	3,684,488:72:0	
1273	96	310	11:44:38.333	175DK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,684,488:86:0	
1274	96	310	11:44:38.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4552.11 +/-	2R3	4	0	3,684,488:86:3	
1275	**96**	**310**	**11:44:39.016**	**C3JNFEASUB01-**	**NIMPBK**	**301DK**	**JUPITER CAMPAIGN FEATURE SUB-SPE**	**2R3**	**4**	**0**	**: :**	
1276	96	310	11:49:45.000	117DK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,684,494:00:0	
1277	**96**	**310**	**11:50:17.683**	**C3JNFEASUB01-**	**DESELC**	**300DK**	**JUPITER CAMPAIGN FEATURE SUB-SPE**	**2R3**	**4**	**0**	**: :**	
1278	96	310	11:50:27.666	175DK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,684,494:64:0	
1279	96	310	11:50:27.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4470.28 +/-	2R3	4	0	3,684,494:64:0	
1280	96	310	11:50:27.666	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,494:64:0	
1281	96	310	11:50:29.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4470.22 +/-	2R3	4	0	3,684,494:66:1	
1282	96	310	11:51:45.000	165IX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,495:89:0	
1283	96	310	11:51:45.666	165IX4B	7SCAN	NORM,250.278999,	Check S/P Position	2R3	4	0	3,684,495:90:0	
1284	96	310	11:55:37.666		DMS:	: *US-RUNUP	R115, TRACK 4, REV, TIC 4470.22 +/-	2R3	4	0	3,684,499:74:0	
1285	96	310	11:55:37.666	175IX422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,684,499:74:0	
1286	96	310	11:55:41.000	118IX	**SMOS**	GS		2R3	4	0	3,684,499:79:0	
1287	96	310	11:55:49.666	175IX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,684,500:01:0	
1288	96	310	11:55:49.733		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4465.34 +/-	2R3	4	0	3,684,500:01:1	
1289	96	310	11:55:51.000	118IX110A111A4A	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,500:03:0	
1290	96	310	11:56:06.333	118IX110A111B4A	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,500:26:0	
1291	96	310	11:56:21.666	118IX110A111B4B	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,500:49:0	
1292	96	310	11:56:37.000	118IX110A111A4B	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R3	4	0	3,684,500:72:0	
1293	96	310	11:56:52.333	118IX110A111A4C	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,501:04:0	
1294	96	310	11:57:07.666	118IX110A111B4C	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,501:27:0	
1295	96	310	11:57:23.000	118IX110A111B4D	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,501:50:0	
1296	96	310	11:57:38.333	118IX110A111A4D	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R3	4	0	3,684,501:73:0	
1297	96	310	11:57:53.666	118IX110A111A4E	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,502:05:0	
1298	96	310	11:58:09.000	118IX110A111B4E	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,502:28:0	
1299	96	310	11:58:24.333	118IX110A111B4F	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,502:51:0	
1300	96	310	11:58:39.666	118IX110A111A4F	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R3	4	0	3,684,502:74:0	
1301	96	310	11:58:55.000	118IX110A111A4G	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,503:06:0	
1302	96	310	11:59:10.333	118IX110A111B4G	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,503:29:0	
1303	96	310	11:59:25.666	118IX110A111B4H	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,503:52:0	
1304	96	310	11:59:41.000	118IX11A	**SMOS**	GE		2R3	4	0	3,684,503:75:0	
1305	96	310	11:59:50.333	165AM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,503:89:0	
1306	96	310	11:59:51.000	165AM4B	7SCAN	NORM,250.327,-24	Check S/P Position	2R3	4	0	3,684,503:90:0	
1307	96	310	11:59:52.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *3612.45 +/-	2R3	4	0	3,684,504:01:0	
1308	96	310	11:59:52.333	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,504:01:0	
1309	96	310	11:59:53.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3611.54 +/-	2R3	4	0	3,684,504:03:1	
1310	96	310	12:00:43.000	117AM	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,684,504:77:0	
1311	96	310	12:00:52.333	117AM105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,505:00:0	
1312	96	310	12:02:23.000	117AM105A106B4A	7STRP	-0.007,0.0,0,0,0	Slew =17.01	2R3	4	0	3,684,506:45:0	
1313	96	310	12:02:53.666	117AM105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,507:00:0	
1314	96	310	12:04:24.333	117AM105A106C4A	7STRP	0.007,-0.007,0,0	Slew =17.01	2R3	4	0	3,684,508:45:0	
1315	96	310	12:04:55.000	117AM105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,509:00:0	
1316	96	310	12:06:25.666	117AM105A106D4A	7STRP	-0.007,0.0,0,0,0	Slew =17.01	2R3	4	0	3,684,510:45:0	
1317	96	310	12:06:56.333	117AM105A106D4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,511:00:0	
1318	96	310	12:08:27.000	117AM105A106E4A	7STRP	0.0035,0.0035,0,	Slew =17.01	2R3	4	0	3,684,512:45:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	96	310	12:08:57.666	117AM105A106E4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,513	00:0
1320	96	310	12:15:21.000	488AN6C	6TMSED	NORM,CL1	Sci, Eng, and D/L Chan	2R3	4	0	3,684,519	29:0
1321	96	310	12:15:31.666	117AM105A106F4A	7STRP	0.020003,0.0,0,0	Slew =17.01	2R3	4	0	3,684,519	45:0
1322	96	310	12:16:02.333	117AM105A106F4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,520	00:0
1323	96	310	12:16:32.333	117AM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,684,520	45:0
1324	96	310	12:29:11.000		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 3611.54 +/-	2R3	4	0	3,684,533	00:0
1325	96	310	12:29:11.000	411AC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,533	00:0
1326	96	310	12:29:20.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3612.81 +/-	2R3	4	0	3,684,533	14:3
1327	96	310	12:29:21.000	411AC6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	3,684,533	15:0
1328	96	310	12:31:22.333	411AC6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,684,535	15:0
1329	96	310	12:31:25.000	175TM176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,684,535	19:0
1330	96	310	12:31:25.666	175TM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,535	20:0
1331	96	310	12:31:32.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3581.92 +/-	2R3	4	0	3,684,535	30:0
1332	96	310	12:31:32.333	175TM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,535	30:0
1333	96	310	12:31:33.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3581.86 +/-	2R3	4	0	3,684,535	32:1
1334	96	310	12:52:25.000	165JW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,555	89:0
1335	96	310	12:52:25.666	165JW4B	7SCAN	NORM,250.796999,	Check S/P Position	2R3	4	0	3,684,555	90:0
1336	96	310	12:56:17.666	175JB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,684,559	74:0
1337	96	310	12:56:17.666		DMS:	: *US-RUNUP	R115, TRACK 4, REV, TIC 3581.86 +/-	2R3	4	0	3,684,559	74:0
1338	96	310	12:56:21.000	118JW	**SMOS**	GS		2R3	4	0	3,684,559	79:0
1339	96	310	12:56:29.666	175JB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	3,684,560	01:0
1340	96	310	12:56:29.733		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3576.99 +/-	2R3	4	0	3,684,560	01:1
1341	96	310	12:56:31.000	118JW110A111A4A	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,560	03:0
1342	96	310	12:56:46.333	118JW110A111B4A	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,560	26:0
1343	96	310	12:57:01.666	118JW110A111B4B	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,560	49:0
1344	96	310	12:57:17.000	118JW110A111A4B	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R3	4	0	3,684,560	72:0
1345	96	310	12:57:32.333	118JW110A111A4C	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,561	04:0
1346	96	310	12:57:47.666	118JW110A111B4C	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,561	27:0
1347	96	310	12:58:03.000	118JW110A111B4D	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,561	50:0
1348	96	310	12:58:18.333	118JW110A111A4D	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R3	4	0	3,684,561	73:0
1349	96	310	12:58:33.666	118JW110A111A4E	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,562	05:0
1350	96	310	12:58:49.000	118JW110A111B4E	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,562	28:0
1351	96	310	12:59:04.333	118JW110A111B4F	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,562	51:0
1352	96	310	12:59:19.666	118JW110A111A4F	7STRP	0.007,0.0,0,0,0,	Slew =,3.01	2R3	4	0	3,684,562	74:0
1353	96	310	12:59:35.000	118JW110A111A4G	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,563	06:0
1354	96	310	12:59:50.333	118JW110A111B4G	7STRP	-0.0065,0.0,0,0,	Slew =,3.01	2R3	4	0	3,684,563	29:0
1355	96	310	13:00:05.666	118JW110A111B4H	7STRP	0.0,0.007,46,0,0	Slew =,3.01	2R3	4	0	3,684,563	52:0
1356	96	310	13:00:21.000	118JW11A	**SMOS**	GE		2R3	4	0	3,684,563	75:0
1357	96	310	13:00:30.333	165BZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,563	89:0
1358	96	310	13:00:31.000	165BZ4B	7SCAN	NORM,250.660999,	Check S/P Position	2R3	4	0	3,684,563	90:0
1359	96	310	13:00:32.333	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,564	01:0
1360	96	310	13:00:32.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2724.10 +/-	2R3	4	0	3,684,564	01:0
1361	96	310	13:00:33.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2723.18 +/-	2R3	4	0	3,684,564	03:1
1362	96	310	13:00:44.333	488AN6D	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R3	4	0	3,684,564	19:0
1363	96	310	13:01:23.000	117BZ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,684,564	77:0
1364	96	310	13:01:32.333	117BZ105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,565	00:0
1365	96	310	13:05:04.333	117BZ105A106B4A	7STRP	0.0,-0.007,0,0,0	Slew =17.01	2R3	4	0	3,684,568	45:0
1366	96	310	13:05:35.000	117BZ105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,569	00:0
1367	96	310	13:09:07.000	117BZ105A106C4A	7STRP	0.0035,0.0035,0,	Slew =17.01	2R3	4	0	3,684,572	45:0
1368	96	310	13:09:37.666	117BZ105A106C4B	7STRP	0.0,0.0,0,0,0,0,	Slew =17.01	2R3	4	0	3,684,573	00:0
1369	96	310	13:11:08.333	117BZ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,684,574	45:0
1370	96	310	13:19:42.333	488AN6E	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	2R3	4	0	3,684,582	88:0
1371	96	310	14:16:59.000	488AO6A	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R3	4	0	3,684,639	56:0
1372	96	310	16:29:49.666	411AB6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,771	00:0
1373	96	310	16:29:49.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2723.18 +/-	2R3	4	0	3,684,771	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1374	96	310	16:29:59.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2724.46 +/-	2R3	4	0	3,684,771:14:3
1375	96	310	16:29:59.666	411AB6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	3,684,771:15:0
1376	96	310	16:32:01.000	411AB6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,684,773:15:0
1377	96	310	16:32:03.666	175TN176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	3,684,773:19:0
1378	96	310	16:32:04.333	175TN422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,684,773:20:0
1379	96	310	16:32:11.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2693.57 +/-	2R3	4	0	3,684,773:30:0
1380	96	310	16:32:11.000	175TN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,684,773:30:0
1381	96	310	16:32:12.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2693.51 +/-	2R3	4	0	3,684,773:32:1
1382	96	310	16:49:01.000	165DM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,684,789:89:0
1383	96	310	16:49:01.666	165DM4B	7SCAN	NORM,264.775997,	Check S/P Position	2R3	4	0	3,684,789:90:0
1384	**96**	**310**	**16:49:06.333**	**C3JNPFTRAK01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
1385	**96**	**310**	**16:51:59.666**	**127DM4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,684,792:84:0**
1386	96	310	16:51:59.666	127DM	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,684,792:84:0
1387	**96**	**310**	**16:52:00.333**	**127DM4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,684,792:85:0**
1388	96	310	16:52:08.333	127DM11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,684,793:06:0
1389	96	310	16:52:52.333		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2693.51 +/-	2R5	4	1	3,684,793:72:0
1390	96	310	16:52:52.333	175DM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,684,793:72:0
1391	96	310	16:52:55.666	117DM	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,684,793:77:0
1392	96	310	16:53:01.666	175DM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,684,793:86:0
1393	96	310	16:53:01.866		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2694.78 +/-	2R5	4	1	3,684,793:86:3
1394	**96**	**310**	**16:53:02.337**	**C3JNPFTRAK01-**	**NIMPBK**	**301DM**	**JUPITER PARTIAL FEATURE TRACK PA**	**2R5**	**4**	**1**	**: :**
1395	96	310	16:53:05.000	117DM105A106A4A	7STRP	-0.040021,0.0,0,	Slew =0,0.1	2R5	4	1	3,684,794:00:0
1396	**96**	**310**	**16:59:32.999**	**C3JNPFTRAK01-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
1397	96	310	16:59:49.000	117DM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,684,800:60:0
1398	**96**	**310**	**16:59:51.004**	**C3JNPFTRAK01-**	**DESELC**	**300DM**	**JUPITER PARTIAL FEATURE TRACK PA**	**2R5**	**4**	**1**	**: :**
1399	96	310	17:00:01.000	175DM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,684,800:78:0
1400	96	310	17:00:01.000	175DM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,684,800:78:0
1401	96	310	17:00:01.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2596.55 +/-	2R5	4	1	3,684,800:78:0
1402	96	310	17:00:02.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2596.49 +/-	2R5	4	1	3,684,800:80:1
1403	96	310	17:00:08.333	165CC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,684,800:89:0
1404	96	310	17:00:09.000	165CC4B	7SCAN	NORM,249.109999,	Check S/P Position	2R5	4	1	3,684,800:90:0
1405	96	310	17:53:00.333	488AO6B	6TMSED	NORM,CL1	Sci, Eng, and D/L Chan	2R5	4	1	3,684,853:24:0
1406	96	310	17:57:03.000	488AO6C	6TMSED	FILL,CL1	Sci, Eng, and D/L Chan	2R5	4	1	3,684,857:24:0
1407	96	310	18:39:56.333	488AO6D	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	2R5	4	1	3,684,899:62:0
1408	96	310	19:24:17.666	488AO6E	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R5	4	1	3,684,943:50:0
1409	96	310	19:34:50.333	165JG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,684,953:89:0
1410	96	310	19:34:51.000	165JG4B	7SCAN	NORM,260.938999,	Check S/P Position	2R5	4	1	3,684,953:90:0
1411	96	310	19:38:49.000	118JG	**SMOS**	GS		2R5	4	1	3,684,957:83:0
1412	96	310	19:38:59.000	118JG110A111A4A	7STRP	-0.001,0.0,26,0,	Slew =,0.51	2R5	4	1	3,684,958:07:0
1413	96	310	19:39:01.000		DMS:	: *US-RUNUP	R115, TRACK 4, REV, TIC 2596.49 +/-	2R5	4	1	3,684,958:10:0
1414	96	310	19:39:01.000	175JG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	3,684,958:10:0
1415	96	310	19:39:13.000	175JG176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	2R5	4	1	3,684,958:28:0
1416	96	310	19:39:13.066		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2591.61 +/-	2R5	4	1	3,684,958:28:1
1417	96	310	19:39:16.333	118JG11A	**SMOS**	GE		2R5	4	1	3,684,958:33:0
1418	96	310	19:39:21.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2563.72 +/-	2R5	4	1	3,684,958:40:0
1419	96	310	19:39:21.000	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,684,958:40:0
1420	96	310	19:39:22.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2562.81 +/-	2R5	4	1	3,684,958:42:1
1421	**96**	**310**	**19:40:59.666**	**C3JNFEA01101-**		**-----START------**		**2R5**	**4**	**1**	**: :**
1422	96	310	19:42:55.666	165DO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,684,961:89:0
1423	96	310	19:42:56.333	165DO4B	7SCAN	NORM,273.993999,	Check S/P Position	2R5	4	1	3,684,961:90:0
1424	96	310	19:43:53.000	127DO	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,684,962:84:0
1425	**96**	**310**	**19:43:53.666**	**127DO4A**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,684,962:85:0**
1426	96	310	19:44:01.666	127DO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,684,963:06:0
1427	96	310	19:46:50.333	117DO	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,684,965:77:0
1428	96	310	19:46:59.666	117DO105A106A4A	7STRP	-0.019002,0.0,0,	Slew =,0.12	2R5	4	1	3,684,966:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	96	310	19:47:47.666	175DO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,684,966:72:0	
1430	96	310	19:47:47.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2562.81 +/-	2R5	4	1	3,684,966:72:0	
1431	96	310	19:47:57.000	175DO176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,684,966:86:0	
1432	96	310	19:47:57.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2564.08 +/-	2R5	4	1	3,684,966:86:3	
1433	**96**	**310**	**19:47:57.665**	**C3JNFEA01101-**	**NIMPBK**	**301DO**	**JUPITER CAMPAIGN FEATURE 18 DGRS**	**2R5**	**4**	**1**	**: :**	
1434	96	310	19:49:43.666	117DO105A106B4A	7STRP	0.020503,-0.0080	Slew =17.01	2R5	4	1	3,684,968:64:0	
1435	96	310	19:50:05.000	117DO105A106B4B	7STRP	-0.03101,0.0,0,0	Slew =,0.12	2R5	4	1	3,684,969:05:0	
1436	96	310	19:54:34.333	117DO105A106C4A	7STRP	0.033513,0.00775	Slew =17.01	2R5	4	1	3,684,973:45:0	
1437	**96**	**310**	**19:54:36.331**	**C3JNFEA01101-**	**DESELC**	**300DO**	**JUPITER CAMPAIGN FEATURE 18 DGRS**	**2R5**	**4**	**1**	**: :**	
1438	96	310	19:54:46.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2468.19 +/-	2R5	4	1	3,684,973:63:0	
1439	96	310	19:54:46.333	175DO6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,684,973:63:0	
1440	96	310	19:54:46.333	175DO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,684,973:63:0	
1441	96	310	19:54:47.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2468.13 +/-	2R5	4	1	3,684,973:65:1	
1442	96	310	19:54:55.666	117DO105A106C4B	7STRP	-0.048538,0.0,0,	Slew =,0.12	2R5	4	1	3,684,973:77:0	
1443	96	310	20:01:53.000	117DO105A106D4A	7STRP	0.051044,-0.0080	Slew =17.01	2R5	4	1	3,684,980:66:0	
1444	96	310	20:02:14.333	117DO105A106D4B	7STRP	-0.027507,0.0,0,	Slew =,0.12	2R5	4	1	3,684,981:07:0	
1445	96	310	20:03:43.666	488AP6A	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	2R5	4	1	3,684,982:50:0	
1446	**96**	**310**	**20:04:15.000**	**C3JNFEA01101-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1447	96	310	20:06:11.000	117DO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,684,984:89:0	
1448	96	310	20:09:32.333	488AP6B	6TMSED	FILL,CL3	Sci, Eng, and D/L Chan	2R5	4	1	3,684,988:27:0	
1449	96	310	20:40:06.333	488AP6C	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	2R5	4	1	3,685,018:48:0	
1450	96	310	20:46:37.666	165HF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,685,024:89:0	
1451	96	310	20:46:38.333	165HF4B	7SCAN	NORM,275.217999,	Check S/P Position	2R5	4	1	3,685,024:90:0	
1452	96	310	20:48:31.000	117HF	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,685,026:77:0	
1453	96	310	20:48:40.333	176GL6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,685,027:00:0	
1454	96	310	20:48:40.333	117HF105A106A4A	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,027:00:0	
1455	96	310	20:52:09.666	117HF105A106A4B	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,030:41:0	
1456	96	310	20:52:22.333	117HF105A106A4C	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,030:60:0	
1457	96	310	20:55:51.666	117HF105A106A4D	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,034:10:0	
1458	96	310	20:56:04.333	117HF105A106A4E	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,034:29:0	
1459	96	310	20:59:33.666	117HF105A106A4F	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,037:70:0	
1460	96	310	20:59:46.333	117HF105A106A4G	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,037:89:0	
1461	96	310	21:01:15.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2468.13 +/-	2R5	4	1	3,685,039:41:0	
1462	96	310	21:01:15.666	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,685,039:41:0	
1463	96	310	21:01:40.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2465.86 +/-	2R5	4	1	3,685,039:78:0	
1464	96	310	21:02:00.333	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,685,040:17:0	
1465	96	310	21:02:00.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2461.17 +/-	2R5	4	1	3,685,040:17:0	
1466	96	310	21:02:01.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2461.11 +/-	2R5	4	1	3,685,040:19:1	
1467	96	310	21:03:15.666	117HF105A106A4H	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,041:39:0	
1468	96	310	21:03:28.333	117HF105A106A4I	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,041:58:0	
1469	96	310	21:06:57.666	117HF105A106A4J	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,045:08:0	
1470	96	310	21:07:10.333	117HF105A106A4K	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,045:27:0	
1471	96	310	21:10:39.666	117HF105A106A4L	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,048:68:0	
1472	96	310	21:10:52.333	117HF105A106A4M	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,048:87:0	
1473	96	310	21:14:17.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2461.11 +/-	2R5	4	1	3,685,052:31:0	
1474	96	310	21:14:17.666	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,685,052:31:0	
1475	96	310	21:14:21.666	117HF105A106A4N	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,052:37:0	
1476	96	310	21:14:34.333	117HF105A106A4O	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,052:56:0	
1477	96	310	21:14:42.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2458.84 +/-	2R5	4	1	3,685,052:68:0	
1478	96	310	21:15:02.333	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,685,053:07:0	
1479	96	310	21:15:02.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2454.15 +/-	2R5	4	1	3,685,053:07:0	
1480	96	310	21:15:03.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2454.09 +/-	2R5	4	1	3,685,053:09:1	
1481	96	310	21:18:03.666	117HF105A106A4P	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,056:06:0	
1482	96	310	21:18:16.333	117HF105A106A4Q	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,056:25:0	
1483	96	310	21:21:45.666	117HF105A106A4R	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,059:66:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	96	310	21:21:58.333	117HF105A106A4S	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,059:85:0	
1485	96	310	21:25:27.666	117HF105A106A4T	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,063:35:0	
1486	96	310	21:25:40.333	117HF105A106A4U	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,063:54:0	
1487	96	310	21:27:19.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2454.09 +/-	2R5	4	1	3,685,065:21:0	
1488	96	310	21:27:19.666	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,685,065:21:0	
1489	96	310	21:27:44.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2451.82 +/-	2R5	4	1	3,685,065:58:0	
1490	96	310	21:28:04.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2447.13 +/-	2R5	4	1	3,685,065:88:0	
1491	96	310	21:28:04.333	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,685,065:88:0	
1492	96	310	21:28:05.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2447.07 +/-	2R5	4	1	3,685,065:90:1	
1493	96	310	21:29:09.666	117HF105A106A4V	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,067:04:0	
1494	96	310	21:29:22.333	117HF105A106A4W	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,067:23:0	
1495	96	310	21:32:51.666	117HF105A106A4X	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,070:64:0	
1496	96	310	21:33:04.333	117HF105A106A4Y	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,070:83:0	
1497	96	310	21:36:33.666	117HF105A106A4Z	7STRP	0.03151,0.00125,	Slew =12.01	2R5	4	1	3,685,074:33:0	
1498	96	310	21:36:46.333	117HF105A106A4AA	7STRP	-0.03101,-0.0025	Slew =,0.16	2R5	4	1	3,685,074:52:0	
1499	96	310	21:40:15.666	117HF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,685,078:02:0	
1500	96	310	21:40:15.666	176GL6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,685,078:02:0	
1501	96	310	21:40:17.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2447.07 +/-	2R5	4	1	3,685,078:05:0	
1502	96	310	21:40:17.666	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,685,078:05:0	
1503	96	310	21:40:27.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2448.24 +/-	2R5	4	1	3,685,078:20:0	
1504	96	310	21:40:46.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2443.87 +/-	2R5	4	1	3,685,078:48:0	
1505	96	310	21:40:46.333	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,685,078:48:0	
1506	96	310	21:40:47.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2443.81 +/-	2R5	4	1	3,685,078:50:1	
1507	96	310	21:41:13.666	165DQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,685,078:89:0	
1508	96	310	21:41:14.333	165DQ4B	7SCAN	NORM,274.926998,	Check S/P Position	2R5	4	1	3,685,078:90:0	
1509	**96**	**310**	**21:41:19.000**	**C3JNFEA01104-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1510	96	310	21:45:05.000	175DQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,685,082:72:0	
1511	96	310	21:45:05.000		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2443.81 +/-	2R5	4	1	3,685,082:72:0	
1512	96	310	21:45:08.333	117DQ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,685,082:77:0	
1513	96	310	21:45:14.333	175DQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,685,082:86:0	
1514	96	310	21:45:14.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2445.08 +/-	2R5	4	1	3,685,082:86:3	
1515	**96**	**310**	**21:45:14.994**	**C3JNFEA01104-**	**NIMPBK**	**301DQ**	**JUPITER CAMPAIGN FEATURE 18 DGRS**	**2R5**	**4**	**1**	**: :**	
1516	96	310	21:45:17.666	117DQ105A106A4A	7STRP	-0.015001,0.0,0,	Slew =,0.12	2R5	4	1	3,685,083:00:0	
1517	96	310	21:47:29.666	117DQ105A106B4A	7STRP	0.015501,-0.0080	Slew =17.01	2R5	4	1	3,685,085:16:0	
1518	96	310	21:47:50.333	117DQ105A106B4B	7STRP	-0.028007,0.0,0,	Slew =,0.12	2R5	4	1	3,685,085:47:0	
1519	96	310	21:51:55.000	117DQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,685,089:50:0	
1520	**96**	**310**	**21:51:56.327**	**C3JNFEA01104-**	**DESELC**	**300DQ**	**JUPITER CAMPAIGN FEATURE 18 DGRS**	**2R5**	**4**	**1**	**: :**	
1521	**96**	**310**	**21:51:59.000**	**C3JNFEA01104-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1522	96	310	21:52:06.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2348.57 +/-	2R5	4	1	3,685,089:67:0	
1523	96	310	21:52:06.333	175DQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,685,089:67:0	
1524	96	310	21:52:06.333	175DQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,685,089:67:0	
1525	96	310	21:52:07.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2348.51 +/-	2R5	4	1	3,685,089:69:1	
1526	96	310	21:57:24.333	165HG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,685,094:89:0	
1527	96	310	21:57:25.000	165HG4B	7SCAN	NORM,276.459999,	Check S/P Position	2R5	4	1	3,685,094:90:0	
1528	96	310	21:59:17.666	117HG	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,685,096:77:0	
1529	96	310	21:59:27.000	176GM6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,685,097:00:0	
1530	96	310	21:59:27.000	117HG105A106A4A	7STRP	-0.016802,0.0,0,	Slew =,0.16	2R5	4	1	3,685,097:00:0	
1531	96	310	22:00:00.333	488AP6D	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	2R5	4	1	3,685,097:50:0	
1532	96	310	22:01:13.666	117HG105A106A4B	7STRP	0.017102,-0.0011	Slew =17.01	2R5	4	1	3,685,098:69:0	
1533	96	310	22:01:30.333	117HG105A106A4C	7STRP	-0.016802,0.0,0,	Slew =,0.16	2R5	4	1	3,685,099:03:0	
1534	96	310	22:03:17.000	117HG105A106A4D	7STRP	0.017102,-0.0011	Slew =17.01	2R5	4	1	3,685,100:72:0	
1535	96	310	22:03:33.666	117HG105A106A4E	7STRP	-0.016802,0.0,0,	Slew =,0.16	2R5	4	1	3,685,101:06:0	
1536	96	310	22:05:20.333	117HG105A106A4F	7STRP	0.017102,-0.0011	Slew =17.01	2R5	4	1	3,685,102:75:0	
1537	96	310	22:05:37.000	117HG105A106A4G	7STRP	-0.016802,0.0,0,	Slew =,0.16	2R5	4	1	3,685,103:09:0	
1538	96	310	22:07:23.666	117HG105A106A4H	7STRP	0.017102,-0.0011	Slew =17.01	2R5	4	1	3,685,104:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	96	310	22:07:40.333	117HG105A106A4I	7STRP	-0.016802,0.0,0,	Slew =,0.16	2R5	4	1	3,685,105:12:0	
1540	96	310	22:09:27.000	117HG105A106A4J	7STRP	0.017102,-0.0011	Slew =17.01	2R5	4	1	3,685,106:81:0	
1541	96	310	22:09:43.666	117HG105A106A4K	7STRP	-0.016802,0.0,0,	Slew =,0.16	2R5	4	1	3,685,107:15:0	
1542	96	310	22:11:30.333	117HG105A106A4L	7STRP	0.017102,-0.0011	Slew =17.01	2R5	4	1	3,685,108:84:0	
1543	96	310	22:11:47.000	117HG105A106A4M	7STRP	-0.016802,0.0,0,	Slew =,0.16	2R5	4	1	3,685,109:18:0	
1544	96	310	22:12:02.333		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2348.51 +/-	2R5	4	1	3,685,109:41:0	
1545	96	310	22:12:02.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,685,109:41:0	
1546	96	310	22:12:27.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2346.23 +/-	2R5	4	1	3,685,109:78:0	
1547	96	310	22:12:47.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2341.55 +/-	2R5	4	1	3,685,110:17:0	
1548	96	310	22:12:47.000	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,685,110:17:0	
1549	96	310	22:12:48.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2341.49 +/-	2R5	4	1	3,685,110:19:1	
1550	96	310	22:13:33.666	117HG105A106A4N	7STRP	0.017102,-0.0011	Slew =17.01	2R5	4	1	3,685,110:87:0	
1551	96	310	22:13:50.333	117HG105A106A4O	7STRP	-0.016802,0.0,0,	Slew =,0.16	2R5	4	1	3,685,111:21:0	
1552	96	310	22:15:37.000	117HG105A106A4P	7STRP	0.017102,-0.0011	Slew =17.01	2R5	4	1	3,685,112:90:0	
1553	96	310	22:15:53.666	117HG105A106A4Q	7STRP	-0.016802,0.0,0,	Slew =,0.16	2R5	4	1	3,685,113:24:0	
1554	96	310	22:17:40.333	117HG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,685,115:02:0	
1555	96	310	22:17:41.666	176GM6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,685,115:04:0	
1556	96	310	22:17:43.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2341.49 +/-	2R5	4	1	3,685,115:07:0	
1557	96	310	22:17:43.666	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,685,115:07:0	
1558	96	310	22:17:53.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2342.65 +/-	2R5	4	1	3,685,115:22:0	
1559	96	310	22:18:05.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2339.84 +/-	2R5	4	1	3,685,115:40:0	
1560	96	310	22:18:05.666	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,685,115:40:0	
1561	96	310	22:18:07.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2339.78 +/-	2R5	4	1	3,685,115:42:1	
1562	96	310	22:45:16.333	488AP6E	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R5	4	1	3,685,142:29:0	
1563	96	310	23:01:06.333	165HH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,685,157:89:0	
1564	96	310	23:01:07.000	165HH4B	7SCAN	NORM,275.698997,	Check S/P Position	2R5	4	1	3,685,157:90:0	
1565	96	310	23:02:25.666	176GN6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	3,685,159:26:0	
1566	96	310	23:02:59.666	117HH	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,685,159:77:0	
1567	96	310	23:03:09.000	117HH105A106A4A	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,160:00:0	
1568	96	310	23:04:13.000	117HH105A106A4B	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,161:05:0	
1569	96	310	23:04:26.333	117HH105A106A4C	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,161:25:0	
1570	96	310	23:05:30.333	117HH105A106A4D	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,162:30:0	
1571	96	310	23:05:43.666	117HH105A106A4E	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,162:50:0	
1572	96	310	23:06:47.666	117HH105A106A4F	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,163:55:0	
1573	96	310	23:07:01.000	117HH105A106A4G	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,163:75:0	
1574	96	310	23:08:05.000	117HH105A106A4H	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,164:80:0	
1575	96	310	23:08:18.333	117HH105A106A4I	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,165:09:0	
1576	96	310	23:09:22.333	117HH105A106A4J	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,166:14:0	
1577	96	310	23:09:35.666	117HH105A106A4K	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,166:34:0	
1578	96	310	23:10:39.666	117HH105A106A4L	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,167:39:0	
1579	96	310	23:10:53.000	117HH105A106A4M	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,167:59:0	
1580	96	310	23:11:57.000	117HH105A106A4N	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,168:64:0	
1581	96	310	23:12:10.333	117HH105A106A4O	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,168:84:0	
1582	96	310	23:13:14.333	117HH105A106A4P	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,169:89:0	
1583	96	310	23:13:27.666	117HH105A106A4Q	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,170:18:0	
1584	96	310	23:14:31.666	117HH105A106A4R	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,171:23:0	
1585	96	310	23:14:45.000	117HH105A106A4S	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,171:43:0	
1586	96	310	23:15:01.000		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2339.78 +/-	2R5	4	1	3,685,171:67:0	
1587	96	310	23:15:01.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,685,171:67:0	
1588	96	310	23:15:25.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2337.51 +/-	2R5	4	1	3,685,172:13:0	
1589	96	310	23:15:45.666	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,685,172:43:0	
1590	96	310	23:15:45.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2332.82 +/-	2R5	4	1	3,685,172:43:0	
1591	96	310	23:15:47.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2332.76 +/-	2R5	4	1	3,685,172:45:1	
1592	96	310	23:15:49.000	117HH105A106A4T	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,172:48:0	
1593	96	310	23:16:02.333	117HH105A106A4U	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,172:68:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	96	310	23:17:06.333	117HH105A106A4V	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,173:73:0	
1595	96	310	23:17:16.333	488AQ6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R5	4	1	3,685,173:88:0	
1596	96	310	23:17:19.666	117HH105A106A4W	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,174:02:0	
1597	96	310	23:18:23.666	117HH105A106A4X	7STRP	0.0075,-0.00125,	Slew =12.01	2R5	4	1	3,685,175:07:0	
1598	96	310	23:18:37.000	117HH105A106A4Y	7STRP	-0.0065,0.0,0,0,	Slew =,0.17	2R5	4	1	3,685,175:27:0	
1599	96	310	23:19:41.000	117HH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,685,176:32:0	
1600	96	310	23:19:47.000	176GN6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,685,176:41:0	
1601	96	310	23:19:49.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,685,176:44:0	
1602	96	310	23:19:49.000		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2332.76 +/-	2R5	4	1	3,685,176:44:0	
1603	96	310	23:19:59.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2333.93 +/-	2R5	4	1	3,685,176:59:0	
1604	96	310	23:20:09.666	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,685,176:75:0	
1605	96	310	23:20:09.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2331.43 +/-	2R5	4	1	3,685,176:75:0	
1606	96	310	23:20:11.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2331.37 +/-	2R5	4	1	3,685,176:77:1	
1607	**96**	**310**	**23:21:25.000**	**C3JNFEA01105-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1608	96	310	23:25:11.000	175DR422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,685,181:72:0	
1609	96	310	23:25:11.000		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2331.37 +/-	2R5	4	1	3,685,181:72:0	
1610	96	310	23:25:20.333	175DR176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,685,181:86:0	
1611	96	310	23:25:20.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *2332.64 +/-	2R5	4	1	3,685,181:86:3	
1612	**96**	**310**	**23:32:05.000**	**C3JNFEA01105-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1613	96	310	23:47:39.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *2018.94 +/-	2R5	4	1	3,685,204:01:0	
1614	96	310	23:47:39.000	175DR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,685,204:01:0	
1615	96	310	23:47:39.000	175DR6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,685,204:01:0	
1616	96	310	23:47:40.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2018.88 +/-	2R5	4	1	3,685,204:03:1	
1617	96	311	00:10:36.333	488AQ6B	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R5	4	1	3,685,226:65:0	
1618	96	311	01:00:01.000	488AQ6C	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	2R5	4	1	3,685,275:53:0	
1619	96	311	03:08:01.000	488AQ6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R5	4	1	3,685,402:16:0	
1620	96	311	03:15:00.333	488AQ6E	6TMSED	NORM,FL6	Sci, Eng, and D/L Chan	2R5	4	1	3,685,409:08:0	
1621	**96**	**311**	**03:21:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**2R5**	**4**	**1**	**3,685,415:01:5**	
1622	**96**	**311**	**03:21:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**2R5**	**4**	**1**	**3,685,415:01:5**	
1623	**96**	**311**	**03:21:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**2R5**	**4**	**1**	**3,685,415:01:5**	
1624	**96**	**311**	**03:21:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**2R5**	**4**	**1**	**3,685,415:01:5**	
1625	**96**	**311**	**03:21:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,685,415:01:5**	
1626	**96**	**311**	**03:21:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,685,415:01:5**	
1627	**96**	**311**	**03:21:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,685,415:01:5**	
1628	**96**	**311**	**03:21:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**2R5**	**4**	**1**	**3,685,415:01:5**	
1629	**96**	**311**	**03:21:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**2R5**	**4**	**0**	**3,685,415:01:5**	
1630	96	311	03:21:00.333		DMS:	: READY	RDY, TRACK 4, REV, TIC 2018.88 +/-	2R5	4	0	3,685,415:02:0	

			Sequence:	C03A2-AR		Created: 11/20/96	Begin: 96-311/03:21:00 Finish: 96-316/02:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	96	311	03:21:00.000	20A3EW	37A	Initial Condition	NIMS Power ON	2R5	4	0	3,685,415:01:5
2	96	311	03:21:00.000	20A3EX	37HR	Initial Condition	Replacement Heaters OFF	2R5	4	0	3,685,415:01:5
3	96	311	03:21:00.000	20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	2R5	4	0	3,685,415:01:5
4	96	311	03:21:00.000	20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	2R5	4	0	3,685,415:01:5
5	96	311	03:21:00.000	20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	2R5	4	0	3,685,415:01:5
6	96	311	03:21:00.000	20A3FF	40T2R	Initial Condition	PCT Heater 2 OFF	2R5	4	0	3,685,415:01:5
7	96	311	03:21:00.000	20A3FE	40T1PR	Initial Condition	PCT Heater 1 OFF (primary relay)	2R5	4	0	3,685,415:01:5
8	96	311	03:21:00.000	20A3FD	40HRPR	Initial Condition	RCT Heater OFF (primary relay)	2R5	4	0	3,685,415:01:5
9	96	311	03:21:00.000	20A3FB	37F2PR	Initial Condition	Shield Flash Heater OFF (primary relay)	2R5	4	0	3,685,415:01:5
10	96	311	03:21:00.333		DMS:	: READY	RDY, TRACK 4, REV, TIC 2007.00 +/-	2R5	4	0	3,685,415:02:0
11	96	311	03:27:01.666	165EY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	0	3,685,420:89:0
12	96	311	03:27:02.333	165EY4B	7SCAN	NORM,320.779999,	Check S/P Position	2R5	4	0	3,685,420:90:0
13	96	311	03:28:07.667	C3INRTIMON01-		-----START------		2R5	4	0	: :
14	96	311	03:30:00.333	125EY	NIMSINIT	GS	##### GROUP START INIT	2R5	4	0	3,685,423:84:0
15	96	311	03:30:00.333	125EY11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	0	3,685,423:84:0
16	96	311	03:30:00.333	125EY4A	37MB	1C,07,0,0,0,0	Selects mirror (spatial) edit table	2R5	4	0	3,685,423:84:0
17	96	311	03:31:01.000	127EY	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	0	3,685,424:84:0
18	96	311	03:31:01.000	127EY4A	37IOP	7,21	Fixed Map, Grating Start Position =21	2R7	4	21	3,685,424:84:0
19	96	311	03:31:01.666	127EY4B	37ETB	07,C7,19,2A,95,0	Loads wavelength edit table	2R7	4	21	3,685,424:85:0
20	96	311	03:31:09.666	127EY11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	21	3,685,425:06:0
21	96	311	03:31:25.666	432DC6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R7	4	21	3,685,425:30:0
22	96	311	03:33:25.666	432DD6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R7	4	21	3,685,427:28:0
23	96	311	03:34:03.000	125EZ11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	21	3,685,427:84:0
24	96	311	03:34:03.000	125EZ	NIMSINIT	GS	##### GROUP START INIT	2R7	4	21	3,685,427:84:0
25	96	311	03:34:03.000	125EZ4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R7	4	21	3,685,427:84:0
26	96	311	03:34:11.667	C3INRTIMON01-		-----STOP-------		2R7	4	21	: :
27	96	311	03:35:12.333	C3NIMSP2LD01-		-----START------		2R7	4	21	: :
28	96	311	03:36:13.000	20EB6A	6CKSUM	NIMS	NIMS,1000,14BC	2R7	4	21	3,685,430:06:0
29	96	311	03:37:13.666	20EB5A	37PL		Program Load (halts microprocessor & unwri	2R7	4	21	3,685,431:06:0
30	96	311	03:38:14.333	20EB5B	37MRL		Memory Realocate (software operates from R	2R7	4	21	3,685,432:06:0
31	96	311	03:39:15.000	20EB6B	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	2R7	4	21	3,685,433:06:0
32	96	311	03:40:15.666	20EB6C	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R7	4	21	3,685,434:06:0
33	96	311	03:41:16.333	20EB5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	3,685,435:06:0
34	96	311	03:42:17.000	20EB5D	37MN		Memory Normal (software operates from ROM)	260	4	0	3,685,436:06:0
35	96	311	03:43:17.666	20EB4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	3,685,437:06:0
36	96	311	03:44:18.333	20EB4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	3,685,438:06:0
37	96	311	03:50:22.333	C3NIMSP2LD01-		-----STOP-------		2R3	4	0	: :
38	96	311	04:00:23.666	165DS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,685,453:89:0
39	96	311	04:00:24.333	165DS4B	7SCAN	NORM,322.278999,	Check S/P Position	2R3	4	0	3,685,453:90:0
40	96	311	04:00:29.000	C3INCHEMIS02-		-----START------		2R3	4	0	: :
41	96	311	04:03:22.333	127DS	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,685,456:84:0
42	96	311	04:03:23.000	127DS4A	37ETB	07,C7,02,01,80,0	Loads wavelength edit table	2R3	4	0	3,685,456:85:0
43	96	311	04:03:31.000	127DS11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,685,457:06:0
44	96	311	04:04:15.000		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 2007.00 +/-	2R3	4	0	3,685,457:72:0
45	96	311	04:04:15.000	175DS422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,685,457:72:0
46	96	311	04:04:18.333	117DS	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	3,685,457:77:0
47	96	311	04:04:24.333	175DS176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,685,457:86:0
48	96	311	04:04:24.533		DMS:	: *RECORD	R7, TRACK 4, REV, TIC *2008.28 +/-	2R3	4	0	3,685,457:86:3
49	96	311	04:04:24.980	C3INCHEMIS02-	NIMPBK	301DS	MONITORING OF IO'S DAYSIDE	2R3	4	0	: :
50	96	311	04:04:27.666	117DS105A106A4A	7STRP	0.0065,0.0,0,0,0	Slew =,0.03	2R3	4	0	3,685,458:00:0
51	96	311	04:08:09.666	117DS11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	3,685,461:60:0
52	96	311	04:08:24.313	C3INCHEMIS02-	DESELC	300DS	MONITORING OF IO'S DAYSIDE	2R3	4	0	: :
53	96	311	04:08:34.333	175DS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,462:06:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	311	04:08:34.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1949.73 +/-	2R3	4	0	3,685,462:06:0	
55	96	311	04:08:34.333	175DS6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,685,462:06:0	
56	96	311	04:08:35.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1949.67 +/-	2R3	4	0	3,685,462:08:1	
57	**96**	**311**	**04:09:29.667**	**C3INCHEMIS02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
58	96	311	04:15:33.666	165HD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,685,468:89:0	
59	96	311	04:15:34.333	165HD4B	7SCAN	NORM,322.614998,	Check S/P Position	2R3	4	0	3,685,468:90:0	
60	96	311	04:15:39.000	117HD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,685,469:06:0	
61	96	311	04:16:01.000	117HD105A106A4A	7STRP	0.00708,0.0,0,0,	Slew =,0.04	2R3	4	0	3,685,469:39:0	
62	96	311	04:16:01.000	176GO6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,685,469:39:0	
63	96	311	04:18:59.666	117HD105A106A4B	7STRP	-0.0092,0.0013,0	Slew =14.01	2R3	4	0	3,685,472:34:0	
64	96	311	04:19:05.666	117HD105A106A4C	7STRP	0.00708,0.0,0,0,	Slew =,0.04	2R3	4	0	3,685,472:43:0	
65	96	311	04:22:04.333	117HD105A106A4D	7STRP	-0.0092,0.0013,0	Slew =14.01	2R3	4	0	3,685,475:38:0	
66	96	311	04:22:10.333	117HD105A106A4E	7STRP	0.00708,0.0,0,0,	Slew =,0.04	2R3	4	0	3,685,475:47:0	
67	96	311	04:25:09.000	117HD105A106A4F	7STRP	-0.0092,0.0013,0	Slew =14.01	2R3	4	0	3,685,478:42:0	
68	96	311	04:25:15.000	117HD105A106A4G	7STRP	0.00708,0.0,0,0,	Slew =,0.04	2R3	4	0	3,685,478:51:0	
69	96	311	04:28:13.666	117HD105A106A4H	7STRP	-0.0092,0.0013,0	Slew =14.01	2R3	4	0	3,685,481:46:0	
70	96	311	04:28:19.666	117HD105A106A4I	7STRP	0.00708,0.0,0,0,	Slew =,0.04	2R3	4	0	3,685,481:55:0	
71	96	311	04:28:36.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,685,481:80:0	
72	96	311	04:28:36.333		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1949.67 +/-	2R3	4	0	3,685,481:80:0	
73	96	311	04:29:01.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1947.40 +/-	2R3	4	0	3,685,482:26:0	
74	96	311	04:29:21.000	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,482:56:0	
75	96	311	04:29:21.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1942.71 +/-	2R3	4	0	3,685,482:56:0	
76	96	311	04:29:22.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1942.65 +/-	2R3	4	0	3,685,482:58:1	
77	96	311	04:31:18.333	117HD105A106A4J	7STRP	-0.0092,0.0013,0	Slew =14.01	2R3	4	0	3,685,484:50:0	
78	96	311	04:31:24.333	117HD105A106A4K	7STRP	0.00708,0.0,0,0,	Slew =,0.04	2R3	4	0	3,685,484:59:0	
79	96	311	04:34:23.000	117HD105A106A4L	7STRP	-0.0092,0.0013,0	Slew =14.01	2R3	4	0	3,685,487:54:0	
80	96	311	04:34:29.000	117HD105A106A4M	7STRP	0.00708,0.0,0,0,	Slew =,0.04	2R3	4	0	3,685,487:63:0	
81	96	311	04:37:27.666	117HD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,685,490:58:0	
82	96	311	04:41:31.666	176GO6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,685,494:60:0	
83	96	311	04:41:33.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1942.65 +/-	2R3	4	0	3,685,494:63:0	
84	96	311	04:41:33.666	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,685,494:63:0	
85	96	311	04:41:43.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1943.82 +/-	2R3	4	0	3,685,494:78:0	
86	96	311	04:42:02.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1939.44 +/-	2R3	4	0	3,685,495:15:0	
87	96	311	04:42:02.333	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,495:15:0	
88	96	311	04:42:03.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1939.38 +/-	2R3	4	0	3,685,495:17:1	
89	96	311	04:44:53.000	165DT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,685,497:89:0	
90	96	311	04:44:53.666	165DT4B	7SCAN	NORM,302.413998,	Check S/P Position	2R3	4	0	3,685,497:90:0	
91	**96**	**311**	**04:45:50.333**	**127DT4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,685,498:84:0**	
92	96	311	04:45:50.333	127DT	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,685,498:84:0	
93	**96**	**311**	**04:45:51.000**	**127DT4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,685,498:85:0**	
94	96	311	04:45:59.000	127DT11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,685,499:06:0	
95	96	311	04:46:51.000	125DT	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	3,685,499:84:0	
96	96	311	04:46:51.000	125DT11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	3,685,499:84:0	
97	**96**	**311**	**04:46:51.000**	**125DT4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R5**	**4**	**1**	**3,685,499:84:0**	
98	**96**	**311**	**04:46:59.667**	**C3JNNPOLE 01-**		**-----START------**		**3R5**	**4**	**1**	**: :**	
99	96	311	04:47:43.666		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1939.38 +/-	3R5	4	1	3,685,500:72:0	
100	96	311	04:47:43.666	175DT422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R5	4	1	3,685,500:72:0	
101	96	311	04:47:53.000	175DT176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R5	4	1	3,685,500:86:0	
102	96	311	04:47:53.200		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1940.66 +/-	3R5	4	1	3,685,500:86:3	
103	**96**	**311**	**04:47:53.645**	**C3JNNPOLE 01-**	**NIMPBK**	**301DT**	**JUPITER NORTH POLE MAP #1**	**3R5**	**4**	**1**	**: :**	
104	96	311	04:48:47.666	117DT	**CSMOS**	GS	***** GROUP START CSMOS	3R5	4	1	3,685,501:77:0	
105	96	311	04:48:57.000	117DT105A106A4A	7STRP	0.03101,0.0,0,0,	Slew =,0.08	3R5	4	1	3,685,502:00:0	
106	96	311	04:55:26.333	117DT105A106A4B	7STRP	-0.037017,0.0100	Slew =12.01	3R5	4	1	3,685,508:38:0	
107	96	311	04:55:35.666	117DT105A106A4C	7STRP	0.03101,0.0,0,0,	Slew =,0.08	3R5	4	1	3,685,508:52:0	
108	96	311	05:02:05.000	117DT11A	**CSMOS**	GE	***** GROUP END CSMOS	3R5	4	1	3,685,514:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	**96**	**311**	**05:02:09.667**	**C3JNNPOLE 01-**		**-----STOP-------**		**3R5**	**4**	**1**	**: :**	
110	**96**	**311**	**05:04:08.311**	**C3JNNPOLE 01-**	**DESELC**	**300DT**	**JUPITER NORTH POLE MAP #1**	**3R5**	**4**	**1**	**: :**	
111	96	311	05:04:18.333	175DT6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R5	4	1	3,685,517:17:0	
112	96	311	05:04:18.333	175DT422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	4	1	3,685,517:17:0	
113	96	311	05:04:18.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *1709.77 +/-	3R5	4	1	3,685,517:17:0	
114	96	311	05:04:19.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1709.71 +/-	3R5	4	1	3,685,517:19:1	
115	96	311	05:06:07.000	165DU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R5	4	1	3,685,518:89:0	
116	96	311	05:06:07.666	165DU4B	7SCAN	NORM,303.873997,	Check S/P Position	3R5	4	1	3,685,518:90:0	
117	96	311	05:08:00.333	117DU	**CSMOS**	GS	***** GROUP START CSMOS	3R5	4	1	3,685,520:77:0	
118	96	311	05:08:05.000	125DU11A	NIMSINIT	GE	##### GROUP END INIT	3R5	4	1	3,685,520:84:0	
119	96	311	05:08:05.000	125DU	NIMSINIT	GS	##### GROUP START INIT	3R5	4	1	3,685,520:84:0	
120	**96**	**311**	**05:08:05.000**	**125DU4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R5**	**4**	**1**	**3,685,520:84:0**	
121	96	311	05:08:09.666	117DU105A106A4A	7STRP	0.016251,0.0,0,0	Slew =,0.01	4R5	4	1	3,685,521:00:0	
122	**96**	**311**	**05:09:05.666**	**127DU4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,685,521:84:0**	
123	96	311	05:09:05.666	127DU	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,685,521:84:0	
124	**96**	**311**	**05:09:06.333**	**127DU4B**	**37ETB**	**0A,CA,16,07,FE,1**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,685,521:85:0**	
125	96	311	05:09:14.333	127DU11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,685,522:06:0	
126	**96**	**311**	**05:10:15.000**	**C3JNAURORA01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
127	96	311	05:10:59.000	175DU422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,685,523:72:0	
128	96	311	05:10:59.000		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 1709.71 +/-	4R3	4	0	3,685,523:72:0	
129	96	311	05:11:08.333	175DU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,685,523:86:0	
130	96	311	05:11:08.533		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *1710.98 +/-	4R3	4	0	3,685,523:86:3	
131	**96**	**311**	**05:11:08.977**	**C3JNAURORA01-**	**NIMPBK**	**301DU**	**JUPITER AURORA**	**4R3**	**4**	**0**	**: :**	
132	96	311	05:35:27.666	117DU105A106B4A	7STRP	-0.015001,0.1740	Slew =12.01	4R3	4	0	3,685,548:00:0	
133	96	311	05:36:14.333	117DU105A106B4B	7STRP	0.017402,0.0,0,0	Slew =,0.01	4R3	4	0	3,685,548:70:0	
134	**96**	**311**	**05:58:12.975**	**C3JNAURORA01-**	**DESELC**	**300DU**	**JUPITER AURORA**	**4R3**	**4**	**0**	**: :**	
135	96	311	06:05:43.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 943.53 +/-	4R3	4	0	3,685,577:84:0	
136	96	311	06:05:43.000	175DU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,685,577:84:0	
137	96	311	06:05:43.000	175DU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,685,577:84:0	
138	96	311	06:05:44.400		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 943.47 +/-	4R3	4	0	3,685,577:86:1	
139	96	311	06:05:45.666	117DU11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,685,577:88:0	
140	96	311	06:05:46.333	165JH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,685,577:89:0	
141	96	311	06:05:47.000	165JH4B	7SCAN	NORM,325.929996,	Check S/P Position	4R3	4	0	3,685,577:90:0	
142	**96**	**311**	**06:05:51.667**	**C3JNAURORA01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
143	96	311	06:09:54.333	118JH	**SMOS**	GS		4R3	4	0	3,685,582:06:0	
144	96	311	06:10:05.000		DMS:	: *US-RUNUP	R806, TRACK 4, REV, TIC 943.47 +/-	4R3	4	0	3,685,582:22:0	
145	96	311	06:10:05.000	175JH422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R3	4	0	3,685,582:22:0	
146	96	311	06:10:17.666	175JH176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	3,685,582:41:0	
147	96	311	06:10:18.266		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC * 880.85 +/-	4R3	4	0	3,685,582:41:9	
148	96	311	06:10:18.333	118JH110A111A4A	7STRP	0.0,0.0074,26,0,	Slew =,3.01	4R3	4	0	3,685,582:42:0	
149	96	311	06:10:27.000	118JH11A	**SMOS**	GE		4R3	4	0	3,685,582:55:0	
150	96	311	06:10:30.333		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC * 583.89 +/-	4R3	4	0	3,685,582:60:0	
151	96	311	06:10:30.333	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,685,582:60:0	
152	96	311	06:10:33.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 572.89 +/-	4R3	4	0	3,685,582:64:7	
153	96	311	08:00:00.266	488AR6A	6TMSED	NORM,CL6	Sci, Eng, and D/L Chan	4R3	4	0	3,685,690:87:0	
154	96	311	08:01:02.266	165DV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,685,691:89:0	
155	96	311	08:01:02.933	165DV4B	7SCAN	NORM,328.728996,	Check S/P Position	4R3	4	0	3,685,691:90:0	
156	**96**	**311**	**08:01:07.667**	**C3INCHEMIS03-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
157	96	311	08:03:00.266	125DV11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,685,693:84:0	
158	**96**	**311**	**08:03:00.266**	**125DV4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,685,693:84:0**	
159	96	311	08:03:00.266	125DV	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,685,693:84:0	
160	96	311	08:04:00.933	127DV	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,685,694:84:0	
161	**96**	**311**	**08:04:01.600**	**127DV4A**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,685,694:85:0**	
162	96	311	08:04:09.600	127DV11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,685,695:06:0	
163	96	311	08:04:53.600	175DV422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,685,695:72:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
164	96	311	08:04:53.600		DMS:	: *US-RUNUP	R7, TRACK 4, REV, TIC 572.89 +/-	2R3	4	0	3,685,695:72:0
165	96	311	08:04:56.933	117DV	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,685,695:77:0
166	96	311	08:05:02.933	175DV176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,685,695:86:0
167	96	311	08:05:03.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 574.17 +/-	2R3	4	0	3,685,695:86:3
168	96	311	08:05:06.266	117DV105A106A4A	7STRP	0.011,0.0,0,0,0,	Slew =,0.03	2R3	4	0	3,685,696:00:0
169	96	311	08:11:14.933	117DV105A106A4B	7STRP	-0.012801,0.007,	Slew =12.01	2R3	4	0	3,685,702:07:0
170	96	311	08:11:24.266	117DV105A106A4C	7STRP	0.011,0.0,0,0,0,	Slew =,0.03	2R3	4	0	3,685,702:21:0
171	96	311	08:17:32.933	117DV11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,685,708:28:0
172	**96**	**311**	**08:18:35.667**	**C3INCHEMIS03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
173	96	311	08:20:34.933	175DV6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,685,711:28:0
174	96	311	08:20:34.933	175DV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,711:28:0
175	96	311	08:20:34.933		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 355.78 +/-	2R3	4	0	3,685,711:28:0
176	96	311	08:20:36.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 355.72 +/-	2R3	4	0	3,685,711:30:1
177	96	311	08:21:16.266	488AR6B	6TMSED	NORM,CL5	Sci, Eng, and D/L Chan	2R3	4	0	3,685,711:90:0
178	96	311	08:54:32.266	465KE6A	6DTRN	CMD,6DTRN,465KE6	DMS TRACK TURNAROUND	2R3	4	0	3,685,744:81:0
179	96	311	08:54:32.266		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 355.72 +/-	2R3	4	0	3,685,744:81:0
180	96	311	09:05:54.266		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.37 +/-	2R3	4	0	3,685,756:12:0
181	96	311	09:05:55.666		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.31 +/-	2R3	4	0	3,685,756:14:1
182	96	311	09:06:09.133		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 201.56 +/-	2R3	4	0	3,685,756:34:3
183	96	311	09:06:10.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 201.62 +/-	2R3	4	0	3,685,756:36:4
184	96	311	09:35:04.266	165JI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,685,784:89:0
185	96	311	09:35:04.933	165JI4B	7SCAN	NORM,329.598,-11	Check S/P Position	2R3	4	0	3,685,784:90:0
186	96	311	09:38:04.266	488AR6C	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	2R3	4	0	3,685,787:86:0
187	96	311	09:38:56.266	175JI422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,685,788:73:0
188	96	311	09:38:56.266		DMS:	: *US-RUNUP	R806, TRACK 1, FWD, TIC 201.62 +/-	2R3	4	0	3,685,788:73:0
189	96	311	09:39:08.933	175JI176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,685,789:01:0
190	96	311	09:39:09.533		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC * 267.03 +/-	2R3	4	0	3,685,789:01:9
191	96	311	09:39:16.933		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC * 449.14 +/-	2R3	4	0	3,685,789:13:0
192	96	311	09:39:16.933	175JI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,789:13:0
193	96	311	09:39:20.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 460.14 +/-	2R3	4	0	3,685,789:17:7
194	**96**	**311**	**09:40:12.933**	**20EC6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14B3**	**2R3**	**4**	**0**	**3,685,790:06:0**
195	**96**	**311**	**09:41:13.600**	**20EC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,685,791:06:0**
196	**96**	**311**	**09:42:14.266**	**20EC5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,685,792:06:0**
197	**96**	**311**	**09:42:14.333**	**C3ENEURORT01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
198	**96**	**311**	**09:43:14.933**	**20EC6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,685,793:06:0**
199	**96**	**311**	**09:44:15.600**	**20EC6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,685,794:06:0**
200	**96**	**311**	**09:45:16.266**	**20EC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,685,795:06:0**
201	**96**	**311**	**09:46:16.933**	**20EC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,685,796:06:0**
202	**96**	**311**	**09:47:17.600**	**20EC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,685,797:06:0**
203	**96**	**311**	**09:48:18.333**	**C3ENEURORT01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
204	96	311	09:49:13.600	165EZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,685,798:89:0
205	96	311	09:49:14.266	165EZ4B	7SCAN	NORM,241.164999,	Check S/P Position	2R0	4	0	3,685,798:90:0
206	96	311	09:50:10.933	125EQ	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	3,685,799:84:0
207	**96**	**311**	**09:50:10.933**	**125EQ4A**	**37IST**	**0,0,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**3,685,799:84:0**
208	96	311	09:51:11.600	125EQ11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	3,685,800:84:0
209	**96**	**311**	**09:51:11.600**	**125EQ4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**3,685,800:84:0**
210	96	311	09:53:12.933	127EQ	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	3,685,802:84:0
211	**96**	**311**	**09:53:12.933**	**127EQ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,685,802:84:0**
212	**96**	**311**	**09:53:13.600**	**127EQ4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,685,802:85:0**
213	96	311	09:53:21.600	127EQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,685,803:06:0
214	**96**	**311**	**09:53:37.600**	**432DA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,685,803:30:0**
215	**96**	**311**	**09:55:37.600**	**432DB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,685,805:28:0**
216	**96**	**311**	**09:56:14.933**	**125EX4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**3,685,805:84:0**
217	96	311	09:56:14.933	125EX11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,685,805:84:0
218	96	311	09:56:14.933	125EX	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,685,805:84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	96	311	10:26:38.266	165GY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,685,835	89:0
220	96	311	10:26:38.933	165GY4B	7SCAN	NORM,329.685997,	Check S/P Position	2R3	4	0	3,685,835	90:0
221	96	311	10:30:32.933	117GY	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,685,839	77:0
222	96	311	10:30:42.266	117GY105A106A4A	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,840	00:0
223	96	311	10:30:42.266	176GP6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,685,840	00:0
224	96	311	10:35:43.600	117GY105A106A4B	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,844	88:0
225	96	311	10:35:50.266	117GY105A106A4C	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,845	07:0
226	96	311	10:40:51.600	117GY105A106A4D	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,850	04:0
227	96	311	10:40:58.266	117GY105A106A4E	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,850	14:0
228	96	311	10:42:04.266	488AR6D	6TMSED	NORM,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,685,851	22:0
229	96	311	10:43:17.600		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 460.14 +/-	2R3	4	0	3,685,852	41:0
230	96	311	10:43:17.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,685,852	41:0
231	96	311	10:43:42.266		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 465.69 +/-	2R3	4	0	3,685,852	78:0
232	96	311	10:44:02.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,853	17:0
233	96	311	10:44:02.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 470.38 +/-	2R3	4	0	3,685,853	17:0
234	96	311	10:44:03.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 470.44 +/-	2R3	4	0	3,685,853	19:1
235	96	311	10:45:59.600	117GY105A106A4F	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,855	11:0
236	96	311	10:46:06.266	117GY105A106A4G	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,855	21:0
237	96	311	10:51:07.600	117GY105A106A4H	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,860	18:0
238	96	311	10:51:14.266	117GY105A106A4I	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,860	28:0
239	96	311	10:56:15.600	117GY105A106A4J	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,865	25:0
240	96	311	10:56:19.600		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 470.44 +/-	2R3	4	0	3,685,865	31:0
241	96	311	10:56:19.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,685,865	31:0
242	96	311	10:56:22.266	117GY105A106A4K	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,865	35:0
243	96	311	10:56:44.266		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 475.99 +/-	2R3	4	0	3,685,865	68:0
244	96	311	10:57:04.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 480.68 +/-	2R3	4	0	3,685,866	07:0
245	96	311	10:57:04.266	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,866	07:0
246	96	311	10:57:05.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 480.74 +/-	2R3	4	0	3,685,866	09:1
247	96	311	11:01:23.600	117GY105A106A4L	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,870	32:0
248	96	311	11:01:30.266	117GY105A106A4M	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,870	42:0
249	96	311	11:06:31.600	117GY105A106A4N	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,875	39:0
250	96	311	11:06:38.266	117GY105A106A4O	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,875	49:0
251	96	311	11:09:21.600		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 480.74 +/-	2R3	4	0	3,685,878	21:0
252	96	311	11:09:21.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,685,878	21:0
253	96	311	11:09:46.266		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 486.29 +/-	2R3	4	0	3,685,878	58:0
254	96	311	11:10:06.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 490.98 +/-	2R3	4	0	3,685,878	88:0
255	96	311	11:10:06.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,878	88:0
256	96	311	11:10:07.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 491.04 +/-	2R3	4	0	3,685,878	90:1
257	96	311	11:10:16.266	488AR6E	6TMSED	FILL,CL3	Sci, Eng, and D/L Chan	2R3	4	0	3,685,879	12:0
258	96	311	11:11:39.600	117GY105A106A4P	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,880	46:0
259	96	311	11:11:46.266	117GY105A106A4Q	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,880	56:0
260	96	311	11:16:12.266	488AS6A	6TMSED	FILL,CL1	Sci, Eng, and D/L Chan	2R3	4	0	3,685,885	00:0
261	96	311	11:16:47.600	117GY105A106A4R	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,885	53:0
262	96	311	11:16:54.266	117GY105A106A4S	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,885	63:0
263	96	311	11:21:55.600	117GY105A106A4T	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,890	60:0
264	96	311	11:22:02.266	117GY105A106A4U	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,890	70:0
265	96	311	11:22:24.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,685,891	12:0
266	96	311	11:22:24.266		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 491.04 +/-	2R3	4	0	3,685,891	12:0
267	96	311	11:22:48.266		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 496.44 +/-	2R3	4	0	3,685,891	48:0
268	96	311	11:23:08.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 501.13 +/-	2R3	4	0	3,685,891	78:0
269	96	311	11:23:08.266	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,891	78:0
270	96	311	11:23:09.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 501.19 +/-	2R3	4	0	3,685,891	80:1
271	96	311	11:27:03.600	117GY105A106A4V	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,895	67:0
272	96	311	11:27:10.266	117GY105A106A4W	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,895	77:0
273	96	311	11:32:11.600	117GY105A106A4X	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,900	74:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	311	11:32:18.266	117GY105A106A4Y	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,900	84:0
275	96	311	11:35:26.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,685,904	02:0
276	96	311	11:35:26.266		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 501.19 +/-	2R3	4	0	3,685,904	02:0
277	96	311	11:35:50.933		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 506.74 +/-	2R3	4	0	3,685,904	39:0
278	96	311	11:36:10.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 511.43 +/-	2R3	4	0	3,685,904	69:0
279	96	311	11:36:10.933	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,904	69:0
280	96	311	11:36:12.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 511.49 +/-	2R3	4	0	3,685,904	71:1
281	96	311	11:37:19.600	117GY105A106A4Z	7STRP	0.016802,0.00125	Slew =0,5.6	2R3	4	0	3,685,905	81:0
282	96	311	11:37:26.266	117GY105A106A4AA	7STRP	-0.018002,0.0,0,	Slew =,0.06	2R3	4	0	3,685,906	00:0
283	96	311	11:42:27.600	176GP6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,685,910	88:0
284	96	311	11:42:27.600	117GY11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,685,910	88:0
285	96	311	11:42:29.600		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 511.49 +/-	2R3	4	0	3,685,911	00:0
286	96	311	11:42:29.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,685,911	00:0
287	96	311	11:42:39.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 513.60 +/-	2R3	4	0	3,685,911	15:0
288	96	311	11:42:52.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,911	35:0
289	96	311	11:42:52.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 516.72 +/-	2R3	4	0	3,685,911	35:0
290	96	311	11:42:54.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 516.78 +/-	2R3	4	0	3,685,911	37:1
291	96	311	11:43:28.933	165JJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,685,911	89:0
292	96	311	11:43:29.600	165JJ4B	7SCAN	NORM,352.938999,	Check S/P Position	2R3	4	0	3,685,911	90:0
293	96	311	11:47:22.266		DMS:	: *US-RUNUP	R115, TRACK 1, FWD, TIC 516.78 +/-	2R3	4	0	3,685,915	75:0
294	96	311	11:47:22.266	175JJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,685,915	75:0
295	96	311	11:47:34.266	175JJ176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	2R3	4	0	3,685,916	02:0
296	96	311	11:47:34.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 524.45 +/-	2R3	4	0	3,685,916	02:1
297	96	311	11:47:41.600	175JJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,916	13:0
298	96	311	11:47:41.600		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 550.00 +/-	2R3	4	0	3,685,916	13:0
299	96	311	11:47:43.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 550.91 +/-	2R3	4	0	3,685,916	15:1
300	96	311	11:48:32.266	165DW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,685,916	89:0
301	96	311	11:48:32.933	165DW4B	7SCAN	NORM,331.73,-10.	Check S/P Position	2R3	4	0	3,685,916	90:0
302	**96**	**311**	**11:48:37.667**	**C3INHRSPEC01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
303	96	311	11:51:30.933	127DW	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,685,919	84:0
304	**96**	**311**	**11:51:31.600**	**127DW4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,685,919**	**85:0**
305	96	311	11:51:39.600	127DW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,685,920	06:0
306	96	311	11:52:20.933		DMS:	: *US-RUNUP	R28, TRACK 1, FWD, TIC 550.91 +/-	2R3	4	0	3,685,920	68:0
307	96	311	11:52:20.933	175DW422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,685,920	68:0
308	96	311	11:52:26.933	117DW	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,685,920	77:0
309	96	311	11:52:32.933	175DW176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,685,920	86:0
310	96	311	11:52:33.000		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC * 553.80 +/-	2R3	4	0	3,685,920	86:1
311	**96**	**311**	**11:52:33.629**	**C3INHRSPEC01-**	**NIMPBK**	**301DW**	**HIGH SPATIAL & SPECTRAL OBS. OF**	**2R3**	**4**	**0**	**: :**	
312	96	311	11:52:36.266	117DW105A106A4A	7STRP	0.013001,0.0,0,0	Slew =,0.03	2R3	4	0	3,685,921	00:0
313	96	311	11:59:57.600	117DW105A106A4B	7STRP	-0.015101,0.0078	Slew =12.01	2R3	4	0	3,685,928	25:0
314	**96**	**311**	**11:59:57.629**	**C3INHRSPEC01-**	**NIMPBK**	**301ET**	**HIGH SPATIAL & SPECTRAL OBS. OF**	**2R3**	**4**	**0**	**: :**	
315	**96**	**311**	**11:59:57.629**	**C3INHRSPEC01-**	**DESELC**	**300DW**	**HIGH SPATIAL & SPECTRAL OBS. OF**	**2R3**	**4**	**0**	**: :**	
316	96	311	12:00:00.266	481UB4A	7VECT	BB1	Inert vect update UTC	2R3	4	0	3,685,928	29:0
317	96	311	12:00:05.600	117DW105A106A4C	7STRP	0.013001,0.0,0,0	Slew =,0.03	2R3	4	0	3,685,928	37:0
318	96	311	12:07:26.933	117DW11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,685,935	62:0
319	**96**	**311**	**12:08:20.962**	**C3INHRSPEC01-**	**DESELC**	**300ET**	**HIGH SPATIAL & SPECTRAL OBS. OF**	**2R3**	**4**	**0**	**: :**	
320	96	311	12:08:21.600	175DW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,685,936	53:0
321	96	311	12:08:21.600		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *1387.53 +/-	2R3	4	0	3,685,936	53:0
322	96	311	12:08:23.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1387.75 +/-	2R3	4	0	3,685,936	55:1
323	**96**	**311**	**12:09:20.999**	**C3INHRSPEC01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
324	96	311	12:10:12.266	488AS6B	6TMSED	NORM,CL1	Sci, Eng, and D/L Chan	2R3	4	0	3,685,938	37:0
325	96	311	12:23:55.600	165DX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,685,951	89:0
326	96	311	12:23:56.266	165DX4B	7SCAN	NORM,331.903999,	Check S/P Position	2R3	4	0	3,685,951	90:0
327	**96**	**311**	**12:24:00.999**	**C3INTHRMAL01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
328	96	311	12:25:53.600	125DX	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,685,953	84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	96	311	12:25:53.600	125DX11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,685,953:84:0	
330	**96**	**311**	**12:25:53.600**	**125DX4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,685,953:84:0**	
331	96	311	12:27:44.266	175DX422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	3,685,955:68:0	
332	96	311	12:27:44.266		DMS:	: *US-RUNUP	R28, TRACK 1, FWD, TIC 1387.75 +/-	4R3	4	0	3,685,955:68:0	
333	96	311	12:27:50.266	117DX	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,685,955:77:0	
334	96	311	12:27:56.266	175DX176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,685,955:86:0	
335	96	311	12:27:56.333		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *1390.65 +/-	4R3	4	0	3,685,955:86:1	
336	96	311	12:27:59.600	117DX105A106A4A	7STRP	0.0055,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,685,956:00:0	
337	96	311	12:31:08.266	117DX105A106A4B	7STRP	-0.0066,0.007,0,	Slew =12.01	4R3	4	0	3,685,959:10:0	
338	96	311	12:31:18.933	117DX105A106A4C	7STRP	0.0055,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,685,959:26:0	
339	**96**	**311**	**12:32:49.666**	**C3INTHRMAL01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
340	96	311	12:34:27.600	117DX11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,685,962:36:0	
341	96	311	12:34:38.266		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *1743.91 +/-	4R3	4	0	3,685,962:52:0	
342	96	311	12:34:38.266	175DX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,685,962:52:0	
343	96	311	12:34:39.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1744.13 +/-	4R3	4	0	3,685,962:54:1	
344	96	311	12:58:36.266	488AS6C	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,685,986:25:0	
345	96	311	13:06:23.600	165JK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,685,993:89:0	
346	96	311	13:06:24.266	165JK4B	7SCAN	NORM,332.793999,	Check S/P Position	4R3	4	0	3,685,993:90:0	
347	96	311	13:10:16.266		DMS:	: *US-RUNUP	R806, TRACK 1, FWD, TIC 1744.13 +/-	4R3	4	0	3,685,997:74:0	
348	96	311	13:10:16.266	175JK422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R3	4	0	3,685,997:74:0	
349	96	311	13:10:19.600	118JK	**SMOS**	GS		4R3	4	0	3,685,997:79:0	
350	96	311	13:10:28.933	175JK176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	3,685,998:02:0	
351	96	311	13:10:29.533		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *1809.54 +/-	4R3	4	0	3,685,998:02:9	
352	96	311	13:10:29.600	118JK110A111A4A	7STRP	0.0,0.007,26,0,0	Slew =,3.01	4R3	4	0	3,685,998:03:0	
353	96	311	13:10:38.266	118JK11A	**SMOS**	GE		4R3	4	0	3,685,998:16:0	
354	96	311	13:10:44.933		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *2188.52 +/-	4R3	4	0	3,685,998:26:0	
355	96	311	13:10:44.933	175JK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,685,998:26:0	
356	96	311	13:10:48.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2199.52 +/- 1	4R3	4	0	3,685,998:30:7	
357	96	311	13:19:51.600	488AS6D	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,686,007:27:0	
358	**96**	**311**	**13:24:32.266**	**125FN4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,686,011:84:0**	
359	96	311	13:24:32.266	125FN11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,686,011:84:0	
360	96	311	13:24:32.266	125FN	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,686,011:84:0	
361	**96**	**311**	**13:24:40.999**	**C3NNHEALTH05-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
362	**96**	**311**	**13:25:32.933**	**127FN4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,686,012:84:0**	
363	96	311	13:25:32.933	127FN	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,686,012:84:0	
364	**96**	**311**	**13:25:33.600**	**127FN4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,686,012:85:0**	
365	96	311	13:25:41.600	127FN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,686,013:06:0	
366	**96**	**311**	**13:25:57.600**	**432DQ6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,686,013:30:0**	
367	**96**	**311**	**13:26:56.933**	**432DR6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,686,014:28:0**	
368	**96**	**311**	**13:27:42.999**	**C3NNHEALTH05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
369	96	311	13:43:48.266	165JL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,030:89:0	
370	96	311	13:43:48.933	165JL4B	7SCAN	NORM,342.410999,	Check S/P Position	2R3	4	0	3,686,030:90:0	
371	96	311	13:47:41.600	175JL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	3,686,034:75:0	
372	96	311	13:47:41.600		DMS:	: *US-RUNUP	R115, TRACK 1, FWD, TIC 2199.52 +/- 1	2R3	4	0	3,686,034:75:0	
373	96	311	13:47:53.600	175JL176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	2R3	4	0	3,686,035:02:0	
374	96	311	13:47:53.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2207.19 +/- 1	2R3	4	0	3,686,035:02:1	
375	96	311	13:48:00.933	175JL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,035:13:0	
376	96	311	13:48:00.933		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2232.73 +/- 1	2R3	4	0	3,686,035:13:0	
377	96	311	13:48:02.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2233.65 +/- 1	2R3	4	0	3,686,035:15:1	
378	96	311	14:17:08.266	488AS6E	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	2R3	4	0	3,686,063:86:0	
379	96	311	14:20:12.266	165DY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,066:89:0	
380	96	311	14:20:12.933	165DY4B	7SCAN	NORM,254.786999,	Check S/P Position	2R3	4	0	3,686,066:90:0	
381	96	311	14:22:10.266	125DY11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,686,068:84:0	
382	96	311	14:22:10.266	125DY	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,686,068:84:0	
383	**96**	**311**	**14:22:10.266**	**125DY4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,686,068:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	**96**	**311**	**14:23:10.933**	**127DY4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,686,069:84:0**	
385	96	311	14:23:10.933	127DY	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	3,686,069:84:0	
386	**96**	**311**	**14:23:11.600**	**127DY4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,686,069:85:0**	
387	96	311	14:23:19.600	127DY11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,686,070:06:0	
388	96	311	14:23:56.933	175KI422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R5	4	1	3,686,070:62:0	
389	96	311	14:23:56.933		DMS:	: *US-RUNUP	R28, TRACK 1, FWD, TIC 2233.65 +/- 1	2R5	4	1	3,686,070:62:0	
390	96	311	14:24:06.933	117DY	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,686,070:77:0	
391	96	311	14:24:08.933	175KI176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R5	4	1	3,686,070:80:0	
392	96	311	14:24:09.000		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *2236.54 +/- 1	2R5	4	1	3,686,070:80:1	
393	96	311	14:24:10.266	175DY422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,686,070:82:0	
394	96	311	14:24:10.266		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *2237.66 +/- 1	2R5	4	1	3,686,070:82:0	
395	96	311	14:24:11.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *2237.88 +/- 1	2R5	4	1	3,686,070:84:1	
396	96	311	14:24:12.933	175DY176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,686,070:86:0	
397	96	311	14:24:13.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2237.99 +/- 1	2R5	4	1	3,686,070:86:3	
398	96	311	14:24:16.266	117DY105A106A4A	7STRP	-0.014501,0.0,0,	Slew =0,0.1	2R5	4	1	3,686,071:00:0	
399	**96**	**311**	**14:24:17.333**	**C3ENPHINEA01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
400	96	311	14:26:48.266	117DY105A106A4B	7STRP	0.018402,-0.0090	Slew =12.01	2R5	4	1	3,686,073:46:0	
401	96	311	14:27:00.933	117DY105A106A4C	7STRP	-0.014501,0.0,0,	Slew =0,0.1	2R5	4	1	3,686,073:65:0	
402	96	311	14:29:32.933	117DY105A106A4D	7STRP	0.018402,-0.0090	Slew =12.01	2R5	4	1	3,686,076:20:0	
403	96	311	14:29:45.600	117DY105A106A4E	7STRP	-0.014501,0.0,0,	Slew =0,0.1	2R5	4	1	3,686,076:39:0	
404	**96**	**311**	**14:32:13.333**	**C3ENPHINEA01-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
405	96	311	14:32:17.600	117DY11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,686,078:85:0	
406	96	311	14:34:10.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2377.95 +/- 1	2R5	4	1	3,686,080:72:0	
407	96	311	14:34:10.266	175DY6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,686,080:72:0	
408	96	311	14:34:10.266	175DY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,686,080:72:0	
409	96	311	14:34:11.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2378.01 +/- 1	2R5	4	1	3,686,080:74:1	
410	96	311	15:12:46.933	165DZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,686,118:89:0	
411	96	311	15:12:47.600	165DZ4B	7SCAN	NORM,337.23,-8.5	Check S/P Position	2R5	4	1	3,686,118:90:0	
412	**96**	**311**	**15:12:52.333**	**C3INTHRMAL02-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
413	**96**	**311**	**15:14:44.933**	**125DZ4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R5**	**4**	**1**	**3,686,120:84:0**	
414	96	311	15:14:44.933	125DZ	NIMSINIT	GS	##### GROUP START INIT	4R5	4	1	3,686,120:84:0	
415	96	311	15:14:44.933	125DZ11A	NIMSINIT	GE	##### GROUP END INIT	4R5	4	1	3,686,120:84:0	
416	**96**	**311**	**15:15:45.600**	**127DZ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,686,121:84:0**	
417	96	311	15:15:45.600	127DZ	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,686,121:84:0	
418	**96**	**311**	**15:15:46.266**	**127DZ4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,686,121:85:0**	
419	96	311	15:15:54.266	127DZ11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,686,122:06:0	
420	96	311	15:16:35.600		DMS:	: *US-RUNUP	R28, TRACK 1, FWD, TIC 2378.01 +/- 1	4R3	4	0	3,686,122:68:0	
421	96	311	15:16:35.600	175DZ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	3,686,122:68:0	
422	96	311	15:16:41.600	117DZ	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,686,122:77:0	
423	96	311	15:16:47.600	175DZ176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	3,686,122:86:0	
424	96	311	15:16:47.666		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *2380.90 +/- 1	4R3	4	0	3,686,122:86:1	
425	96	311	15:16:50.933	117DZ105A106A4A	7STRP	0.0035,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,686,123:00:0	
426	96	311	15:18:50.266	117DZ105A106B4A	7STRP	-0.00516,0.00715	Slew =12.01	4R3	4	0	3,686,124:88:0	
427	96	311	15:19:00.933	117DZ105A106B4B	7STRP	0.0035,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,686,125:13:0	
428	96	311	15:21:00.266	117DZ105A106A4B	7STRP	0.0001,-0.007,0,	Slew =12.01	4R3	4	0	3,686,127:10:0	
429	96	311	15:21:10.933	117DZ105A106A4C	7STRP	0.0035,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,686,127:26:0	
430	96	311	15:23:10.266	117DZ105A106B4C	7STRP	-0.00516,0.00715	Slew =12.01	4R3	4	0	3,686,129:23:0	
431	96	311	15:23:20.933	117DZ105A106B4D	7STRP	0.0035,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,686,129:39:0	
432	96	311	15:25:19.600	175DZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,686,131:35:0	
433	96	311	15:25:19.600		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *2830.84 +/- 1	4R3	4	0	3,686,131:35:0	
434	96	311	15:25:20.266	117DZ11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,686,131:36:0	
435	96	311	15:25:21.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2831.06 +/- 1	4R3	4	0	3,686,131:37:1	
436	**96**	**311**	**15:31:04.333**	**C3INTHRMAL02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
437	96	311	15:48:10.266	165GM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,686,153:89:0	
438	96	311	15:48:10.933	165GM4B	7SCAN	NORM,263.290997,	Check S/P Position	4R3	4	0	3,686,153:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	96	311	15:52:04.933	117GM	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,686,157:77:0	
440	96	311	15:52:14.266	176GQ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	3,686,158:00:0	
441	96	311	15:52:14.266	117GM105A106A4A	7STRP	0.0,-0.003,0,0,0	Slew =,0.51	4R3	4	0	3,686,158:00:0	
442	**96**	**311**	**15:52:18.266**	**20ED6C**	**6CKSUM**	**NIMS**	**NIMS,1000,14B3**	**4R3**	**4**	**0**	**3,686,158:06:0**	
443	**96**	**311**	**15:52:18.333**	**C3NIMSP2LD02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
444	96	311	15:52:36.933	117GM11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,686,158:34:0	
445	96	311	15:52:47.600	176GQ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,686,158:50:0	
446	96	311	15:52:49.600		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 2831.06 +/- 1	4R3	4	0	3,686,158:53:0	
447	96	311	15:52:49.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,686,158:53:0	
448	96	311	15:52:59.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2833.18 +/- 1	4R3	4	0	3,686,158:68:0	
449	96	311	15:53:06.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2834.90 +/- 1	4R3	4	0	3,686,158:79:0	
450	96	311	15:53:06.933	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,686,158:79:0	
451	96	311	15:53:08.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2834.96 +/- 1	4R3	4	0	3,686,158:81:1	
452	**96**	**311**	**15:53:18.933**	**20ED5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**3,686,159:06:0**	
453	**96**	**311**	**15:54:19.600**	**20ED5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**3,686,160:06:0**	
454	**96**	**311**	**15:55:20.266**	**20ED6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**3,686,161:06:0**	
455	**96**	**311**	**15:56:20.933**	**20ED6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**3,686,162:06:0**	
456	**96**	**311**	**15:57:21.600**	**20ED5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,686,163:06:0**	
457	**96**	**311**	**15:58:22.266**	**20ED5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,686,164:06:0**	
458	96	311	15:59:02.266	175KG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	260	4	0	3,686,164:66:0	
459	96	311	15:59:02.266		DMS:	: *US-RUNUP	R28, TRACK 1, FWD, TIC 2834.96 +/- 1	260	4	0	3,686,164:66:0	
460	96	311	15:59:14.266	175KG176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	260	4	0	3,686,164:84:0	
461	96	311	15:59:14.333		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *2837.85 +/- 1	260	4	0	3,686,164:84:1	
462	96	311	15:59:18.933	411JD6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	260	4	0	3,686,165:00:0	
463	96	311	15:59:18.933		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *2841.89 +/- 1	260	4	0	3,686,165:00:0	
464	96	311	15:59:20.333		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *2842.11 +/- 1	260	4	0	3,686,165:02:1	
465	96	311	15:59:21.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2842.23 +/- 1	260	4	0	3,686,165:04:3	
466	96	311	15:59:22.266	411JD6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	260	4	0	3,686,165:05:0	
467	**96**	**311**	**15:59:22.933**	**20ED4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,686,165:06:0**	
468	96	311	16:00:18.266	165EA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,686,165:89:0	
469	96	311	16:00:18.933	165EA4B	7SCAN	NORM,339.484997,	Check S/P Position	2R0	4	0	3,686,165:90:0	
470	**96**	**311**	**16:00:23.600**	**20ED4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,686,166:06:0**	
471	**96**	**311**	**16:00:23.666**	**C3INCHEMIS04-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
472	96	311	16:01:23.600	411JD6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,167:05:0	
473	96	311	16:01:24.266	411JD6D	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,167:06:0	
474	96	311	16:01:24.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2870.93 +/- 1	2R3	4	0	3,686,167:06:0	
475	96	311	16:01:25.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2870.99 +/- 1	2R3	4	0	3,686,167:08:1	
476	96	311	16:02:16.266	125EA11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,686,167:84:0	
477	96	311	16:02:16.266	125EA	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,686,167:84:0	
478	**96**	**311**	**16:02:16.266**	**125EA4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,686,167:84:0**	
479	96	311	16:03:16.933	127EA	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,686,168:84:0	
480	**96**	**311**	**16:03:17.600**	**127EA4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,686,168:85:0**	
481	96	311	16:03:25.600	127EA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,686,169:06:0	
482	96	311	16:04:06.933		DMS:	: *US-RUNUP	R28, TRACK 1, FWD, TIC 2870.99 +/- 1	2R3	4	0	3,686,169:68:0	
483	96	311	16:04:06.933	175EA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,686,169:68:0	
484	96	311	16:04:12.933	117EA	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,169:77:0	
485	96	311	16:04:18.933	175EA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,686,169:86:0	
486	96	311	16:04:19.000		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *2873.89 +/- 1	2R3	4	0	3,686,169:86:1	
487	96	311	16:04:22.266	117EA105A106A4A	7STRP	0.0075,0.0,0,0,0	Slew =,0.03	2R3	4	0	3,686,170:00:0	
488	**96**	**311**	**16:07:28.333**	**C3NIMSP2LD02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
489	96	311	16:08:38.266	117EA105A106A4B	7STRP	-0.011,0.007,0,0	Slew =12.01	2R3	4	0	3,686,174:20:0	
490	96	311	16:08:47.600	117EA105A106A4C	7STRP	0.0075,0.0,0,0,0	Slew =,0.03	2R3	4	0	3,686,174:34:0	
491	96	311	16:13:03.600	117EA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,178:54:0	
492	96	311	16:13:24.933	175EA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,178:86:0	
493	96	311	16:13:24.933		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3353.71 +/- 1	2R3	4	0	3,686,178:86:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	96	311	16:13:26.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3353.93 +/- 1	2R3	4	0	3,686,178:88:1	
495	**96**	**311**	**16:17:42.333**	**C3INCHEMIS04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
496	96	311	16:30:38.266	165JN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,195:89:0	
497	96	311	16:30:38.933	165JN4B	7SCAN	NORM,340.738998,	Check S/P Position	2R3	4	0	3,686,195:90:0	
498	96	311	16:34:30.933	175JN422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,686,199:74:0	
499	96	311	16:34:30.933		DMS:	: *US-RUNUP	R806, TRACK 1, FWD, TIC 3353.93 +/- 1	2R3	4	0	3,686,199:74:0	
500	96	311	16:34:43.600	175JN176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,686,200:02:0	
501	96	311	16:34:44.200		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *3419.34 +/- 1	2R3	4	0	3,686,200:02:9	
502	96	311	16:34:50.933	175JN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,200:13:0	
503	96	311	16:34:50.933		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *3585.04 +/- 1	2R3	4	0	3,686,200:13:0	
504	96	311	16:34:54.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3596.04 +/- 1	2R3	4	0	3,686,200:17:7	
505	96	311	17:29:25.600	165GH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,254:11:0	
506	96	311	17:29:26.266	165GH4B	7SCAN	NORM,289.355,-21	Check S/P Position	2R3	4	0	3,686,254:12:0	
507	96	311	17:33:20.266	117GH	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,257:90:0	
508	96	311	17:33:28.266	165GH4C	7VECT		Inert vect update UTC	2R3	4	0	3,686,258:11:0	
509	96	311	17:33:28.933	165GH4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,686,258:12:0	
510	96	311	17:33:29.600	117GH105A106A4A	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,258:13:0	
511	96	311	17:33:29.600	176GR6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,686,258:13:0	
512	96	311	17:34:04.933	117GH105A106A4B	7STRP	-0.080674,0.0009	Slew =,15.0	2R3	4	0	3,686,258:66:0	
513	96	311	17:34:14.266	117GH105A106A4C	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,258:80:0	
514	96	311	17:34:49.600	117GH105A106A4D	7STRP	-0.080674,0.0009	Slew =,15.0	2R3	4	0	3,686,259:42:0	
515	96	311	17:34:58.933	117GH105A106A4E	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,259:56:0	
516	96	311	17:35:34.266	117GH105A106A4F	7STRP	-0.080674,0.0009	Slew =,15.0	2R3	4	0	3,686,260:18:0	
517	96	311	17:35:43.600	117GH105A106A4G	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,260:32:0	
518	96	311	17:36:18.933	117GH105A106A4H	7STRP	-0.080674,0.0009	Slew =,15.0	2R3	4	0	3,686,260:85:0	
519	96	311	17:36:28.266	117GH105A106A4I	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,261:08:0	
520	96	311	17:37:03.600	117GH105A106A4J	7STRP	-0.080674,0.0009	Slew =,15.0	2R3	4	0	3,686,261:61:0	
521	96	311	17:37:12.933	117GH105A106A4K	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,261:75:0	
522	96	311	17:37:48.266	117GH105A106A4L	7STRP	-0.080674,0.0009	Slew =,15.0	2R3	4	0	3,686,262:37:0	
523	96	311	17:37:57.600	117GH105A106A4M	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,262:51:0	
524	96	311	17:38:32.933	117GH105A106A4N	7STRP	-0.080674,0.0009	Slew =,15.0	2R3	4	0	3,686,263:13:0	
525	96	311	17:38:42.266	117GH105A106A4O	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,263:27:0	
526	96	311	17:39:17.600	117GH105A106A4P	7STRP	-0.080674,0.0009	Slew =,15.0	2R3	4	0	3,686,263:80:0	
527	96	311	17:39:26.933	117GH105A106A4Q	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,264:03:0	
528	96	311	17:40:02.266	117GH105A106B4A	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,264:56:0	
529	96	311	17:40:11.600	117GH105A106B4B	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,264:70:0	
530	96	311	17:40:46.266	117GH105A106B4C	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,265:31:0	
531	96	311	17:40:55.600	117GH105A106B4D	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,265:45:0	
532	96	311	17:41:30.266	117GH105A106B4E	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,266:06:0	
533	96	311	17:41:39.600	117GH105A106B4F	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,266:20:0	
534	96	311	17:42:14.266	117GH105A106B4G	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,266:72:0	
535	96	311	17:42:23.600	117GH105A106B4H	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,266:86:0	
536	96	311	17:42:58.266	117GH105A106B4I	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,267:47:0	
537	96	311	17:43:07.600	117GH105A106B4J	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,267:61:0	
538	96	311	17:43:42.266	117GH105A106B4K	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,268:22:0	
539	96	311	17:43:51.600	117GH105A106B4L	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,268:36:0	
540	96	311	17:44:26.266	117GH105A106B4M	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,268:88:0	
541	96	311	17:44:35.600	117GH105A106B4N	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,269:11:0	
542	96	311	17:45:10.266	117GH105A106B4O	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,269:63:0	
543	96	311	17:45:19.600	117GH105A106B4P	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,269:77:0	
544	96	311	17:45:54.266	117GH105A106B4Q	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,270:38:0	
545	96	311	17:46:03.600	117GH105A106B4R	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,270:52:0	
546	96	311	17:46:04.933		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 3596.04 +/- 1	2R3	4	0	3,686,270:54:0	
547	96	311	17:46:04.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,270:54:0	
548	96	311	17:46:29.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3601.60 +/- 1	2R3	4	0	3,686,271:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	96	311	17:46:38.266	117GH105A106B4S	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,271:13:0	
550	96	311	17:46:47.600	117GH105A106B4T	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,271:27:0	
551	96	311	17:46:49.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,271:30:0	
552	96	311	17:46:49.600		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3606.28 +/- 1	2R3	4	0	3,686,271:30:0	
553	96	311	17:46:51.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3606.34 +/- 1	2R3	4	0	3,686,271:32:1	
554	96	311	17:47:22.266	117GH105A106B4U	7STRP	-0.079366,0.0006	Slew =,15.0	2R3	4	0	3,686,271:79:0	
555	96	311	17:47:31.600	117GH105A106B4V	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,272:02:0	
556	96	311	17:48:06.266	117GH105A106C4A	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,272:54:0	
557	96	311	17:48:14.933	117GH105A106C4B	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,272:67:0	
558	96	311	17:48:49.600	117GH105A106C4C	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,273:28:0	
559	96	311	17:48:58.266	117GH105A106C4D	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,273:41:0	
560	96	311	17:49:32.933	117GH105A106C4E	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,274:02:0	
561	96	311	17:49:41.600	117GH105A106C4F	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,274:15:0	
562	96	311	17:50:16.266	117GH105A106C4G	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,274:67:0	
563	96	311	17:50:24.933	117GH105A106C4H	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,274:80:0	
564	96	311	17:50:59.600	117GH105A106C4I	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,275:41:0	
565	96	311	17:51:08.266	117GH105A106C4J	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,275:54:0	
566	96	311	17:51:42.933	117GH105A106C4K	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,276:15:0	
567	96	311	17:51:51.600	117GH105A106C4L	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,276:28:0	
568	96	311	17:52:26.266	117GH105A106C4M	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,276:80:0	
569	96	311	17:52:34.933	117GH105A106C4N	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,277:02:0	
570	96	311	17:53:00.266	488AT6A	6TMSED	NORM,CL1	Sci, Eng, and D/L Chan	2R3	4	0	3,686,277:40:0	
571	96	311	17:53:09.600	117GH105A106C4O	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,277:54:0	
572	96	311	17:53:18.266	117GH105A106C4P	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,277:67:0	
573	96	311	17:53:52.933	117GH105A106C4Q	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,278:28:0	
574	96	311	17:54:01.600	117GH105A106C4R	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,278:41:0	
575	96	311	17:54:36.266	117GH105A106C4S	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,279:02:0	
576	96	311	17:54:44.933	117GH105A106C4T	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,279:15:0	
577	96	311	17:55:19.600	117GH105A106C4U	7STRP	-0.078581,0.0006	Slew =,15.0	2R3	4	0	3,686,279:67:0	
578	96	311	17:55:28.266	117GH105A106C4V	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,279:80:0	
579	96	311	17:56:02.933	117GH105A106D4A	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,280:41:0	
580	96	311	17:56:12.266	117GH105A106D4B	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,280:55:0	
581	96	311	17:56:46.933	117GH105A106D4C	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,281:16:0	
582	96	311	17:56:52.933	488AT6B	6TMSED	FILL,CL1	Sci, Eng, and D/L Chan	2R3	4	0	3,686,281:25:0	
583	96	311	17:56:56.266	117GH105A106D4D	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,281:30:0	
584	96	311	17:57:30.933	117GH105A106D4E	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,281:82:0	
585	96	311	17:57:40.266	117GH105A106D4F	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,282:05:0	
586	96	311	17:58:14.933	117GH105A106D4G	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,282:57:0	
587	96	311	17:58:24.266	117GH105A106D4H	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,282:71:0	
588	96	311	17:58:58.933	117GH105A106D4I	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,283:32:0	
589	96	311	17:59:06.933		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 3606.34 +/- 1	2R3	4	0	3,686,283:44:0	
590	96	311	17:59:06.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,283:44:0	
591	96	311	17:59:08.266	117GH105A106D4J	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,283:46:0	
592	96	311	17:59:31.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3611.90 +/- 1	2R3	4	0	3,686,283:81:0	
593	96	311	17:59:42.933	117GH105A106D4K	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,284:07:0	
594	96	311	17:59:51.600		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3616.58 +/- 1	2R3	4	0	3,686,284:20:0	
595	96	311	17:59:51.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,284:20:0	
596	96	311	17:59:52.266	117GH105A106D4L	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,284:21:0	
597	96	311	17:59:53.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3616.64 +/- 1	2R3	4	0	3,686,284:22:1	
598	96	311	18:00:26.933	117GH105A106D4M	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,284:73:0	
599	96	311	18:00:36.266	117GH105A106D4N	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,284:87:0	
600	96	311	18:01:10.933	117GH105A106D4O	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,285:48:0	
601	96	311	18:01:20.266	117GH105A106D4P	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,285:62:0	
602	96	311	18:01:54.933	117GH105A106D4Q	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,286:23:0	
603	96	311	18:02:04.266	117GH105A106D4R	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,286:37:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	96	311	18:02:38.933	117GH105A106D4S	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,286	89:0
605	96	311	18:02:48.266	117GH105A106D4T	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,287	12:0
606	96	311	18:03:22.933	117GH105A106D4U	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,287	64:0
607	96	311	18:03:32.266	117GH105A106D4V	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,287	78:0
608	96	311	18:04:06.933	117GH105A106D4W	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,288	39:0
609	96	311	18:04:16.266	117GH105A106D4X	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,288	53:0
610	96	311	18:04:50.933	117GH105A106D4Y	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,289	14:0
611	96	311	18:05:00.266	117GH105A106D4Z	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,289	28:0
612	96	311	18:05:34.933	117GH105A106D4AA	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,289	80:0
613	96	311	18:05:44.266	117GH105A106D4AB	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,290	03:0
614	96	311	18:06:18.933	117GH105A106D4AC	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,290	55:0
615	96	311	18:06:28.266	117GH105A106D4AD	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,290	69:0
616	96	311	18:07:02.933	117GH105A106D4AE	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,291	30:0
617	96	311	18:07:12.266	117GH105A106D4AF	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,291	44:0
618	96	311	18:07:46.933	117GH105A106D4AG	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,292	05:0
619	96	311	18:07:56.266	117GH105A106D4AH	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,292	19:0
620	96	311	18:08:30.933	117GH105A106D4AI	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,292	71:0
621	96	311	18:08:40.266	117GH105A106D4AJ	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,292	85:0
622	96	311	18:09:14.933	117GH105A106D4AK	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,293	46:0
623	96	311	18:09:24.266	117GH105A106D4AL	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,293	60:0
624	96	311	18:09:58.933	117GH105A106D4AM	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,294	21:0
625	96	311	18:10:08.266	117GH105A106D4AN	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,294	35:0
626	96	311	18:10:42.933	117GH105A106D4AO	7STRP	-0.077957,0.0004	Slew =,15.0	2R3	4	0	3,686,294	87:0
627	96	311	18:10:52.266	117GH105A106D4AP	7STRP	0.078159,0.0,0,0	Slew =0,2.5	2R3	4	0	3,686,295	10:0
628	96	311	18:11:26.933	117GH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,295	62:0
629	96	311	18:11:44.266	176GR6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,295	88:0
630	96	311	18:11:44.933	165GQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,295	89:0
631	96	311	18:11:45.600	165GQ4B	7SCAN	NORM,308.127998,	Check S/P Position	2R3	4	0	3,686,295	90:0
632	96	311	18:11:46.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,296	00:0
633	96	311	18:11:46.266		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 3616.64 +/- 1	2R3	4	0	3,686,296	00:0
634	96	311	18:11:56.266		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3618.76 +/- 1	2R3	4	0	3,686,296	15:0
635	96	311	18:12:14.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3623.13 +/- 1	2R3	4	0	3,686,296	43:0
636	96	311	18:12:14.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,296	43:0
637	96	311	18:12:16.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3623.19 +/- 1	2R3	4	0	3,686,296	45:1
638	96	311	18:13:38.266	117GQ	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,297	77:0
639	96	311	18:13:47.600	176GS6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,686,298	00:0
640	96	311	18:13:47.600	117GQ105A106A4A	7STRP	-0.04954,0.001,0	Slew =,0.21	2R3	4	0	3,686,298	00:0
641	96	311	18:17:46.266	117GQ105A106A4B	7STRP	0.0097,0.0012,0,	Slew =12.01	2R3	4	0	3,686,301	85:0
642	96	311	18:17:54.266	117GQ105A106A4C	7STRP	-0.04954,0.001,0	Slew =,0.21	2R3	4	0	3,686,302	06:0
643	96	311	18:21:52.933	117GQ105A106A4D	7STRP	0.0097,0.0012,0,	Slew =12.01	2R3	4	0	3,686,306	00:0
644	96	311	18:22:00.933	117GQ105A106A4E	7STRP	-0.04954,0.001,0	Slew =,0.21	2R3	4	0	3,686,306	12:0
645	96	311	18:25:59.600	176GS6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,310	06:0
646	96	311	18:25:59.600	117GQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,310	06:0
647	96	311	18:26:01.600		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 3623.19 +/- 1	2R3	4	0	3,686,310	09:0
648	96	311	18:26:01.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,310	09:0
649	96	311	18:26:11.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3625.31 +/- 1	2R3	4	0	3,686,310	24:0
650	96	311	18:26:30.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,310	52:0
651	96	311	18:26:30.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3629.68 +/- 1	2R3	4	0	3,686,310	52:0
652	96	311	18:26:31.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3629.74 +/- 1	2R3	4	0	3,686,310	54:1
653	96	311	18:26:54.933	165EB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,310	89:0
654	96	311	18:26:55.600	165EB4B	7SCAN	NORM,317.829998,	Check S/P Position	2R3	4	0	3,686,310	90:0
655	96	311	18:28:52.933	125EB11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,686,312	84:0
656	**96**	**311**	**18:28:52.933**	**125EB4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,686,312**	**84:0**
657	96	311	18:28:52.933	125EB	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,686,312	84:0
658	96	311	18:29:53.600	127EB	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,686,313	84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	**96**	**311**	**18:29:54.266**	**127EB4A**	**37ETB**	**07,C7,02,0C,00,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,686,313:85:0**	
660	96	311	18:30:02.266	127EB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,686,314:06:0	
661	96	311	18:30:49.600	117EB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,314:77:0	
662	96	311	18:30:57.600	165EB4C	7VECT		Inert vect update UTC	2R3	4	0	3,686,314:89:0	
663	96	311	18:30:58.266	165EB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	2R3	4	0	3,686,314:90:0	
664	96	311	18:30:58.933	117EB105A106A4A	7STRP	0.024205,0.0,0,0	Slew =,0.03	2R3	4	0	3,686,315:00:0	
665	96	311	18:31:40.266	175KK422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	3,686,315:62:0	
666	96	311	18:31:40.266		DMS:	: *US-RUNUP	R28, TRACK 1, FWD, TIC 3629.74 +/- 1	2R3	4	0	3,686,315:62:0	
667	96	311	18:31:52.266	175KK176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	3,686,315:80:0	
668	96	311	18:31:52.333		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *3632.64 +/- 1	2R3	4	0	3,686,315:80:1	
669	96	311	18:31:53.600	175EB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,315:82:0	
670	96	311	18:31:53.600		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3633.75 +/- 1	2R3	4	0	3,686,315:82:0	
671	96	311	18:31:55.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *3633.97 +/- 1	2R3	4	0	3,686,315:84:1	
672	96	311	18:31:56.266	175EB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,686,315:86:0	
673	96	311	18:31:56.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3634.09 +/- 1	2R3	4	0	3,686,315:86:3	
674	96	311	18:39:56.266	488AT6C	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	2R3	4	0	3,686,323:78:0	
675	96	311	18:44:38.266	117EB105A106A4B	7STRP	-0.030009,0.007,	Slew =12.01	2R3	4	0	3,686,328:46:0	
676	96	311	18:44:45.600	117EB105A106A4C	7STRP	0.024205,0.0,0,0	Slew =,0.03	2R3	4	0	3,686,328:57:0	
677	**96**	**311**	**18:44:45.614**	**C3ENLINEA 01-**	**NIMPBK**	**301EB**	**EUROPA LINEA REGION**	**2R3**	**4**	**0**	**: :**	
678	96	311	18:45:00.266	488AT6D	6TMSED	FILL,BL2	Sci, Eng, and D/L Chan	2R3	4	0	3,686,328:79:0	
679	**96**	**311**	**18:48:40.281**	**C3ENLINEA 01-**	**NIMPBK**	**301EU**	**EUROPA LINEA REGION**	**2R3**	**4**	**0**	**: :**	
680	**96**	**311**	**18:48:40.281**	**C3ENLINEA 01-**	**DESELC**	**300EB**	**EUROPA LINEA REGION**	**2R3**	**4**	**0**	**: :**	
681	**96**	**311**	**18:53:18.281**	**C3ENLINEA 01-**	**DESELC**	**300EU**	**EUROPA LINEA REGION**	**2R3**	**4**	**0**	**: :**	
682	96	311	18:58:24.933	117EB105A106A4D	7STRP	-0.030009,0.007,	Slew =12.01	2R3	4	0	3,686,342:12:0	
683	96	311	18:58:32.266	117EB105A106A4E	7STRP	0.024205,0.0,0,0	Slew =,0.03	2R3	4	0	3,686,342:23:0	
684	96	311	19:12:11.600	117EB105A106A4F	7STRP	-0.030009,0.007,	Slew =12.01	2R3	4	0	3,686,355:69:0	
685	96	311	19:12:18.933	117EB105A106A4G	7STRP	0.024205,0.0,0,0	Slew =,0.03	2R3	4	0	3,686,355:80:0	
686	96	311	19:25:58.266	117EB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,369:35:0	
687	96	311	19:26:56.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4407.63 +/- 1	2R3	4	0	3,686,370:32:0	
688	96	311	19:26:56.933	175EB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,370:32:0	
689	96	311	19:26:56.933	175EB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,370:32:0	
690	96	311	19:26:58.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4407.69 +/- 1	2R3	4	0	3,686,370:34:1	
691	96	311	19:28:40.266	165GK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,372:05:0	
692	96	311	19:28:40.933	165GK4B	7SCAN	NORM,349.758999,	Check S/P Position	2R3	4	0	3,686,372:06:0	
693	96	311	19:29:32.933	117GK	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,372:84:0	
694	96	311	19:29:42.266	117GK105A106A4A	7STRP	0.014001,0.0,0,0	Slew =,0.26	2R3	4	0	3,686,373:07:0	
695	96	311	19:29:42.266	176GT6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,686,373:07:0	
696	96	311	19:30:39.600	117GK105A106A4B	7STRP	-0.023704,0.0018	Slew =12.01	2R3	4	0	3,686,374:02:0	
697	96	311	19:30:44.933	117GK105A106A4C	7STRP	0.014001,0.0,0,0	Slew =,0.26	2R3	4	0	3,686,374:10:0	
698	96	311	19:31:42.266	117GK105A106A4D	7STRP	-0.023704,0.0018	Slew =12.01	2R3	4	0	3,686,375:05:0	
699	96	311	19:31:47.600	117GK105A106A4E	7STRP	0.014001,0.0,0,0	Slew =,0.26	2R3	4	0	3,686,375:13:0	
700	96	311	19:32:44.933	117GK105A106A4F	7STRP	-0.023704,0.0018	Slew =12.01	2R3	4	0	3,686,376:08:0	
701	96	311	19:32:50.266	117GK105A106A4G	7STRP	0.014001,0.0,0,0	Slew =,0.26	2R3	4	0	3,686,376:16:0	
702	96	311	19:33:47.600	117GK105A106A4H	7STRP	-0.023704,0.0018	Slew =12.01	2R3	4	0	3,686,377:11:0	
703	96	311	19:33:52.933	117GK105A106A4I	7STRP	0.014001,0.0,0,0	Slew =,0.26	2R3	4	0	3,686,377:19:0	
704	96	311	19:34:50.266	117GK105A106A4J	7STRP	-0.023704,0.0018	Slew =12.01	2R3	4	0	3,686,378:14:0	
705	96	311	19:34:55.600	117GK105A106A4K	7STRP	0.014001,0.0,0,0	Slew =,0.26	2R3	4	0	3,686,378:22:0	
706	96	311	19:35:52.933	117GK105A106A4L	7STRP	-0.023704,0.0018	Slew =12.01	2R3	4	0	3,686,379:17:0	
707	96	311	19:35:58.266	117GK105A106A4M	7STRP	0.014001,0.0,0,0	Slew =,0.26	2R3	4	0	3,686,379:25:0	
708	96	311	19:36:55.600	117GK105A106A4N	7STRP	-0.023704,0.0018	Slew =12.01	2R3	4	0	3,686,380:20:0	
709	96	311	19:37:00.933	117GK105A106A4O	7STRP	0.014001,0.0,0,0	Slew =,0.26	2R3	4	0	3,686,380:28:0	
710	96	311	19:37:58.266	117GK105A106A4P	7STRP	-0.023704,0.0018	Slew =12.01	2R3	4	0	3,686,381:23:0	
711	96	311	19:38:03.600	117GK105A106A4Q	7STRP	0.014001,0.0,0,0	Slew =,0.26	2R3	4	0	3,686,381:31:0	
712	96	311	19:39:00.933	117GK105A106A4R	7STRP	-0.023704,0.0018	Slew =12.01	2R3	4	0	3,686,382:26:0	
713	96	311	19:39:06.266	117GK105A106A4S	7STRP	0.014001,0.0,0,0	Slew =,0.26	2R3	4	0	3,686,382:34:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	96	311	19:40:03.600	176GT6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,383	29:0
715	96	311	19:40:03.600	117GK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,383	29:0
716	96	311	19:40:05.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,383	32:0
717	96	311	19:40:05.600		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 4407.69 +/- 1	2R3	4	0	3,686,383	32:0
718	96	311	19:40:15.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4409.81 +/- 1	2R3	4	0	3,686,383	47:0
719	96	311	19:40:32.266	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,383	72:0
720	96	311	19:40:32.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4413.72 +/- 1	2R3	4	0	3,686,383	72:0
721	96	311	19:40:33.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4413.78 +/- 1	2R3	4	0	3,686,383	74:1
722	96	311	19:44:07.600	488AT6E	6TMSED	NORM,BL2	Sci, Eng, and D/L Chan	2R3	4	0	3,686,387	31:0
723	96	311	19:46:47.600	165JP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,389	89:0
724	96	311	19:46:48.266	165JP4B	7SCAN	NORM,357.828999,	Check S/P Position	2R3	4	0	3,686,389	90:0
725	96	311	19:50:40.266		DMS:	: *US-RUNUP	R806, TRACK 1, FWD, TIC 4413.78 +/- 1	2R3	4	0	3,686,393	74:0
726	96	311	19:50:40.266	175JP422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,686,393	74:0
727	96	311	19:50:43.600	118JP	**SMOS**	GS		2R3	4	0	3,686,393	79:0
728	96	311	19:50:52.933	175JP176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,686,394	02:0
729	96	311	19:50:53.533		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *4479.19 +/- 2	2R3	4	0	3,686,394	02:9
730	96	311	19:50:53.600	118JP110A111A4A	7STRP	0.006,0.0,26,0,0	Slew =,3.51	2R3	4	0	3,686,394	03:0
731	96	311	19:51:02.266	118JP110A111A4B	7STRP	-0.0045,0.017002	Slew =0,5.0	2R3	4	0	3,686,394	16:0
732	96	311	19:51:10.933	118JP110A111A4C	7STRP	0.006,0.0,26,0,0	Slew =,3.51	2R3	4	0	3,686,394	29:0
733	96	311	19:51:17.600		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *5071.45 +/- 2	2R3	4	0	3,686,394	39:0
734	96	311	19:51:17.600	175JP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,394	39:0
735	96	311	19:51:19.600	118JP11A	**SMOS**	GE		2R3	4	0	3,686,394	42:0
736	96	311	19:51:20.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5082.45 +/- 2	2R3	4	0	3,686,394	43:7
737	96	311	19:51:50.933	165JQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,394	89:0
738	96	311	19:51:51.600	165JQ4B	7SCAN	NORM,358.094997,	Check S/P Position	2R3	4	0	3,686,394	90:0
739	96	311	19:52:40.266	175JQ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,686,395	72:0
740	96	311	19:52:40.266		DMS:	: *US-RUNUP	R806, TRACK 1, FWD, TIC 5082.45 +/- 2	2R3	4	0	3,686,395	72:0
741	96	311	19:52:52.933	175JQ176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	3,686,396	00:0
742	96	311	19:52:53.533		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *5147.86 +/- 2	2R3	4	0	3,686,396	00:9
743	96	311	19:52:55.600	175JQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,396	04:0
744	96	311	19:52:55.600		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *5198.72 +/- 2	2R3	4	0	3,686,396	04:0
745	96	311	19:52:58.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5209.72 +/- 2	2R3	4	0	3,686,396	08:7
746	96	311	19:59:54.266	488AU6A	6TMSED	FILL,BL2	Sci, Eng, and D/L Chan	2R3	4	0	3,686,402	86:0
747	96	311	20:06:00.266	165JR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,408	89:0
748	96	311	20:06:00.933	165JR4B	7SCAN	NORM,353.219997,	Check S/P Position	2R3	4	0	3,686,408	90:0
749	96	311	20:09:52.933		DMS:	: *US-RUNUP	R806, TRACK 1, FWD, TIC 5209.72 +/- 2	2R3	4	0	3,686,412	74:0
750	96	311	20:09:52.933	175JR422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	3,686,412	74:0
751	96	311	20:10:05.600	175JR176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	3,686,413	02:0
752	96	311	20:10:06.200		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *5275.13 +/- 2	2R3	4	0	3,686,413	02:9
753	96	311	20:10:12.933		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *5440.83 +/- 2	2R3	4	0	3,686,413	13:0
754	96	311	20:10:12.933	175JR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,413	13:0
755	96	311	20:10:16.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5451.83 +/- 3	2R3	4	0	3,686,413	17:7
756	96	311	20:19:08.933	165GS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,421	89:0
757	96	311	20:19:09.600	165GS4B	7SCAN	NORM,8.848,4.877	Check S/P Position	2R3	4	0	3,686,421	90:0
758	96	311	20:19:14.266	117GS	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,422	06:0
759	96	311	20:20:02.266	117GS105A106A4A	7STRP	-0.012601,0.0,0,	Slew =,0.14	2R3	4	0	3,686,422	78:0
760	96	311	20:20:02.266	176GU6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,686,422	78:0
761	96	311	20:21:34.266	117GS105A106A4B	7STRP	0.0042,0.00125,0	Slew =,4.01	2R3	4	0	3,686,424	34:0
762	96	311	20:21:39.600	117GS105A106A4C	7STRP	-0.012601,0.0,0,	Slew =,0.14	2R3	4	0	3,686,424	42:0
763	96	311	20:23:11.600	117GS105A106A4D	7STRP	0.0042,0.00125,0	Slew =,4.01	2R3	4	0	3,686,425	89:0
764	96	311	20:23:16.933	117GS105A106A4E	7STRP	-0.012601,0.0,0,	Slew =,0.14	2R3	4	0	3,686,426	06:0
765	96	311	20:24:48.933	117GS105A106A4F	7STRP	0.0042,0.00125,0	Slew =,4.01	2R3	4	0	3,686,427	53:0
766	96	311	20:24:54.266	117GS105A106A4G	7STRP	-0.012601,0.0,0,	Slew =,0.14	2R3	4	0	3,686,427	61:0
767	96	311	20:26:26.266	117GS105A106A4H	7STRP	0.0042,0.00125,0	Slew =,4.01	2R3	4	0	3,686,429	17:0
768	96	311	20:26:31.600	117GS105A106A4I	7STRP	-0.012601,0.0,0,	Slew =,0.14	2R3	4	0	3,686,429	25:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	96	311	20:28:03.600	117GS105A106A4J	7STRP	0.0042,0.00125,0	Slew =,4.01	2R3	4	0	3,686,430	72:0
770	96	311	20:28:08.933	117GS105A106A4K	7STRP	-0.012601,0.0,0,	Slew =,0.14	2R3	4	0	3,686,430	80:0
771	96	311	20:29:40.933	117GS105A106A4L	7STRP	0.0042,0.00125,0	Slew =,4.01	2R3	4	0	3,686,432	36:0
772	96	311	20:29:46.266	117GS105A106A4M	7STRP	-0.012601,0.0,0,	Slew =,0.14	2R3	4	0	3,686,432	44:0
773	96	311	20:31:18.266	117GS11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,434	00:0
774	96	311	20:31:18.266	176GU6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,434	00:0
775	96	311	20:31:20.266		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 5451.83 +/- 3	2R3	4	0	3,686,434	03:0
776	96	311	20:31:20.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,434	03:0
777	96	311	20:31:30.266		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5453.95 +/- 3	2R3	4	0	3,686,434	18:0
778	96	311	20:31:48.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5458.17 +/- 3	2R3	4	0	3,686,434	45:0
779	96	311	20:31:48.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,434	45:0
780	96	311	20:31:49.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5458.23 +/- 3	2R3	4	0	3,686,434	47:1
781	96	311	20:35:19.600	165GI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,437	89:0
782	96	311	20:35:20.266	165GI4B	7SCAN	NORM,11.375,7.78	Check S/P Position	2R3	4	0	3,686,437	90:0
783	96	311	20:36:12.266	117GI	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,438	77:0
784	96	311	20:36:21.600	117GI105A106A4A	7STRP	0.020503,0.0,0,0	Slew =,0.35	2R3	4	0	3,686,439	00:0
785	96	311	20:36:21.600	176GV6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,686,439	00:0
786	96	311	20:37:23.600	117GI105A106A4B	7STRP	-0.025405,0.0016	Slew =0,9.0	2R3	4	0	3,686,440	02:0
787	96	311	20:37:30.266	117GI105A106A4C	7STRP	0.020503,0.0,0,0	Slew =,0.35	2R3	4	0	3,686,440	12:0
788	96	311	20:38:32.266	117GI105A106A4D	7STRP	-0.025405,0.0016	Slew =0,9.0	2R3	4	0	3,686,441	14:0
789	96	311	20:38:38.933	117GI105A106A4E	7STRP	0.020503,0.0,0,0	Slew =,0.35	2R3	4	0	3,686,441	24:0
790	96	311	20:39:40.933	117GI105A106A4F	7STRP	-0.025405,0.0016	Slew =0,9.0	2R3	4	0	3,686,442	26:0
791	96	311	20:39:47.600	117GI105A106A4G	7STRP	0.020503,0.0,0,0	Slew =,0.35	2R3	4	0	3,686,442	36:0
792	96	311	20:40:49.600	117GI105A106A4H	7STRP	-0.025405,0.0016	Slew =0,9.0	2R3	4	0	3,686,443	38:0
793	96	311	20:40:56.266	117GI105A106A4I	7STRP	0.020503,0.0,0,0	Slew =,0.35	2R3	4	0	3,686,443	48:0
794	96	311	20:41:58.266	117GI105A106A4J	7STRP	-0.025405,0.0016	Slew =0,9.0	2R3	4	0	3,686,444	50:0
795	96	311	20:42:04.933	117GI105A106A4K	7STRP	0.020503,0.0,0,0	Slew =,0.35	2R3	4	0	3,686,444	60:0
796	96	311	20:43:06.933	117GI105A106A4L	7STRP	-0.025405,0.0016	Slew =0,9.0	2R3	4	0	3,686,445	62:0
797	96	311	20:43:13.600	117GI105A106A4M	7STRP	0.020503,0.0,0,0	Slew =,0.35	2R3	4	0	3,686,445	72:0
798	96	311	20:44:15.600	117GI105A106A4N	7STRP	-0.025405,0.0016	Slew =0,9.0	2R3	4	0	3,686,446	74:0
799	96	311	20:44:22.266	117GI105A106A4O	7STRP	0.020503,0.0,0,0	Slew =,0.35	2R3	4	0	3,686,446	84:0
800	96	311	20:45:24.266	117GI105A106A4P	7STRP	-0.025405,0.0016	Slew =0,9.0	2R3	4	0	3,686,447	86:0
801	96	311	20:45:30.933	117GI105A106A4Q	7STRP	0.020503,0.0,0,0	Slew =,0.35	2R3	4	0	3,686,448	05:0
802	96	311	20:46:32.933	117GI105A106A4R	7STRP	-0.025405,0.0016	Slew =0,9.0	2R3	4	0	3,686,449	07:0
803	96	311	20:46:39.600	117GI105A106A4S	7STRP	0.020503,0.0,0,0	Slew =,0.35	2R3	4	0	3,686,449	17:0
804	96	311	20:47:41.600	176GV6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,450	19:0
805	96	311	20:47:41.600	117GI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,450	19:0
806	96	311	20:47:43.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,450	22:0
807	96	311	20:47:43.600		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 5458.23 +/- 3	2R3	4	0	3,686,450	22:0
808	96	311	20:47:53.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5460.34 +/- 3	2R3	4	0	3,686,450	37:0
809	96	311	20:48:11.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,450	64:0
810	96	311	20:48:11.600		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5464.56 +/- 3	2R3	4	0	3,686,450	64:0
811	96	311	20:48:13.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5464.62 +/- 3	2R3	4	0	3,686,450	66:1
812	96	311	20:48:24.933	125EC	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,686,450	84:0
813	96	311	20:48:24.933	125EC11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,686,450	84:0
814	**96**	**311**	**20:48:24.933**	**125EC4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**3,686,450**	**84:0**
815	**96**	**311**	**20:49:25.600**	**127EC4A**	**37IOP**	**1,0**	**Full Map, Grating Start Position =00**	**3R1**	**4**	**0**	**3,686,451**	**84:0**
816	96	311	20:49:25.600	127EC	NIMSTAB	GS	%%%%% GROUP START TAB	3R1	4	0	3,686,451	84:0
817	**96**	**311**	**20:49:26.266**	**127EC4B**	**37ETB**		**Loads wavelength edit table**	**3R1**	**4**	**0**	**3,686,451**	**85:0**
818	96	311	20:49:28.933	165EC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,686,451	89:0
819	96	311	20:49:29.600	165EC4B	7SCAN	NORM,16.57,7.897	Check S/P Position	3R1	4	0	3,686,451	90:0
820	96	311	20:49:34.266	127EC11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R1	4	0	3,686,452	06:0
821	96	311	20:50:11.600	175KL422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R1	4	0	3,686,452	62:0
822	96	311	20:50:11.600		DMS:	: *US-RUNUP	R28, TRACK 1, FWD, TIC 5464.62 +/- 3	3R1	4	0	3,686,452	62:0
823	96	311	20:50:21.600	117EC	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,686,452	77:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	96	311	20:50:23.600	175KL176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R1	4	0	3,686,452	80:0
825	96	311	20:50:23.666		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *5467.51 +/- 3	3R1	4	0	3,686,452	80:1
826	96	311	20:50:24.933		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *5468.63 +/- 3	3R1	4	0	3,686,452	82:0
827	96	311	20:50:24.933	175EC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,686,452	82:0
828	96	311	20:50:26.333		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC *5468.85 +/- 3	3R1	4	0	3,686,452	84:1
829	96	311	20:50:27.600	175EC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R1	4	0	3,686,452	86:0
830	96	311	20:50:27.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5468.96 +/- 3	3R1	4	0	3,686,452	86:3
831	96	311	20:50:29.600	165EC4C	7VECT		Inert vect update UTC	3R1	4	0	3,686,452	89:0
832	96	311	20:50:30.266	165EC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R1	4	0	3,686,452	90:0
833	96	311	20:50:30.933	117EC105A106A4A	7STRP	0.025005,0.0,0,0	Slew =,0.06	3R1	4	0	3,686,453	00:0
834	**96**	**311**	**20:50:30.943**	**C3ENELIMB 01-**	**NIMPBK**	**301EC**	**EUROPA OCCULTATION**	**3R1**	**4**	**0**	**: :**	
835	**96**	**311**	**20:50:33.000**	**C3ENELIMB 01-**		**-----START------**		**3R1**	**4**	**0**	**: :**	
836	**96**	**311**	**20:56:54.943**	**C3ENELIMB 01-**	**DESELC**	**300EC**	**EUROPA OCCULTATION**	**3R1**	**4**	**0**	**: :**	
837	96	311	20:57:30.266	117EC105A106A4B	7STRP	-0.025005,0.009,	Slew =12.01	3R1	4	0	3,686,459	83:0
838	96	311	20:57:34.266	165EC4E	7VECT		Inert vect update UTC	3R1	4	0	3,686,459	89:0
839	96	311	20:57:40.933	117EC105A106A4C	7STRP	0.025005,0.0,0,0	Slew =,0.06	3R1	4	0	3,686,460	08:0
840	**96**	**311**	**21:00:58.943**	**C3ENELIMB 01-**	**NIMPBK**	**301FQ**	**EUROPA OCCULTATION**	**3R1**	**4**	**0**	**: :**	
841	**96**	**311**	**21:03:58.943**	**C3ENELIMB 01-**	**DESELC**	**300FQ**	**EUROPA OCCULTATION**	**3R1**	**4**	**0**	**: :**	
842	**96**	**311**	**21:04:33.333**	**C3ENELIMB 01-**		**-----STOP-------**		**3R1**	**4**	**0**	**: :**	
843	96	311	21:04:40.266	117EC11A	**CSMOS**	GE	***** GROUP END CSMOS	3R1	4	0	3,686,467	00:0
844	96	311	21:06:14.933	175EC422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,468	51:0
845	96	311	21:06:14.933	175EC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R1	4	0	3,686,468	51:0
846	96	311	21:06:14.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5690.95 +/- 3	3R1	4	0	3,686,468	51:0
847	96	311	21:06:16.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5691.01 +/- 3	3R1	4	0	3,686,468	53:1
848	96	311	21:09:42.266	165GN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,686,471	89:0
849	96	311	21:09:42.933	165GN4B	7SCAN	NORM,20.156,9.96	Check S/P Position	3R1	4	0	3,686,471	90:0
850	96	311	21:09:47.600	117GN	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,686,472	06:0
851	96	311	21:10:13.600	117GN105A106A4A	7STRP	0.0,-0.00425,0,0	Slew =,0.16	3R1	4	0	3,686,472	45:0
852	96	311	21:10:13.600	176GW6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R1	4	0	3,686,472	45:0
853	96	311	21:10:43.600	117GN11A	**CSMOS**	GE	***** GROUP END CSMOS	3R1	4	0	3,686,472	90:0
854	96	311	21:10:46.933	176GW6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R1	4	0	3,686,473	04:0
855	96	311	21:10:48.933		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 5691.01 +/- 3	3R1	4	0	3,686,473	07:0
856	96	311	21:10:48.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,686,473	07:0
857	96	311	21:10:58.933		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5693.12 +/- 3	3R1	4	0	3,686,473	22:0
858	96	311	21:11:06.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5694.84 +/- 3	3R1	4	0	3,686,473	33:0
859	96	311	21:11:06.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,473	33:0
860	96	311	21:11:07.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5694.90 +/- 3	3R1	4	0	3,686,473	35:1
861	96	311	21:11:43.600	165GJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,686,473	89:0
862	96	311	21:11:44.266	165GJ4B	7SCAN	NORM,19.333,10.1	Check S/P Position	3R1	4	0	3,686,473	90:0
863	96	311	21:12:36.266	117GJ	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,686,474	77:0
864	96	311	21:12:45.600	176GX6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R1	4	0	3,686,475	00:0
865	96	311	21:12:45.600	117GJ105A106A4A	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,475	00:0
866	96	311	21:13:54.933	117GJ105A106A4B	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,476	13:0
867	96	311	21:14:00.933	117GJ105A106A4C	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,476	22:0
868	96	311	21:15:10.266	117GJ105A106A4D	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,477	35:0
869	96	311	21:15:16.266	117GJ105A106A4E	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,477	44:0
870	96	311	21:16:25.600	117GJ105A106A4F	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,478	57:0
871	96	311	21:16:31.600	117GJ105A106A4G	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,478	66:0
872	96	311	21:17:40.933	117GJ105A106A4H	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,479	79:0
873	96	311	21:17:46.933	117GJ105A106A4I	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,479	88:0
874	96	311	21:18:56.266	117GJ105A106A4J	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,481	10:0
875	96	311	21:19:02.266	117GJ105A106A4K	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,481	19:0
876	96	311	21:20:11.600	117GJ105A106A4L	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,482	32:0
877	96	311	21:20:17.600	117GJ105A106A4M	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,482	41:0
878	96	311	21:21:26.933	117GJ105A106A4N	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,483	54:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	96	311	21:21:32.933	117GJ105A106A4O	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,483	63:0
880	96	311	21:22:11.600	488AU6B	6TMSED	NORM,BL2	Sci, Eng, and D/L Chan	3R1	4	0	3,686,484	30:0
881	96	311	21:22:42.266	117GJ105A106A4P	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,484	76:0
882	96	311	21:22:48.266	117GJ105A106A4Q	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,484	85:0
883	96	311	21:23:57.600	117GJ105A106A4R	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,486	07:0
884	96	311	21:24:03.600	117GJ105A106A4S	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,486	16:0
885	96	311	21:25:12.933	117GJ105A106A4T	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,487	29:0
886	96	311	21:25:18.933	117GJ105A106A4U	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,487	38:0
887	96	311	21:25:20.933		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 5694.90 +/- 3	3R1	4	0	3,686,487	41:0
888	96	311	21:25:20.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,686,487	41:0
889	96	311	21:25:45.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5700.45 +/- 3	3R1	4	0	3,686,487	78:0
890	96	311	21:26:05.600		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5705.14 +/- 3	3R1	4	0	3,686,488	17:0
891	96	311	21:26:05.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,488	17:0
892	96	311	21:26:07.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5705.20 +/- 3	3R1	4	0	3,686,488	19:1
893	96	311	21:26:28.266	117GJ105A106A4V	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,488	51:0
894	96	311	21:26:34.266	117GJ105A106A4W	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,488	60:0
895	96	311	21:27:43.600	117GJ105A106A4X	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,489	73:0
896	96	311	21:27:49.600	117GJ105A106A4Y	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,489	82:0
897	96	311	21:28:58.933	117GJ105A106A4Z	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,491	04:0
898	96	311	21:29:04.933	117GJ105A106A4AA	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,491	13:0
899	96	311	21:30:14.266	117GJ105A106A4AB	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,492	26:0
900	96	311	21:30:20.266	117GJ105A106A4AC	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,492	35:0
901	96	311	21:31:29.600	117GJ105A106A4AD	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,493	48:0
902	96	311	21:31:35.600	117GJ105A106A4AE	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,493	57:0
903	96	311	21:32:44.933	117GJ105A106A4AF	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,494	70:0
904	96	311	21:32:50.933	117GJ105A106A4AG	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,494	79:0
905	96	311	21:34:00.266	117GJ105A106A4AH	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,496	01:0
906	96	311	21:34:06.266	117GJ105A106A4AI	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,496	10:0
907	96	311	21:35:15.600	117GJ105A106A4AJ	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,497	23:0
908	96	311	21:35:21.600	117GJ105A106A4AK	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,497	32:0
909	96	311	21:36:30.933	117GJ105A106A4AL	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,498	45:0
910	96	311	21:36:36.933	117GJ105A106A4AM	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,498	54:0
911	96	311	21:37:46.266	117GJ105A106A4AN	7STRP	-0.028007,0.0017	Slew =12.01	3R1	4	0	3,686,499	67:0
912	96	311	21:37:52.266	117GJ105A106A4AO	7STRP	0.024305,0.0,0,0	Slew =,0.37	3R1	4	0	3,686,499	76:0
913	96	311	21:38:22.933		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 5705.20 +/- 3	3R1	4	0	3,686,500	31:0
914	96	311	21:38:22.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,686,500	31:0
915	96	311	21:38:47.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5710.75 +/- 3	3R1	4	0	3,686,500	68:0
916	96	311	21:39:01.600	117GJ11A	**CSMOS**	GE	***** GROUP END CSMOS	3R1	4	0	3,686,500	89:0
917	96	311	21:39:07.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,501	07:0
918	96	311	21:39:07.600		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5715.44 +/- 3	3R1	4	0	3,686,501	07:0
919	96	311	21:39:09.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5715.50 +/- 3	3R1	4	0	3,686,501	09:1
920	96	311	21:39:11.600	176GX6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R1	4	0	3,686,501	13:0
921	96	311	21:39:13.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,686,501	16:0
922	96	311	21:39:13.600		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 5715.50 +/- 3	3R1	4	0	3,686,501	16:0
923	96	311	21:39:23.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5717.62 +/- 3	3R1	4	0	3,686,501	31:0
924	96	311	21:39:30.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5719.34 +/- 3	3R1	4	0	3,686,501	42:0
925	96	311	21:39:30.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,501	42:0
926	96	311	21:39:32.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5719.40 +/- 3	3R1	4	0	3,686,501	44:1
927	96	311	21:46:06.266	165HL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,686,507	89:0
928	96	311	21:46:06.933	165HL4B	7SCAN	NORM,26.15,11.36	Check S/P Position	3R1	4	0	3,686,507	90:0
929	96	311	21:46:58.933	117HL	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,686,508	77:0
930	96	311	21:47:08.266	176GY6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R1	4	0	3,686,509	00:0
931	96	311	21:47:08.266	117HL105A106A4A	7STRP	-0.007,0.0,0,0,0	Slew =,0.16	3R1	4	0	3,686,509	00:0
932	96	311	21:47:54.266	117HL105A106A4B	7STRP	0.0067,-0.0012,0	Slew =,7.01	3R1	4	0	3,686,509	69:0
933	96	311	21:48:00.266	117HL105A106A4C	7STRP	-0.007,0.0,0,0,0	Slew =,0.16	3R1	4	0	3,686,509	78:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	96	311	21:48:46.266	117HL105A106A4D	7STRP	0.0067,-0.0012,0	Slew =,7.01	3R1	4	0	3,686,510	56:0
935	96	311	21:48:52.266	117HL105A106A4E	7STRP	-0.007,0.0,0,0,0	Slew =,0.16	3R1	4	0	3,686,510	65:0
936	96	311	21:49:38.266	117HL105A106A4F	7STRP	0.0067,-0.0012,0	Slew =,7.01	3R1	4	0	3,686,511	43:0
937	96	311	21:49:44.266	117HL105A106A4G	7STRP	-0.007,0.0,0,0,0	Slew =,0.16	3R1	4	0	3,686,511	52:0
938	96	311	21:50:30.266	117HL105A106A4H	7STRP	0.0067,-0.0012,0	Slew =,7.01	3R1	4	0	3,686,512	30:0
939	96	311	21:50:36.266	117HL105A106A4I	7STRP	-0.007,0.0,0,0,0	Slew =,0.16	3R1	4	0	3,686,512	39:0
940	96	311	21:51:22.266	117HL105A106A4J	7STRP	0.0067,-0.0012,0	Slew =,7.01	3R1	4	0	3,686,513	17:0
941	96	311	21:51:28.266	117HL105A106A4K	7STRP	-0.007,0.0,0,0,0	Slew =,0.16	3R1	4	0	3,686,513	26:0
942	96	311	21:52:14.266	117HL105A106A4L	7STRP	0.0067,-0.0012,0	Slew =,7.01	3R1	4	0	3,686,514	04:0
943	96	311	21:52:20.266	117HL105A106A4M	7STRP	-0.007,0.0,0,0,0	Slew =,0.16	3R1	4	0	3,686,514	13:0
944	96	311	21:53:06.266	117HL105A106A4N	7STRP	0.0067,-0.0012,0	Slew =,7.01	3R1	4	0	3,686,514	82:0
945	96	311	21:53:12.266	117HL105A106A4O	7STRP	-0.007,0.0,0,0,0	Slew =,0.16	3R1	4	0	3,686,515	00:0
946	96	311	21:53:58.266	117HL105A106A4P	7STRP	0.0067,-0.0012,0	Slew =,7.01	3R1	4	0	3,686,515	69:0
947	96	311	21:54:04.266	117HL105A106A4Q	7STRP	-0.007,0.0,0,0,0	Slew =,0.16	3R1	4	0	3,686,515	78:0
948	96	311	21:54:50.266	117HL105A106A4R	7STRP	0.0067,-0.0012,0	Slew =,7.01	3R1	4	0	3,686,516	56:0
949	96	311	21:54:56.266	117HL105A106A4S	7STRP	-0.007,0.0,0,0,0	Slew =,0.16	3R1	4	0	3,686,516	65:0
950	96	311	21:55:42.266	176GY6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R1	4	0	3,686,517	43:0
951	96	311	21:55:42.266	117HL11A	**CSMOS**	GE	***** GROUP END CSMOS	3R1	4	0	3,686,517	43:0
952	96	311	21:55:44.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,686,517	46:0
953	96	311	21:55:44.266		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 5719.40 +/- 3	3R1	4	0	3,686,517	46:0
954	96	311	21:55:54.266		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5721.51 +/- 3	3R1	4	0	3,686,517	61:0
955	96	311	21:56:09.600	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,517	84:0
956	96	311	21:56:09.600		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5725.10 +/- 3	3R1	4	0	3,686,517	84:0
957	96	311	21:56:11.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5725.16 +/- 3	3R1	4	0	3,686,517	86:1
958	96	311	21:58:02.933		DMS:	: *US-RUNUP	R28, TRACK 1, FWD, TIC 5725.16 +/- 3	3R1	4	0	3,686,519	72:0
959	96	311	21:58:02.933	175KN422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R1	4	0	3,686,519	72:0
960	96	311	21:58:14.933	175KN176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R1	4	0	3,686,519	90:0
961	96	311	21:58:15.000		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *5728.06 +/- 3	3R1	4	0	3,686,519	90:1
962	96	311	22:00:24.933	175KN422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,522	12:0
963	96	311	22:00:24.933		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *5842.26 +/- 3	3R1	4	0	3,686,522	12:0
964	96	311	22:00:26.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5842.48 +/- 3	3R1	4	0	3,686,522	14:1
965	96	311	22:19:28.266	165GZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,686,540	89:0
966	96	311	22:19:28.933	165GZ4B	7SCAN	NORM,1.79,1.911,	Check S/P Position	3R1	4	0	3,686,540	90:0
967	96	311	22:23:22.933	117GZ	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,686,544	77:0
968	96	311	22:23:32.266	117GZ105A106A4A	7STRP	-0.0005,0.004,0,	Slew =,0.21	3R1	4	0	3,686,545	00:0
969	96	311	22:23:32.266	176GZ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R1	4	0	3,686,545	00:0
970	96	311	22:23:54.933	117GZ11A	**CSMOS**	GE	***** GROUP END CSMOS	3R1	4	0	3,686,545	34:0
971	96	311	22:24:05.600	176GZ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R1	4	0	3,686,545	50:0
972	96	311	22:24:07.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,686,545	53:0
973	96	311	22:24:07.600		DMS:	: *US-RUNUP	R7, TRACK 1, FWD, TIC 5842.48 +/- 3	3R1	4	0	3,686,545	53:0
974	96	311	22:24:17.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5844.59 +/- 3	3R1	4	0	3,686,545	68:0
975	96	311	22:24:24.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,545	79:0
976	96	311	22:24:24.933		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5846.31 +/- 3	3R1	4	0	3,686,545	79:0
977	96	311	22:24:26.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5846.37 +/- 3	3R1	4	0	3,686,545	81:1
978	96	311	22:29:29.600	465KF6A	6DTRN	CMD,6DTRN,465KF6	DMS TRACK TURNAROUND	3R1	4	0	3,686,550	81:0
979	96	311	22:29:29.600		DMS:	: *DMS-TURN	P7, TRACK 1, FWD, TIC 5846.37 +/- 3	3R1	4	0	3,686,550	81:0
980	96	311	22:38:52.266	488AU6C	6TMSED	NORM,BL3	Sci, Eng, and D/L Chan	3R1	4	0	3,686,560	15:0
981	96	311	22:42:23.866		DMS:	: *REVERSE	P7, TRACK 1, FWD, TIC *6027.63 +/- 3	3R1	4	0	3,686,563	59:4
982	96	311	22:42:25.266		DMS:	: *TURNARND	P7, TRACK *2, *REV, TIC *6027.69 +/- 3	3R1	4	0	3,686,563	61:5
983	96	311	22:42:38.733		DMS:	: *AUTOSTOP	P7, TRACK 2, REV, TIC *6025.44 +/-	3R1	4	0	3,686,563	81:7
984	96	311	22:42:40.133		DMS:	: *READY	RDY, TRACK 2, REV, TIC *6025.38 +/-	3R1	4	0	3,686,563	83:8
985	96	311	23:04:46.933	175KO422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R1	4	0	3,686,585	72:0
986	96	311	23:04:46.933		DMS:	: *US-RUNUP	R28, TRACK 2, REV, TIC 6025.38 +/-	3R1	4	0	3,686,585	72:0
987	96	311	23:04:58.933	175KO176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R1	4	0	3,686,585	90:0
988	96	311	23:04:59.000		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *6025.27 +/-	3R1	4	0	3,686,585	90:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	96	311	23:05:19.600	175KO422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,586	30:0
990	96	311	23:05:19.600		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *6007.17 +/-	3R1	4	0	3,686,586	30:0
991	96	311	23:05:21.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *6006.95 +/-	3R1	4	0	3,686,586	32:1
992	96	311	23:06:59.600	165GL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,686,587	89:0
993	96	311	23:07:00.266	165GL4B	7SCAN	NORM,32.909,15.4	Check S/P Position	3R1	4	0	3,686,587	90:0
994	96	311	23:07:52.266	117GL	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,686,588	77:0
995	96	311	23:08:01.600	176HA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R1	4	0	3,686,589	00:0
996	96	311	23:08:01.600	117GL105A106A4A	7STRP	0.01,0.0,0,0,0,0	Slew =,0.41	3R1	4	0	3,686,589	00:0
997	96	311	23:08:29.600	117GL105A106A4B	7STRP	-0.0106,0.0017,0	Slew =0,5.0	3R1	4	0	3,686,589	42:0
998	96	311	23:08:35.600	117GL105A106A4C	7STRP	0.01,0.0,0,0,0,0	Slew =,0.41	3R1	4	0	3,686,589	51:0
999	96	311	23:09:03.600	117GL105A106A4D	7STRP	-0.0106,0.0017,0	Slew =0,5.0	3R1	4	0	3,686,590	02:0
1000	96	311	23:09:09.600	117GL105A106A4E	7STRP	0.01,0.0,0,0,0,0	Slew =,0.41	3R1	4	0	3,686,590	11:0
1001	96	311	23:09:37.600	117GL105A106A4F	7STRP	-0.0106,0.0017,0	Slew =0,5.0	3R1	4	0	3,686,590	53:0
1002	96	311	23:09:43.600	117GL105A106A4G	7STRP	0.01,0.0,0,0,0,0	Slew =,0.41	3R1	4	0	3,686,590	62:0
1003	96	311	23:10:11.600	117GL105A106A4H	7STRP	-0.0106,0.0017,0	Slew =0,5.0	3R1	4	0	3,686,591	13:0
1004	96	311	23:10:17.600	117GL105A106A4I	7STRP	0.01,0.0,0,0,0,0	Slew =,0.41	3R1	4	0	3,686,591	22:0
1005	96	311	23:10:45.600	117GL105A106A4J	7STRP	-0.0106,0.0017,0	Slew =0,5.0	3R1	4	0	3,686,591	64:0
1006	96	311	23:10:51.600	117GL105A106A4K	7STRP	0.01,0.0,0,0,0,0	Slew =,0.41	3R1	4	0	3,686,591	73:0
1007	96	311	23:10:52.266	488AU6D	6TMSED	NORM,BL5	Sci, Eng, and D/L Chan	3R1	4	0	3,686,591	74:0
1008	96	311	23:11:19.600	117GL105A106A4L	7STRP	-0.0106,0.0017,0	Slew =0,5.0	3R1	4	0	3,686,592	24:0
1009	96	311	23:11:25.600	117GL105A106A4M	7STRP	0.01,0.0,0,0,0,0	Slew =,0.41	3R1	4	0	3,686,592	33:0
1010	96	311	23:11:53.600	117GL105A106A4N	7STRP	-0.0106,0.0017,0	Slew =0,5.0	3R1	4	0	3,686,592	75:0
1011	96	311	23:11:59.600	117GL105A106A4O	7STRP	0.01,0.0,0,0,0,0	Slew =,0.41	3R1	4	0	3,686,592	84:0
1012	96	311	23:12:27.600	176HA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R1	4	0	3,686,593	35:0
1013	96	311	23:12:27.600	117GL11A	**CSMOS**	GE	***** GROUP END CSMOS	3R1	4	0	3,686,593	35:0
1014	96	311	23:12:29.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,686,593	38:0
1015	96	311	23:12:29.600		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 6006.95 +/-	3R1	4	0	3,686,593	38:0
1016	96	311	23:12:39.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *6008.11 +/-	3R1	4	0	3,686,593	53:0
1017	96	311	23:12:50.933	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,593	70:0
1018	96	311	23:12:50.933		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *6005.46 +/-	3R1	4	0	3,686,593	70:0
1019	96	311	23:12:52.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *6005.40 +/-	3R1	4	0	3,686,593	72:1
1020	96	311	23:18:06.933	165HE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R1	4	0	3,686,598	89:0
1021	96	311	23:18:07.600	165HE4B	7SCAN	NORM,5.631,3.764	Check S/P Position	3R1	4	0	3,686,598	90:0
1022	96	311	23:22:01.600	117HE	**CSMOS**	GS	***** GROUP START CSMOS	3R1	4	0	3,686,602	77:0
1023	96	311	23:22:10.933	176HB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R1	4	0	3,686,603	00:0
1024	96	311	23:22:10.933	117HE105A106A4A	7STRP	0.0043,0.0,0,0,0	Slew =,0.03	3R1	4	0	3,686,603	00:0
1025	96	311	23:24:35.600	117HE105A106A4B	7STRP	-0.00755,0.0012,	Slew =,4.01	3R1	4	0	3,686,605	35:0
1026	96	311	23:24:40.933	117HE105A106A4C	7STRP	0.0043,0.0,0,0,0	Slew =,0.03	3R1	4	0	3,686,605	43:0
1027	96	311	23:27:05.600	117HE105A106A4D	7STRP	-0.00755,0.0012,	Slew =,4.01	3R1	4	0	3,686,607	78:0
1028	96	311	23:27:10.933	117HE105A106A4E	7STRP	0.0043,0.0,0,0,0	Slew =,0.03	3R1	4	0	3,686,607	86:0
1029	96	311	23:29:35.600	117HE105A106A4F	7STRP	-0.00755,0.0012,	Slew =,4.01	3R1	4	0	3,686,610	30:0
1030	96	311	23:29:40.933	117HE105A106A4G	7STRP	0.0043,0.0,0,0,0	Slew =,0.03	3R1	4	0	3,686,610	38:0
1031	96	311	23:32:05.600	117HE105A106A4H	7STRP	-0.00755,0.0012,	Slew =,4.01	3R1	4	0	3,686,612	73:0
1032	96	311	23:32:10.933	117HE105A106A4I	7STRP	0.0043,0.0,0,0,0	Slew =,0.03	3R1	4	0	3,686,612	81:0
1033	96	311	23:34:35.600	117HE105A106A4J	7STRP	-0.00755,0.0012,	Slew =,4.01	3R1	4	0	3,686,615	25:0
1034	96	311	23:34:40.933	117HE105A106A4K	7STRP	0.0043,0.0,0,0,0	Slew =,0.03	3R1	4	0	3,686,615	33:0
1035	96	311	23:34:46.266		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 6005.40 +/-	3R1	4	0	3,686,615	41:0
1036	96	311	23:34:46.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,686,615	41:0
1037	96	311	23:35:10.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *6003.12 +/-	3R1	4	0	3,686,615	78:0
1038	96	311	23:35:30.933		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5998.44 +/-	3R1	4	0	3,686,616	17:0
1039	96	311	23:35:30.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,616	17:0
1040	96	311	23:35:32.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5998.38 +/-	3R1	4	0	3,686,616	19:1
1041	96	311	23:37:05.600	117HE105A106A4L	7STRP	-0.00755,0.0012,	Slew =,4.01	3R1	4	0	3,686,617	68:0
1042	96	311	23:37:10.933	117HE105A106A4M	7STRP	0.0043,0.0,0,0,0	Slew =,0.03	3R1	4	0	3,686,617	76:0
1043	96	311	23:39:35.600	117HE11A	**CSMOS**	GE	***** GROUP END CSMOS	3R1	4	0	3,686,620	20:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	96	311	23:40:56.266	176HB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R1	4	0	3,686,621	50:0
1045	96	311	23:40:58.266		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5998.38 +/-	3R1	4	0	3,686,621	53:0
1046	96	311	23:40:58.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R1	4	0	3,686,621	53:0
1047	96	311	23:41:08.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5999.54 +/-	3R1	4	0	3,686,621	68:0
1048	96	311	23:41:20.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R1	4	0	3,686,621	86:0
1049	96	311	23:41:20.266		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5996.73 +/-	3R1	4	0	3,686,621	86:0
1050	96	311	23:41:21.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5996.67 +/-	3R1	4	0	3,686,621	88:1
1051	**96**	**311**	**23:44:20.933**	**125EH4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R1**	**4**	**0**	**3,686,624**	**84:0**
1052	96	311	23:44:20.933	125EH11A	NIMSINIT	GE	##### GROUP END INIT	4R1	4	0	3,686,624	84:0
1053	96	311	23:44:20.933	125EH	NIMSINIT	GS	##### GROUP START INIT	4R1	4	0	3,686,624	84:0
1054	96	311	23:44:24.266	165EH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,686,624	89:0
1055	96	311	23:44:24.933	165EH4B	7SCAN	NORM,7.035,4.181	Check S/P Position	4R1	4	0	3,686,624	90:0
1056	96	311	23:45:16.933	117EH	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,686,625	77:0
1057	96	311	23:45:21.600	127EH	NIMSTAB	GS	%%%%% GROUP START TAB	4R1	4	0	3,686,625	84:0
1058	**96**	**311**	**23:45:21.600**	**127EH4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,686,625**	**84:0**
1059	**96**	**311**	**23:45:22.266**	**127EH4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,686,625**	**85:0**
1060	96	311	23:45:26.266	117EH105A106A4A	7STRP	0.0018,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,686,626	00:0
1061	96	311	23:45:30.266	127EH11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,686,626	06:0
1062	**96**	**311**	**23:45:30.333**	**C3INTHRMAL03-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1063	96	311	23:46:14.266	175EH422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,686,626	72:0
1064	96	311	23:46:14.266		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5996.67 +/-	4R3	4	0	3,686,626	72:0
1065	96	311	23:46:23.600	175EH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,686,626	86:0
1066	96	311	23:46:23.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5997.95 +/-	4R3	4	0	3,686,626	86:3
1067	96	311	23:46:30.933	117EH105A106A4B	7STRP	-0.00325,0.0,0,0	Slew =12.01	4R3	4	0	3,686,627	06:0
1068	96	311	23:46:36.266	117EH105A106A4C	7STRP	0.0018,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,686,627	14:0
1069	96	311	23:47:19.600		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5984.87 +/-	4R3	4	0	3,686,627	79:0
1070	96	311	23:47:19.600	175EH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,686,627	79:0
1071	96	311	23:47:19.600	175EH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,686,627	79:0
1072	96	311	23:47:21.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5984.81 +/-	4R3	4	0	3,686,627	81:1
1073	96	311	23:47:40.933	117EH11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,686,628	20:0
1074	**96**	**311**	**23:51:34.333**	**C3INTHRMAL03-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1075	96	311	23:54:30.933	165EI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,686,634	89:0
1076	96	311	23:54:31.600	165EI4B	7SCAN	NORM,7.822,4.539	Check S/P Position	4R3	4	0	3,686,634	90:0
1077	96	311	23:56:28.933	125EI	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,686,636	84:0
1078	96	311	23:56:28.933	125EI11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,686,636	84:0
1079	**96**	**311**	**23:56:28.933**	**125EI4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,686,636**	**84:0**
1080	96	311	23:57:24.933	117EI	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,637	77:0
1081	**96**	**311**	**23:57:29.600**	**127EI4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,686,637**	**84:0**
1082	96	311	23:57:29.600	127EI	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,686,637	84:0
1083	**96**	**311**	**23:57:30.266**	**127EI4B**	**37ETB**	**07,C7,03,80,00,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,686,637**	**85:0**
1084	96	311	23:57:34.266	117EI105A106A4A	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	2R3	4	0	3,686,638	00:0
1085	96	311	23:57:38.266	127EI11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,686,638	06:0
1086	**96**	**311**	**23:57:38.333**	**C3INVOLCAN01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1087	96	311	23:58:22.266		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5984.81 +/-	2R3	4	0	3,686,638	72:0
1088	96	311	23:58:22.266	175EI422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,638	72:0
1089	96	311	23:58:31.600	175EI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,686,638	86:0
1090	96	311	23:58:31.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5986.08 +/-	2R3	4	0	3,686,638	86:3
1091	96	311	23:58:42.266	117EI105A106A4B	7STRP	-0.0037,0.0,0,0,	Slew =12.01	2R3	4	0	3,686,639	11:0
1092	96	311	23:58:47.600	117EI105A106A4C	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	2R3	4	0	3,686,639	19:0
1093	96	311	23:59:27.600		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5973.01 +/-	2R3	4	0	3,686,639	79:0
1094	96	311	23:59:27.600	175EI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,639	79:0
1095	96	311	23:59:27.600	175EI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,639	79:0
1096	96	311	23:59:29.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5972.95 +/-	2R3	4	0	3,686,639	81:1
1097	96	311	23:59:55.600	117EI105A106A4D	7STRP	-0.0037,0.0,0,0,	Slew =12.01	2R3	4	0	3,686,640	30:0
1098	96	312	00:00:00.266	488AU6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	3,686,640	37:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	96	312	00:00:00.933	117EI105A106A4E	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	2R3	4	0	3,686,640:38:0	
1100	96	312	00:01:08.933	117EI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,641:49:0	
1101	96	312	00:03:36.933	165EG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,643:89:0	
1102	96	312	00:03:37.600	165EG4B	7SCAN	NORM,8.682,4.932	Check S/P Position	2R3	4	0	3,686,643:90:0	
1103	**96**	**312**	**00:03:42.333**	**C3INCHEMIS05-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1104	96	312	00:07:31.600	117EG	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,647:77:0	
1105	**96**	**312**	**00:07:36.266**	**127EG4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,686,647:84:0**	
1106	96	312	00:07:36.266	127EG	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,686,647:84:0	
1107	**96**	**312**	**00:07:36.933**	**127EG4B**	**37ETB**	**07,C7,02,01,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,686,647:85:0**	
1108	96	312	00:07:40.933	117EG105A106A4A	7STRP	0.0031,0.0,0,0,0	Slew =,0.03	2R3	4	0	3,686,648:00:0	
1109	96	312	00:07:44.933	127EG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,686,648:06:0	
1110	**96**	**312**	**00:07:44.999**	**C3INVOLCAN01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1111	96	312	00:08:28.933	175EG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,648:72:0	
1112	96	312	00:08:28.933		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5972.95 +/-	2R3	4	0	3,686,648:72:0	
1113	96	312	00:08:38.266	175EG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	3,686,648:86:0	
1114	96	312	00:08:38.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5974.22 +/-	2R3	4	0	3,686,648:86:3	
1115	96	312	00:09:28.266	117EG105A106A4B	7STRP	-0.00555,0.0,0,0	Slew =12.01	2R3	4	0	3,686,649:70:0	
1116	96	312	00:09:33.600	117EG105A106A4C	7STRP	0.0031,0.0,0,0,0	Slew =,0.03	2R3	4	0	3,686,649:78:0	
1117	96	312	00:11:20.933	117EG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,651:57:0	
1118	**96**	**312**	**00:11:47.666**	**C3INCHEMIS05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1119	96	312	00:13:43.600		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5902.71 +/-	2R3	4	0	3,686,653:89:0	
1120	96	312	00:13:43.600	175EG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,653:89:0	
1121	96	312	00:13:43.600	175EG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,653:89:0	
1122	96	312	00:13:45.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5902.65 +/-	2R3	4	0	3,686,654:00:1	
1123	96	312	00:44:44.266	488AV6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R3	4	0	3,686,684:59:0	
1124	96	312	00:45:04.266	165HB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,684:89:0	
1125	96	312	00:45:04.933	165HB4B	7SCAN	NORM,11.196,6.19	Check S/P Position	2R3	4	0	3,686,684:90:0	
1126	96	312	00:48:58.933	117HB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,688:77:0	
1127	96	312	00:49:08.266	117HB105A106A4A	7STRP	-0.0004,0.004,0,	Slew =,0.19	2R3	4	0	3,686,689:00:0	
1128	96	312	00:49:08.266	176HD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,686,689:00:0	
1129	96	312	00:49:30.933	117HB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,689:34:0	
1130	96	312	00:49:41.600	176HD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,689:50:0	
1131	96	312	00:49:43.600		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5902.65 +/-	2R3	4	0	3,686,689:53:0	
1132	96	312	00:49:43.600	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,689:53:0	
1133	96	312	00:49:53.600		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5903.81 +/-	2R3	4	0	3,686,689:68:0	
1134	96	312	00:50:00.933	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,689:79:0	
1135	96	312	00:50:00.933		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5902.09 +/-	2R3	4	0	3,686,689:79:0	
1136	96	312	00:50:02.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5902.03 +/-	2R3	4	0	3,686,689:81:1	
1137	**96**	**312**	**01:17:22.266**	**125FO4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,686,716:84:0**	
1138	96	312	01:17:22.266	125FO	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,686,716:84:0	
1139	96	312	01:17:22.266	125FO11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,686,716:84:0	
1140	**96**	**312**	**01:18:22.933**	**127FO4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,686,717:84:0**	
1141	96	312	01:18:22.933	127FO	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,686,717:84:0	
1142	**96**	**312**	**01:18:23.600**	**127FO4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**3,686,717:85:0**	
1143	96	312	01:18:31.600	127FO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	3,686,718:06:0	
1144	**96**	**312**	**01:18:31.666**	**C3NNHEALTH06-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1145	**96**	**312**	**01:18:47.600**	**432DS6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**3,686,718:30:0**	
1146	**96**	**312**	**01:19:46.933**	**432DT6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**3,686,719:28:0**	
1147	96	312	01:20:27.600	165GO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,686,719:89:0	
1148	96	312	01:20:28.266	165GO4B	7SCAN	NORM,38.895,17.1	Check S/P Position	2R3	4	0	3,686,719:90:0	
1149	**96**	**312**	**01:21:33.666**	**C3NNHEALTH06-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1150	96	312	01:24:22.266	117GO	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	3,686,723:77:0	
1151	96	312	01:24:31.600	176HE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	3,686,724:00:0	
1152	96	312	01:24:31.600	117GO105A106A4A	7STRP	0.001,-0.0028,0,	Slew =,0.16	2R3	4	0	3,686,724:00:0	
1153	96	312	01:24:54.266	117GO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	3,686,724:34:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	96	312	01:25:04.933	176HE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	3,686,724	50:0
1155	96	312	01:25:06.933	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	3,686,724	53:0
1156	96	312	01:25:06.933		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5902.03 +/-	2R3	4	0	3,686,724	53:0
1157	96	312	01:25:16.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5903.20 +/-	2R3	4	0	3,686,724	68:0
1158	96	312	01:25:24.266	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	3,686,724	79:0
1159	96	312	01:25:24.266		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5901.48 +/-	2R3	4	0	3,686,724	79:0
1160	96	312	01:25:25.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5901.42 +/-	2R3	4	0	3,686,724	81:1
1161	**96**	**312**	**02:24:14.999**	**C3NIMSP2LD03-**		**-----START------**		**2R3**	**4**	**0**	:	:
1162	**96**	**312**	**02:25:15.600**	**20EF6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R3**	**4**	**0**	**3,686,784**	**06:0**
1163	**96**	**312**	**02:26:16.266**	**20EF5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**3,686,785**	**06:0**
1164	**96**	**312**	**02:27:16.933**	**20EF5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**3,686,786**	**06:0**
1165	**96**	**312**	**02:28:17.600**	**20EF6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**3,686,787**	**06:0**
1166	**96**	**312**	**02:29:18.266**	**20EF6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**3,686,788**	**06:0**
1167	**96**	**312**	**02:30:18.933**	**20EF5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,686,789**	**06:0**
1168	**96**	**312**	**02:31:19.600**	**20EF5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,686,790**	**06:0**
1169	**96**	**312**	**02:32:20.266**	**20EF4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,686,791**	**06:0**
1170	**96**	**312**	**02:39:24.999**	**C3NIMSP2LD03-**		**-----STOP-------**		**2R0**	**4**	**0**	:	:
1171	96	312	02:40:00.266	41SB99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	2R0	4	0	3,686,798	59:0
1172	**96**	**312**	**02:40:04.266**	**41SB3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**2R0**	**4**	**0**	**3,686,798**	**65:0**
1173	**96**	**312**	**02:40:14.266**	**41SB3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**2R0**	**4**	**0**	**3,686,798**	**80:0**
1174	**96**	**312**	**02:42:24.266**	**41SB3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2R0**	**4**	**0**	**3,686,801**	**02:0**
1175	**96**	**312**	**02:42:34.266**	**41SB3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2R0**	**4**	**0**	**3,686,801**	**17:0**
1176	**96**	**312**	**02:42:44.266**	**41SB3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2R0**	**4**	**0**	**3,686,801**	**32:0**
1177	**96**	**312**	**02:42:54.266**	**41SB3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2R0**	**4**	**0**	**3,686,801**	**47:0**
1178	96	312	02:46:20.266	488AV6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R0	4	0	3,686,804	83:0
1179	96	312	02:57:02.266	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2R0	4	0	3,686,815	45:0
1180	96	312	03:02:00.266	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R0	4	0	3,686,820	37:0
1181	96	312	03:06:10.266	490UA412A4E	7VECT		Inert vect update UTC	2R0	4	0	3,686,824	48:0
1182	96	312	03:06:14.266	490UA412A4F	7TURN	1,RTH	ALERT Thruster	2R0	4	0	3,686,824	54:0
1183	96	312	03:10:02.266	490UA412A406A4A	7STAR	1,3000,95.710999	Star catalog update	2R0	4	0	3,686,828	32:0
1184	96	312	03:10:04.266	490UA412A406A4B	7STAR	2,131,322.01	Star catalog update	2R0	4	0	3,686,828	35:0
1185	96	312	03:10:06.266	490UA412A406A4C	7STAR	3,111,257.16	Star catalog update	2R0	4	0	3,686,828	38:0
1186	96	312	03:10:08.266	490UA412A406A4D	7STAR	4,770,213.33,19.	Star catalog update	2R0	4	0	3,686,828	41:0
1187	96	312	03:10:10.266	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	2R0	4	0	3,686,828	44:0
1188	96	312	03:10:12.266	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	2R0	4	0	3,686,828	47:0
1189	96	312	04:03:16.933	488AV6C	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	2R0	4	0	3,686,881	01:0
1190	96	312	04:30:35.600	488AV6D	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R0	4	0	3,686,908	02:0
1191	96	312	04:50:00.266	41SC99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	2R0	4	0	3,686,927	20:0
1192	**96**	**312**	**04:50:04.266**	**41SC3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**2R0**	**4**	**0**	**3,686,927**	**26:0**
1193	**96**	**312**	**04:50:14.266**	**41SC3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**2R0**	**4**	**0**	**3,686,927**	**41:0**
1194	**96**	**312**	**04:50:24.266**	**41SC3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**2R0**	**4**	**0**	**3,686,927**	**56:0**
1195	**96**	**312**	**04:50:34.266**	**41SC3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**2R0**	**4**	**0**	**3,686,927**	**71:0**
1196	**96**	**312**	**04:50:44.266**	**41SC3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**2R0**	**4**	**0**	**3,686,927**	**86:0**
1197	**96**	**312**	**04:50:54.266**	**41SC3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**2R0**	**4**	**0**	**3,686,928**	**10:0**
1198	96	312	04:59:59.600	432OE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R0	4	0	3,686,937	09:0
1199	96	312	05:00:00.266	432OE6A	6RTSL1		R/T Select of DDS and	2R0	4	0	3,686,937	10:0
1200	96	312	05:13:00.933	165GV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,686,949	89:0
1201	96	312	05:13:01.600	165GV4B	7SCAN	NORM,353.386997,	Check S/P Position	2R0	4	0	3,686,949	90:0
1202	96	312	05:16:55.600	117GV	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	3,686,953	77:0
1203	96	312	05:17:04.933	117GV105A106A4A	7STRP	0.0,0.004,0,0,0,	Slew =,0.21	2R0	4	0	3,686,954	00:0
1204	96	312	05:17:04.933	176HH6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R0	4	0	3,686,954	00:0
1205	96	312	05:17:31.600	117GV11A	**CSMOS**	GE	***** GROUP END CSMOS	2R0	4	0	3,686,954	40:0
1206	96	312	05:17:38.266	176HH6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R0	4	0	3,686,954	50:0
1207	96	312	05:17:40.266		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5901.42 +/-	2R0	4	0	3,686,954	53:0
1208	96	312	05:17:40.266	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	3,686,954	53:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1209	96	312	05:17:50.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5902.59 +/-	2R0	4	0	3,686,954:68:0
1210	96	312	05:17:57.600	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	3,686,954:79:0
1211	96	312	05:17:57.600		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5900.87 +/-	2R0	4	0	3,686,954:79:0
1212	96	312	05:17:59.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5900.81 +/-	2R0	4	0	3,686,954:81:1
1213	96	312	05:23:07.600	165EJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	4	0	3,686,959:89:0
1214	96	312	05:23:08.266	165EJ4B	7SCAN	NORM,59.635,22.1	Check S/P Position	2R0	4	0	3,686,959:90:0
1215	**96**	**312**	**05:23:13.000**	**C3JNFEA13601-**		**-----START------**		**2R0**	**4**	**0**	**: :**
1216	**96**	**312**	**05:25:05.600**	**125EJ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**3,686,961:84:0**
1217	96	312	05:25:05.600	125EJ11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	3,686,961:84:0
1218	96	312	05:25:05.600	125EJ	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	3,686,961:84:0
1219	96	312	05:26:06.266	127EJ	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	3,686,962:84:0
1220	**96**	**312**	**05:26:06.266**	**127EJ4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,686,962:84:0**
1221	**96**	**312**	**05:26:06.933**	**127EJ4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,686,962:85:0**
1222	96	312	05:26:14.933	127EJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,686,963:06:0
1223	96	312	05:26:58.933	175EJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,686,963:72:0
1224	96	312	05:26:58.933		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5900.81 +/-	2R5	4	1	3,686,963:72:0
1225	96	312	05:27:02.266	117EJ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,686,963:77:0
1226	96	312	05:27:08.266	175EJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,686,963:86:0
1227	96	312	05:27:08.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5902.08 +/-	2R5	4	1	3,686,963:86:3
1228	96	312	05:27:11.600	117EJ105A106A4A	7STRP	0.057062,0.0,0,0	Slew =0,0.1	2R5	4	1	3,686,964:00:0
1229	96	312	05:28:05.600		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5888.69 +/-	2R5	4	1	3,686,964:81:0
1230	96	312	05:28:05.600	175EJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,686,964:81:0
1231	96	312	05:28:05.600	175EJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,686,964:81:0
1232	96	312	05:28:07.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5888.63 +/-	2R5	4	1	3,686,964:83:1
1233	96	312	05:36:52.933	117EJ105A106B4A	7STRP	-0.06208,0.0004,	Slew =12.01	2R5	4	1	3,686,973:53:0
1234	96	312	05:37:00.933		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5888.63 +/-	2R5	4	1	3,686,973:65:0
1235	96	312	05:37:00.933	175FA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,686,973:65:0
1236	96	312	05:37:06.266	117EJ105A106B4B	7STRP	0.012401,0.0,0,0	Slew =0,0.1	2R5	4	1	3,686,973:73:0
1237	96	312	05:37:10.266	175FA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,686,973:79:0
1238	96	312	05:37:10.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5889.91 +/-	2R5	4	1	3,686,973:79:3
1239	96	312	05:39:12.933	117EJ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,686,975:81:0
1240	**96**	**312**	**05:39:23.666**	**C3JNFEA13601-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
1241	96	312	05:39:25.600	175FA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,686,976:09:0
1242	96	312	05:39:25.600	175FA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,686,976:09:0
1243	96	312	05:39:25.600		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5858.24 +/-	2R5	4	1	3,686,976:09:0
1244	96	312	05:39:27.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5858.18 +/-	2R5	4	1	3,686,976:11:1
1245	96	312	05:53:27.600	165EK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,686,989:89:0
1246	96	312	05:53:28.266	165EK4B	7SCAN	NORM,60.23,22.29	Check S/P Position	2R5	4	1	3,686,989:90:0
1247	**96**	**312**	**05:53:33.000**	**C3JNFEA13603-**		**-----START------**		**2R5**	**4**	**1**	**: :**
1248	96	312	05:57:18.933		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5858.18 +/-	2R5	4	1	3,686,993:72:0
1249	96	312	05:57:18.933	175EK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,686,993:72:0
1250	96	312	05:57:22.266	117EK	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,686,993:77:0
1251	96	312	05:57:28.266	175EK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,686,993:86:0
1252	96	312	05:57:28.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5859.45 +/-	2R5	4	1	3,686,993:86:3
1253	96	312	05:57:31.600	117EK105A106A4A	7STRP	0.01,0.0,0,0,0,0	Slew =0,0.1	2R5	4	1	3,686,994:00:0
1254	96	312	05:59:14.266	117EK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,686,995:63:0
1255	96	312	05:59:25.600		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5832.00 +/-	2R5	4	1	3,686,995:80:0
1256	96	312	05:59:25.600	175EK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,686,995:80:0
1257	96	312	05:59:25.600	175EK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,686,995:80:0
1258	96	312	05:59:27.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5831.94 +/-	2R5	4	1	3,686,995:82:1
1259	**96**	**312**	**05:59:33.000**	**C3JNFEA13603-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
1260	96	312	07:00:00.266	488AW6A	6TMSED	NORM,CL4	Sci, Eng, and D/L Chan	2R5	4	1	3,687,055:72:0
1261	96	312	07:26:28.933	165EL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R5	4	1	3,687,081:89:0
1262	96	312	07:26:29.600	165EL4B	7SCAN	NORM,60.551,22.3	Check S/P Position	2R5	4	1	3,687,081:90:0
1263	**96**	**312**	**07:26:34.333**	**C3JNFEA53M01-**		**-----START------**		**2R5**	**4**	**1**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1264	**96**	**312**	**07:28:26.933**	**125EL4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R5**	**4**	**1**	**3,687,083:84:0**
1265	96	312	07:28:26.933	125EL11A	NIMSINIT	GE	##### GROUP END INIT	4R5	4	1	3,687,083:84:0
1266	96	312	07:28:26.933	125EL	NIMSINIT	GS	##### GROUP START INIT	4R5	4	1	3,687,083:84:0
1267	96	312	07:29:27.600	127EL	NIMSTAB	GS	%%%%% GROUP START TAB	4R5	4	1	3,687,084:84:0
1268	**96**	**312**	**07:29:27.600**	**127EL4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,687,084:84:0**
1269	**96**	**312**	**07:29:28.266**	**127EL4B**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,687,084:85:0**
1270	96	312	07:29:36.266	127EL11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,687,085:06:0
1271	96	312	07:30:20.266	175EL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,687,085:72:0
1272	96	312	07:30:20.266		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5831.94 +/-	4R3	4	0	3,687,085:72:0
1273	96	312	07:30:23.600	117EL	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,687,085:77:0
1274	96	312	07:30:29.600	175EL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,687,085:86:0
1275	96	312	07:30:29.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5833.21 +/-	4R3	4	0	3,687,085:86:3
1276	96	312	07:30:32.933	117EL105A106A4A	7STRP	0.0106,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,687,086:00:0
1277	96	312	07:36:29.600	117EL105A106A4B	7STRP	-0.0108,0.0,0,0,	Slew =12.01	4R3	4	0	3,687,091:80:0
1278	96	312	07:36:36.266	117EL105A106A4C	7STRP	0.0106,0.0,0,0,0	Slew =,0.03	4R3	4	0	3,687,091:90:0
1279	96	312	07:36:40.266	175EL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,687,092:05:0
1280	96	312	07:36:40.266	175EL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,687,092:05:0
1281	96	312	07:36:40.266		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5746.39 +/-	4R3	4	0	3,687,092:05:0
1282	96	312	07:36:41.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5746.33 +/-	4R3	4	0	3,687,092:07:1
1283	96	312	07:41:27.600	175FD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,687,096:72:0
1284	96	312	07:41:27.600		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5746.33 +/-	4R3	4	0	3,687,096:72:0
1285	96	312	07:41:36.933	175FD176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,687,096:86:0
1286	96	312	07:41:37.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5747.60 +/-	4R3	4	0	3,687,096:86:3
1287	96	312	07:42:32.933	117EL11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,687,097:79:0
1288	96	312	07:47:47.600	175FD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,687,103:05:0
1289	96	312	07:47:47.600	175FD6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,687,103:05:0
1290	96	312	07:47:47.600		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5660.77 +/-	4R3	4	0	3,687,103:05:0
1291	**96**	**312**	**07:47:48.333**	**C3JNFEA53M01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
1292	96	312	07:47:49.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5660.71 +/-	4R3	4	0	3,687,103:07:1
1293	96	312	09:01:31.600	165EM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,687,175:89:0
1294	96	312	09:01:32.266	165EM4B	7SCAN	NORM,61.52,22.51	Check S/P Position	4R3	4	0	3,687,175:90:0
1295	**96**	**312**	**09:01:37.000**	**C3JNFEA5UM02-**		**-----START------**		**4R3**	**4**	**0**	**: :**
1296	96	312	09:04:30.266	127EM	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,687,178:84:0
1297	**96**	**312**	**09:04:30.933**	**127EM4A**	**37ETB**	**,CD,02,03,FF,1A,**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,687,178:85:0**
1298	96	312	09:04:38.933	127EM11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,687,179:06:0
1299	96	312	09:05:22.933	175EM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,687,179:72:0
1300	96	312	09:05:22.933		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5660.71 +/-	4R3	4	0	3,687,179:72:0
1301	96	312	09:05:26.266	117EM	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,687,179:77:0
1302	96	312	09:05:32.266	175EM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,687,179:86:0
1303	96	312	09:05:32.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5661.99 +/-	4R3	4	0	3,687,179:86:3
1304	96	312	09:05:35.600	117EM105A106A4A	7STRP	0.007,0.0,0,0,0,	Slew =,0.02	4R3	4	0	3,687,180:00:0
1305	96	312	09:11:32.266	117EM11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,687,185:80:0
1306	**96**	**312**	**09:11:37.000**	**C3JNFEA5UM02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
1307	96	312	09:11:39.600	175EM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,687,186:00:0
1308	96	312	09:11:39.600	175EM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,687,186:00:0
1309	96	312	09:11:39.600		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5575.94 +/-	4R3	4	0	3,687,186:00:0
1310	96	312	09:11:41.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5575.88 +/-	4R3	4	0	3,687,186:02:1
1311	96	312	09:35:56.266	488AW6B	6TMSED	NORM,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,687,210:01:0
1312	**96**	**312**	**09:59:15.000**	**C3NNBFRDMP01+**		**-----START------**		**4R3**	**4**	**0**	**: :**
1313	**96**	**312**	**10:01:16.333**	**C3NNBFRDMP01+**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
1314	96	312	10:06:14.266	165CT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,687,239:89:0
1315	96	312	10:06:14.933	165CT4B	7SCAN	NORM,9.938,5.111	Check S/P Position	4R3	4	0	3,687,239:90:0
1316	96	312	10:42:02.933	488AW6C	6TMSED	FILL,CL2	Sci, Eng, and D/L Chan	4R3	4	0	3,687,275:36:0
1317	96	312	10:42:04.266	488AW6D	6TMSED	FILL,CL1	Sci, Eng, and D/L Chan	4R3	4	0	3,687,275:38:0
1318	96	312	12:19:43.600		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5575.88 +/-	4R3	4	0	3,687,372:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	96	312	12:19:43.600	411EQ6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,687,372:00:0	
1320	96	312	12:19:53.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5577.16 +/-	4R3	4	0	3,687,372:14:3	
1321	96	312	12:19:53.600	411EQ6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R3	4	0	3,687,372:15:0	
1322	96	312	12:21:54.933	411EQ6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,687,374:15:0	
1323	96	312	12:21:57.600	175TO176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	3,687,374:19:0	
1324	96	312	12:21:58.266	175TO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,687,374:20:0	
1325	96	312	12:22:04.933	175TO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,687,374:30:0	
1326	96	312	12:22:04.933		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5546.27 +/-	4R3	4	0	3,687,374:30:0	
1327	96	312	12:22:06.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5546.21 +/-	4R3	4	0	3,687,374:32:1	
1328	96	312	13:45:00.200	488AX6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,687,456:31:0	
1329	96	312	14:15:00.200	488AX6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4R3	4	0	3,687,486:01:0	
1330	96	312	15:15:00.200	481UE4A	7VECT		Inert vect update UTC	4R3	4	0	3,687,545:32:0	
1331	**96**	**312**	**15:28:52.333**	**C3NNBFRDMP02+**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1332	**96**	**312**	**15:30:53.666**	**C3NNBFRDMP02+**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1333	96	312	15:38:53.533	165EN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,687,568:89:0	
1334	96	312	15:38:54.200	165EN4B	7SCAN	NORM,82.341,24.7	Check S/P Position	4R3	4	0	3,687,568:90:0	
1335	**96**	**312**	**15:38:59.000**	**C3JNFEA15301-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1336	**96**	**312**	**15:40:51.533**	**125EN4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**3,687,570:84:0**	
1337	96	312	15:40:51.533	125EN	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,687,570:84:0	
1338	96	312	15:40:51.533	125EN11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,687,570:84:0	
1339	96	312	15:41:52.200	127EN	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	3,687,571:84:0	
1340	**96**	**312**	**15:41:52.200**	**127EN4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**3,687,571:84:0**	
1341	**96**	**312**	**15:41:52.866**	**127EN4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**3,687,571:85:0**	
1342	96	312	15:42:00.866	127EN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	3,687,572:06:0	
1343	96	312	15:42:44.200	175EN422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,687,572:71:0	
1344	96	312	15:42:44.200		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5546.21 +/-	2R5	4	1	3,687,572:71:0	
1345	96	312	15:42:48.200	117EN	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	3,687,572:77:0	
1346	96	312	15:42:53.533	175EN176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,687,572:85:0	
1347	96	312	15:42:53.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5547.48 +/-	2R5	4	1	3,687,572:85:3	
1348	96	312	15:42:57.533	117EN105A106A4A	7STRP	0.052047,0.0,0,0	Slew =0,0.1	2R5	4	1	3,687,573:00:0	
1349	96	312	15:44:46.866	175EN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,687,574:73:0	
1350	96	312	15:44:46.866	175EN6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,687,574:73:0	
1351	96	312	15:44:46.866		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5520.97 +/-	2R5	4	1	3,687,574:73:0	
1352	96	312	15:44:48.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5520.91 +/-	2R5	4	1	3,687,574:75:1	
1353	96	312	15:51:45.533	175FE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,687,581:64:0	
1354	96	312	15:51:45.533		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5520.91 +/-	2R5	4	1	3,687,581:64:0	
1355	96	312	15:51:54.866	175FE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,687,581:78:0	
1356	96	312	15:51:55.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5522.18 +/-	2R5	4	1	3,687,581:78:3	
1357	96	312	15:51:59.533	117EN105A106A4B	7STRP	-0.055557,0.0,0,	Slew =12.01	2R5	4	1	3,687,581:85:0	
1358	96	312	15:52:19.533	117EN105A106A4C	7STRP	0.052047,0.0,0,0	Slew =0,0.1	2R5	4	1	3,687,582:24:0	
1359	96	312	15:54:06.866		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5491.29 +/-	2R5	4	1	3,687,584:03:0	
1360	96	312	15:54:06.866	175FE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,687,584:03:0	
1361	96	312	15:54:06.866	175FE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,687,584:03:0	
1362	96	312	15:54:08.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5491.23 +/-	2R5	4	1	3,687,584:05:1	
1363	96	312	16:01:10.200	175FF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,687,591:01:0	
1364	96	312	16:01:10.200		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5491.23 +/-	2R5	4	1	3,687,591:01:0	
1365	96	312	16:01:19.533	175FF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	3,687,591:15:0	
1366	96	312	16:01:19.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5492.51 +/-	2R5	4	1	3,687,591:15:3	
1367	96	312	16:01:21.533	117EN105A106B4A	7STRP	-0.054554,0.0003	Slew =12.01	2R5	4	1	3,687,591:18:0	
1368	96	312	16:01:41.533	117EN105A106B4B	7STRP	0.013001,0.0,0,0	Slew =0,0.1	2R5	4	1	3,687,591:48:0	
1369	96	312	16:03:56.200	117EN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	3,687,593:68:0	
1370	96	312	16:04:02.200		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5454.43 +/-	2R5	4	1	3,687,593:77:0	
1371	96	312	16:04:02.200	175FF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,687,593:77:0	
1372	96	312	16:04:02.200	175FF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,687,593:77:0	
1373	96	312	16:04:03.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5454.37 +/-	2R5	4	1	3,687,593:79:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	**96**	**312**	**16:04:15.666**	**C3JNFEA15301-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1375	96	312	16:11:42.866	488AX6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R5	4	1	3,687,601:40:0	
1376	96	312	17:30:08.200		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5454.37 +/-	2R5	4	1	3,687,679:00:0	
1377	96	312	17:30:08.200	411ER6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,687,679:00:0	
1378	96	312	17:30:17.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5455.65 +/-	2R5	4	1	3,687,679:14:3	
1379	96	312	17:30:18.200	411ER6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	3,687,679:15:0	
1380	96	312	17:32:19.533	411ER6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,687,681:15:0	
1381	96	312	17:32:22.200	175TP176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R5	4	1	3,687,681:19:0	
1382	96	312	17:32:22.866	175TP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,687,681:20:0	
1383	96	312	17:32:29.533	175TP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,687,681:30:0	
1384	96	312	17:32:29.533		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5424.76 +/-	2R5	4	1	3,687,681:30:0	
1385	96	312	17:32:30.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5424.70 +/-	2R5	4	1	3,687,681:32:1	
1386	96	312	20:20:00.200	41SD99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	2R5	4	1	3,687,847:00:0	
1387	**96**	**312**	**20:20:04.200**	**41SD3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,687,847:06:0**	
1388	**96**	**312**	**20:20:14.200**	**41SD3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,687,847:21:0**	
1389	**96**	**312**	**20:22:24.200**	**41SD3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2R5**	**4**	**1**	**3,687,849:34:0**	
1390	**96**	**312**	**20:22:34.200**	**41SD3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2R5**	**4**	**1**	**3,687,849:49:0**	
1391	**96**	**312**	**20:22:44.200**	**41SD3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2R5**	**4**	**1**	**3,687,849:64:0**	
1392	**96**	**312**	**20:22:54.200**	**41SD3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2R5**	**4**	**1**	**3,687,849:79:0**	
1393	96	312	20:24:58.200	488AY6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R5	4	1	3,687,851:83:0	
1394	96	312	20:37:02.200	490UB412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2R5	4	1	3,687,863:77:0	
1395	**96**	**312**	**20:39:17.000**	**C3NNBFRDMP03+**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1396	**96**	**312**	**20:41:18.333**	**C3NNBFRDMP03+**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1397	96	312	20:42:00.200	490UB412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R5	4	1	3,687,868:69:0	
1398	96	312	20:46:10.200	490UB412A4E	7VECT		Inert vect update UTC	2R5	4	1	3,687,872:80:0	
1399	96	312	20:46:14.200	490UB412A4F	7TURN	1,RTH	ALERT Thruster	2R5	4	1	3,687,872:86:0	
1400	96	312	20:50:02.200	490UB412A406A4A	7STAR	1,3000,95.710999	Star catalog update	2R5	4	1	3,687,876:64:0	
1401	96	312	20:50:04.200	490UB412A406A4B	7STAR	2,131,322.01	Star catalog update	2R5	4	1	3,687,876:67:0	
1402	96	312	20:50:06.200	490UB412A406A4C	7STAR	3,396,206.39	Star catalog update	2R5	4	1	3,687,876:70:0	
1403	96	312	20:50:08.200	490UB412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	2R5	4	1	3,687,876:73:0	
1404	96	312	20:50:10.200	490UB412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	2R5	4	1	3,687,876:76:0	
1405	96	312	20:50:12.200	490UB412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	2R5	4	1	3,687,876:79:0	
1406	96	312	22:30:00.200	41SE99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	2R5	4	1	3,687,975:52:0	
1407	96	312	22:30:00.200	488AY6B	6TMSED	NORM,EL1	Sci, Eng, and D/L Chan	2R5	4	1	3,687,975:52:0	
1408	**96**	**312**	**22:30:04.200**	**41SE3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,687,975:58:0**	
1409	**96**	**312**	**22:30:14.200**	**41SE3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,687,975:73:0**	
1410	96	312	22:30:20.200	488AY6C	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	2R5	4	1	3,687,975:82:0	
1411	**96**	**312**	**22:30:24.200**	**41SE3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**2R5**	**4**	**1**	**3,687,975:88:0**	
1412	**96**	**312**	**22:30:34.200**	**41SE3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**2R5**	**4**	**1**	**3,687,976:12:0**	
1413	**96**	**312**	**22:30:44.200**	**41SE3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**2R5**	**4**	**1**	**3,687,976:27:0**	
1414	**96**	**312**	**22:30:54.200**	**41SE3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**2R5**	**4**	**1**	**3,687,976:42:0**	
1415	96	312	22:39:59.533	432OG431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R5	4	1	3,687,985:41:0	
1416	96	312	22:40:00.200	432OG6A	6RTSL1		R/T Select of DDS and	2R5	4	1	3,687,985:42:0	
1417	96	312	23:02:20.200	488AY6D	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R5	4	1	3,688,007:50:0	
1418	96	312	23:34:20.200	488AY6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R5	4	1	3,688,039:18:0	
1419	96	313	00:26:11.533	488AZ6A	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	2R5	4	1	3,688,090:44:0	
1420	96	313	00:44:44.200	488AZ6B	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	2R5	4	1	3,688,108:75:0	
1421	96	313	00:46:31.533	488AZ6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R5	4	1	3,688,110:54:0	
1422	96	313	02:52:44.200	488AZ6D	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R5	4	1	3,688,235:38:0	
1423	96	313	08:45:00.200	488BA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R5	4	1	3,688,583:74:0	
1424	96	313	09:01:48.200	488BA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R5	4	1	3,688,600:39:0	
1425	96	313	09:34:08.200	488BA6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R5	4	1	3,688,632:37:0	
1426	96	313	10:12:12.200	488BA6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R5	4	1	3,688,670:05:0	
1427	96	313	11:11:56.200	488BA6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R5	4	1	3,688,729:12:0	
1428	96	313	11:48:12.200	488BB6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R5	4	1	3,688,765:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	**96**	**313**	**12:58:02.332**	**C3NNHEALTH07-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1430	**96**	**313**	**13:01:04.332**	**C3NNHEALTH07-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1431	96	313	14:29:58.866		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5424.70 +/-	2R5	4	1	3,688,925:00:0	
1432	96	313	14:29:58.866	411JE6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,688,925:00:0	
1433	96	313	14:30:08.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5425.97 +/-	2R5	4	1	3,688,925:14:3	
1434	96	313	14:30:08.866	411JE6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	3,688,925:15:0	
1435	96	313	14:32:10.200	411JE6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,688,927:15:0	
1436	96	313	14:32:12.866	175TQ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R5	4	1	3,688,927:19:0	
1437	96	313	14:32:13.533	175TQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,688,927:20:0	
1438	96	313	14:32:20.200	175TQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,688,927:30:0	
1439	96	313	14:32:20.200		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5395.08 +/-	2R5	4	1	3,688,927:30:0	
1440	96	313	14:32:21.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5395.02 +/-	2R5	4	1	3,688,927:32:1	
1441	96	313	18:16:28.200	488BC6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R5	4	1	3,689,149:00:0	
1442	96	313	18:52:44.200	488BC6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R5	4	1	3,689,184:79:0	
1443	96	313	19:48:48.133	488BC6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R5	4	1	3,689,240:29:0	
1444	96	313	19:59:36.133	411JF6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,689,251:00:0	
1445	96	313	19:59:36.133		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5395.02 +/-	2R5	4	1	3,689,251:00:0	
1446	96	313	19:59:45.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5396.30 +/-	2R5	4	1	3,689,251:14:3	
1447	96	313	19:59:46.133	411JF6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	3,689,251:15:0	
1448	96	313	20:01:47.466	411JF6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,689,253:15:0	
1449	96	313	20:01:50.133	175TR176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R5	4	1	3,689,253:19:0	
1450	96	313	20:01:50.800	175TR422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,689,253:20:0	
1451	96	313	20:01:57.466	175TR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,689,253:30:0	
1452	96	313	20:01:57.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5365.41 +/-	2R5	4	1	3,689,253:30:0	
1453	96	313	20:01:58.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5365.35 +/-	2R5	4	1	3,689,253:32:1	
1454	96	313	20:20:14.133	488BC6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R5	4	1	3,689,271:37:0	
1455	96	313	21:17:31.466	488BC6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R5	4	1	3,689,328:06:0	
1456	**96**	**313**	**22:26:11.466**	**432SC6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**2R5**	**4**	**1**	**3,689,395:89:0**	
1457	96	313	22:26:47.466	488BD6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R5	4	1	3,689,396:52:0	
1458	96	313	22:34:36.133	488BD6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R5	4	1	3,689,404:27:0	
1459	96	313	22:50:00.133	41SF99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	2R5	4	1	3,689,419:48:0	
1460	**96**	**313**	**22:50:04.133**	**41SF3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,689,419:54:0**	
1461	**96**	**313**	**22:50:14.133**	**41SF3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,689,419:69:0**	
1462	**96**	**313**	**22:52:24.133**	**41SF3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2R5**	**4**	**1**	**3,689,421:82:0**	
1463	**96**	**313**	**22:52:34.133**	**41SF3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2R5**	**4**	**1**	**3,689,422:06:0**	
1464	**96**	**313**	**22:52:44.133**	**41SF3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2R5**	**4**	**1**	**3,689,422:21:0**	
1465	**96**	**313**	**22:52:54.133**	**41SF3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2R5**	**4**	**1**	**3,689,422:36:0**	
1466	96	313	23:07:02.133	490UC412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2R5	4	1	3,689,436:34:0	
1467	96	313	23:10:04.133	20UA4A	7STAT	17.45,2.0,2.25	Stator inertial point	2R5	4	1	3,689,439:34:0	
1468	96	313	23:12:00.133	490UC412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R5	4	1	3,689,441:26:0	
1469	96	313	23:16:10.133	490UC412A4E	7VECT	MVR	Inert vect update UTC	2R5	4	1	3,689,445:37:0	
1470	96	313	23:16:14.133	490UC412A4F	7TURN	1,MVR	ALERT Thruster	2R5	4	1	3,689,445:43:0	
1471	96	313	23:20:02.133	490UC412A406A4A	7STAR	71,701,278.81	Star catalog update	2R5	4	1	3,689,449:21:0	
1472	96	313	23:20:04.133	490UC412A406A4B	7STAR	8,809,78.249,45.	Star catalog update	2R5	4	1	3,689,449:24:0	
1473	96	313	23:20:06.133	490UC412A406A4C	7STAR	9,1785,78.033,-8	Star catalog update	2R5	4	1	3,689,449:27:0	
1474	96	313	23:20:08.133	490UC412A406A4D	7STAR	10,395,305.43	Star catalog update	2R5	4	1	3,689,449:30:0	
1475	96	313	23:20:10.133	490UC412A406A4E	7STAR	11,0,0.0,0.0	Star catalog update	2R5	4	1	3,689,449:33:0	
1476	96	313	23:20:12.133	490UC412A406A4F	7STAR	12,0,0.0,0.0	Star catalog update	2R5	4	1	3,689,449:36:0	
1477	**96**	**313**	**23:38:00.133**	**432SD6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**2R5**	**4**	**1**	**3,689,467:00:0**	
1478	**96**	**314**	**00:06:17.466**	**432SE6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**2R5**	**4**	**1**	**3,689,494:89:0**	
1479	96	314	02:00:00.133	41SG99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	2R5	4	1	3,689,607:40:0	
1480	**96**	**314**	**02:00:04.133**	**41SG3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,689,607:46:0**	
1481	**96**	**314**	**02:00:14.133**	**41SG3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**2R5**	**4**	**1**	**3,689,607:61:0**	
1482	**96**	**314**	**02:00:24.133**	**41SG3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**2R5**	**4**	**1**	**3,689,607:76:0**	
1483	**96**	**314**	**02:00:34.133**	**41SG3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**2R5**	**4**	**1**	**3,689,608:00:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	**96**	**314**	**02:00:44.133**	**41SG3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**2R5**	**4**	**1**	**3,689,608:15:0**	
1485	**96**	**314**	**02:00:54.133**	**41SG3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**2R5**	**4**	**1**	**3,689,608:30:0**	
1486	96	314	02:09:59.466	432OI431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R5	4	1	3,689,617:29:0	
1487	96	314	02:10:00.133	432OI6A	6RTSL1		R/T Select of DDS and	2R5	4	1	3,689,617:30:0	
1488	**96**	**314**	**02:26:51.466**	**432SF6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**2R5**	**4**	**1**	**3,689,634:00:0**	
1489	96	314	02:36:58.133		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5365.35 +/-	2R5	4	1	3,689,644:00:0	
1490	96	314	02:36:58.133	411AD6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,689,644:00:0	
1491	96	314	02:37:07.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5366.62 +/-	2R5	4	1	3,689,644:14:3	
1492	96	314	02:37:08.133	411AD6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	3,689,644:15:0	
1493	96	314	02:39:09.466	411AD6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	3,689,646:15:0	
1494	96	314	02:39:12.133	175TS176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R5	4	1	3,689,646:19:0	
1495	96	314	02:39:12.800	175TS422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	3,689,646:20:0	
1496	96	314	02:39:19.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5335.73 +/-	2R5	4	1	3,689,646:30:0	
1497	96	314	02:39:19.466	175TS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	3,689,646:30:0	
1498	96	314	02:39:20.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5335.67 +/-	2R5	4	1	3,689,646:32:1	
1499	**96**	**314**	**03:01:18.133**	**20EG6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14BC**	**2R5**	**4**	**1**	**3,689,668:06:0**	
1500	**96**	**314**	**03:02:18.800**	**20EG5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R5**	**4**	**1**	**3,689,669:06:0**	
1501	**96**	**314**	**03:03:19.466**	**20EG5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R5**	**4**	**1**	**3,689,670:06:0**	
1502	**96**	**314**	**03:04:20.133**	**20EG6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R5**	**4**	**1**	**3,689,671:06:0**	
1503	**96**	**314**	**03:05:20.800**	**20EG6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R5**	**4**	**1**	**3,689,672:06:0**	
1504	**96**	**314**	**03:06:21.466**	**20EG5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,689,673:06:0**	
1505	**96**	**314**	**03:07:22.133**	**20EG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,689,674:06:0**	
1506	**96**	**314**	**03:08:22.800**	**20EG4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**3,689,675:06:0**	
1507	**96**	**314**	**03:09:23.466**	**20EG4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**3,689,676:06:0**	
1508	**96**	**314**	**03:21:26.133**	**432SG6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**2R3**	**4**	**0**	**3,689,687:89:0**	
1509	96	314	04:11:59.466	165JS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	4	0	3,689,737:89:0	
1510	96	314	04:12:00.133	165JS4B	7SCAN	NORM,115.952,22.	Check S/P Position	2R3	4	0	3,689,737:90:0	
1511	96	314	04:13:57.466	125EO	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	3,689,739:84:0	
1512	96	314	04:13:57.466	125EO11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	3,689,739:84:0	
1513	**96**	**314**	**04:13:57.466**	**125EO4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**3,689,739:84:0**	
1514	96	314	04:14:52.133		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 5335.67 +/-	4R3	4	0	3,689,740:75:0	
1515	96	314	04:14:52.133	175JS422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	3,689,740:75:0	
1516	96	314	04:14:54.800	118JS	**SMOS**	GS		4R3	4	0	3,689,740:79:0	
1517	**96**	**314**	**04:14:58.133**	**127EO4A**	**37IOP**	**1,0**	**Full Map, Grating Start Position =00**	**4R1**	**4**	**0**	**3,689,740:84:0**	
1518	96	314	04:14:58.133	127EO	NIMSTAB	GS	%%%%% GROUP START TAB	4R1	4	0	3,689,740:84:0	
1519	**96**	**314**	**04:14:58.800**	**127EO4B**	**37ETB**		**Loads wavelength edit table**	**4R1**	**4**	**0**	**3,689,740:85:0**	
1520	96	314	04:15:04.133	175JS176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	4R1	4	0	3,689,741:02:0	
1521	96	314	04:15:04.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5330.79 +/-	4R1	4	0	3,689,741:02:1	
1522	96	314	04:15:04.800	118JS110A111A4A	7STRP	0.007,0.0,26,0,0	Slew =,3.01	4R1	4	0	3,689,741:03:0	
1523	96	314	04:15:06.800	127EO11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R1	4	0	3,689,741:06:0	
1524	96	314	04:15:30.800	118JS11A	**SMOS**	GE		4R1	4	0	3,689,741:42:0	
1525	96	314	04:15:38.133		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5211.50 +/-	4R1	4	0	3,689,741:53:0	
1526	96	314	04:15:38.133	175JS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,741:53:0	
1527	96	314	04:15:39.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5210.58 +/-	4R1	4	0	3,689,741:55:1	
1528	96	314	04:16:06.133	165EO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,742:04:0	
1529	96	314	04:16:06.800	165EO4B	7SCAN	NORM,117.221,22.	Check S/P Position	4R1	4	0	3,689,742:05:0	
1530	96	314	04:18:52.800		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 5210.58 +/-	4R1	4	0	3,689,744:72:0	
1531	96	314	04:18:52.800	175EO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R1	4	0	3,689,744:72:0	
1532	96	314	04:18:56.133	117EO	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,689,744:77:0	
1533	96	314	04:19:02.133	175EO176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R1	4	0	3,689,744:86:0	
1534	96	314	04:19:02.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5211.86 +/-	4R1	4	0	3,689,744:86:3	
1535	**96**	**314**	**04:19:02.821**	**C3RNMRING 01-**	**NIMPBK**	**301EO**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**	
1536	96	314	04:19:05.466	117EO105A106A4A	7STRP	-0.019002,0.0,0,	Slew =,0.03	4R1	4	0	3,689,745:00:0	
1537	**96**	**314**	**04:21:10.666**	**C3RNMRING 01-**		**-----START------**		**4R1**	**4**	**0**	**: :**	
1538	**96**	**314**	**04:22:04.821**	**C3RNMRING 01-**	**DESELC**	**300EO**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	**96**	**314**	**04:22:04.821**	**C3RNMRING 01-**	**NIMPBK**	**301EQ**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**	
1540	**96**	**314**	**04:24:04.821**	**C3RNMRING 01-**	**DESELC**	**300EQ**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**	
1541	**96**	**314**	**04:24:06.133**	**C3RNMRING 01-**	**NIMPBK**	**301ES**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**	
1542	**96**	**314**	**04:25:04.733**	**C3RNMRING 01-**	**DESELC**	**300ES**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**	
1543	**96**	**314**	**04:25:06.133**	**C3RNMRING 01-**	**NIMPBK**	**301EW**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**	
1544	**96**	**314**	**04:27:04.000**	**C3RNMRING 01-**	**DESELC**	**300EW**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**	
1545	**96**	**314**	**04:27:05.466**	**C3RNMRING 01-**	**NIMPBK**	**301EY**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**	
1546	**96**	**314**	**04:28:04.821**	**C3RNMRING 01-**	**DESELC**	**300EY**	**MAIN RING OBSERVATION**	**4R1**	**4**	**0**	**: :**	
1547	96	314	04:29:48.800	175EO6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R1	4	0	3,689,755:55:0	
1548	96	314	04:29:48.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5060.34 +/-	4R1	4	0	3,689,755:55:0	
1549	96	314	04:29:48.800	175EO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,755:55:0	
1550	96	314	04:29:50.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5060.28 +/-	4R1	4	0	3,689,755:57:1	
1551	96	314	04:30:12.800	117EO11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,689,756:00:0	
1552	96	314	04:30:14.800	165JT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,756:03:0	
1553	96	314	04:30:15.466	165JT4B	7SCAN	NORM,110.625999,	Check S/P Position	4R1	4	0	3,689,756:04:0	
1554	96	314	04:33:03.466		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 5060.28 +/-	4R1	4	0	3,689,758:74:0	
1555	96	314	04:33:03.466	175SA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,758:74:0	
1556	96	314	04:33:06.800	118JT	**SMOS**	GS		4R1	4	0	3,689,758:79:0	
1557	96	314	04:33:15.466	175SA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,759:01:0	
1558	96	314	04:33:15.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5055.41 +/-	4R1	4	0	3,689,759:01:1	
1559	96	314	04:33:16.800	118JT110A111A4A	7STRP	0.007,0.0,46,0,0	Slew =,3.01	4R1	4	0	3,689,759:03:0	
1560	96	314	04:34:02.800	118JT110A111A4B	7STRP	0.0,-0.007,0,0,0	Slew =,3.01	4R1	4	0	3,689,759:72:0	
1561	96	314	04:34:18.133	118JT110A111A4C	7STRP	0.007,0.0,46,0,0	Slew =,3.01	4R1	4	0	3,689,760:04:0	
1562	96	314	04:34:30.800		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4790.80 +/-	4R1	4	0	3,689,760:23:0	
1563	96	314	04:34:30.800	175SA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,760:23:0	
1564	96	314	04:34:32.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4789.88 +/-	4R1	4	0	3,689,760:25:1	
1565	96	314	04:35:04.133	118JT11A	**SMOS**	GE		4R1	4	0	3,689,760:73:0	
1566	96	314	04:35:14.800	165IY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,760:89:0	
1567	96	314	04:35:15.466	165IY4B	7SCAN	NORM,113.669999,	Check S/P Position	4R1	4	0	3,689,760:90:0	
1568	96	314	04:37:14.800	118IY	**SMOS**	GS		4R1	4	0	3,689,762:87:0	
1569	96	314	04:37:24.800	118IY110A111A4A	7STRP	0.032011,0.03491	Slew =,1.01	4R1	4	0	3,689,763:11:0	
1570	96	314	04:37:52.133	175JT422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,763:52:0	
1571	96	314	04:37:52.133		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4789.88 +/-	4R1	4	0	3,689,763:52:0	
1572	96	314	04:38:04.133	175JT176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,763:70:0	
1573	96	314	04:38:04.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4785.01 +/-	4R1	4	0	3,689,763:70:1	
1574	**96**	**314**	**04:38:22.000**	**C3RNMRING 01-**		**-----STOP-------**		**4R1**	**4**	**0**	**: :**	
1575	96	314	04:38:25.466	118IY11A	**SMOS**	GE		4R1	4	0	3,689,764:11:0	
1576	96	314	04:38:45.466		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4639.93 +/-	4R1	4	0	3,689,764:41:0	
1577	96	314	04:38:45.466	175JT422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,764:41:0	
1578	96	314	04:38:46.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4639.01 +/-	4R1	4	0	3,689,764:43:1	
1579	96	314	04:39:39.466	165IO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,765:31:0	
1580	96	314	04:39:40.133	165IO4B	7SCAN	NORM,107.176,23.	Check S/P Position	4R1	4	0	3,689,765:32:0	
1581	96	314	04:41:12.133	118IO	**SMOS**	GS		4R1	4	0	3,689,766:79:0	
1582	96	314	04:41:22.133	118IO110A111A4A	7STRP	0.00211,0.0,52,0	Slew =,1.01	4R1	4	0	3,689,767:03:0	
1583	96	314	04:41:56.800	118IO110A111A4B	7STRP	-0.0029,0.00255,	Slew =12.01	4R1	4	0	3,689,767:55:0	
1584	96	314	04:42:14.133	118IO110A111A4C	7STRP	0.00211,0.0,52,0	Slew =,1.01	4R1	4	0	3,689,767:81:0	
1585	96	314	04:42:37.466	175SS422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R1	4	0	3,689,768:25:0	
1586	96	314	04:42:37.466		DMS:	: *US-RUNUP	R806, TRACK 2, REV, TIC 4639.01 +/-	4R1	4	0	3,689,768:25:0	
1587	96	314	04:42:48.800	118IO11A	**SMOS**	GE		4R1	4	0	3,689,768:42:0	
1588	96	314	04:42:50.133	175SS176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R1	4	0	3,689,768:44:0	
1589	96	314	04:42:50.733		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *4576.39 +/-	4R1	4	0	3,689,768:44:9	
1590	96	314	04:42:53.466	165JV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,768:49:0	
1591	96	314	04:42:54.133	165JV4B	7SCAN	NORM,114.363999,	Check S/P Position	4R1	4	0	3,689,768:50:0	
1592	96	314	04:42:55.466	175SS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,768:52:0	
1593	96	314	04:42:55.466		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *4459.91 +/-	4R1	4	0	3,689,768:52:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	96	314	04:42:58.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4448.91 +/-	4R1	4	0	3,689,768:56:7	
1595	96	314	04:46:12.133	175JV422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,771:74:0	
1596	96	314	04:46:12.133		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4448.91 +/-	4R1	4	0	3,689,771:74:0	
1597	96	314	04:46:24.133	175JV176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,772:01:0	
1598	96	314	04:46:24.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4444.03 +/-	4R1	4	0	3,689,772:01:1	
1599	96	314	04:46:38.800	175JV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,772:23:0	
1600	96	314	04:46:38.800		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4392.70 +/-	4R1	4	0	3,689,772:23:0	
1601	96	314	04:46:40.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4391.79 +/-	4R1	4	0	3,689,772:25:1	
1602	96	314	04:47:22.800	165II4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,772:89:0	
1603	96	314	04:47:23.466	165II4B	7SCAN	NORM,113.794999,	Check S/P Position	4R1	4	0	3,689,772:90:0	
1604	96	314	04:50:14.800		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4391.79 +/-	4R1	4	0	3,689,775:74:0	
1605	96	314	04:50:14.800	175SV422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,775:74:0	
1606	96	314	04:50:26.800	175SV176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,776:01:0	
1607	96	314	04:50:26.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4386.91 +/-	4R1	4	0	3,689,776:01:1	
1608	96	314	04:50:32.800	175SV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,776:10:0	
1609	96	314	04:50:32.800		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4366.05 +/-	4R1	4	0	3,689,776:10:0	
1610	96	314	04:50:34.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4365.14 +/-	4R1	4	0	3,689,776:12:1	
1611	96	314	04:51:25.466	165IL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,776:89:0	
1612	96	314	04:51:26.133	165IL4B	7SCAN	NORM,113.992,21.	Check S/P Position	4R1	4	0	3,689,776:90:0	
1613	96	314	04:54:17.466		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4365.14 +/-	4R1	4	0	3,689,779:74:0	
1614	96	314	04:54:17.466	175SW422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,779:74:0	
1615	96	314	04:54:29.466	175SW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,780:01:0	
1616	96	314	04:54:29.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4360.26 +/-	4R1	4	0	3,689,780:01:1	
1617	96	314	04:54:35.466	175SW422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,780:10:0	
1618	96	314	04:54:35.466		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4339.40 +/-	4R1	4	0	3,689,780:10:0	
1619	96	314	04:54:36.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4338.48 +/- 1	4R1	4	0	3,689,780:12:1	
1620	96	314	04:54:58.133	165IN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,780:44:0	
1621	96	314	04:54:58.800	165IN4B	7SCAN	NORM,113.98,21.2	Check S/P Position	4R1	4	0	3,689,780:45:0	
1622	96	314	04:59:20.800		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4338.48 +/- 1	4R1	4	0	3,689,784:74:0	
1623	96	314	04:59:20.800	175SX422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,784:74:0	
1624	96	314	04:59:32.800	175SX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,785:01:0	
1625	96	314	04:59:32.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4333.61 +/- 1	4R1	4	0	3,689,785:01:1	
1626	96	314	04:59:38.800	175SX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,785:10:0	
1627	96	314	04:59:38.800		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4312.75 +/- 1	4R1	4	0	3,689,785:10:0	
1628	96	314	04:59:40.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4311.83 +/- 1	4R1	4	0	3,689,785:12:1	
1629	96	314	05:01:02.133	165IM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,786:44:0	
1630	96	314	05:01:02.800	165IM4B	7SCAN	NORM,113.669999,	Check S/P Position	4R1	4	0	3,689,786:45:0	
1631	96	314	05:01:24.133	117IM	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,689,786:77:0	
1632	96	314	05:01:33.466	117IM105A106A4A	7STRP	0.026006,0.0,0,0	Slew =,0.24	4R1	4	0	3,689,787:00:0	
1633	96	314	05:03:23.466	175SM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,788:74:0	
1634	96	314	05:03:23.466		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4311.83 +/- 1	4R1	4	0	3,689,788:74:0	
1635	96	314	05:03:35.466	175SM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,789:01:0	
1636	96	314	05:03:35.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4306.96 +/- 1	4R1	4	0	3,689,789:01:1	
1637	96	314	05:03:50.133	175SM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,789:23:0	
1638	96	314	05:03:50.133		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4255.63 +/- 1	4R1	4	0	3,689,789:23:0	
1639	96	314	05:03:51.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4254.71 +/- 1	4R1	4	0	3,689,789:25:1	
1640	96	314	05:04:04.800	117IM11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,689,789:45:0	
1641	96	314	05:04:07.466	165SO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,789:49:0	
1642	96	314	05:04:08.133	165SO4B	7SCAN	NORM,113.077999,	Check S/P Position	4R1	4	0	3,689,789:50:0	
1643	96	314	05:04:26.133	117SO	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,689,789:77:0	
1644	96	314	05:04:35.466	117SO105A106A4A	7STRP	0.044028,0.0,0,0	Slew =,0.24	4R1	4	0	3,689,790:00:0	
1645	96	314	05:07:26.133	175SN422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,792:74:0	
1646	96	314	05:07:26.133		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4254.71 +/- 1	4R1	4	0	3,689,792:74:0	
1647	96	314	05:07:38.133	175SN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,793:01:0	
1648	96	314	05:07:38.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4249.84 +/- 1	4R1	4	0	3,689,793:01:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	96	314	05:07:52.800		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4198.51 +/- 1	4R1	4	0	3,689,793:23:0	
1650	96	314	05:07:52.800	175SN422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,793:23:0	
1651	96	314	05:07:54.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4197.60 +/- 1	4R1	4	0	3,689,793:25:1	
1652	96	314	05:08:07.466	117SO11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,689,793:45:0	
1653	96	314	05:08:10.133	165IQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,793:49:0	
1654	96	314	05:08:10.800	165IQ4B	7SCAN	NORM,112.773999,	Check S/P Position	4R1	4	0	3,689,793:50:0	
1655	96	314	05:08:28.800	117IQ	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,689,793:77:0	
1656	96	314	05:08:38.133	117IQ105A106A4A	7STRP	0.051044,0.0,0,0	Slew =,0.24	4R1	4	0	3,689,794:00:0	
1657	96	314	05:12:29.466	175SO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,797:74:0	
1658	96	314	05:12:29.466		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4197.60 +/- 1	4R1	4	0	3,689,797:74:0	
1659	96	314	05:12:41.466	175SO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,798:01:0	
1660	96	314	05:12:41.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4192.72 +/- 1	4R1	4	0	3,689,798:01:1	
1661	96	314	05:12:56.133	175SO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,798:23:0	
1662	96	314	05:12:56.133		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4141.39 +/- 1	4R1	4	0	3,689,798:23:0	
1663	96	314	05:12:57.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4140.48 +/- 1	4R1	4	0	3,689,798:25:1	
1664	96	314	05:13:10.800	117IQ11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,689,798:45:0	
1665	96	314	05:13:13.466	165IS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,798:49:0	
1666	96	314	05:13:14.133	165IS4B	7SCAN	NORM,112.724999,	Check S/P Position	4R1	4	0	3,689,798:50:0	
1667	96	314	05:13:32.133	117IS	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,689,798:77:0	
1668	96	314	05:13:41.466	117IS105A106A4A	7STRP	0.051044,0.0,0,0	Slew =,0.24	4R1	4	0	3,689,799:00:0	
1669	96	314	05:17:32.800		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4140.48 +/- 1	4R1	4	0	3,689,802:74:0	
1670	96	314	05:17:32.800	175SP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,802:74:0	
1671	96	314	05:17:44.800	175SP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,803:01:0	
1672	96	314	05:17:44.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4135.60 +/- 1	4R1	4	0	3,689,803:01:1	
1673	96	314	05:17:59.466	175SP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,803:23:0	
1674	96	314	05:17:59.466		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4084.27 +/- 1	4R1	4	0	3,689,803:23:0	
1675	96	314	05:18:00.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4083.36 +/- 1	4R1	4	0	3,689,803:25:1	
1676	96	314	05:18:14.133	117IS11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,689,803:45:0	
1677	96	314	05:18:16.800	165IU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,803:49:0	
1678	96	314	05:18:17.466	165IU4B	7SCAN	NORM,112.922,22.	Check S/P Position	4R1	4	0	3,689,803:50:0	
1679	96	314	05:18:35.466	117IU	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,689,803:77:0	
1680	96	314	05:18:44.800	117IU105A106A4A	7STRP	0.044028,0.0,0,0	Slew =,0.24	4R1	4	0	3,689,804:00:0	
1681	96	314	05:21:35.466		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4083.36 +/- 1	4R1	4	0	3,689,806:74:0	
1682	96	314	05:21:35.466	175SQ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,806:74:0	
1683	96	314	05:21:47.466	175SQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,807:01:0	
1684	96	314	05:21:47.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4078.48 +/- 1	4R1	4	0	3,689,807:01:1	
1685	96	314	05:22:02.133	175SQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,807:23:0	
1686	96	314	05:22:02.133		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *4027.15 +/- 1	4R1	4	0	3,689,807:23:0	
1687	96	314	05:22:03.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4026.24 +/- 1	4R1	4	0	3,689,807:25:1	
1688	96	314	05:22:16.800	117IU11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,689,807:45:0	
1689	96	314	05:23:20.133	165IV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,808:49:0	
1690	96	314	05:23:20.800	165IV4B	7SCAN	NORM,113.391999,	Check S/P Position	4R1	4	0	3,689,808:50:0	
1691	96	314	05:23:38.800	117IV	**CSMOS**	GS	***** GROUP START CSMOS	4R1	4	0	3,689,808:77:0	
1692	96	314	05:23:48.133	117IV105A106A4A	7STRP	0.026006,0.0,0,0	Slew =,0.24	4R1	4	0	3,689,809:00:0	
1693	96	314	05:25:38.133	175SR422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,810:74:0	
1694	96	314	05:25:38.133		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 4026.24 +/- 1	4R1	4	0	3,689,810:74:0	
1695	96	314	05:25:50.133	175SR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,811:01:0	
1696	96	314	05:25:50.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *4021.36 +/- 1	4R1	4	0	3,689,811:01:1	
1697	96	314	05:26:04.800		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *3970.03 +/- 1	4R1	4	0	3,689,811:23:0	
1698	96	314	05:26:04.800	175SR422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,811:23:0	
1699	96	314	05:26:06.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3969.12 +/- 1	4R1	4	0	3,689,811:25:1	
1700	96	314	05:26:19.466	117IV11A	**CSMOS**	GE	***** GROUP END CSMOS	4R1	4	0	3,689,811:45:0	
1701	96	314	05:26:48.800	165JX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,811:89:0	
1702	96	314	05:26:49.466	165JX4B	7SCAN	NORM,103.136,24.	Check S/P Position	4R1	4	0	3,689,811:90:0	
1703	96	314	05:28:55.466	118JX	**SMOS**	GS		4R1	4	0	3,689,814:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	96	314	05:29:38.800	118JX110A111A4A	7STRP	0.0,0.004,92,0,0	Slew =,1.01	4R1	4	0	3,689,814:71:0	
1705	96	314	05:29:56.133	175JX422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R1	4	0	3,689,815:06:0	
1706	96	314	05:29:56.133		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 3969.12 +/- 1	4R1	4	0	3,689,815:06:0	
1707	96	314	05:30:08.133	175JX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R1	4	0	3,689,815:24:0	
1708	96	314	05:30:08.200		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *3964.24 +/- 1	4R1	4	0	3,689,815:24:1	
1709	96	314	05:30:09.466	118JX11A	**SMOS**	GE		4R1	4	0	3,689,815:26:0	
1710	96	314	05:30:23.466	175JX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	4	0	3,689,815:47:0	
1711	96	314	05:30:23.466		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *3910.57 +/- 1	4R1	4	0	3,689,815:47:0	
1712	96	314	05:30:24.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3909.65 +/- 1	4R1	4	0	3,689,815:49:1	
1713	96	314	05:30:51.466	165EP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R1	4	0	3,689,815:89:0	
1714	96	314	05:30:52.133	165EP4B	7SCAN	NORM,115.287999,	Check S/P Position	4R1	4	0	3,689,815:90:0	
1715	96	314	05:31:48.800	127EP	NIMSTAB	GS	%%%%% GROUP START TAB	4R1	4	0	3,689,816:84:0	
1716	**96**	**314**	**05:31:48.800**	**127EP4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,689,816:84:0**	
1717	**96**	**314**	**05:31:49.466**	**127EP4B**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,689,816:85:0**	
1718	96	314	05:31:57.466	127EP11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,689,817:06:0	
1719	96	314	05:33:45.466	117EP	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,689,818:77:0	
1720	96	314	05:33:54.800	117EP105A106A4A	7STRP	-0.01,0.0,0,0,0,	Slew =,0.03	4R3	4	0	3,689,819:00:0	
1721	96	314	05:34:42.800	175EP422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,689,819:72:0	
1722	96	314	05:34:42.800		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 3909.65 +/- 1	4R3	4	0	3,689,819:72:0	
1723	96	314	05:34:52.133	175EP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	3,689,819:86:0	
1724	96	314	05:34:52.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3910.93 +/- 1	4R3	4	0	3,689,819:86:3	
1725	**96**	**314**	**05:34:52.818**	**C3JNOCSPEC01-**	**NIMPBK**	**301EP**	**JUPITER OCCULTATION SPECTRUM**	**4R3**	**4**	**0**	**: :**	
1726	96	314	05:39:52.133	117EP11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	3,689,824:81:0	
1727	**96**	**314**	**05:39:52.151**	**C3JNOCSPEC01-**	**DESELC**	**300EP**	**JUPITER OCCULTATION SPECTRUM**	**4R3**	**4**	**0**	**: :**	
1728	96	314	05:40:58.133	165AQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,689,825:89:0	
1729	96	314	05:40:58.800	165AQ4B	7SCAN	NORM,161.134998,	Check S/P Position	4R3	4	0	3,689,825:90:0	
1730	96	314	05:41:04.133	175EP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	3,689,826:07:0	
1731	96	314	05:41:04.133	175EP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	3,689,826:07:0	
1732	96	314	05:41:04.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3823.79 +/- 1	4R3	4	0	3,689,826:07:0	
1733	96	314	05:41:05.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3823.73 +/- 1	4R3	4	0	3,689,826:09:1	
1734	96	314	05:45:00.800	165AR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	4	0	3,689,829:89:0	
1735	96	314	05:45:01.466	165AR4B	7SCAN	NORM,114.954,21.	Check S/P Position	4R3	4	0	3,689,829:90:0	
1736	96	314	05:46:53.466		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 3823.73 +/- 1	4R3	4	0	3,689,831:76:0	
1737	96	314	05:46:53.466	175AA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	3,689,831:76:0	
1738	96	314	05:46:54.133	117AC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	3,689,831:77:0	
1739	96	314	05:47:02.800	175AA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	3,689,831:90:0	
1740	96	314	05:47:03.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3825.00 +/- 1	4R3	4	0	3,689,831:90:3	
1741	96	314	05:47:03.466	117AC105A106A4A	7STRP	-0.023004,0.0,0,	Slew =,0.02	4R3	4	0	3,689,832:00:0	
1742	**96**	**314**	**05:51:10.000**	**C3JNOCSPEC01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1743	**96**	**314**	**06:01:16.666**	**C3JNOCSPEC01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1744	**96**	**314**	**06:02:08.800**	**125FB4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**463**	**4**	**0**	**3,689,846:84:0**	
1745	96	314	06:02:08.800	125FB	NIMSINIT	GS	##### GROUP START INIT	463	4	0	3,689,846:84:0	
1746	**96**	**314**	**06:02:17.333**	**C3NNNMSAFE01-**		**-----START------**		**463**	**4**	**0**	**: :**	
1747	**96**	**314**	**06:03:09.466**	**125FB4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O3**	**4**	**0**	**3,689,847:84:0**	
1748	**96**	**314**	**06:04:10.133**	**125FB4C**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4O0**	**4**	**0**	**3,689,848:84:0**	
1749	96	314	06:04:10.133	125FB11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	3,689,848:84:0	
1750	**96**	**314**	**06:06:20.000**	**C3NNNMSAFE01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
1751	96	314	06:07:34.133	117AC105A106A4B	7STRP	0.028007,0.04002	Slew =12.01	4O0	4	0	3,689,852:26:0	
1752	96	314	06:08:17.466	117AC105A106A4C	7STRP	-0.023004,0.0,0,	Slew =,0.02	4O0	4	0	3,689,853:00:0	
1753	96	314	06:28:48.133	117AC11A	**CSMOS**	GE	***** GROUP END CSMOS	4O0	4	0	3,689,873:26:0	
1754	96	314	06:29:22.133	117AD	**CSMOS**	GS	***** GROUP START CSMOS	4O0	4	0	3,689,873:77:0	
1755	96	314	06:29:31.466	117AD105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.08	4O0	4	0	3,689,874:00:0	
1756	96	314	06:29:42.133	117AD105A106B4A	7STRP	0.018002,-0.0620	Slew =12.01	4O0	4	0	3,689,874:16:0	
1757	96	314	06:30:42.800	117AD105A106B4B	7STRP	0.004,0.100381,0	Slew =,0.08	4O0	4	0	3,689,875:16:0	
1758	96	314	06:53:57.466	175AA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,689,898:15:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	96	314	06:53:57.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2884.11 +/- 1	4O0	4	0	3,689,898:15:0	
1760	96	314	06:53:58.133	117AD11A	**CSMOS**	GE	***** GROUP END CSMOS	4O0	4	0	3,689,898:16:0	
1761	96	314	06:53:58.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2884.05 +/- 1	4O0	4	0	3,689,898:17:1	
1762	96	314	06:54:50.800	165IP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,689,899:04:0	
1763	96	314	06:54:51.466	165IP4B	7SCAN	NORM,115.698,23.	Check S/P Position	4O0	4	0	3,689,899:05:0	
1764	96	314	06:57:47.466	175IP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	3,689,901:87:0	
1765	96	314	06:57:47.466		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 2884.05 +/- 1	4O0	4	0	3,689,901:87:0	
1766	96	314	06:57:59.466	175IP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4O0	4	0	3,689,902:14:0	
1767	96	314	06:57:59.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2879.18 +/- 1	4O0	4	0	3,689,902:14:1	
1768	96	314	06:58:05.466		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2858.32 +/- 1	4O0	4	0	3,689,902:23:0	
1769	96	314	06:58:05.466	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,689,902:23:0	
1770	96	314	06:58:06.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2857.40 +/- 1	4O0	4	0	3,689,902:25:1	
1771	96	314	06:58:19.466	165IR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,689,902:44:0	
1772	96	314	06:58:20.133	165IR4B	7SCAN	NORM,115.235,23.	Check S/P Position	4O0	4	0	3,689,902:45:0	
1773	**96**	**314**	**07:00:52.133**	**432SJ6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4O0**	**4**	**0**	**3,689,905:00:0**	
1774	96	314	07:02:50.800		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 2857.40 +/- 1	4O0	4	0	3,689,906:87:0	
1775	96	314	07:02:50.800	175IR422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	3,689,906:87:0	
1776	96	314	07:03:02.800	175IR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4O0	4	0	3,689,907:14:0	
1777	96	314	07:03:02.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2852.53 +/- 1	4O0	4	0	3,689,907:14:1	
1778	96	314	07:03:08.800	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,689,907:23:0	
1779	96	314	07:03:08.800		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2831.67 +/- 1	4O0	4	0	3,689,907:23:0	
1780	96	314	07:03:10.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2830.75 +/- 1	4O0	4	0	3,689,907:25:1	
1781	96	314	07:03:56.800	165JE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,689,908:04:0	
1782	96	314	07:03:57.466	165JE4B	7SCAN	NORM,115.198,23.	Check S/P Position	4O0	4	0	3,689,908:05:0	
1783	96	314	07:07:07.466	175IV422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	3,689,911:17:0	
1784	96	314	07:07:07.466		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 2830.75 +/- 1	4O0	4	0	3,689,911:17:0	
1785	96	314	07:07:19.466	175IV176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4O0	4	0	3,689,911:35:0	
1786	96	314	07:07:19.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2825.88 +/- 1	4O0	4	0	3,689,911:35:1	
1787	96	314	07:07:26.800	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,689,911:46:0	
1788	96	314	07:07:26.800		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2800.33 +/- 1	4O0	4	0	3,689,911:46:0	
1789	96	314	07:07:28.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2799.41 +/- 1	4O0	4	0	3,689,911:48:1	
1790	96	314	07:07:55.466	165JA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,689,911:89:0	
1791	96	314	07:07:56.133	165JA4B	7SCAN	NORM,111.900999,	Check S/P Position	4O0	4	0	3,689,911:90:0	
1792	96	314	07:10:47.466	175SY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	3,689,914:74:0	
1793	96	314	07:10:47.466		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 2799.41 +/- 1	4O0	4	0	3,689,914:74:0	
1794	96	314	07:10:50.800	118JA	**SMOS**	GS		4O0	4	0	3,689,914:79:0	
1795	96	314	07:10:59.466	175SY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4O0	4	0	3,689,915:01:0	
1796	96	314	07:10:59.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2794.54 +/- 1	4O0	4	0	3,689,915:01:1	
1797	96	314	07:11:00.800	118JA110A111A4A	7STRP	-0.007,0.0,46,0,	Slew =,3.01	4O0	4	0	3,689,915:03:0	
1798	96	314	07:11:16.133	118JA11A	**SMOS**	GE		4O0	4	0	3,689,915:26:0	
1799	96	314	07:11:29.466		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2689.30 +/- 1	4O0	4	0	3,689,915:46:0	
1800	96	314	07:11:29.466	175SY422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,689,915:46:0	
1801	96	314	07:11:30.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2688.39 +/- 1	4O0	4	0	3,689,915:48:1	
1802	96	314	07:11:58.133	165JY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,689,915:89:0	
1803	96	314	07:11:58.800	165JY4B	7SCAN	NORM,118.629999,	Check S/P Position	4O0	4	0	3,689,915:90:0	
1804	96	314	07:14:50.800		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 2688.39 +/- 1	4O0	4	0	3,689,918:75:0	
1805	96	314	07:14:50.800	175TZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	3,689,918:75:0	
1806	96	314	07:15:02.800	175TZ176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	4O0	4	0	3,689,919:02:0	
1807	96	314	07:15:02.866		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2683.51 +/- 1	4O0	4	0	3,689,919:02:1	
1808	96	314	07:15:10.133	175TZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,689,919:13:0	
1809	96	314	07:15:10.133		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2657.97 +/- 1	4O0	4	0	3,689,919:13:0	
1810	96	314	07:15:11.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2657.05 +/- 1	4O0	4	0	3,689,919:15:1	
1811	96	314	07:16:00.800	165JZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,689,919:89:0	
1812	96	314	07:16:01.466	165JZ4B	7SCAN	NORM,113.44,22.9	Check S/P Position	4O0	4	0	3,689,919:90:0	
1813	96	314	07:18:53.466		DMS:	: *US-RUNUP	R115, TRACK 2, REV, TIC 2657.05 +/- 1	4O0	4	0	3,689,922:75:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1814	96	314	07:18:53.466	175TW422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	3,689,922:75:0	
1815	96	314	07:18:56.133	118JZ	**SMOS**	GS		4O0	4	0	3,689,922:79:0	
1816	96	314	07:19:05.466	175TW176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	4O0	4	0	3,689,923:02:0	
1817	96	314	07:19:05.533		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2652.17 +/- 2	4O0	4	0	3,689,923:02:1	
1818	96	314	07:19:06.133	118JZ110A111A4A	7STRP	-0.007,0.0,26,0,	Slew =,3.01	4O0	4	0	3,689,923:03:0	
1819	96	314	07:19:32.133	118JZ11A	**SMOS**	GE		4O0	4	0	3,689,923:42:0	
1820	96	314	07:19:39.466		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2532.88 +/- 2	4O0	4	0	3,689,923:53:0	
1821	96	314	07:19:39.466	175TW422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,689,923:53:0	
1822	96	314	07:19:40.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2531.96 +/- 2	4O0	4	0	3,689,923:55:1	
1823	96	314	07:21:12.800	20KM4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,689,925:11:0	
1824	**96**	**314**	**07:28:08.800**	**432SK6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**4O0**	**4**	**0**	**3,689,931:89:0**	
1825	96	314	08:02:32.800	411AE6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,689,966:00:0	
1826	96	314	08:02:32.800		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2531.96 +/- 2	4O0	4	0	3,689,966:00:0	
1827	96	314	08:02:42.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2533.24 +/- 2	4O0	4	0	3,689,966:14:3	
1828	96	314	08:02:42.800	411AE6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4O0	4	0	3,689,966:15:0	
1829	96	314	08:04:44.133	411AE6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	3,689,968:15:0	
1830	96	314	08:04:46.800	175TT176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	3,689,968:19:0	
1831	96	314	08:04:47.466	175TT422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,689,968:20:0	
1832	96	314	08:04:54.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2502.35 +/- 2	4O0	4	0	3,689,968:30:0	
1833	96	314	08:04:54.133	175TT422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,689,968:30:0	
1834	96	314	08:04:55.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2502.29 +/- 2	4O0	4	0	3,689,968:32:1	
1835	**96**	**314**	**08:39:57.466**	**432SL6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4O0**	**4**	**0**	**3,690,003:00:0**	
1836	96	314	09:50:00.133	41SH99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4O0	4	0	3,690,072:25:0	
1837	**96**	**314**	**09:50:04.133**	**41SH3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,690,072:31:0**	
1838	**96**	**314**	**09:50:14.133**	**41SH3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,690,072:46:0**	
1839	**96**	**314**	**09:52:24.133**	**41SH3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,690,074:59:0**	
1840	**96**	**314**	**09:52:34.133**	**41SH3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,690,074:74:0**	
1841	**96**	**314**	**09:52:44.133**	**41SH3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,690,074:89:0**	
1842	**96**	**314**	**09:52:54.133**	**41SH3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,690,075:13:0**	
1843	**96**	**314**	**10:01:50.133**	**432SM6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**4O0**	**4**	**0**	**3,690,083:89:0**	
1844	96	314	10:07:02.133	490UD412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,690,089:11:0	
1845	96	314	10:10:04.133	20UC4A	7STAT	17.45,102.8,25.0	Stator inertial point	4O0	4	0	3,690,092:11:0	
1846	96	314	10:12:00.133	490UD412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,690,094:03:0	
1847	96	314	10:16:10.133	490UD412A4E	7VECT		Inert vect update UTC	4O0	4	0	3,690,098:14:0	
1848	96	314	10:16:14.133	490UD412A4F	7TURN	1,RTH	ALERT Thruster	4O0	4	0	3,690,098:20:0	
1849	96	314	10:20:02.133	490UD412A406A4A	7STAR	1,3000,95.710999	Star catalog update	4O0	4	0	3,690,101:89:0	
1850	96	314	10:20:04.133	490UD412A406A4B	7STAR	2,131,322.01	Star catalog update	4O0	4	0	3,690,102:01:0	
1851	96	314	10:20:06.133	490UD412A406A4C	7STAR	3,396,206.39	Star catalog update	4O0	4	0	3,690,102:04:0	
1852	96	314	10:20:08.133	490UD412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	4O0	4	0	3,690,102:07:0	
1853	96	314	10:20:10.133	490UD412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	3,690,102:10:0	
1854	96	314	10:20:12.133	490UD412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	3,690,102:13:0	
1855	**96**	**314**	**11:00:30.133**	**432SN6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**4O0**	**4**	**0**	**3,690,142:00:0**	
1856	96	314	12:09:44.133	488BE6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,690,210:43:0	
1857	96	314	13:00:00.133	41SI99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	3,690,260:17:0	
1858	**96**	**314**	**13:00:04.133**	**41SI3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,690,260:23:0**	
1859	**96**	**314**	**13:00:14.133**	**41SI3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,690,260:38:0**	
1860	**96**	**314**	**13:00:24.133**	**41SI3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,690,260:53:0**	
1861	**96**	**314**	**13:00:34.133**	**41SI3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,690,260:68:0**	
1862	**96**	**314**	**13:00:44.133**	**41SI3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,690,260:83:0**	
1863	**96**	**314**	**13:00:54.133**	**41SI3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,690,261:07:0**	
1864	96	314	13:05:13.466	488BE6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,690,265:32:0	
1865	96	314	13:09:59.466	432OK431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	3,690,270:06:0	
1866	96	314	13:10:00.133	432OK6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,690,270:07:0	
1867	96	314	13:11:56.800	411AF6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,690,272:00:0	
1868	96	314	13:11:56.800		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2502.29 +/- 2	4O0	4	0	3,690,272:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	96	314	13:12:06.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2503.56 +/- 2	4O0	4	0	3,690,272:14:3	
1870	96	314	13:12:06.800	411AF6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4O0	4	0	3,690,272:15:0	
1871	96	314	13:13:32.133	488BE6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,690,273:52:0	
1872	96	314	13:14:08.133	411AF6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	3,690,274:15:0	
1873	96	314	13:14:10.800	175TU176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	3,690,274:19:0	
1874	96	314	13:14:11.466	175TU422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,690,274:20:0	
1875	96	314	13:14:18.133	175TU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,690,274:30:0	
1876	96	314	13:14:18.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2472.67 +/- 2	4O0	4	0	3,690,274:30:0	
1877	96	314	13:14:19.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2472.61 +/- 2	4O0	4	0	3,690,274:32:1	
1878	96	314	14:07:36.133	488BE6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,690,327:04:0	
1879	96	314	17:16:44.133	488BE6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,690,514:09:0	
1880	96	314	17:46:24.800	488BF6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,690,543:41:0	
1881	96	314	18:29:16.133	488BF6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,690,585:76:0	
1882	96	314	19:13:40.133	488BF6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,690,629:68:0	
1883	96	314	19:50:22.133	488BF6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,690,666:04:0	
1884	96	314	20:35:08.133	488BF6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,690,710:29:0	
1885	96	314	20:41:22.133	488BG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,690,716:44:0	
1886	96	314	22:34:36.133	488BG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,690,828:43:0	
1887	96	314	23:06:36.133	488BG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,690,860:11:0	
1888	96	314	23:45:00.133	488BG6D	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	3,690,898:09:0	
1889	96	315	00:21:28.800	488BG6E	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	4O0	4	0	3,690,934:16:0	
1890	96	315	00:36:12.133	488BH6A	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	4O0	4	0	3,690,948:67:0	
1891	96	315	00:40:51.466	488BH6B	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4O0	4	0	3,690,953:31:0	
1892	96	315	02:42:04.066	488BH6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	3,691,073:20:0	
1893	96	315	03:00:10.066	20A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,691,091:11:0	
1894	96	315	06:45:00.066	488BI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,691,313:44:0	
1895	96	315	06:49:32.066	488BI6B	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,691,317:88:0	
1896	96	315	06:50:00.066	41SJ99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4O0	4	0	3,691,318:39:0	
1897	96	315	06:50:00.066	488BI6C	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	4O0	4	0	3,691,318:39:0	
1898	**96**	**315**	**06:50:04.066**	**41SJ3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,691,318:45:0**	
1899	**96**	**315**	**06:50:14.066**	**41SJ3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,691,318:60:0**	
1900	**96**	**315**	**06:52:24.066**	**41SJ3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,691,320:73:0**	
1901	**96**	**315**	**06:52:34.066**	**41SJ3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,691,320:88:0**	
1902	**96**	**315**	**06:52:44.066**	**41SJ3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,691,321:12:0**	
1903	**96**	**315**	**06:52:54.066**	**41SJ3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,691,321:27:0**	
1904	96	315	07:14:00.066	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,691,342:15:0	
1905	96	315	07:16:00.066	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,691,344:13:0	
1906	96	315	07:20:14.066	474AA416A4E	**7BURN**	**0.217299,-64.978**	ALERT -- Thruster fire	4O0	4	0	3,691,348:30:0	
1907	96	315	08:33:32.066	474AA416A4I	**7BURN**	**0.217299,-64.978**	ALERT -- Thruster fire	4O0	4	0	3,691,420:75:0	
1908	96	315	16:00:00.066	41SK99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	3,691,862:35:0	
1909	**96**	**315**	**16:00:04.066**	**41SK3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,691,862:41:0**	
1910	**96**	**315**	**16:00:14.066**	**41SK3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,691,862:56:0**	
1911	**96**	**315**	**16:00:24.066**	**41SK3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,691,862:71:0**	
1912	**96**	**315**	**16:00:34.066**	**41SK3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,691,862:86:0**	
1913	**96**	**315**	**16:00:44.066**	**41SK3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,691,863:10:0**	
1914	**96**	**315**	**16:00:54.066**	**41SK3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,691,863:25:0**	
1915	96	315	16:02:04.066	488BJ6A	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	4O0	4	0	3,691,864:39:0	
1916	96	315	16:09:29.400	432OC431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	3,691,871:70:0	
1917	96	315	16:09:30.066	432OC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	3,691,871:71:0	
1918	96	315	16:09:43.400		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2472.61 +/- 2	4O0	4	0	3,691,872:00:0	
1919	96	315	16:09:43.400	411JJ6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,691,872:00:0	
1920	96	315	16:09:52.933		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2473.89 +/- 2	4O0	4	0	3,691,872:14:3	
1921	96	315	16:09:53.400	411JJ6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4O0	4	0	3,691,872:15:0	
1922	96	315	16:11:00.066	488BJ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,691,873:24:0	
1923	96	315	16:11:54.733	411JJ6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	3,691,874:15:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1924	96	315	16:11:55.400	411JJ6D	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,691,874:16:0	
1925	96	315	16:11:55.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2445.18 +/- 2	4O0	4	0	3,691,874:16:0	
1926	96	315	16:11:56.800		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2445.12 +/- 2	4O0	4	0	3,691,874:18:1	
1927	96	315	18:02:30.733	488BJ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,691,983:50:0	
1928	96	315	18:16:28.066	488BJ6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,691,997:32:0	
1929	96	315	18:52:44.066	488BJ6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,692,033:20:0	
1930	96	315	19:38:32.733	488BK6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,692,078:48:0	
1931	96	315	20:15:29.400	488BK6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,692,115:06:0	
1932	96	315	21:12:46.066	488BK6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,692,171:65:0	
1933	96	315	22:28:12.066	488BK6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,692,246:29:0	
1934	96	315	23:00:12.066	488BK6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,692,277:88:0	
1935	96	316	00:34:04.066	488BL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,692,370:73:0	
1936	**96**	**316**	**02:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**	
1937	**96**	**316**	**02:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,692,455:71:9**	
1938	**96**	**316**	**02:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**	
1939	**96**	**316**	**02:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**	
1940	**96**	**316**	**02:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**	
1941	**96**	**316**	**02:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,692,455:71:9**	
1942	**96**	**316**	**02:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,692,455:71:9**	
1943	**96**	**316**	**02:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**	
1944	**96**	**316**	**02:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**	
1945	96	316	02:00:00.066		DMS:	: READY	RDY, TRACK 2, REV, TIC 2445.12 +/- 2	4O0	4	0	3,692,455:72:0	

Sequence:	C03B-AR	Created: 12/5/96	Begin: 96-316/02:00:00 Finish: 96-332/16:30:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	**96**	**316**	**02:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,692,455:71:9**
2	**96**	**316**	**02:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**3,692,455:71:9**
3	**96**	**316**	**02:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**
4	**96**	**316**	**02:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**
5	**96**	**316**	**02:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**
6	**96**	**316**	**02:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**
7	**96**	**316**	**02:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**
8	**96**	**316**	**02:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,455:71:9**
9	**96**	**316**	**02:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**3,692,455:71:9**
10	96	316	02:00:00.066		DMS:	: READY	RDY, TRACK 2, REV, TIC 2420.00 +/- 2	4O0	4	0	3,692,455:72:0
11	96	316	02:01:12.733	432LA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	3,692,456:90:0
12	96	316	02:01:13.400	432LA6B	6RTSL1		R/T Select of DDS and	4O0	4	0	3,692,457:00:0
13	**96**	**316**	**02:01:13.400**	**432LA6C**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECTR/T ENG SELECT**	**4O0**	**4**	**0**	**3,692,457:00:0**
14	96	316	02:01:32.066	488AA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,692,457:28:0
15	96	316	02:02:00.066	488AA6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,692,457:70:0
16	96	316	02:02:00.066	418SA6A	6BUFLO	2	MUB Buffer low water m	4O0	4	0	3,692,457:70:0
17	96	316	02:02:00.066	418SA6B	6BUFHI	10	MUB Buffer high water	4O0	4	0	3,692,457:70:0
18	96	316	02:18:28.733	41SH99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	4O0	4	0	3,692,474:06:0
19	**96**	**316**	**02:18:32.733**	**41SH3G**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,474:12:0**
20	**96**	**316**	**02:18:42.733**	**41SH3H**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,474:27:0**
21	**96**	**316**	**02:18:52.733**	**41SH3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,474:42:0**
22	**96**	**316**	**02:19:02.733**	**41SH3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,474:57:0**
23	**96**	**316**	**02:19:12.733**	**41SH3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,692,474:72:0**
24	**96**	**316**	**02:19:22.733**	**41SH3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,692,474:87:0**
25	96	316	02:30:22.733		DMS:	: *US-RUNUP	R7, TRACK 2, REV, TIC 2420.00 +/- 2	4O0	4	0	3,692,485:76:0
26	96	316	02:30:22.733	175ZQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	3,692,485:76:0
27	96	316	02:30:32.066	175ZQ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	3,692,485:90:0
28	96	316	02:30:32.266		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2421.28 +/- 2	4O0	4	0	3,692,485:90:3
29	96	316	02:35:39.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2349.29 +/- 2	4O0	4	0	3,692,491:05:0
30	96	316	02:35:39.400	175ZQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	3,692,491:05:0
31	96	316	02:38:42.066	41SI99A	**POWER**	**PWR MODE change**	Change to Playback Mode	4O0	4	0	3,692,494:06:0
32	**96**	**316**	**02:38:46.066**	**41SI3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,494:12:0**
33	**96**	**316**	**02:38:56.066**	**41SI3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,494:27:0**
34	**96**	**316**	**02:39:06.066**	**41SI3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,692,494:42:0**
35	**96**	**316**	**02:39:16.066**	**41SI3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,692,494:57:0**
36	**96**	**316**	**02:41:26.066**	**41SI3G**	**37F2P**	**1**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,692,496:70:0**
37	**96**	**316**	**02:41:36.066**	**41SI3H**	**37F2P**	**2**	**Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,692,496:85:0**
38	96	316	02:50:00.066	444UA443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,692,505:22:0
39	96	316	02:55:04.066	20UK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,692,510:23:0
40	96	316	02:55:54.066	20UK4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,692,511:07:0
41	96	316	02:57:50.733	176UA6A	6TMREC	**IPB**	INITIATE PLAYBACK (PB CONTROL) Record Mod	4O0	4	0	3,692,513:00:0
42	**96**	**316**	**03:46:00.066**	**20DC3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,560:57:0**
43	**96**	**316**	**03:46:04.066**	**20DC3B**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,692,560:63:0**
44	**96**	**316**	**03:46:10.066**	**20DC3C**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,692,560:72:0**
45	**96**	**316**	**03:46:14.066**	**20DC3D**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,692,560:78:0**
46	**96**	**316**	**03:46:20.066**	**20DC3E**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,692,560:87:0**
47	**96**	**316**	**03:46:24.066**	**20DC3F**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,692,561:02:0**
48	96	316	03:58:00.733	488AA6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,692,572:46:0
49	96	316	04:11:40.066	488AA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,692,586:01:0
50	96	316	08:00:00.000	418JA6A	6BUFHI	4	MUB Buffer high water	4O0	4	0	3,692,811:76:0
51	96	316	09:16:44.000	488AB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,692,887:66:0
52	96	316	10:40:50.666	488AB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,692,970:83:0
53	96	316	10:42:04.000	488AB6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,692,972:11:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	316	11:18:20.000	488AB6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,693,007	90:0
55	96	316	12:28:26.666	488AB6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,693,077	30:0
56	96	316	13:00:34.666	488AC6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,693,109	10:0
57	96	316	13:57:51.333	488AC6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,693,165	69:0
58	96	316	17:50:56.666	488AC6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,693,396	26:0
59	96	316	17:57:16.000	488AC6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,693,402	49:0
60	**96**	**316**	**18:30:04.000**	**432KF6B**	**6RTDS2**	**NIMNCG,AACDSL,RT**	**AACS DESELECT**	**4O0**	**4**	**0**	**3,693,434**	**89:0**
61	96	316	18:33:32.000	488AC6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,693,438	37:0
62	96	316	18:53:26.000	488AD6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,693,458	08:0
63	96	316	19:29:00.000	488AD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,693,493	24:0
64	96	316	19:48:57.333	176UB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,693,513	00:0
65	96	316	19:50:00.000	41SB99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	4O0	4	0	3,693,514	03:0
66	**96**	**316**	**19:50:04.000**	**41SB3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,693,514**	**09:0**
67	**96**	**316**	**19:50:14.000**	**41SB3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,693,514**	**24:0**
68	96	316	19:51:50.666	488AD6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,693,515	78:0
69	96	316	19:52:00.000	488AD6D	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	4O0	4	0	3,693,516	01:0
70	**96**	**316**	**19:52:24.000**	**41SB3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,693,516**	**37:0**
71	**96**	**316**	**19:52:34.000**	**41SB3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,693,516**	**52:0**
72	**96**	**316**	**19:52:44.000**	**41SB3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,693,516**	**67:0**
73	**96**	**316**	**19:52:54.000**	**41SB3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,693,516**	**82:0**
74	96	316	20:25:58.666	488AD6E	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	3,693,549	56:0
75	96	316	20:26:02.000	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	3,693,549	61:0
76	96	316	20:31:00.000	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,693,554	53:0
77	96	316	20:35:10.000	490UA412A4E	7VECT	RTH	Inert vect update UTC	4O0	4	0	3,693,558	64:0
78	96	316	20:35:14.000	490UA412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	3,693,558	70:0
79	96	316	20:39:02.000	490UA412A406A4A	7STAR	1,3000,95.710999	Star catalog update	4O0	4	0	3,693,562	48:0
80	96	316	20:39:04.000	490UA412A406A4B	7STAR	2,131,322.01	Star catalog update	4O0	4	0	3,693,562	51:0
81	96	316	20:39:06.000	490UA412A406A4C	7STAR	3,396,206.39	Star catalog update	4O0	4	0	3,693,562	54:0
82	96	316	20:39:08.000	490UA412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	4O0	4	0	3,693,562	57:0
83	96	316	20:39:10.000	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	3,693,562	60:0
84	96	316	20:39:12.000	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	3,693,562	63:0
85	96	316	21:13:32.000	488AE6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	3,693,596	59:0
86	96	316	21:47:12.666	490UA412A4L	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,693,629	87:0
87	96	316	22:08:00.000	20UE4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,693,650	47:0
88	96	316	22:09:00.000	20UE4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	3,693,651	46:0
89	96	316	22:11:00.000	20UE4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,693,653	44:0
90	96	316	22:16:30.000	20UE4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	3,693,658	84:0
91	96	316	22:16:30.666	20UE4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	3,693,658	85:0
92	96	316	22:16:50.666	20UE4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	3,693,659	24:0
93	96	316	22:16:51.333	20UE4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	3,693,659	25:0
94	96	316	22:17:11.333	20UE4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,693,659	55:0
95	96	316	22:17:12.000	20UE4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,693,659	56:0
96	96	316	22:17:22.000	20UE4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	3,693,659	71:0
97	96	316	22:17:22.666	20UE4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	3,693,659	72:0
98	96	316	22:17:32.666	20UE4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	3,693,659	87:0
99	96	316	22:17:33.333	20UE4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	3,693,659	88:0
100	96	316	22:19:20.000	20UE4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	3,693,661	66:0
101	96	316	22:19:20.666	20UE4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	3,693,661	67:0
102	96	316	22:19:40.666	20UE4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	3,693,662	06:0
103	96	316	22:19:41.333	20UE4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	3,693,662	07:0
104	96	316	22:20:01.333	20UE4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	3,693,662	37:0
105	96	316	22:20:02.000	20UE4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	3,693,662	38:0
106	96	316	22:20:58.666	20UE4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	3,693,663	32:0
107	96	316	22:38:52.000	488AE6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	3,693,681	04:0
108	96	316	23:00:00.000	418JB6A	6BUFHI	10	MUB Buffer high water	4O0	4	0	3,693,701	86:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	96	316	23:10:00.000	488AE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,693,711:76:0	
110	96	316	23:10:00.000	41SC99A	**POWER**	**PWR MODE change**	Change to Playback Mode	4O0	4	0	3,693,711:76:0	
111	**96**	**316**	**23:10:04.000**	**41SC3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,693,711:82:0**	
112	**96**	**316**	**23:10:14.000**	**41SC3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,693,712:06:0**	
113	**96**	**316**	**23:10:24.000**	**41SC3K**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,693,712:21:0**	
114	**96**	**316**	**23:10:34.000**	**41SC3L**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,693,712:36:0**	
115	96	316	23:10:52.000	488AE6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,693,712:63:0	
116	**96**	**316**	**23:12:44.000**	**41SC3G**	**37F2P**		**1 Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,693,714:49:0**	
117	**96**	**316**	**23:12:54.000**	**41SC3H**	**37F2P**		**2 Shield Flash Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,693,714:64:0**	
118	**96**	**316**	**23:20:00.000**	**20DD3A**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,693,721:66:0**	
119	**96**	**316**	**23:20:04.000**	**20DD3B**	**37F2PR**		**2 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,693,721:72:0**	
120	**96**	**316**	**23:20:10.000**	**20DD3C**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,693,721:81:0**	
121	**96**	**316**	**23:20:14.000**	**20DD3D**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**3,693,721:87:0**	
122	**96**	**316**	**23:20:20.000**	**20DD3E**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,693,722:05:0**	
123	**96**	**316**	**23:20:24.000**	**20DD3F**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**3,693,722:11:0**	
124	96	316	23:24:04.000	20UA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,693,725:68:0	
125	96	316	23:24:54.000	20UA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,693,726:52:0	
126	96	316	23:29:22.666	176UC6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,693,731:00:0	
127	96	317	00:53:16.000	488AE6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,693,813:88:0	
128	96	317	02:05:48.000	488AF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,693,885:64:0	
129	96	317	09:16:44.000	488AG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,694,311:82:0	
130	96	317	10:36:38.666	488AG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,694,390:85:0	
131	96	317	10:42:04.000	488AG6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,694,396:27:0	
132	96	317	11:53:20.666	488AG6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,694,466:72:0	
133	96	317	12:54:20.000	488AG6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,694,527:10:0	
134	**96**	**317**	**13:15:32.623**	**C3NNRCTRLT01-**		**-----START------**		**4O0**	**4**	**0**	**: :**	
135	**96**	**317**	**13:45:52.623**	**C3NNRCTRLT01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
136	96	317	17:20:59.933	488AH6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,694,790:77:0	
137	96	317	17:56:00.600	488AH6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,694,825:43:0	
138	96	317	19:18:19.933	488AH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,694,906:81:0	
139	96	317	19:22:41.933	488AH6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,694,911:19:0	
140	96	317	20:43:39.933	488AH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,694,991:26:0	
141	96	317	22:34:35.933	488AI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	3,695,101:00:0	
142	96	317	23:06:35.933	488AI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,695,132:59:0	
143	96	318	00:27:39.933	488AI6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	3,695,212:75:0	
144	96	318	02:31:23.933	488AI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,695,335:18:0	
145	96	318	09:16:43.933	488AJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,695,736:07:0	
146	96	318	10:42:03.933	488AJ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,695,820:43:0	
147	96	318	10:50:54.600	488AJ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,695,829:20:0	
148	96	318	11:48:13.933	488AJ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,695,885:83:0	
149	96	318	12:39:23.933	488AJ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,695,936:47:0	
150	96	318	17:31:39.933	488AK6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,696,225:52:0	
151	96	318	17:55:53.266	488AK6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,696,249:48:0	
152	96	318	19:03:11.933	488AK6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,696,316:09:0	
153	96	318	20:09:32.533	488AK6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,696,381:65:0	
154	96	318	20:12:04.533	488AK6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,696,384:20:0	
155	96	318	20:48:52.533	488AL6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,696,420:56:0	
156	96	318	22:45:01.200	488AL6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	3,696,535:44:0	
157	96	318	23:37:21.200	488AL6C	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	3,696,587:22:0	
158	96	319	00:57:41.200	488AL6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,696,666:63:0	
159	96	319	01:01:47.866	488AL6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,696,670:69:0	
160	96	319	01:18:17.200	41SJ99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	4O0	4	0	3,696,687:06:0	
161	**96**	**319**	**01:18:21.200**	**41SJ3G**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,696,687:12:0**	
162	**96**	**319**	**01:18:31.200**	**41SJ3H**	**37F2PR**		**2 Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**3,696,687:27:0**	
163	**96**	**319**	**01:18:41.200**	**41SJ3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,696,687:42:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	**96**	**319**	**01:18:51.200**	**41SJ3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**3,696,687:57:0**	
165	**96**	**319**	**01:19:01.200**	**41SJ3K**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,696,687:72:0**	
166	**96**	**319**	**01:19:11.200**	**41SJ3L**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**3,696,687:87:0**	
167	96	319	01:29:20.533	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	3,696,698:00:0	
168	96	319	01:32:26.533	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	3,696,701:06:0	
169	96	319	01:36:33.200	20UL4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	3,696,705:12:0	
170	96	319	01:37:23.200	20UL4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	3,696,705:87:0	
171	96	319	01:39:27.200	176XV6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	3,696,708:00:0	
172	**96**	**319**	**01:40:27.866**	**185XE10A3A**	**40HRP**		**1 RCT Heater ON (primary relay)**	**4O0**	**4**	**0**	**3,696,709:00:0**	
173	96	319	02:04:21.200	488AM6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,696,732:57:0	
174	96	319	02:16:27.866	488AM6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,696,744:55:0	
175	96	319	03:09:11.200	488AM6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,696,796:68:0	
176	96	319	03:10:55.866	488AM6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,696,798:43:0	
177	96	319	05:02:51.866	488AM6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,696,909:16:0	
178	96	319	05:05:29.866	488AN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	3,696,911:71:0	
179	96	319	09:10:19.866	488AN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,697,153:84:0	
180	96	319	10:38:58.533	488AN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	3,697,241:54:0	
181	96	319	10:42:03.866	488AN6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,697,244:59:0	
182	96	319	11:18:19.866	488AO6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	3,697,280:47:0	
183	96	319	13:35:14.533	125XE	NIMSINIT	GS	##### GROUP START INIT	4O0	4	0	3,697,415:84:0	
184	**96**	**319**	**13:35:14.533**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,697,415:84:0**	
185	**96**	**319**	**13:36:15.200**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**4R0**	**4**	**0**	**3,697,416:84:0**	
186	**96**	**319**	**13:37:15.866**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**3,697,417:84:0**	
187	**96**	**319**	**13:38:16.533**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,697,418:84:0**	
188	96	319	13:38:16.533	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	3,697,418:84:0	
189	**96**	**319**	**13:40:17.866**	**127XE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**3,697,420:84:0**	
190	96	319	13:40:17.866	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	3,697,420:84:0	
191	**96**	**319**	**13:40:18.533**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**3,697,420:85:0**	
192	96	319	13:40:26.533	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	3,697,421:06:0	
193	96	319	13:47:27.200	176XE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	3,697,428:00:0	
194	96	319	13:50:29.200	192XE4A	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	3,697,431:00:0	
195	**96**	**319**	**13:52:50.533**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,697,433:30:0**	
196	**96**	**319**	**13:53:49.866**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,697,434:28:0**	
197	96	319	13:56:33.200	192XE4B	**7CONE**	**17.0,0.0**	Check S/P Position	1R3	4	0	3,697,437:00:0	
198	**96**	**319**	**13:58:54.533**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,697,439:30:0**	
199	**96**	**319**	**14:00:54.533**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,697,441:28:0**	
200	96	319	14:02:37.200	192XE4C	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	3,697,443:00:0	
201	**96**	**319**	**14:04:38.533**	**185XE10B3A**	**40HRPR**		**1 RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**3,697,445:00:0**	
202	**96**	**319**	**14:04:58.533**	**432XW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,697,445:30:0**	
203	**96**	**319**	**14:05:57.866**	**432XY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,697,446:28:0**	
204	96	319	14:08:41.200	192XE4D	**7CONE**	**17.0,153.0**	Check S/P Position	1R3	4	0	3,697,449:00:0	
205	**96**	**319**	**14:09:37.200**	**127XF4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**1R0**	**4**	**0**	**3,697,449:84:0**	
206	96	319	14:09:37.200	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	3,697,449:84:0	
207	**96**	**319**	**14:09:37.866**	**127XF4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**1R0**	**4**	**0**	**3,697,449:85:0**	
208	96	319	14:09:45.866	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R0	4	0	3,697,450:06:0	
209	**96**	**319**	**14:12:39.200**	**125XF4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,697,452:84:0**	
210	96	319	14:12:39.200	125XF	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	3,697,452:84:0	
211	**96**	**319**	**14:13:39.866**	**125XF4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**3,697,453:84:0**	
212	**96**	**319**	**14:14:40.533**	**125XF4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**1O0**	**4**	**0**	**3,697,454:84:0**	
213	96	319	14:14:40.533	125XF11A	NIMSINIT	GE	##### GROUP END INIT	1O0	4	0	3,697,454:84:0	
214	96	319	14:19:06.533	488AO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,697,459:28:0	
215	96	319	14:20:53.200	41SK99A	**POWER**	**PWR MODE change**	Change to Playback Mode	1O0	4	0	3,697,461:06:0	
216	**96**	**319**	**14:20:57.200**	**41SK3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,697,461:12:0**	
217	**96**	**319**	**14:21:07.200**	**41SK3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,697,461:27:0**	
218	**96**	**319**	**14:21:17.200**	**41SK3K**	**40T2R**		**1 PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,697,461:42:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	**96**	**319**	**14:21:27.200**	**41SK3L**	**40T2R**		**2 PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,697,461:57:0**	
220	**96**	**319**	**14:23:37.200**	**41SK3G**	**37F2P**		**1 Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,697,463:70:0**	
221	**96**	**319**	**14:23:47.200**	**41SK3H**	**37F2P**		**2 Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,697,463:85:0**	
222	96	319	14:31:03.866	20UM4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,697,471:12:0	
223	96	319	14:31:53.866	20UM4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,697,471:87:0	
224	96	319	14:33:57.866	176XF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,697,474:00:0	
225	96	319	17:35:55.866	488AP6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,697,653:88:0	
226	96	319	17:55:47.200	488AP6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,697,673:55:0	
227	96	319	18:14:19.866	488AP6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,697,691:86:0	
228	96	319	22:17:43.200	488AP6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,697,932:60:0	
229	96	319	22:55:55.866	488AP6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,697,970:41:0	
230	96	320	00:23:23.866	488AQ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,698,056:87:0	
231	96	320	02:24:59.800	488AQ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,698,177:20:0	
232	96	320	09:10:19.800	488AR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,698,578:09:0	
233	96	320	10:39:55.800	488AR6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,698,666:65:0	
234	96	320	10:45:41.133	488AR6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,698,672:37:0	
235	96	320	11:38:01.133	488AR6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,698,724:15:0	
236	96	320	12:18:03.800	488AR6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,698,763:70:0	
237	96	320	17:35:55.800	488AS6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,699,078:13:0	
238	96	320	17:50:40.466	488AS6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,699,092:66:0	
239	96	320	18:52:59.133	488AS6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,699,154:32:0	
240	96	320	19:43:55.800	488AS6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,699,204:67:0	
241	96	320	20:07:17.800	488AS6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,699,227:77:0	
242	96	320	20:44:05.800	488AT6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,699,264:22:0	
243	96	320	22:13:15.800	488AT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,699,352:39:0	
244	96	320	22:45:15.800	488AT6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,699,384:07:0	
245	96	320	23:17:15.800	488AT6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,699,415:66:0	
246	96	321	00:19:07.800	488AT6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,699,476:83:0	
247	96	321	02:24:59.800	488AU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,699,601:36:0	
248	96	321	03:43:33.800	488AU6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,699,679:09:0	
249	96	321	03:57:13.133	488AU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,699,692:55:0	
250	96	321	09:06:03.733	488AV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,699,998:05:0	
251	96	321	10:32:49.066	488AV6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,700,083:78:0	
252	96	321	10:35:39.733	488AV6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,700,086:61:0	
253	96	321	11:11:55.733	488AV6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,700,122:49:0	
254	96	321	11:32:55.066	488AV6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,700,143:27:0	
255	96	321	12:13:47.733	488AW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,700,183:66:0	
256	96	321	17:35:55.733	488AW6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,700,502:29:0	
257	96	321	17:50:34.400	488AW6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,700,516:73:0	
258	96	321	18:27:53.066	488AX6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,700,553:64:0	
259	96	321	18:52:43.733	488AX6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,700,578:25:0	
260	96	321	19:48:11.733	488AX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,700,633:12:0	
261	96	321	22:17:31.733	488AX6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,700,780:75:0	
262	96	321	22:49:31.733	488AX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,700,812:43:0	
263	96	322	00:19:07.733	488AY6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,700,901:08:0	
264	96	322	02:20:43.733	488AY6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,701,021:32:0	
265	96	322	08:59:39.733	488AZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,701,415:82:0	
266	96	322	10:31:47.066	488AZ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,701,507:01:0	
267	96	322	10:35:39.733	488AZ6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,701,510:77:0	
268	96	322	11:11:55.733	488AZ6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,701,546:65:0	
269	96	322	12:08:48.400	488AZ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,701,602:88:0	
270	96	322	17:35:55.666	488BA6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,701,926:45:0	
271	96	322	17:45:28.333	488BA6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,701,935:85:0	
272	96	322	18:27:47.000	488BA6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,701,977:71:0	
273	96	322	18:48:27.666	488BA6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,701,998:21:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	322	19:43:55.666	488BA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,702,053	08:0
275	96	322	22:13:15.666	488BB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,702,200	71:0
276	96	322	22:45:15.666	488BB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,702,232	39:0
277	96	323	00:12:43.666	488BB6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,702,318	85:0
278	96	323	02:16:27.666	488BB6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,702,441	28:0
279	96	323	04:00:01.000	488BB6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,702,543	66:0
280	96	323	04:52:21.000	488BC6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,702,595	44:0
281	96	323	06:12:41.000	488BC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,702,674	85:0
282	96	323	08:59:39.666	488BC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,702,840	07:0
283	96	323	10:31:46.333	488BC6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,702,931	16:0
284	96	323	10:35:39.666	488BC6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,702,935	02:0
285	96	323	11:11:55.666	488BD6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,702,970	81:0
286	96	323	12:12:43.000	488BD6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,703,031	01:0
287	96	323	13:32:43.666	488BD6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,703,110	13:0
288	96	323	13:37:33.666	488BD6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,703,114	84:0
289	96	323	14:14:21.666	488BD6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,703,151	29:0
290	96	323	15:59:55.666	488BE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,703,255	66:0
291	96	323	17:45:22.333	488BE6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,703,360	01:0
292	96	323	18:22:41.000	488BE6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,703,396	83:0
293	96	323	18:42:03.666	488BE6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,703,416	07:0
294	96	323	19:33:54.333	488BE6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,703,467	32:0
295	96	323	19:37:31.666	488BF6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,703,470	85:0
296	96	323	20:01:58.333	488BF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,703,495	10:0
297	96	323	22:08:59.600	488BF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,703,620	67:0
298	96	323	22:40:59.600	488BF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,703,652	35:0
299	96	323	22:47:40.933	176UD6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,703,659	00:0
300	96	323	22:52:00.266	488BF6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,703,663	25:0
301	96	323	23:02:50.933		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 2349.23 +/- 2	1O0	4	0	3,703,674	00:0
302	96	323	23:02:50.933	465WA6A	6DMST	5000	DMS Slew to TIC	1O0	4	0	3,703,674	00:0
303	96	324	00:08:27.600	488BG6A	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	1O0	4	0	3,703,738	81:0
304	96	324	02:10:03.600	488BG6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,703,859	14:0
305	96	324	04:56:32.266	465WB6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	1O0	4	0	3,704,023	73:0
306	96	324	05:22:24.266	465WB6B	6DMSC	RDY,2	DMS Control Tape stop	1O0	4	0	3,704,049	35:0
307	96	324	07:17:10.266	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	1O0	4	0	3,704,162	81:0
308	96	324	07:27:11.600	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	1O0	4	0	3,704,172	73:0
309	96	324	07:59:07.600	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	1O0	4	0	3,704,204	35:0
310	96	324	08:14:42.933	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	1O0	4	0	3,704,219	73:0
311	96	324	08:46:53.600	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	1O0	4	0	3,704,251	57:0
312	96	324	08:55:23.600	488BH6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	1O0	4	0	3,704,260	03:0
313	96	324	09:18:56.933	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	3,704,283	30:0
314	96	324	09:33:34.933	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	1O0	4	0	3,704,297	73:0
315	96	324	10:05:44.933	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	1O0	4	0	3,704,329	56:0
316	96	324	10:06:52.266	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	1O0	4	0	3,704,330	66:0
317	96	324	10:13:24.933	488BH6B	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	1O0	4	0	3,704,337	18:0
318	96	324	10:20:43.600	488BH6C	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	1O0	4	0	3,704,344	39:0
319	96	324	10:21:18.266	465WI6A	6DMSC	RDY,2	DMS Control Tape stop	1O0	4	0	3,704,345	00:0
320	96	324	10:22:12.266	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	1O0	4	0	3,704,345	81:0
321	96	324	10:39:00.266	488BH6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,704,362	46:0
322	96	324	11:05:04.266	20UB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,704,388	26:0
323	96	324	11:05:54.266	20UB4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,704,389	10:0
324	96	324	11:08:49.600	176UE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,704,392	00:0
325	96	324	12:03:36.266	488BH6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,704,446	16:0
326	96	324	14:08:59.600	488BI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,704,570	17:0
327	96	324	15:25:47.600	488BI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,704,646	13:0
328	96	324	17:35:55.600	488BI6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,704,774	77:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	96	324	17:40:17.600	488BI6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,704,779	15:0
330	96	324	18:17:35.600	488BI6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,704,816	05:0
331	96	324	18:37:47.600	488BJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,704,836	03:0
332	96	324	19:28:59.600	488BJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,704,886	61:0
333	96	324	22:08:59.600	488BJ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,705,044	83:0
334	96	324	22:40:59.600	488BJ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,705,076	51:0
335	96	325	00:08:27.600	488BJ6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,705,163	06:0
336	96	325	02:05:47.600	488BK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,705,279	10:0
337	96	325	08:51:07.533	488BL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,705,679	90:0
338	96	325	10:26:18.866	488BL6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,705,774	12:0
339	96	325	10:31:23.533	488BL6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,705,779	14:0
340	96	325	11:07:39.533	488BL6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,705,815	02:0
341	96	325	11:37:30.866	488BL6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,705,844	50:0
342	96	325	12:36:30.200	488BM6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,705,902	81:0
343	96	325	13:22:03.533	488BM6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,705,947	86:0
344	96	325	13:29:27.533	488BM6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,705,955	24:0
345	96	325	16:10:35.533	488BM6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,706,114	57:0
346	96	325	17:35:11.533	488BM6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,706,198	27:0
347	96	325	18:12:30.200	488BN6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,706,235	18:0
348	96	325	18:33:31.533	488BN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,706,255	90:0
349	96	325	19:22:35.533	488BN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,706,304	47:0
350	96	325	19:24:51.533	488BN6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,706,306	69:0
351	96	325	19:52:09.533	488BN6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,706,333	69:0
352	96	325	22:02:35.533	488BO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,706,462	69:0
353	96	325	22:34:35.533	488BO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,706,494	37:0
354	96	326	00:02:03.533	488BO6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,706,580	83:0
355	96	326	02:05:47.533	488BO6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,706,703	26:0
356	96	326	08:51:07.466	488BP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,707,104	15:0
357	96	326	10:20:58.800	488BP6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,707,193	03:0
358	96	326	10:24:59.466	488BP6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,707,197	00:0
359	96	326	11:01:15.466	488BP6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,707,232	79:0
360	96	326	11:12:26.133	488BP6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,707,243	84:0
361	96	326	11:41:47.466	488BQ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,707,272	87:0
362	96	326	13:36:59.466	488BQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,707,386	81:0
363	96	326	15:40:43.466	488BQ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,707,509	24:0
364	96	326	17:29:31.466	488BQ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,707,616	79:0
365	96	326	17:35:05.466	488BQ6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,707,622	34:0
366	96	326	18:12:24.133	488BR6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,707,659	25:0
367	96	326	18:29:15.466	488BR6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,707,675	86:0
368	96	326	19:18:19.466	488BR6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,707,724	43:0
369	96	326	22:02:35.466	488BR6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,707,886	85:0
370	96	326	22:34:35.466	488BR6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,707,918	53:0
371	96	326	23:57:47.466	488BS6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,708,000	79:0
372	96	327	01:59:23.466	488BS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,708,121	12:0
373	96	327	08:44:43.466	488BT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,708,522	01:0
374	96	327	10:20:09.466	488BT6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,708,616	36:0
375	96	327	10:24:59.466	488BT6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,708,621	16:0
376	96	327	11:23:22.133	488BT6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,708,678	83:0
377	96	327	12:05:15.466	488BT6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,708,720	31:0
378	96	327	13:00:00.800	488BU6A	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	1O0	4	0	3,708,774	45:0
379	96	327	13:28:27.466	488BU6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	1O0	4	0	3,708,802	57:0
380	96	327	13:52:20.800	488BU6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	1O0	4	0	3,708,826	23:0
381	96	327	15:12:40.733	488BU6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,708,905	64:0
382	96	327	15:44:59.400	488BU6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,708,937	60:0
383	96	327	17:29:31.400	488BV6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,709,041	04:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	96	327	17:30:00.733	488BV6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,709,041	48:0
385	96	327	18:22:18.733	488BV6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,709,093	23:0
386	96	327	19:03:23.400	488BV6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,709,133	80:0
387	96	327	19:42:57.400	488BV6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,709,173	01:0
388	96	327	20:19:45.400	488BW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,709,209	37:0
389	96	327	21:51:55.400	488BW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,709,300	51:0
390	96	327	22:23:55.400	488BW6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,709,332	19:0
391	96	328	00:02:03.400	488BW6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,709,429	24:0
392	96	328	01:59:23.400	488BW6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,709,545	28:0
393	96	328	03:24:13.400	488BX6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,709,629	19:0
394	96	328	03:37:52.733	488BX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,709,642	65:0
395	96	328	08:40:27.400	488BX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,709,941	88:0
396	96	328	10:20:25.400	488BY6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,710,040	76:0
397	96	328	10:20:43.400	488BY6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,710,041	12:0
398	96	328	11:02:14.733	488BY6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,710,082	18:0
399	96	328	11:33:15.400	488BY6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,710,112	79:0
400	96	328	13:17:47.400	488BY6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,710,216	23:0
401	96	328	15:44:59.400	488BZ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,710,361	76:0
402	96	328	17:29:31.400	488BZ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,710,465	20:0
403	96	328	17:29:55.400	488BZ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,710,465	56:0
404	96	328	18:02:14.066	488BZ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,710,497	52:0
405	96	328	18:22:51.400	488BZ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,710,517	88:0
406	96	328	19:07:39.400	488CA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,710,562	25:0
407	96	328	21:51:55.333	488CA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,710,724	67:0
408	96	328	22:23:55.333	488CA6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,710,756	35:0
409	96	328	23:53:31.333	488CA6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,710,845	00:0
410	96	329	01:59:23.333	488CB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,710,969	44:0
411	96	329	08:40:27.333	488CC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,711,366	13:0
412	96	329	10:17:52.666	488CC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,711,462	45:0
413	96	329	10:20:43.333	488CC6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,711,465	28:0
414	96	329	11:02:10.000	488CC6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,711,506	27:0
415	96	329	11:33:15.333	488CC6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,711,537	04:0
416	96	329	13:13:31.333	488CD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,711,636	19:0
417	96	329	15:44:59.333	488CD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,711,786	01:0
418	96	329	17:18:44.666	488CD6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,711,878	67:0
419	96	329	17:25:15.333	488CD6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,711,885	16:0
420	96	329	18:18:35.333	488CD6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,711,937	84:0
421	96	329	18:40:08.666	488CE6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,711,959	22:0
422	96	329	19:07:39.333	488CE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,711,986	41:0
423	96	329	21:51:55.333	488CE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,712,148	83:0
424	96	329	22:23:55.333	488CE6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,712,180	51:0
425	96	329	23:53:31.333	488CE6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,712,269	16:0
426	96	330	01:55:07.333	488CF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,712,389	40:0
427	96	330	08:34:03.266	488CG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,712,783	90:0
428	96	330	10:09:22.600	488CG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,712,878	24:0
429	96	330	10:14:19.266	488CG6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,712,883	14:0
430	96	330	10:50:35.266	488CG6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,712,919	02:0
431	96	330	11:17:04.600	488CG6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,712,945	20:0
432	96	330	12:21:57.266	488CH6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,713,009	35:0
433	96	330	13:07:07.266	488CH6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,713,054	05:0
434	96	330	13:14:45.933	488CH6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,713,061	56:0
435	96	330	16:10:35.266	488CH6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,713,235	46:0
436	96	330	17:24:45.266	488CH6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,713,308	78:0
437	96	330	17:42:19.266	488CI6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,713,326	21:0
438	96	330	19:47:20.600	488CI6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,713,449	80:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	96	330	21:43:23.266	488CI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,713,564	59:0
440	96	330	22:11:49.266	488CI6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,713,592	70:0
441	96	330	22:15:23.266	488CI6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,713,596	27:0
442	96	330	22:33:56.600	488CJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,713,614	59:0
443	96	330	23:32:11.266	488CJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,713,672	23:0
444	96	331	03:14:28.600	488CJ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,713,892	09:0
445	96	331	03:30:47.933	488CJ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,713,908	22:0
446	96	331	04:12:00.600	176UF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,713,949	00:0
447	96	331	04:14:59.933	41SF99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	1O0	4	0	3,713,951	87:0
448	**96**	**331**	**04:15:03.933**	**41SF3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,713,952**	**02:0**
449	**96**	**331**	**04:15:13.933**	**41SF3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,713,952**	**17:0**
450	**96**	**331**	**04:17:23.933**	**41SF3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,713,954**	**30:0**
451	**96**	**331**	**04:17:33.933**	**41SF3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,713,954**	**45:0**
452	**96**	**331**	**04:17:43.933**	**41SF3I**	**40T2**	**1**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,713,954**	**60:0**
453	**96**	**331**	**04:17:53.933**	**41SF3J**	**40T2**	**2**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,713,954**	**75:0**
454	96	331	04:26:19.933	20UF4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	3,713,963	15:0
455	96	331	04:45:19.933	20UF4D	**7MODE**	**INT**	AACS INERTIAL MODE	1O0	4	0	3,713,981	87:0
456	96	331	07:15:07.266	488CK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,714,130	09:0
457	96	331	08:34:03.866	488CK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,714,208	16:0
458	96	331	09:10:19.866	488CK6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,714,244	04:0
459	96	331	09:40:49.866	488CK6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,714,274	19:0
460	96	331	09:50:51.200	488CK6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,714,284	11:0
461	96	331	10:56:38.533	488CL6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,714,349	17:0
462	96	331	11:21:59.866	488CL6B	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	1O0	4	0	3,714,374	24:0
463	96	331	11:26:51.200	488CL6C	6TMSED	NORM,AH1	Sci, Eng, and D/L Chan	1O0	4	0	3,714,379	06:0
464	96	331	11:43:59.866	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	1O0	4	0	3,714,396	02:0
465	96	331	11:45:59.866	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	3,714,398	00:0
466	96	331	11:50:13.866	474AA416A4E	**7BURN**	LZ,57.7826,-55.3	ALERT -- Thruster fire	1O0	4	0	3,714,402	17:0
467	96	331	12:12:09.866	474AA416A4G	**7BURN**	T,57.7826,-55.36	ALERT -- Thruster fire	1O0	4	0	3,714,423	80:0
468	96	331	13:21:21.866	474AA416A4N	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	3,714,492	29:0
469	**96**	**331**	**16:44:15.200**	**432CA6A**	**6RTDS2**	**NIMNCG,AACNCG,RT**	**R/T ENG DESLECT**	**1O0**	**4**	**0**	**3,714,692**	**89:0**
470	**96**	**331**	**17:29:46.533**	**432CB6A**	**6RTSL2**	**NIMNCG,AACNCG,RT**	**R/T ENG SELECT**	**1O0**	**4**	**0**	**3,714,738**	**00:0**
471	96	331	17:35:59.866	20CA6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,714,744	14:0
472	96	331	19:29:59.866	444UB443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	3,714,856	82:0
473	96	331	19:29:59.866	488CM6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,714,856	82:0
474	96	331	19:34:59.866	20CA6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,714,861	77:0
475	96	331	19:35:59.866	41SG99A	**POWER**	**PWR MODE change**	Change to Playback Mode	1O0	4	0	3,714,862	76:0
476	**96**	**331**	**19:36:03.866**	**41SG3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,714,862**	**82:0**
477	**96**	**331**	**19:36:13.866**	**41SG3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,714,863**	**06:0**
478	**96**	**331**	**19:36:23.866**	**41SG3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,714,863**	**21:0**
479	**96**	**331**	**19:36:33.866**	**41SG3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,714,863**	**36:0**
480	**96**	**331**	**19:38:43.866**	**41SG3G**	**37F2P**	**1**	**Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,714,865**	**49:0**
481	**96**	**331**	**19:38:53.866**	**41SG3H**	**37F2P**	**2**	**Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,714,865**	**64:0**
482	96	331	19:46:03.866	20UC4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,714,872	72:0
483	96	331	19:46:53.866	20UC4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,714,873	56:0
484	96	331	19:49:18.533	176UG6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,714,876	00:0
485	96	331	20:02:58.533	488CM6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,714,889	47:0
486	96	331	21:34:55.200	488CM6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,714,980	41:0
487	96	331	21:36:59.200	488CM6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,714,982	45:0
488	96	331	22:05:20.533	488CM6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,715,010	49:0
489	96	331	22:08:59.200	488CN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,715,014	13:0
490	96	331	22:33:01.200	488CN6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	1O0	4	0	3,715,037	83:0
491	96	331	22:40:59.200	488CN6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,715,045	72:0
492	96	331	23:25:21.200	488CN6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,715,089	61:0
493	96	331	23:42:51.200	488CN6E	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	1O0	4	0	3,715,106	89:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	96	332	00:45:41.200	488CO6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,715,169:11:0	
495	96	332	01:50:51.200	488CO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,715,233:52:0	
496	96	332	03:14:32.533	488CO6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,715,316:31:0	
497	96	332	03:28:11.866	488CO6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,715,329:77:0	
498	96	332	03:48:34.533	176UH6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,715,350:00:0	
499	96	332	03:51:59.866	488CO6E	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	1O0	4	0	3,715,353:35:0	
500	96	332	04:02:59.866	20UG4F	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	3,715,364:24:0	
501	96	332	04:06:59.866	20UG4G	7STAT	17.45,0.0,90.0	Stator inertial point	1O0	4	0	3,715,368:20:0	
502	96	332	06:59:59.866	488CP6A	6TMSED	NORM,BL6	Sci, Eng, and D/L Chan	1O0	4	0	3,715,539:29:0	
503	96	332	07:01:59.866	488CP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,715,541:27:0	
504	96	332	07:02:03.866	20UD4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,715,541:33:0	
505	96	332	07:02:53.866	20UD4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,715,542:17:0	
506	96	332	07:05:44.533	176UI6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,715,545:00:0	
507	96	332	08:29:47.200	488CP6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,715,628:11:0	
508	96	332	10:05:17.200	488CP6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,715,722:52:0	
509	96	332	10:05:47.200	488CP6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,715,723:06:0	
510	96	332	11:11:55.866	488CQ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,715,788:44:0	
511	96	332	12:12:06.533	488CQ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,715,848:00:0	
512	96	332	12:56:27.200	488CQ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,715,891:78:0	
513	96	332	13:04:36.533	488CQ6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,715,899:84:0	
514	96	332	15:59:55.133	488CQ6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,716,073:28:0	
515	96	332	16:28:55.800	176UJ6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,716,102:00:0	
516	96	332	16:29:59.800		DMS:	: READY	RDY, TRACK 3, FWD, TIC 201.62 +/-	1O0	4	0	3,716,103:05:0	
517	**96**	**332**	**16:30:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**1O0**	**4**	**0**	**3,716,103:05:3**	
518	**96**	**332**	**16:30:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,716,103:05:3**	
519	**96**	**332**	**16:30:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**	
520	**96**	**332**	**16:30:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**	
521	**96**	**332**	**16:30:00.000**	**20A3FB**	**37F2P**	**Final Condition**	**Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**	
522	**96**	**332**	**16:30:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**	
523	**96**	**332**	**16:30:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**	
524	**96**	**332**	**16:30:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**	
525	**96**	**332**	**16:30:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**1O0**	**4**	**0**	**3,716,103:05:3**	

Sequence:	C03C-AR	Created: 12/31/96	Begin: 96-332/16:30:00 Finish: 96-350/00:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	96	332	16:29:59.800		DMS:	: READY	RDY, TRACK 1, FWD, TIC 802.00 +/-	1O0	4	0	3,716,103:05:0
2	**96**	**332**	**16:30:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**1O0**	**4**	**0**	**3,716,103:05:3**
3	**96**	**332**	**16:30:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**
4	**96**	**332**	**16:30:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**
5	**96**	**332**	**16:30:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**
6	**96**	**332**	**16:30:00.000**	**20A3FB**	**37F2P**	**Initial Condition**	**Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**
7	**96**	**332**	**16:30:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**1O0**	**4**	**0**	**3,716,103:05:3**
8	**96**	**332**	**16:30:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**
9	**96**	**332**	**16:30:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,103:05:3**
10	**96**	**332**	**16:30:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,716,103:05:3**
11	96	332	16:31:55.133	488AA6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,716,104:87:0
12	96	332	16:32:03.800	20WA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,716,105:09:0
13	96	332	16:32:53.800	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,716,105:84:0
14	96	332	16:34:59.800	176C6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,716,108:00:0
15	96	332	17:19:35.133	488AA6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,716,152:09:0
16	96	332	17:38:03.133	488AA6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,716,170:33:0
17	96	332	19:42:30.466	488AA6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,716,293:41:0
18	96	332	20:48:22.466	488AA6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,716,358:54:0
19	96	332	21:25:10.466	488AB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,716,394:90:0
20	96	332	21:32:43.133	488AB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,716,402:41:0
21	96	332	22:04:43.133	488AB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,716,434:09:0
22	96	332	22:36:43.133	488AB6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,716,465:68:0
23	96	332	23:42:51.133	488AB6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,716,531:14:0
24	**96**	**333**	**00:55:59.800**	**20EA3A**	**37F2PR**		**1 Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,603:45:0**
25	**96**	**333**	**00:56:03.800**	**20EA3B**	**37F2PR**		**2 Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,716,603:51:0**
26	**96**	**333**	**00:56:07.800**	**20EA3C**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,716,603:57:0**
27	**96**	**333**	**00:56:11.800**	**20EA3D**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,716,603:63:0**
28	**96**	**333**	**00:56:15.800**	**20EA3E**	**40T2**		**1 PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,716,603:69:0**
29	**96**	**333**	**00:56:19.800**	**20EA3F**	**40T2**		**2 PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,716,603:75:0**
30	96	333	01:48:43.133	488AC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,716,655:58:0
31	96	333	03:09:37.800	488AC6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,716,735:60:0
32	96	333	03:23:17.133	488AC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,716,749:15:0
33	96	333	08:29:47.133	488AD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,717,052:27:0
34	96	333	10:04:06.466	488AD6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,717,145:53:0
35	96	333	10:10:03.133	488AD6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,717,151:42:0
36	96	333	11:02:52.466	488AD6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,717,203:64:0
37	96	333	11:46:03.133	488AD6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,717,246:37:0
38	96	333	13:17:47.133	488AE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,717,337:12:0
39	96	333	15:15:07.133	488AE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,717,453:16:0
40	96	333	17:10:19.133	488AE6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,717,567:10:0
41	96	333	17:14:31.133	488AE6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,717,571:24:0
42	96	333	17:42:19.133	488AE6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,717,598:69:0
43	96	333	19:16:28.466	488AF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,717,691:80:0
44	96	333	21:41:15.066	488AF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,717,835:06:0
45	96	333	22:13:15.066	488AF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,717,866:65:0
46	96	333	23:36:27.066	488AF6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,717,949:00:0
47	96	334	01:44:27.066	488AG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,718,075:54:0
48	96	334	08:25:31.066	488AH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,718,472:23:0
49	96	334	09:55:33.733	488AH6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,718,561:28:0
50	96	334	09:59:23.066	488AH6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,718,565:08:0
51	96	334	10:35:39.066	488AH6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,718,600:87:0
52	96	334	10:46:47.066	488AH6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,718,611:88:0
53	96	334	11:16:11.066	488AI6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,718,641:04:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	96	334	11:59:59.733	481UG4A	7VECT		Inert vect update UTC	1O0	4	0	3,718,684:34:0	
55	96	334	13:17:47.066	488AI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,718,761:28:0	
56	96	334	13:37:46.400	41TA99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	1O0	4	0	3,718,781:07:0	
57	**96**	**334**	**13:37:50.400**	**41TA3G**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,718,781:13:0**	
58	**96**	**334**	**13:38:00.400**	**41TA3H**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,718,781:28:0**	
59	**96**	**334**	**13:38:10.400**	**41TA3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,718,781:43:0**	
60	**96**	**334**	**13:38:20.400**	**41TA3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,718,781:58:0**	
61	**96**	**334**	**13:38:30.400**	**41TA3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,718,781:73:0**	
62	**96**	**334**	**13:38:40.400**	**41TA3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,718,781:88:0**	
63	96	334	13:48:49.066	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,718,792:00:0	
64	96	334	13:51:55.733	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	3,718,795:07:0	
65	96	334	13:56:02.400	20UF4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,718,799:13:0	
66	96	334	13:56:52.400	20UF4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,718,799:88:0	
67	96	334	13:58:55.733	176XV6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,718,802:00:0	
68	**96**	**334**	**13:59:56.400**	**185XE10A3A**	**40HRP**	**1**	**RCT Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,718,803:00:0**	
69	96	334	15:08:43.066	488AI6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,718,871:02:0	
70	96	334	17:03:55.066	488AI6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,718,984:87:0	
71	96	334	17:09:26.400	488AI6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,718,990:38:0	
72	96	334	18:01:45.066	488AJ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,719,042:14:0	
73	96	334	18:46:19.066	488AJ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,719,086:21:0	
74	96	334	19:23:31.733	488AJ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,719,123:03:0	
75	96	334	20:00:19.733	488AJ6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,719,159:39:0	
76	96	334	21:32:43.066	488AJ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,719,250:73:0	
77	96	334	22:04:43.066	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,719,282:41:0	
78	96	334	22:36:43.066	488AK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,719,314:09:0	
79	96	334	23:36:27.066	488AK6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,719,373:16:0	
80	96	335	01:44:27.066	488AK6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,719,499:70:0	
81	96	335	01:54:43.066	125XE	NIMSINIT	GS	##### GROUP START INIT	1O0	4	0	3,719,509:84:0	
82	**96**	**335**	**01:54:43.066**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**3,719,509:84:0**	
83	**96**	**335**	**01:55:43.733**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**1R0**	**4**	**0**	**3,719,510:84:0**	
84	**96**	**335**	**01:56:44.400**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**3,719,511:84:0**	
85	96	335	01:57:45.066	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	3,719,512:84:0	
86	**96**	**335**	**01:57:45.066**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,719,512:84:0**	
87	96	335	01:59:46.400	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	3,719,514:84:0	
88	**96**	**335**	**01:59:46.400**	**127XE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**3,719,514:84:0**	
89	**96**	**335**	**01:59:47.066**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**3,719,514:85:0**	
90	96	335	01:59:55.733	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	3,719,515:07:0	
91	**96**	**335**	**02:00:57.956**	**C3NNRCTRLT02-**		**-----START------**		**1R3**	**4**	**0**	**: :**	
92	96	335	02:06:55.733	176XE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	3,719,522:00:0	
93	96	335	02:09:57.733	192XE4A	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	3,719,525:00:0	
94	**96**	**335**	**02:12:19.066**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,719,527:30:0**	
95	**96**	**335**	**02:13:18.400**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,719,528:28:0**	
96	96	335	02:16:01.733	192XE4B	**7CONE**	**17.0,0.0**	Check S/P Position	1R3	4	0	3,719,531:00:0	
97	**96**	**335**	**02:18:23.066**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,719,533:30:0**	
98	**96**	**335**	**02:20:23.066**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,719,535:28:0**	
99	96	335	02:22:05.733	192XE4C	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	3,719,537:00:0	
100	**96**	**335**	**02:24:07.066**	**185XE10B3A**	**40HRPR**	**1**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**3,719,539:00:0**	
101	**96**	**335**	**02:24:27.066**	**432XW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**3,719,539:30:0**	
102	**96**	**335**	**02:25:26.400**	**432XY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**3,719,540:28:0**	
103	96	335	02:28:09.733	192XE4D	**7CONE**	**17.0,153.0**	Check S/P Position	1R3	4	0	3,719,543:00:0	
104	96	335	02:29:05.733	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	1R3	4	0	3,719,543:84:0	
105	**96**	**335**	**02:29:05.733**	**127XF4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**1R0**	**4**	**0**	**3,719,543:84:0**	
106	**96**	**335**	**02:29:06.400**	**127XF4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**1R0**	**4**	**0**	**3,719,543:85:0**	
107	96	335	02:29:15.066	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R0	4	0	3,719,544:07:0	
108	**96**	**335**	**02:31:17.956**	**C3NNRCTRLT02-**		**-----STOP-------**		**1R0**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	96	335	02:32:07.733	125XF	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	3,719,546:84:0	
110	**96**	**335**	**02:32:07.733**	**125XF4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,719,546:84:0**	
111	**96**	**335**	**02:33:08.400**	**125XF4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**3,719,547:84:0**	
112	96	335	02:34:09.066	125XF11A	NIMSINIT	GE	##### GROUP END INIT	160	4	0	3,719,548:84:0	
113	**96**	**335**	**02:34:09.066**	**125XF4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**1O0**	**4**	**0**	**3,719,548:84:0**	
114	96	335	02:40:22.400	41UE99A	**POWER**	**PWR MODE change**	Change to Playback Mode	1O0	4	0	3,719,555:07:0	
115	**96**	**335**	**02:40:26.400**	**41UE3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,719,555:13:0**	
116	**96**	**335**	**02:40:36.400**	**41UE3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,719,555:28:0**	
117	**96**	**335**	**02:40:46.400**	**41UE3K**	**40T2R**		**1 PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,719,555:43:0**	
118	**96**	**335**	**02:40:56.400**	**41UE3L**	**40T2R**		**2 PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,719,555:58:0**	
119	**96**	**335**	**02:43:06.400**	**41UE3G**	**37F2P**		**1 Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,719,557:71:0**	
120	**96**	**335**	**02:43:16.400**	**41UE3H**	**37F2P**		**2 Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,719,557:86:0**	
121	96	335	02:50:33.666	20UG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,719,565:14:0	
122	96	335	02:51:23.666	20UG4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,719,565:89:0	
123	96	335	02:53:26.333	176XF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,719,568:00:0	
124	96	335	03:04:46.333	488AK6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,719,579:19:0	
125	96	335	03:18:25.666	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,719,592:65:0	
126	96	335	08:19:07.000	488AL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,719,890:09:0	
127	96	335	08:55:23.000	488AL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,719,925:88:0	
128	96	335	10:01:36.333	488AM6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,719,991:42:0	
129	96	335	10:03:39.000	488AM6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,719,993:44:0	
130	96	335	10:41:41.666	488AM6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,720,031:10:0	
131	96	335	11:16:11.000	488AM6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,720,065:20:0	
132	96	335	13:17:47.000	488AM6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,720,185:44:0	
133	96	335	15:00:11.000	488AN6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,720,286:69:0	
134	96	335	17:03:55.000	488AN6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,720,409:12:0	
135	96	335	17:09:22.333	488AN6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,720,414:48:0	
136	96	335	17:41:41.000	488AN6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,720,446:44:0	
137	96	335	18:01:31.000	488AN6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,720,466:09:0	
138	96	335	18:52:43.000	488AO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,720,516:67:0	
139	96	335	21:32:43.000	488AO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,720,674:89:0	
140	96	335	22:00:01.000	488AO6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	1O0	4	0	3,720,701:89:0	
141	96	335	22:04:43.000	488AO6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,720,706:57:0	
142	96	335	22:52:21.000	488AO6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,720,753:67:0	
143	96	335	23:32:11.000	488AP6A	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	1O0	4	0	3,720,793:12:0	
144	96	336	00:12:41.000	488AP6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,720,833:17:0	
145	96	336	01:40:11.000	488AP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,720,919:66:0	
146	96	336	08:19:07.000	488AQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,721,314:25:0	
147	96	336	09:56:56.266	488AQ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,721,411:02:0	
148	96	336	09:59:22.933	488AQ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,721,413:40:0	
149	96	336	10:41:37.600	488AQ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,721,455:20:0	
150	96	336	11:11:54.933	488AQ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,721,485:16:0	
151	96	336	13:22:02.933	488AR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,721,613:80:0	
152	96	336	14:49:30.933	488AR6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,721,700:35:0	
153	96	336	16:59:38.933	488AR6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,721,829:08:0	
154	96	336	17:04:18.266	488AR6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,721,833:63:0	
155	96	336	17:41:36.933	488AR6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,721,870:54:0	
156	96	336	18:01:30.933	488AS6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,721,890:25:0	
157	96	336	18:52:42.933	488AS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,721,940:83:0	
158	96	336	21:32:42.933	488AS6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,722,099:14:0	
159	96	336	22:04:42.933	488AS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,722,130:73:0	
160	96	336	23:27:54.933	488AS6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,722,213:08:0	
161	96	337	01:40:10.933	488AT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,722,343:82:0	
162	96	337	08:14:50.933	488AU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,722,734:21:0	
163	96	337	09:48:42.933	488AU6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,722,827:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	96	337	09:49:14.266	488AU6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,722,827:53:0	
165	96	337	10:36:33.600	488AU6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,722,874:35:0	
166	96	337	10:51:00.266	488AU6E	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	1O0	4	0	3,722,888:61:0	
167	96	337	11:11:54.933	488AV6A	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	1O0	4	0	3,722,909:32:0	
168	96	337	11:47:57.600	176UT6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,722,945:00:0	
169	96	337	11:50:00.266	41VA99A	**POWER**	**PWR MODE change**	Change to Maneuver Mode	1O0	4	0	3,722,947:02:0	
170	**96**	**337**	**11:50:04.266**	**41VA3K**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,722,947:08:0**	
171	**96**	**337**	**11:50:14.266**	**41VA3L**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,722,947:23:0**	
172	**96**	**337**	**11:52:24.266**	**41VA3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,722,949:36:0**	
173	**96**	**337**	**11:52:34.266**	**41VA3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,722,949:51:0**	
174	**96**	**337**	**11:52:44.266**	**41VA3I**	**40T2**	**1**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,722,949:66:0**	
175	**96**	**337**	**11:52:54.266**	**41VA3J**	**40T2**	**2**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,722,949:81:0**	
176	96	337	12:02:00.266	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,722,958:81:0	
177	96	337	12:03:00.266	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	1O0	4	0	3,722,959:80:0	
178	96	337	12:05:00.266	20UQ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	1O0	4	0	3,722,961:78:0	
179	96	337	12:10:30.266	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	1O0	4	0	3,722,967:27:0	
180	96	337	12:10:30.933	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	1O0	4	0	3,722,967:28:0	
181	96	337	12:10:50.933	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	1O0	4	0	3,722,967:58:0	
182	96	337	12:10:51.600	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	1O0	4	0	3,722,967:59:0	
183	96	337	12:11:11.600	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	3,722,967:89:0	
184	96	337	12:11:12.266	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	3,722,967:90:0	
185	96	337	12:11:22.266	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	1O0	4	0	3,722,968:14:0	
186	96	337	12:11:22.933	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	1O0	4	0	3,722,968:15:0	
187	96	337	12:11:32.933	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	1O0	4	0	3,722,968:30:0	
188	96	337	12:11:33.600	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	1O0	4	0	3,722,968:31:0	
189	96	337	12:13:20.266	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	1O0	4	0	3,722,970:09:0	
190	96	337	12:13:20.933	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	1O0	4	0	3,722,970:10:0	
191	96	337	12:13:40.933	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	1O0	4	0	3,722,970:40:0	
192	96	337	12:13:41.600	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	1O0	4	0	3,722,970:41:0	
193	96	337	12:14:01.600	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	3,722,970:71:0	
194	96	337	12:14:02.266	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	3,722,970:72:0	
195	96	337	12:14:12.266	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	1O0	4	0	3,722,970:87:0	
196	96	337	12:14:12.933	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	1O0	4	0	3,722,970:88:0	
197	96	337	12:14:22.933	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	1O0	4	0	3,722,971:12:0	
198	96	337	12:14:23.600	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	1O0	4	0	3,722,971:13:0	
199	96	337	12:15:20.266	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	1O0	4	0	3,722,972:07:0	
200	96	337	12:40:00.266	41UA99A	**POWER**	**PWR MODE change**	Change to Playback Mode	1O0	4	0	3,722,996:43:0	
201	**96**	**337**	**12:40:04.266**	**41UA3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,722,996:49:0**	
202	**96**	**337**	**12:40:14.266**	**41UA3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,722,996:64:0**	
203	**96**	**337**	**12:40:24.266**	**41UA3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,722,996:79:0**	
204	**96**	**337**	**12:40:34.266**	**41UA3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,722,997:03:0**	
205	**96**	**337**	**12:42:44.266**	**41UA3G**	**37F2P**	**1**	**Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,722,999:16:0**	
206	**96**	**337**	**12:42:54.266**	**41UA3H**	**37F2P**	**2**	**Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,722,999:31:0**	
207	96	337	12:51:04.266	20UB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,723,007:38:0	
208	96	337	12:51:54.266	20UB4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,723,008:22:0	
209	96	337	12:53:40.933	176VT6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,723,010:00:0	
210	96	337	13:00:00.266	488AV6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,723,016:23:0	
211	96	337	13:47:38.933	488AV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,723,063:34:0	
212	96	337	14:19:38.933	488AV6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,723,095:02:0	
213	96	337	16:48:58.866	488AV6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,723,242:65:0	
214	96	337	17:04:14.200	488AW6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,723,257:73:0	
215	96	337	17:51:32.866	488AW6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,723,304:54:0	
216	96	337	18:42:02.866	488AW6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,723,354:49:0	
217	96	337	19:13:43.533	488AW6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,723,385:79:0	
218	96	337	19:45:12.200	176UP6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,723,417:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	96	337	19:50:31.533	488AW6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,723,422	24:0
220	96	337	19:51:16.200	176KB6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,723,423	00:0
221	96	337	19:56:18.200	165QB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,723,427	89:0
222	96	337	19:56:18.866	165QB4B	7SCAN	NORM,171.421999,	Check S/P Position	1O0	4	0	3,723,427	90:0
223	96	337	20:20:34.200	165QC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,723,451	89:0
224	96	337	20:20:34.866	165QC4B	7SCAN	NORM,171.434999,	Check S/P Position	1O0	4	0	3,723,451	90:0
225	96	337	20:52:55.533	165QD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,723,483	89:0
226	96	337	20:52:56.200	165QD4B	7SCAN	NORM,171.296999,	Check S/P Position	1O0	4	0	3,723,483	90:0
227	96	337	21:22:02.866	488AX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,723,512	71:0
228	96	337	21:27:18.200	165QE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,723,517	89:0
229	96	337	21:27:18.866	165QE4B	7SCAN	NORM,171.368999,	Check S/P Position	1O0	4	0	3,723,517	90:0
230	96	337	21:54:02.866	488AX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,723,544	39:0
231	96	337	21:56:04.200	20WB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,723,546	39:0
232	96	337	21:56:54.200	20WB4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,723,547	23:0
233	96	337	21:58:40.200	176VP6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,723,549	00:0
234	96	337	22:26:02.866	488AX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,723,576	07:0
235	96	337	23:27:54.866	488AX6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,723,637	24:0
236	96	338	01:40:10.866	488AX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,723,768	07:0
237	96	338	02:41:46.866	176UE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,723,829	00:0
238	96	338	02:46:50.200	176KC6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,723,834	00:0
239	96	338	02:50:51.533	165QF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,723,837	89:0
240	96	338	02:50:52.200	165QF4B	7SCAN	NORM,189.41,-5.6	Check S/P Position	1O0	4	0	3,723,837	90:0
241	96	338	02:54:59.533	488AY6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,723,842	06:0
242	96	338	03:08:38.866	488AY6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,723,855	52:0
243	96	338	03:21:04.200	20UD4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,723,867	78:0
244	96	338	03:21:54.200	20UD4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,723,868	62:0
245	96	338	03:23:14.200	176VE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,723,870	00:0
246	96	338	08:08:26.866	488AY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,724,152	07:0
247	96	338	09:17:18.866	488AZ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,724,220	17:0
248	96	338	09:25:14.866	488AZ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,724,228	03:0
249	96	338	10:36:29.533	488AZ6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,724,298	45:0
250	96	338	11:16:10.866	488AZ6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,724,337	68:0
251	96	338	13:19:47.533	176UD6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,724,460	00:0
252	96	338	13:25:51.533	176KD6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,724,466	00:0
253	96	338	13:30:53.533	165QG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,724,470	89:0
254	96	338	13:30:54.200	165QG4B	7SCAN	NORM,171.359999,	Check S/P Position	1O0	4	0	3,724,470	90:0
255	96	338	13:56:10.200	165QH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,724,495	89:0
256	96	338	13:56:10.866	165QH4B	7SCAN	NORM,171.243999,	Check S/P Position	1O0	4	0	3,724,495	90:0
257	96	338	14:25:04.200	20UC4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,724,524	51:0
258	96	338	14:25:54.200	20UC4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,724,525	35:0
259	96	338	14:27:32.200	176D6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,724,527	00:0
260	96	338	16:44:42.866	488BA6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,724,662	61:0
261	96	338	16:59:10.200	488BA6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,724,676	88:0
262	96	338	17:36:28.866	488BA6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,724,713	79:0
263	96	338	17:57:14.866	488BA6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,724,734	37:0
264	96	338	18:56:58.866	488BA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,724,793	44:0
265	96	338	21:26:18.800	488BB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,724,941	16:0
266	96	338	21:58:18.800	488BB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,724,972	75:0
267	96	338	23:21:30.800	488BB6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,725,055	10:0
268	96	339	01:33:46.800	488BB6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,725,185	84:0
269	96	339	07:05:30.133	176E6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,725,514	00:0
270	96	339	07:11:34.133	176KE6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,725,520	00:0
271	96	339	07:15:35.466	165QI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,725,523	89:0
272	96	339	07:15:36.133	165QI4B	7SCAN	NORM,171.32,2.97	Check S/P Position	1O0	4	0	3,725,523	90:0
273	96	339	07:40:52.133	165QJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,725,548	89:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	96	339	07:40:52.800	165QJ4B	7SCAN	NORM,171.363998,	Check S/P Position	1O0	4	0	3,725,548:90:0	
275	96	339	08:08:26.800	488BC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,725,576:23:0	
276	96	339	08:10:04.133	20WC4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,725,577:78:0	
277	96	339	08:10:54.133	20WC4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,725,578:62:0	
278	96	339	08:12:14.133	176J6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,725,580:00:0	
279	96	339	09:40:10.800	488BC6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,725,666:89:0	
280	96	339	09:44:06.133	488BC6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,725,670:78:0	
281	96	339	10:56:26.133	488BC6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,725,742:36:0	
282	96	339	11:52:36.133	488BC6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,725,797:86:0	
283	96	339	12:49:53.466	488BD6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,725,854:55:0	
284	96	339	13:26:18.800	488BD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,725,890:57:0	
285	96	339	14:23:54.800	488BD6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,725,947:54:0	
286	96	339	16:50:07.466	488BD6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,726,092:18:0	
287	96	339	17:03:54.800	488BD6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,726,105:76:0	
288	96	339	17:40:10.800	488BE6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,726,141:64:0	
289	96	339	17:51:24.800	488BE6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,726,152:74:0	
290	96	339	18:42:16.133	488BE6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,726,203:10:0	
291	96	339	18:46:18.800	488BE6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,726,207:10:0	
292	96	339	19:45:39.466	488BE6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,726,265:73:0	
293	96	340	00:04:10.800	488BF6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,726,521:44:0	
294	96	340	01:06:30.800	488BF6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,726,583:12:0	
295	96	340	01:14:34.800	488BF6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,726,591:10:0	
296	96	340	01:50:50.800	488BF6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,726,626:89:0	
297	96	340	02:43:22.133	488BF6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,726,678:84:0	
298	96	340	02:50:07.466	488BG6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,726,685:55:0	
299	96	340	03:00:00.133	488BG6B	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,726,695:34:0	
300	96	340	03:03:46.800	488BG6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,726,699:10:0	
301	96	340	03:52:20.066	488BG6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,726,747:12:0	
302	96	340	05:12:40.066	488BG6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,726,826:53:0	
303	96	340	06:50:09.400	176F6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,726,923:00:0	
304	96	340	06:56:13.400	176KF6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,726,929:00:0	
305	96	340	07:01:15.400	165QK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,726,933:89:0	
306	96	340	07:01:16.066	165QK4B	7SCAN	NORM,180.646,-1.	Check S/P Position	1O0	4	0	3,726,933:90:0	
307	96	340	07:25:31.400	165QL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,726,957:89:0	
308	96	340	07:25:32.066	165QL4B	7SCAN	NORM,180.653,-1.	Check S/P Position	1O0	4	0	3,726,957:90:0	
309	96	340	07:55:04.066	20WD4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,726,987:18:0	
310	96	340	07:55:54.066	20WD4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,726,988:02:0	
311	96	340	07:57:54.066	176K6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,726,990:00:0	
312	96	340	08:04:10.733	488BH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,726,996:19:0	
313	96	340	09:44:26.733	488BH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,727,095:34:0	
314	96	340	09:45:16.733	488BH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,727,096:18:0	
315	96	340	14:17:20.733	488BI6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,727,365:25:0	
316	96	340	16:29:46.733	488BI6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,727,496:23:0	
317	96	340	16:54:02.066	488BI6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,727,520:22:0	
318	96	340	21:36:20.066	488BJ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,727,799:40:0	
319	96	340	22:08:58.733	488BJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,727,831:66:0	
320	96	340	22:40:58.733	488BJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,727,863:34:0	
321	96	340	23:17:14.733	488BJ6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,727,899:22:0	
322	96	341	01:29:30.733	488BJ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,728,030:05:0	
323	96	341	08:04:10.733	488BK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,728,420:35:0	
324	96	341	09:25:34.000	488BK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,728,500:80:0	
325	96	341	09:29:31.333	488BK6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,728,504:72:0	
326	96	341	10:05:46.666	488BK6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,728,540:59:0	
327	96	341	10:31:18.000	488BK6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,728,565:81:0	
328	96	341	11:16:10.666	488BL6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,728,610:25:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	96	341	16:23:22.666	488BL6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,728,914:09:0	
330	96	341	16:48:58.666	488BL6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,728,939:38:0	
331	96	341	17:46:16.666	488BM6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,728,996:08:0	
332	96	341	18:52:42.666	488BM6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,729,061:72:0	
333	96	341	18:58:59.333	488BM6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,729,068:00:0	
334	96	341	19:35:47.333	488BM6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,729,104:36:0	
335	96	341	21:11:22.666	488BM6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,729,198:85:0	
336	96	341	21:43:22.666	488BN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,729,230:53:0	
337	96	341	22:15:22.666	488BN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,729,262:21:0	
338	96	341	23:32:10.666	488BN6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,729,338:17:0	
339	96	342	01:18:50.666	488BN6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,729,443:62:0	
340	96	342	02:45:14.666	488BN6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,729,529:12:0	
341	96	342	02:58:54.000	488BO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,729,542:58:0	
342	96	342	07:59:54.666	488BO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,729,840:31:0	
343	96	342	09:33:46.666	488BP6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,729,933:16:0	
344	96	342	09:33:56.666	488BP6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,729,933:31:0	
345	96	342	10:31:14.666	488BP6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,729,990:01:0	
346	96	342	11:16:10.666	488BP6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,730,034:41:0	
347	96	342	16:05:54.600	176G6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,730,321:00:0	
348	96	342	16:10:57.933	176KR6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,730,326:00:0	
349	96	342	16:14:50.600	488BQ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,730,329:76:0	
350	96	342	16:14:59.266	165QM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,730,329:89:0	
351	96	342	16:14:59.933	165QM4B	7SCAN	NORM,175.751999,	Check S/P Position	1O0	4	0	3,730,329:90:0	
352	96	342	16:41:16.600	165QN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,730,355:89:0	
353	96	342	16:41:17.266	165QN4B	7SCAN	NORM,175.719999,	Check S/P Position	1O0	4	0	3,730,355:90:0	
354	96	342	16:48:02.600	488BQ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,730,362:61:0	
355	96	342	17:03:54.600	488BQ6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,730,378:33:0	
356	96	342	17:11:03.933	20WE4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,730,385:40:0	
357	96	342	17:11:53.933	20WE4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,730,386:24:0	
358	96	342	17:14:39.933	176L6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,730,389:00:0	
359	96	342	17:32:15.266	488BQ6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,730,406:36:0	
360	96	342	18:14:18.600	488BQ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,730,447:90:0	
361	96	342	19:07:38.600	488BR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,730,500:67:0	
362	96	342	21:22:02.600	488BR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,730,633:60:0	
363	96	342	21:54:02.600	488BR6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,730,665:28:0	
364	96	342	23:10:50.600	488BR6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,730,741:24:0	
365	96	343	01:18:50.600	488BS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,730,867:78:0	
366	96	343	07:53:30.600	488BT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,731,258:17:0	
367	96	343	09:18:50.600	488BT6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,731,342:53:0	
368	96	343	09:28:51.266	488BT6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,731,352:44:0	
369	96	343	10:26:10.600	488BT6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,731,409:16:0	
370	96	343	11:22:34.600	488BT6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,731,464:87:0	
371	96	343	16:08:26.600	488BU6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,731,747:62:0	
372	96	343	16:43:51.266	488BU6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,731,782:64:0	
373	96	343	17:46:09.933	488BU6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,731,844:30:0	
374	96	343	18:49:42.600	488BU6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,731,907:16:0	
375	96	343	19:01:14.600	488BU6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,731,918:53:0	
376	96	343	19:30:54.600	488BV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,731,947:84:0	
377	96	343	21:07:06.600	488BV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,732,043:06:0	
378	96	343	21:39:07.200	488BV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,732,074:66:0	
379	96	343	22:11:06.533	488BV6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,732,106:33:0	
380	96	344	00:02:02.533	488BV6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,732,216:07:0	
381	96	344	00:44:42.533	488BW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,732,258:25:0	
382	96	344	00:45:00.533	488BW6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,732,258:52:0	
383	96	344	01:37:20.533	488BW6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,732,310:30:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	96	344	02:40:21.866	488BW6D	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,732,372:60:0	
385	96	344	02:54:00.533	488BW6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,732,386:14:0	
386	96	344	02:57:40.533	488BX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,732,389:71:0	
387	96	344	07:39:59.866	176UV6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,732,669:00:0	
388	96	344	07:43:59.866	41T99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	1O0	4	0	3,732,672:87:0	
389	**96**	**344**	**07:44:03.866**	**41T3G**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,732,673:02:0**	
390	**96**	**344**	**07:44:13.866**	**41T3H**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,732,673:17:0**	
391	**96**	**344**	**07:44:23.866**	**41T3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,732,673:32:0**	
392	**96**	**344**	**07:44:33.866**	**41T3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,732,673:47:0**	
393	**96**	**344**	**07:44:43.866**	**41T3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,732,673:62:0**	
394	**96**	**344**	**07:44:53.866**	**41T3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,732,673:77:0**	
395	96	344	07:47:04.533	176ZA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,732,676:00:0	
396	96	344	07:53:30.533	488BX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,732,682:33:0	
397	96	344	09:20:24.533	488BY6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,732,768:28:0	
398	96	344	09:23:06.533	488BY6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,732,770:89:0	
399	96	344	09:42:20.533	176ZB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,732,790:00:0	
400	96	344	09:46:21.866	165BR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,732,793:89:0	
401	96	344	09:46:22.533	165BR4B	7SCAN	NORM,239.896999,	Check S/P Position	1O0	4	0	3,732,793:90:0	
402	**96**	**344**	**09:49:25.200**	**432BC6B**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**1O0**	**4**	**0**	**3,732,797:00:0**	
403	96	344	09:50:16.533	117BA	**CSMOS**	GS	***** GROUP START CSMOS	1O0	4	0	3,732,797:77:0	
404	96	344	09:50:25.866	117BA105A106A4A	7STRP	-0.017502,0.0,0,	Slew =,0.01	1O0	4	0	3,732,798:00:0	
405	96	344	10:17:09.200	488BY6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,732,824:39:0	
406	96	344	10:19:45.200	117BA105A106A4B	7STRP	0.017502,0.0,0,0	Slew =12.01	1O0	4	0	3,732,827:00:0	
407	96	344	10:20:45.866	117BA105A106A4C	7STRP	-0.017502,0.0,0,	Slew =,0.01	1O0	4	0	3,732,828:00:0	
408	96	344	10:50:05.200	117BA105A106A4D	7STRP	0.017502,0.0,0,0	Slew =12.01	1O0	4	0	3,732,857:00:0	
409	96	344	10:51:05.866	117BA105A106A4E	7STRP	-0.017502,0.0,0,	Slew =,0.01	1O0	4	0	3,732,858:00:0	
410	96	344	10:59:06.533	488BY6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,732,865:84:0	
411	96	344	11:20:25.200	117BA105A106A4F	7STRP	0.017502,0.0,0,0	Slew =12.01	1O0	4	0	3,732,887:00:0	
412	96	344	11:21:25.866	117BA105A106A4G	7STRP	-0.017502,0.0,0,	Slew =,0.01	1O0	4	0	3,732,888:00:0	
413	96	344	11:37:54.533	488BY6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,732,904:27:0	
414	96	344	11:50:45.200	117BA105A106A4H	7STRP	0.017502,0.0,0,0	Slew =12.01	1O0	4	0	3,732,917:00:0	
415	96	344	11:51:45.866	117BA105A106A4I	7STRP	-0.017502,0.0,0,	Slew =,0.01	1O0	4	0	3,732,918:00:0	
416	96	344	12:21:05.200	117BA11A	**CSMOS**	GE	***** GROUP END CSMOS	1O0	4	0	3,732,947:00:0	
417	96	344	12:23:11.200	20UX4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,732,949:07:0	
418	96	344	12:24:01.200	20UX4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,732,949:82:0	
419	96	344	12:24:07.200	176ZC6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,732,950:00:0	
420	96	344	12:35:11.200	488BZ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,732,960:86:0	
421	96	344	15:34:59.866	41UB99A	**POWER**	**PWR MODE change**	Change to Playback Mode	1O0	4	0	3,733,138:71:0	
422	**96**	**344**	**15:35:03.866**	**41UB3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,733,138:77:0**	
423	**96**	**344**	**15:35:13.866**	**41UB3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**1O0**	**4**	**0**	**3,733,139:01:0**	
424	**96**	**344**	**15:35:23.866**	**41UB3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,733,139:16:0**	
425	**96**	**344**	**15:35:33.866**	**41UB3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**1O0**	**4**	**0**	**3,733,139:31:0**	
426	**96**	**344**	**15:37:43.866**	**41UB3G**	**37F2P**	**1**	**Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,733,141:44:0**	
427	**96**	**344**	**15:37:53.866**	**41UB3H**	**37F2P**	**2**	**Shield Flash Heater ON (primary relay)**	**1O0**	**4**	**0**	**3,733,141:59:0**	
428	96	344	15:41:17.200	176ZD6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,733,145:00:0	
429	96	344	15:45:03.866	20UE4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,733,148:67:0	
430	96	344	15:45:53.866	20UE4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,733,149:51:0	
431	96	344	15:47:21.200	176VV6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,733,151:00:0	
432	96	344	16:28:04.533	488BZ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,733,191:25:0	
433	96	344	16:34:02.533	488BZ6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,733,197:16:0	
434	96	344	17:27:07.866	488BZ6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,733,249:62:0	
435	96	344	18:10:02.533	488BZ6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,733,292:11:0	
436	96	344	18:34:09.200	488CA6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,733,315:88:0	
437	96	344	19:08:17.866	488CA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,733,349:67:0	
438	96	344	19:16:10.533	488CA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,733,357:48:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	96	344	21:15:38.533	488CA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,733,475	62:0
440	96	344	21:47:38.533	488CA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,733,507	30:0
441	96	344	23:06:34.533	488CB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,733,585	36:0
442	96	345	01:03:54.533	488CB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,733,701	40:0
443	96	345	07:49:14.466	488CC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,734,102	29:0
444	96	345	08:51:47.800	488CC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,734,164	17:0
445	96	345	08:59:38.466	488CC6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,734,171	86:0
446	96	345	10:26:05.133	488CC6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,734,257	40:0
447	96	345	11:26:50.466	488CC6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,734,317	48:0
448	96	345	12:26:57.133	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	1O0	4	0	3,734,376	89:0
449	96	345	12:31:07.133	20ZM6A	6EUVON			1O0	4	0	3,734,381	09:0
450	96	345	12:32:01.800	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	1O0	4	0	3,734,382	00:0
451	96	345	12:55:17.133	176BA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,734,405	00:0
452	96	345	12:58:17.800	165BQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,734,407	89:0
453	96	345	12:58:18.466	165BQ4B	7SCAN	NORM,195.551998,	Check S/P Position	1O0	4	0	3,734,407	90:0
454	96	345	13:02:21.800	20UH4A	**7CONE**	**17.45,89.997267**	Check S/P Position	1O0	4	0	3,734,412	00:0
455	96	345	13:02:57.800	20UH4B	7STAT	17.45,268.037384	Stator inertial point	1O0	4	0	3,734,412	54:0
456	96	345	13:04:23.133	176BB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,734,414	00:0
457	96	345	15:04:42.466	176ZE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,734,533	00:0
458	96	345	15:08:03.800	20UY4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,734,536	29:0
459	96	345	15:08:53.800	20UY4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,734,537	13:0
460	96	345	15:09:45.800	176ZF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,734,538	00:0
461	96	345	15:49:14.466	488CD6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,734,577	04:0
462	96	345	16:38:45.133	488CD6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,734,626	01:0
463	96	345	17:46:03.800	488CD6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,734,692	53:0
464	96	345	18:42:58.466	488CD6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,734,748	79:0
465	96	345	19:28:58.466	488CD6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,734,794	33:0
466	**96**	**345**	**19:29:45.133**	**31AH6A**	**6CKSUM**	**NIMS**	**NIMS,1000,14B3**	**1O0**	**4**	**0**	**3,734,795**	**12:0**
467	**96**	**345**	**19:31:45.133**	**31AH6B**	**6MROH**	**12**	**read from LLM1A12,2282,0,A2**	**1O0**	**4**	**0**	**3,734,797**	**10:0**
468	96	345	19:36:05.800	488CE6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,734,801	37:0
469	**96**	**345**	**19:40:45.133**	**31AH6D**	**6MROH**	**12**	**read from LLM1A12,2282,0,A2**	**1O0**	**4**	**0**	**3,734,806**	**01:0**
470	96	345	21:00:42.466	488CE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,734,885	08:0
471	96	345	21:32:42.466	488CE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,734,916	67:0
472	96	345	22:15:22.466	488CE6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,734,958	85:0
473	96	345	23:16:06.466	176UF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,735,019	00:0
474	96	345	23:22:10.466	176KG6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,735,025	00:0
475	96	345	23:27:12.466	165QO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,735,029	89:0
476	96	345	23:27:13.133	165QO4B	7SCAN	NORM,171.363998,	Check S/P Position	1O0	4	0	3,735,029	90:0
477	96	345	23:52:29.133	165QP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,735,054	89:0
478	96	345	23:52:29.800	165QP4B	7SCAN	NORM,171.390999,	Check S/P Position	1O0	4	0	3,735,054	90:0
479	96	346	00:21:03.800	20US4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,735,083	22:0
480	96	346	00:21:53.800	20US4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,735,084	06:0
481	96	346	00:23:51.133	176VG6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,735,086	00:0
482	96	346	00:40:01.800	176H6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,735,102	00:0
483	96	346	00:46:05.800	176KH6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,735,108	00:0
484	96	346	00:51:07.800	165QQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,735,112	89:0
485	96	346	00:51:08.466	165QQ4B	7SCAN	NORM,191.294998,	Check S/P Position	1O0	4	0	3,735,112	90:0
486	96	346	01:20:27.133	165BD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,735,141	89:0
487	96	346	01:20:27.800	165BD4B	7SCAN	NORM,195.551998,	Check S/P Position	1O0	4	0	3,735,141	90:0
488	96	346	01:22:05.133	20UI4A	**7CONE**	**17.45,89.997267**	Check S/P Position	1O0	4	0	3,735,143	54:0
489	96	346	01:22:41.133	20UI4B	7STAT	17.45,268.037384	Stator inertial point	1O0	4	0	3,735,144	17:0
490	96	346	01:24:31.133	176BD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,735,146	00:0
491	96	346	02:30:27.800	488CF6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,735,211	20:0
492	96	346	02:44:07.133	488CF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,735,224	66:0
493	96	346	07:29:59.800	418JC6A	6BUFHI	8	MUB Buffer high water	1O0	4	0	3,735,507	42:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	96	346	07:42:50.466	488CF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,735,520	15:0
495	96	346	09:03:54.466	488CG6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,735,600	31:0
496	96	346	09:18:42.466	488CG6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,735,614	89:0
497	96	346	10:26:01.733	488CG6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,735,681	51:0
498	96	346	11:26:50.400	488CG6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,735,741	64:0
499	96	346	11:41:17.733	176UH6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,735,756	00:0
500	96	346	11:47:21.733	176KI6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,735,762	00:0
501	96	346	11:52:23.733	165QR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,735,766	89:0
502	96	346	11:52:24.400	165QR4B	7SCAN	NORM,196.428999,	Check S/P Position	1O0	4	0	3,735,766	90:0
503	96	346	12:26:46.400	165QS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,735,800	89:0
504	96	346	12:26:47.066	165QS4B	7SCAN	NORM,196.550999,	Check S/P Position	1O0	4	0	3,735,800	90:0
505	96	346	12:56:03.733	20UT4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,735,829	86:0
506	96	346	12:56:53.733	20UT4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,735,830	70:0
507	96	346	12:58:08.400	176VH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,735,832	00:0
508	96	346	13:07:14.400	176BE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,735,841	00:0
509	96	346	13:10:15.066	165BE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,735,843	89:0
510	96	346	13:10:15.733	165BE4B	7SCAN	NORM,195.551998,	Check S/P Position	1O0	4	0	3,735,843	90:0
511	96	346	13:13:25.733	20UJ4A	**7CONE**	**17.45,89.997267**	Check S/P Position	1O0	4	0	3,735,847	11:0
512	96	346	13:14:01.733	20UJ4B	7STAT	17.45,268.037384	Stator inertial point	1O0	4	0	3,735,847	65:0
513	96	346	13:15:19.733	176BF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,735,849	00:0
514	96	346	15:38:34.400	488CH6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,735,990	61:0
515	96	346	16:14:17.733	176BG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,736,026	00:0
516	96	346	16:17:18.400	165BF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,736,028	89:0
517	96	346	16:17:19.066	165BF4B	7SCAN	NORM,196.928999,	Check S/P Position	1O0	4	0	3,736,028	90:0
518	96	346	16:20:23.733	20UK4A	**7CONE**	**17.45,91.532845**	Check S/P Position	1O0	4	0	3,736,032	03:0
519	96	346	16:20:59.733	20UK4B	7STAT	17.45,267.796765	Stator inertial point	1O0	4	0	3,736,032	57:0
520	96	346	16:22:23.066	176BH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,736,034	00:0
521	96	346	16:23:42.400	488CH6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,736,035	28:0
522	96	346	17:50:50.400	488CH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,736,121	44:0
523	96	346	17:52:12.400	488CH6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,736,122	76:0
524	96	346	17:59:59.733	418JD6A	6BUFHI	10	MUB Buffer high water	1O0	4	0	3,736,130	49:0
525	96	346	19:31:06.400	488CH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,736,220	59:0
526	96	346	19:56:00.400	488CI6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	1O0	4	0	3,736,245	25:0
527	96	346	20:48:20.400	488CI6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	1O0	4	0	3,736,297	03:0
528	96	346	21:11:22.400	488CI6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	1O0	4	0	3,736,319	74:0
529	96	346	21:43:22.400	488CI6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	1O0	4	0	3,736,351	42:0
530	96	346	22:08:40.400	488CI6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,736,376	44:0
531	96	346	23:25:46.400	488CJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	1O0	4	0	3,736,452	67:0
532	96	347	00:34:02.400	488CJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,736,520	23:0
533	96	347	01:25:21.066	176BI6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,736,571	00:0
534	96	347	01:28:21.733	165BG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,736,573	89:0
535	96	347	01:28:22.400	165BG4B	7SCAN	NORM,198.365,-9.	Check S/P Position	1O0	4	0	3,736,573	90:0
536	96	347	01:31:03.733	20UL4A	**7CONE**	**17.45,92.984851**	Check S/P Position	1O0	4	0	3,736,576	59:0
537	96	347	01:31:39.733	20UL4B	7STAT	17.45,268.246169	Stator inertial point	1O0	4	0	3,736,577	22:0
538	96	347	01:33:26.400	176BJ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,736,579	00:0
539	96	347	06:59:59.733	418JE6A	6BUFHI	7	MUB Buffer high water	1O0	4	0	3,736,901	88:0
540	96	347	07:42:50.400	488CK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,736,944	31:0
541	96	347	09:04:26.400	488CK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,737,025	04:0
542	96	347	09:08:10.400	488CK6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,737,028	67:0
543	96	347	09:44:26.400	488CK6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,737,064	55:0
544	96	347	11:00:59.066	488CK6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,737,140	28:0
545	96	347	11:10:47.066	176TC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,737,150	00:0
546	96	347	11:16:51.066	176KJ6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,737,156	00:0
547	96	347	11:20:52.400	165QT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,737,159	89:0
548	96	347	11:20:53.066	165QT4B	7SCAN	NORM,196.411999,	Check S/P Position	1O0	4	0	3,737,159	90:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	96	347	11:43:03.733	488CL6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,737,181:84:0	
550	96	347	11:46:09.066	165QU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,737,184:89:0	
551	96	347	11:46:09.733	165QU4B	7SCAN	NORM,196.605999,	Check S/P Position	1O0	4	0	3,737,184:90:0	
552	96	347	12:15:28.400	165BH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,737,213:89:0	
553	96	347	12:15:29.066	165BH4B	7SCAN	NORM,199.516998,	Check S/P Position	1O0	4	0	3,737,213:90:0	
554	96	347	12:17:03.733	20UM4A	**7CONE**	**17.45,94.292806**	Check S/P Position	1O0	4	0	3,737,215:50:0	
555	96	347	12:17:39.733	20UM4B	7STAT	17.45,267.909152	Stator inertial point	1O0	4	0	3,737,216:13:0	
556	96	347	12:19:32.400	176BL6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,737,218:00:0	
557	96	347	12:40:20.400	488CL6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,737,238:52:0	
558	96	347	15:16:29.066	176BM6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,737,393:00:0	
559	96	347	15:19:29.733	165BI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,737,395:89:0	
560	96	347	15:19:30.400	165BI4B	7SCAN	NORM,195.401999,	Check S/P Position	1O0	4	0	3,737,395:90:0	
561	96	347	15:22:03.733	20UN4A	**7CONE**	**17.45,89.997615**	Check S/P Position	1O0	4	0	3,737,398:47:0	
562	96	347	15:22:39.733	20UN4B	7STAT	17.45,267.207738	Stator inertial point	1O0	4	0	3,737,399:10:0	
563	96	347	15:24:34.400	176BN6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,737,401:00:0	
564	96	347	16:08:26.333	488CL6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,737,444:35:0	
565	96	347	16:08:43.000	488CL6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,737,444:60:0	
566	96	347	16:51:06.333	488CL6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,737,486:53:0	
567	96	347	17:20:57.666	488CM6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	1O0	4	0	3,737,516:10:0	
568	96	347	17:50:50.333	488CM6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,737,545:60:0	
569	96	347	18:00:00.333	418JF6A	6BUFHI	9	MUB Buffer high water	1O0	4	0	3,737,554:66:0	
570	96	347	18:24:18.333	488CM6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,737,578:69:0	
571	96	347	18:58:26.333	488CM6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	1O0	4	0	3,737,612:47:0	
572	96	347	19:20:09.666	176BO6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,737,634:00:0	
573	96	347	19:24:11.000	165BJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,737,637:89:0	
574	96	347	19:24:11.666	165BJ4B	7SCAN	NORM,195.75,-7.4	Check S/P Position	1O0	4	0	3,737,637:90:0	
575	96	347	19:27:06.333	20UO4A	**7CONE**	**17.45,89.998519**	Check S/P Position	1O0	4	0	3,737,640:79:0	
576	96	347	19:27:42.333	20UO4B	7STAT	17.45,269.148667	Stator inertial point	1O0	4	0	3,737,641:42:0	
577	96	347	19:29:15.666	176BP6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,737,643:00:0	
578	96	347	19:41:46.333	488CM6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,737,655:34:0	
579	96	347	21:07:06.333	488CN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	1O0	4	0	3,737,739:70:0	
580	96	347	21:41:14.333	488CN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,737,773:48:0	
581	**96**	**348**	**00:00:21.289**	**C3NNE4PREP01-**		**-----START------**		**1O0**	**4**	**0**	**: :**	
582	96	348	00:24:30.333	176I6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,737,935:00:0	
583	96	348	00:30:34.333	176KK6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,737,941:00:0	
584	**96**	**348**	**00:30:41.289**	**C3NNE4PREP01-**		**-----STOP-------**		**1O0**	**4**	**0**	**: :**	
585	96	348	00:34:35.666	165QV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,737,944:89:0	
586	96	348	00:34:36.333	165QV4B	7SCAN	NORM,210.584999,	Check S/P Position	1O0	4	0	3,737,944:90:0	
587	96	348	01:04:04.333	20UV4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	1O0	4	0	3,737,974:12:0	
588	96	348	01:04:54.333	20UV4B	7SLEW	DIS,POS,0.0	Stator movement	1O0	4	0	3,737,974:87:0	
589	96	348	01:06:58.333	176N6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,737,977:00:0	
590	96	348	01:25:10.333	176BQ6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,737,995:00:0	
591	96	348	01:28:11.000	165BK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,737,997:89:0	
592	96	348	01:28:11.666	165BK4B	7SCAN	NORM,196.165998,	Check S/P Position	1O0	4	0	3,737,997:90:0	
593	96	348	01:31:21.666	20A4A	**7CONE**	**17.45,91.199940**	Check S/P Position	1O0	4	0	3,738,001:11:0	
594	96	348	01:31:57.666	20A4B	7STAT	17.45,265.308074	Stator inertial point	1O0	4	0	3,738,001:65:0	
595	96	348	01:34:16.333	176BR6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,738,004:00:0	
596	96	348	04:00:00.333	481UF4A	7VECT		Inert vect update UTC	1O0	4	0	3,738,148:12:0	
597	96	348	06:30:31.666	176BW6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,738,297:00:0	
598	96	348	06:34:33.000	165BS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,738,300:89:0	
599	96	348	06:34:33.666	165BS4B	7SCAN	NORM,195.886999,	Check S/P Position	1O0	4	0	3,738,300:90:0	
600	96	348	06:35:04.333	20UW4A	**7CONE**	**17.45,90.90**	Check S/P Position	1O0	4	0	3,738,301:45:0	
601	96	348	06:35:40.333	20UW4B	7STAT	17.45,265.309781	Stator inertial point	1O0	4	0	3,738,302:08:0	
602	96	348	06:39:37.666	176BX6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,738,306:00:0	
603	96	348	07:23:38.333	488CO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,738,349:48:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters		Description	GCM	GO	GS	RIM	MF I
604	96	348	07:35:14.333	176BS6A	6TMREC	**PPB**		PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,738,361:00:0	
605	96	348	07:38:15.000	165BL4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	1O0	4	0	3,738,363:89:0	
606	96	348	07:38:15.666	165BL4B	7SCAN	NORM,203.544998,		Check S/P Position	1O0	4	0	3,738,363:90:0	
607	96	348	07:41:04.333	20B4A	**7CONE**	**17.45,98.486421**		Check S/P Position	1O0	4	0	3,738,366:70:0	
608	96	348	07:41:40.333	20B4B	7STAT	17.45,268.456316		Stator inertial point	1O0	4	0	3,738,367:33:0	
609	96	348	07:43:19.666	176BT6A	6TMREC	**RPB**		RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,738,369:00:0	
610	96	348	08:53:14.333	488CO6B	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,738,438:13:0	
611	96	348	09:13:36.333	488CO6C	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,738,458:26:0	
612	**96**	**348**	**10:00:42.333**	**33A3A**	**37F2PR**		**1**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,738,504:79:0**	
613	**96**	**348**	**10:01:02.333**	**33B3A**	**40T1P**		**1**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,738,505:18:0**	
614	**96**	**348**	**10:01:22.333**	**33C3A**	**40T2**		**1**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,738,505:48:0**	
615	96	348	10:20:55.666	488CO6D	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,738,524:79:0	
616	96	348	11:41:46.333	488CO6E	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,738,604:75:0	
617	96	348	15:19:22.333	488CP6A	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,738,820:03:0	
618	96	348	15:45:37.666	176BU6A	6TMREC	**PPB**		PAUSE PLAYBACK (PB CONTROL) Record Mode C	1O0	4	0	3,738,846:00:0	
619	96	348	15:48:38.333	165BM4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	1O0	4	0	3,738,848:89:0	
620	96	348	15:48:39.000	165BM4B	7SCAN	NORM,205.339998,		Check S/P Position	1O0	4	0	3,738,848:90:0	
621	96	348	15:51:04.333	20C4A	**7CONE**	**17.45,100.379262**		Check S/P Position	1O0	4	0	3,738,851:35:0	
622	96	348	15:51:40.333	20C4B	7STAT	17.45,268.460645		Stator inertial point	1O0	4	0	3,738,851:89:0	
623	96	348	15:53:43.000	176BV6A	6TMREC	**RPB**		RESUME PLAYBACK (PB CONTROL) Record Mode	1O0	4	0	3,738,854:00:0	
624	96	348	16:28:24.333	488CP6B	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,738,888:28:0	
625	96	348	16:44:42.333	488CP6C	6TMSED	FILL,AL1		Sci, Eng, and D/L Chan	1O0	4	0	3,738,904:39:0	
626	96	348	17:20:58.333	488CP6D	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,738,940:27:0	
627	96	348	17:40:55.000	488CP6E	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,738,960:02:0	
628	96	348	18:16:17.000	176TB6A	6TMREC	**TPB**		TERMINATE PLAYBACK (PB CONTROL) Record Mo	1O0	4	0	3,738,995:00:0	
629	96	348	18:23:21.666		DMS:	: *SLEW-TIC		P7, TRACK 1, FWD, TIC 802.00 +/-	1O0	4	0	3,739,002:00:0	
630	96	348	18:23:21.666	465WA6A	6DMST		5000	DMS Slew to TIC	1O0	4	0	3,739,002:00:0	
631	96	348	18:33:07.666	488CQ6A	6TMSED	FILL,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,739,011:60:0	
632	96	348	19:30:24.333	488CQ6B	6TMSED	NORM,AL2		Sci, Eng, and D/L Chan	1O0	4	0	3,739,068:28:0	
633	96	348	19:56:42.333	488CQ6C	6TMSED	NORM,AL3		Sci, Eng, and D/L Chan	1O0	4	0	3,739,094:29:0	
634	96	348	20:00:00.333	418JG6A	6BUFHI		10	MUB Buffer high water	1O0	4	0	3,739,097:53:0	
635	96	348	20:52:10.333	488CQ6D	6TMSED	NORM,AL4		Sci, Eng, and D/L Chan	1O0	4	0	3,739,149:16:0	
636	96	348	21:24:10.333	488CQ6E	6TMSED	NORM,AL5		Sci, Eng, and D/L Chan	1O0	4	0	3,739,180:75:0	
637	96	348	22:30:18.266	488CR6A	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	1O0	4	0	3,739,246:21:0	
638	96	349	00:17:02.933	465WB6A	6DMSC	P100,2		DMS Control Tape P/B 100.8kbps	1O0	4	0	3,739,351:73:0	
639	96	349	00:42:54.933	465WB6B	6DMSC	RDY,2		DMS Control Tape stop	1O0	4	0	3,739,377:35:0	
640	96	349	01:37:07.600	176KL6A	6TMREC	ORT		OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,739,431:00:0	
641	96	349	01:42:09.600	165QW4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	1O0	4	0	3,739,435:89:0	
642	96	349	01:42:10.266	165QW4B	7SCAN	NORM,210.474998,		Check S/P Position	1O0	4	0	3,739,435:90:0	
643	96	349	02:12:29.600	165BN4A	7TMOT	DIS,TMC		Disable IVP - Target Motion	1O0	4	0	3,739,465:89:0	
644	96	349	02:12:30.266	165BN4B	7SCAN	NORM,207.0,-13.0		Check S/P Position	1O0	4	0	3,739,465:90:0	
645	96	349	02:25:36.933	488CR6B	6TMSED	FILL,AL6		Sci, Eng, and D/L Chan	1O0	4	0	3,739,478:87:0	
646	96	349	02:39:15.600	488CR6C	6TMSED	NORM,AL6		Sci, Eng, and D/L Chan	1O0	4	0	3,739,492:41:0	
647	96	349	02:53:00.266	488CR6D	6TMSED	NORM,AH6		Sci, Eng, and D/L Chan	1O0	4	0	3,739,506:04:0	
648	96	349	03:06:06.266	176VA6A	6TMREC	**NRC**		NO RECORD Record Mode Change	1O0	4	0	3,739,519:00:0	
649	96	349	03:10:02.266	465WC6A	6DTRN	CMD,6DTRN,465WC6		DMS TRACK TURNAROUND	1O0	4	0	3,739,522:81:0	
650	96	349	03:20:03.600	465WD6A	6DMSC	P100,1		DMS Control Tape P/B 100.8kbps	1O0	4	0	3,739,532:73:0	
651	96	349	03:51:58.933	465WD6B	6DMSC	RDY,1		DMS Control Tape stop	1O0	4	0	3,739,564:34:0	
652	96	349	04:07:34.933	465WE6A	6DMSC	P100,2		DMS Control Tape P/B 100.8kbps	1O0	4	0	3,739,579:73:0	
653	96	349	04:39:45.600	465WF6A	6DMSC	P100,3		DMS Control Tape P/B 100.8kbps	1O0	4	0	3,739,611:57:0	
654	96	349	05:11:48.933	465WF6B	6DMSC	RDY,3		DMS Control Tape stop	1O0	4	0	3,739,643:30:0	
655	96	349	05:26:26.933	465WG6A	6DMSC	P100,4		DMS Control Tape P/B 100.8kbps	1O0	4	0	3,739,657:73:0	
656	96	349	05:58:36.933	465WH6A	6DMSC	P100,3		DMS Control Tape P/B 100.8kbps	1O0	4	0	3,739,689:56:0	
657	96	349	05:59:44.266	465WH6B	6DMSC	RDY,3		DMS Control Tape stop	1O0	4	0	3,739,690:66:0	
658	96	349	06:14:10.266	465WI6A	6DMSC	RDY,2		DMS Control Tape stop	1O0	4	0	3,739,705:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	96	349	06:15:04.266	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	1O0	4	0	3,739,705:81:0	
660	**96**	**349**	**06:35:00.266**	**20EZ3A**	**37F2PR**	**1**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,739,725:55:0**	
661	**96**	**349**	**06:35:04.266**	**20EZ3B**	**37F2PR**	**2**	**Shield Flash Heater OFF (primary relay)**	**1O0**	**4**	**0**	**3,739,725:61:0**	
662	**96**	**349**	**06:35:08.266**	**20EZ3C**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,739,725:67:0**	
663	**96**	**349**	**06:35:12.266**	**20EZ3D**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**1O0**	**4**	**0**	**3,739,725:73:0**	
664	**96**	**349**	**06:35:16.266**	**20EZ3E**	**40T2**	**1**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,739,725:79:0**	
665	**96**	**349**	**06:35:20.266**	**20EZ3F**	**40T2**	**2**	**PCT Heater 2 ON**	**1O0**	**4**	**0**	**3,739,725:85:0**	
666	96	349	06:40:00.266	488CS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	1O0	4	0	3,739,730:50:0	
667	96	349	07:21:54.933	176KM6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	1O0	4	0	3,739,772:00:0	
668	96	349	07:24:55.600	165QX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,739,774:89:0	
669	96	349	07:24:56.266	165QX4B	7SCAN	NORM,196.532,-8.	Check S/P Position	1O0	4	0	3,739,774:90:0	
670	96	349	07:27:54.266	488CS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,739,777:84:0	
671	96	349	07:30:58.933	432ME431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	1O0	4	0	3,739,780:88:0	
672	96	349	07:30:59.600	432ME6A	6RTSL1		R/T Select of DDS and	1O0	4	0	3,739,780:89:0	
673	96	349	07:52:13.600	165QY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,739,801:89:0	
674	96	349	07:52:14.266	165QY4B	7SCAN	NORM,196.355,-8.	Check S/P Position	1O0	4	0	3,739,801:90:0	
675	96	349	08:30:38.933	165QZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,739,839:89:0	
676	96	349	08:30:39.600	165QZ4B	7SCAN	NORM,195.754,-8.	Check S/P Position	1O0	4	0	3,739,839:90:0	
677	96	349	08:50:52.266	165LY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,739,859:89:0	
678	96	349	08:50:52.933	165LY4B	7SCAN	NORM,195.692999,	Check S/P Position	1O0	4	0	3,739,859:90:0	
679	96	349	08:56:34.933	488CS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	1O0	4	0	3,739,865:57:0	
680	96	349	08:59:38.266	488CS6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	1O0	4	0	3,739,868:59:0	
681	96	349	09:14:07.600	165BO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1O0	4	0	3,739,882:89:0	
682	96	349	09:14:08.266	165BO4B	7SCAN	NORM,195.712999,	Check S/P Position	1O0	4	0	3,739,882:90:0	
683	96	349	09:16:05.600	125FA	NIMSINIT	GS	##### GROUP START INIT	1O0	4	0	3,739,884:84:0	
684	**96**	**349**	**09:16:05.600**	**125FA4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**160**	**4**	**0**	**3,739,884:84:0**	
685	**96**	**349**	**09:17:06.266**	**125FA4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**1R0**	**4**	**0**	**3,739,885:84:0**	
686	**96**	**349**	**09:18:06.933**	**125FA4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**3,739,886:84:0**	
687	96	349	09:18:06.933	125FA11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	3,739,886:84:0	
688	96	349	09:19:07.600	125FC	NIMSINIT	GS	##### GROUP START INIT	1R0	4	0	3,739,887:84:0	
689	**96**	**349**	**09:19:07.600**	**125FC4A**	**37IST**	**1,0,0,OFF,0,1,1**	**Chopper ON, Sync, 63Hz (Ref)Gain State 4**	**460**	**4**	**0**	**3,739,887:84:0**	
690	**96**	**349**	**09:19:08.933**	**33D4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**4R0**	**4**	**0**	**3,739,887:86:0**	
691	96	349	09:20:08.266	125FC11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	3,739,888:84:0	
692	**96**	**349**	**09:20:08.266**	**125FC4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,739,888:84:0**	
693	**96**	**349**	**09:21:08.933**	**127FA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**3,739,889:84:0**	
694	96	349	09:21:08.933	127FA	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	3,739,889:84:0	
695	**96**	**349**	**09:21:09.600**	**127FA4B**	**37ETB**	**07,C7,31,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,739,889:85:0**	
696	**96**	**349**	**09:21:10.933**	**33E4A**	**37ETB**	**07,C7,31,87,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**3,739,889:87:0**	
697	96	349	09:21:19.600	127FA11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	3,739,890:09:0	
698	**96**	**349**	**09:22:34.266**	**432FA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**3,739,891:30:0**	
699	**96**	**349**	**09:23:10.266**	**125FB4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**3,739,891:84:0**	
700	96	349	09:23:10.266	125FB	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,739,891:84:0	
701	96	349	09:23:10.266	125FB11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,739,891:84:0	
702	**96**	**349**	**09:25:11.600**	**125FD4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**3,739,893:84:0**	
703	96	349	09:25:11.600	125FD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,739,893:84:0	
704	96	349	09:25:11.600	125FD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,739,893:84:0	
705	**96**	**349**	**09:25:22.333**	**C3NNNOPCAL01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
706	**96**	**349**	**09:26:35.600**	**432FB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**3,739,895:28:0**	
707	96	349	09:27:12.933	125FE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	3,739,895:84:0	
708	96	349	09:27:12.933	125FE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	3,739,895:84:0	
709	**96**	**349**	**09:27:12.933**	**125FE4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**3,739,895:84:0**	
710	**96**	**349**	**09:28:13.600**	**127FC4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**3,739,896:84:0**	
711	96	349	09:28:13.600	127FC	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	3,739,896:84:0	
712	**96**	**349**	**09:28:14.266**	**127FC4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**3,739,896:85:0**	
713	96	349	09:28:24.266	127FC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	3,739,897:09:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	**96**	**349**	**09:28:24.333**	**C3NNNOPCAL01-**		**-----STOP-------**		**4R0**	**4**	**0**	**: :**	
715	96	349	09:32:16.266	125FG	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	3,739,900:84:0	
716	**96**	**349**	**09:32:16.266**	**125FG4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**3,739,900:84:0**	
717	**96**	**349**	**09:33:16.933**	**125FG4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**3,739,901:84:0**	
718	96	349	09:34:17.600	125FG11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	3,739,902:84:0	
719	**96**	**349**	**09:34:17.600**	**125FG4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**3,739,902:84:0**	
720	96	349	10:11:54.266	488CS6E	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,739,940:11:0	
721	96	349	11:01:14.266	488CT6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,739,988:83:0	
722	96	349	11:18:09.600	488CT6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,740,005:59:0	
723	96	349	12:15:26.266	488CT6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,740,062:27:0	
724	96	349	15:49:14.266	488CT6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,740,273:68:0	
725	96	349	16:03:36.933	488CT6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,740,287:88:0	
726	96	349	17:11:54.266	488CU6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	4O0	4	0	3,740,355:46:0	
727	96	349	17:24:32.266	176KN6A	6TMREC	ORT	OPNAV - REAL TIME Record Mode Change	4O0	4	0	3,740,368:00:0	
728	96	349	17:26:32.266	165LZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,740,369:89:0	
729	96	349	17:26:32.933	165LZ4B	7SCAN	NORM,199.525,-9.	Check S/P Position	4O0	4	0	3,740,369:90:0	
730	96	349	17:55:06.266	488CU6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,740,398:21:0	
731	96	349	18:13:09.600	488CU6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	3,740,416:08:0	
732	96	349	18:41:21.600	165BP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4O0	4	0	3,740,443:89:0	
733	96	349	18:41:22.266	165BP4B	7SCAN	NORM,195.712999,	Check S/P Position	4O0	4	0	3,740,443:90:0	
734	**96**	**349**	**19:10:01.600**	**31AO3A**	**37AR**	**1**	**NIMS Power OFF**				**3,740,472:30:0**	
735	**96**	**349**	**19:10:09.600**	**31AO3B**	**37AR**	**2**	**NIMS Power OFF**				**3,740,472:42:0**	
736	**96**	**349**	**19:15:01.600**	**31AO3C**	**37A**	**1**	**NIMS Power ON**	**260**	**4**	**0**	**3,740,477:25:0**	
737	**96**	**349**	**19:15:09.600**	**31AO3D**	**37A**	**2**	**NIMS Power ON**	**260**	**4**	**0**	**3,740,477:37:0**	
738	**96**	**349**	**19:25:18.933**	**31Z5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**260**	**4**	**0**	**3,740,487:41:0**	
739	96	349	19:25:26.266	488CU6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	260	4	0	3,740,487:52:0	
740	**96**	**349**	**19:26:19.600**	**31Z5B**	**37MRL**		**Memory Realocate (software operates from R**	**260**	**4**	**0**	**3,740,488:41:0**	
741	**96**	**349**	**19:27:20.266**	**31Z6A,**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**260**	**4**	**0**	**3,740,489:41:0**	
742	**96**	**349**	**19:28:20.933**	**31Z6B,**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**260**	**4**	**0**	**3,740,490:41:0**	
743	**96**	**349**	**19:29:41.600**	**31Z6C,**	**6CKSUM**	**NIMS**	**NIMS,1000,14B3**	**260**	**4**	**0**	**3,740,491:71:0**	
744	**96**	**349**	**19:30:01.600**	**31Z6D,**	**6MROH**	**12**	**read from LLM1A12,2282,0,A2**	**260**	**4**	**0**	**3,740,492:10:0**	
745	**96**	**349**	**19:51:36.266**	**31Z5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**3,740,513:41:0**	
746	**96**	**349**	**20:00:21.600**	**31AP5A**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**3,740,522:10:0**	
747	96	349	20:41:30.266	488CU6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	260	4	0	3,740,562:73:0	
748	96	349	21:13:30.266	488CV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	260	4	0	3,740,594:41:0	
749	96	349	22:40:58.266	488CV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	260	4	0	3,740,680:87:0	
750	96	349	23:00:12.933	432KG431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	260	4	0	3,740,699:90:0	
751	**96**	**349**	**23:00:13.600**	**432KG6B**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**260**	**4**	**0**	**3,740,700:00:0**	
752	96	349	23:00:13.600	432KG6A	6RTSL1		R/T Select of DDS and	260	4	0	3,740,700:00:0	
753	**96**	**350**	**00:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**260**	**4**	**0**	**3,740,759:10:6**	
754	**96**	**350**	**00:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**260**	**4**	**0**	**3,740,759:10:6**	
755	**96**	**350**	**00:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**	
756	**96**	**350**	**00:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**	
757	**96**	**350**	**00:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**	
758	**96**	**350**	**00:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**	
759	**96**	**350**	**00:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**	
760	**96**	**350**	**00:00:00.000**	**20A3FE**	**40T1P**	**Final Condition**	**PCT Heater 1 ON (primary relay)**	**260**	**4**	**0**	**3,740,759:10:6**	
761	**96**	**350**	**00:00:00.000**	**20A3FF**	**40T2**	**Final Condition**	**PCT Heater 2 ON**	**260**	**4**	**0**	**3,740,759:10:6**	
762	96	350	00:00:00.266		DMS:	: READY	RDY, TRACK 3, FWD, TIC 201.62 +/-	260	4	0	3,740,759:11:0	

C3CNGLOBAL01

```
OAPEL:  C3CNGLOBAL01              ALIAS:  C3CNGLOBAL01
EXT:    A                         PSID:   DA
SCLK1:  03682729:87:0             SCLK2:  03682740:22:0
SCET1:    96-309/06:06:06.414     SCET2:    96-309/06:16:30.414
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_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   204                   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:     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

C3CNGLOBAL01

```
OAPEL:  C3CNGLOBAL01              ALIAS:  C3CNGLOBAL01
EXT:    B                         PSID:   DA
SCLK1:  03682741:23:0             SCLK2:  03682753:34:0
SCET1:    96-309/06:17:31.747     SCET2:    96-309/06:29:47.080
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_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   204                   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:     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

C3CNGLOBAL01

```
OAPEL:  C3CNGLOBAL01            ALIAS:  C3CNGLOBAL01
EXT:    C                       PSID:   DA
SCLK1:  03682754:34:0           SCLK2:  03682765:03:0
SCET1:    96-309/06:30:47.747   SCET2:    96-309/06:41:34.413
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_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:   204                 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:     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

C3CNCALLRT02

```
OAPEL:  C3CNCALLRT02            ALIAS:  C3CNCALLRT02
EXT:    R                       PSID:   FY
SCLK1:  03682923:00:0           SCLK2:  03682924:12:0
SCET1:  1996-309/09:21:17.733   SCET2:  1996-309/09:22:26.400
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

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

C3CNASGARD01

```
OAPEL:  C3CNASGARD01              ALIAS:  C3CNASGARD01
EXT:    A                         PSID:   DB
SCLK1:  03683089:84:0             SCLK2:  03683108:41:0
SCET1:    96-309/12:10:04.400     SCET2:    96-309/12:28:49.066
TARGET: CALLISTO                  PARTITION: 1

MODE:       1                     GAIN:       4
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   102                   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:     0113102001          01  13  102  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

C3CNARINGS01

```
OAPEL:  C3CNARINGS01              ALIAS:  C3CNARINGS01
EXT:    A                         PSID:   DC
SCLK1:  03683138:68:0             SCLK2:  03683149:62:0
SCET1:    96-309/12:59:27.066     SCET2:    96-309/13:10:30.399
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_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   204                   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:     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

C3CNCRATER01

```
OAPEL:  C3CNCRATER01              ALIAS:  C3CNCRATER01
EXT:    A                         PSID:   DD
SCLK1:  03683160:54:0             SCLK2:  03683164:16:0
SCET1:    96-309/13:21:32.398     SCET2:    96-309/13:25:09.066
TARGET: CALLISTO                  PARTITION: 1

MODE:       5                     GAIN:       4
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6           PTAB_B:     1 1 0 1 4 6
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:     0507102001          05  07  102  001
WTGRP_SIZ:  7
```

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	00000	0,0000,0000,0000,0000

C3CNCSPOTS01

```
OAPEL:  C3CNCSPOTS01            ALIAS:  C3CNCSPOTS01
EXT:    A                       PSID:   DE
SCLK1:  03683191:00:0           SCLK2:  03683192:90:0
SCET1:    96-309/13:52:16.397   SCET2:    96-309/13:54:17.730
TARGET: CALLISTO                PARTITION: 1

MODE:       1                   GAIN:       4
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 212         PTAB_B:     1 1 0 0 212
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:   103                 TLMFMT:     MPW

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

WETGID:     0113103001          01  13  103  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	00000	0,0000,0000,0000,0000
2	1FFFF	1,1111,1111,1111,1111
3	00000	0,0000,0000,0000,0000
4	1FFFF	1,1111,1111,1111,1111
5	00000	0,0000,0000,0000,0000
6	1FFFF	1,1111,1111,1111,1111
7	00008	0,0000,0000,0000,1000
8	1FFFF	1,1111,1111,1111,1111
9	00000	0,0000,0000,0000,0000
10	1FFFF	1,1111,1111,1111,1111
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000

C3JNFEA05101

```
OAPEL:  C3JNFEA05101            ALIAS:  C3JNFEA05101
EXT:    A                       PSID:   DF
SCLK1:  03683808:86:0           SCLK2:  03683810:61:0
SCET1:    96-310/00:17:05.707   SCET2:    96-310/00:18:50.374
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
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:    25                 TLMFMT:     LPU

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

WETGID:     0507025001          05  07  025  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11D81	1,0001,1101,1000,0001
2	19900	1,1001,1001,0000,0000
3	01902	0,0001,1001,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C01	0,0000,1100,0000,0001
6	00000	0,0000,0000,0000,0000

C3JNFEA05102

```
OAPEL:  C3JNFEA05102            ALIAS:  C3JNFEA05102
EXT:    A                       PSID:   DG
SCLK1:  03683878:87:0           SCLK2:  03683880:62:0
SCET1:    96-310/01:27:52.372   SCET2:    96-310/01:29:37.038
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
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:    25                 TLMFMT:     LPU

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

WETGID:     0507025001          05  07  025  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11D81	1,0001,1101,1000,0001
2	19900	1,1001,1001,0000,0000
3	01902	0,0001,1001,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C01	0,0000,1100,0000,0001
6	00000	0,0000,0000,0000,0000

C3JNFEA05103

OAPEL: C3JNFEA05103 ALIAS: C3JNFEA05103
EXT: A PSID: DH
SCLK1: 03683957:87:0 SCLK2: 03683959:62:0
SCET1: 96-310/02:47:45.036 SCET2: 96-310/02:49:29.702
TARGET: JUPITER PARTITION: 1

MODE: 5 GAIN: 2
CHOP: 1 GRAT_OFF: 4
PTAB_A: 1 1 0 1 4 6 PTAB_B: 1 1 0 1 4 6
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: 25 TLMFMT: LPU

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

WETGID: 0507025001 05 07 025 001
WTGRP_SIZ: 7

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11D81	1,0001,1101,1000,0001
2	19900	1,1001,1001,0000,0000
3	01902	0,0001,1001,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C01	0,0000,1100,0000,0001
6	00000	0,0000,0000,0000,0000

C3JNNTARRT01

OAPEL: C3JNNTARRT01 ALIAS: C3JNNTARRT01
EXT: R PSID: FF
SCLK1: 03684118:00:0 SCLK2: 03684118:12:0
SCET1: 1996-310/05:29:34.333 SCET2: 1996-310/05:29:42.333
TARGET: JUPITER PARTITION: 1

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

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

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

C3JNNTARRT02

OAPEL: C3JNNTARRT02 ALIAS: C3JNNTARRT02
EXT: R PSID: FF
SCLK1: 03684218:00:0 SCLK2: 03684218:12:0
SCET1: 1996-310/07:10:41.000 SCET2: 1996-310/07:10:49.000
TARGET: JUPITER PARTITION: 1

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

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

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

C3JNNTARRT03

```
OAPEL:  C3JNNTARRT03            ALIAS:  C3JNNTARRT03
EXT:    R                       PSID:   FG
SCLK1:  03684263:00:0           SCLK2:  03684263:12:0
SCET1:  1996-310/07:56:11.000   SCET2:  1996-310/07:56:19.000
TARGET: JUPITER                 PARTITION: 1

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

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

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

C3JNFEASUB01

```
OAPEL:  C3JNFEASUB01              ALIAS:  C3JNFEASUB01
EXT:    A                         PSID:   DK
SCLK1:  03684488:87:0             SCLK2:  03684494:49:0
SCET1:    96-310/11:44:39.016     SCET2:    96-310/11:50:17.683
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:   215                   TLMFMT:     LPU

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

WETGID:     0326215001          03  26  215  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	15DC0	1,0101,1101,1100,0000
1	15DC0	1,0101,1101,1100,0000
2	15DC0	1,0101,1101,1100,0000
3	11DC0	1,0001,1101,1100,0000
4	11DC0	1,0001,1101,1100,0000
5	11DC0	1,0001,1101,1100,0000
6	11DC0	1,0001,1101,1100,0000
7	1BFC0	1,1011,1111,1100,0000
8	1BF80	1,1011,1111,1000,0000
9	1BFC0	1,1011,1111,1100,0000
10	0BFC0	0,1011,1111,1100,0000
11	0BFC0	0,1011,1111,1100,0000
12	0BFC0	0,1011,1111,1100,0000
13	0BFC0	0,1011,1111,1100,0000
14	0BFC0	0,1011,1111,1100,0000
15	0BFC0	0,1011,1111,1100,0000
16	1BF80	1,1011,1111,1000,0000
17	1BF80	1,1011,1111,1000,0000
18	1BF00	1,1011,1111,0000,0000
19	1BF00	1,1011,1111,0000,0000
20	1BF80	1,1011,1111,1000,0000
21	1BF80	1,1011,1111,1000,0000
22	1BB80	1,1011,1011,1000,0000
23	1BB80	1,1011,1011,1000,0000
24	0D780	0,1101,0111,1000,0000
25	05580	0,0101,0101,1000,0000

C3JNPFTRAK01

```
OAPEL:  C3JNPFTRAK01            ALIAS:  C3JNPFTRAK01
EXT:    A                       PSID:   DM
SCLK1:  03684793:87:0           SCLK2:  03684800:63:0
SCET1:    96-310/16:53:02.337   SCET2:    96-310/16:59:51.004
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
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:    26                 TLMFMT:     LPU

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

WETGID:     0507026001          05  07  026  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11D81	1,0001,1101,1000,0001
2	19900	1,1001,1001,0000,0000
3	01902	0,0001,1001,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C09	0,0000,1100,0000,1001
6	00000	0,0000,0000,0000,0000

C3JNFEA01101

```
OAPEL:  C3JNFEA01101            ALIAS:  C3JNFEA01101
EXT:    A                       PSID:   DO
SCLK1:  03684966:86:0           SCLK2:  03684973:47:0
SCET1:    96-310/19:47:57.665   SCET2:    96-310/19:54:36.331
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
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:    25                 TLMFMT:     LPU

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

WETGID:     0507025001          05  07  025  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11D81	1,0001,1101,1000,0001
2	19900	1,1001,1001,0000,0000
3	01902	0,0001,1001,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C01	0,0000,1100,0000,0001
6	00000	0,0000,0000,0000,0000

C3JNFEA01104

```
OAPEL:  C3JNFEA01104            ALIAS:  C3JNFEA01104
EXT:    A                       PSID:   DQ
SCLK1:  03685082:86:0           SCLK2:  03685089:51:0
SCET1:    96-310/21:45:14.994   SCET2:    96-310/21:51:56.327
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       2
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
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:    25                 TLMFMT:     LPU

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

WETGID:     0507025001          05  07  025  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11D81	1,0001,1101,1000,0001
2	19900	1,1001,1001,0000,0000
3	01902	0,0001,1001,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C01	0,0000,1100,0000,0001
6	00000	0,0000,0000,0000,0000

C3INRTIMON01

```
OAPEL:  C3INRTIMON01            ALIAS:  C3INRTIMON01
EXT:    R                       PSID:   EY
SCLK1:  03685426:00:0           SCLK2:  03685427:12:0
SCET1:  1996-311/03:32:06.333   SCET2:  1996-311/03:33:15.000
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:       0                    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

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

C3INCHEMIS02

OAPEL: C3INCHEMIS02 ALIAS: C3INCHEMIS02
EXT: A PSID: DS
SCLK1: 03685457:86:0 SCLK2: 03685461:81:0
SCET1: 96-311/04:04:24.980 SCET2: 96-311/04:08:24.313
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: LPU

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

C3JNNPOLE_01

```
OAPEL:  C3JNNPOLE_01            ALIAS:  C3JNNPOLE_01
EXT:    A                       PSID:   DT
SCLK1:  03685500:86:0           SCLK2:  03685517:01:0
SCET1:    96-311/04:47:53.645   SCET2:    96-311/05:04:08.311
TARGET: JUPITER                 PARTITION: 1

MODE:       5                   GAIN:       3
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 1 4 6         PTAB_B:     1 1 0 1 4 6
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:    26                 TLMFMT:     LPU

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

WETGID:     0507026001          05  07  026  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00400	0,0000,0100,0000,0000
1	11D81	1,0001,1101,1000,0001
2	19900	1,1001,1001,0000,0000
3	01902	0,0001,1001,0000,0010
4	0B810	0,1011,1000,0001,0000
5	00C09	0,0000,1100,0000,1001
6	00000	0,0000,0000,0000,0000

C3JNAURORA01

```
OAPEL:  C3JNAURORA01              ALIAS:  C3JNAURORA01
EXT:    A                         PSID:   DU
SCLK1:  03685523:86:0             SCLK2:  03685570:45:0
SCET1:    96-311/05:11:08.977     SCET2:    96-311/05:58:12.975
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00062	0,0000,0000,0110,0010
1	00062	0,0000,0000,0110,0010
2	00062	0,0000,0000,0110,0010
3	00062	0,0000,0000,0110,0010
4	00062	0,0000,0000,0110,0010
5	00062	0,0000,0000,0110,0010
6	00062	0,0000,0000,0110,0010
7	00062	0,0000,0000,0110,0010
8	00062	0,0000,0000,0110,0010
9	00062	0,0000,0000,0110,0010
10	00062	0,0000,0000,0110,0010
11	00043	0,0000,0000,0100,0011
12	00043	0,0000,0000,0100,0011
13	00043	0,0000,0000,0100,0011
14	00043	0,0000,0000,0100,0011
15	00043	0,0000,0000,0100,0011
16	00043	0,0000,0000,0100,0011
17	00043	0,0000,0000,0100,0011
18	00043	0,0000,0000,0100,0011
19	000C3	0,0000,0000,1100,0011
20	000C3	0,0000,0000,1100,0011
21	000C7	0,0000,0000,1100,0111
22	000C7	0,0000,0000,1100,0111
23	000C7	0,0000,0000,1100,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

C3ENEURORT01

OAPEL: C3ENEURORT01 ALIAS: C3ENEURORT01
EXT: R PSID: EZ
SCLK1: 03685804:00:0 SCLK2: 03685805:12:0
SCET1: 1996-311/09:54:18.266 SCET2: 1996-311/09:55:26.933
TARGET: EUROPA PARTITION: 1

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

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

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

C3INHRSPEC01

OAPEL: C3INHRSPEC01 ALIAS: C3INHRSPEC01
EXT: A PSID: DW
SCLK1: 03685920:87:0 SCLK2: 03685928:25:0
SCET1: 96-311/11:52:33.629 SCET2: 96-311/11:59:57.629
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: 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

C3INHRSPEC01

```
OAPEL:  C3INHRSPEC01              ALIAS:  C3INHRSPEC01
EXT:    B                         PSID:   DW
SCLK1:  03685928:25:0             SCLK2:  03685936:52:0
SCET1:    96-311/11:59:57.629     SCET2:    96-311/12:08:20.962
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: 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

C3NNHEALTH05

```
OAPEL:  C3NNHEALTH05            ALIAS:  C3NNHEALTH05
EXT:    R                       PSID:   FN
SCLK1:  03686014:00:0           SCLK2:  03686014:12:0
SCET1:  1996-311/13:26:38.266   SCET2:  1996-311/13:26:46.266
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_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   003                 TLMFMT:     RT

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

WETGID:     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

C3ENLINEA_01

OAPEL: C3ENLINEA_01 ALIAS: C3ENLINEA_01
EXT: A PSID: EB
SCLK1: 03686328:57:0 SCLK2: 03686332:45:0
SCET1: 96-311/18:44:45.614 SCET2: 96-311/18:48:40.281
TARGET: EUROPA 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

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

C3ENLINEA_01

OAPEL: C3ENLINEA_01 ALIAS: C3ENLINEA_01
EXT: B PSID: EB
SCLK1: 03686332:45:0 SCLK2: 03686337:07:0
SCET1: 96-311/18:48:40.281 SCET2: 96-311/18:53:18.281
TARGET: EUROPA 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

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

C3ENELIMB_01

```
OAPEL:  C3ENELIMB_01              ALIAS:  C3ENELIMB_01
EXT:    A                         PSID:   EC
SCLK1:  03686453:00:0             SCLK2:  03686459:30:0
SCET1:    96-311/20:50:30.943     SCET2:    96-311/20:56:54.943
TARGET: EUROPA                    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_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   102                   TLMFMT:     LPU

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

WETGID:     0113102001          01  13  102  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

C3ENELIMB_01

```
OAPEL:  C3ENELIMB_01            ALIAS:  C3ENELIMB_01
EXT:    B                       PSID:   EC
SCLK1:  03686463:32:0           SCLK2:  03686466:29:0
SCET1:    96-311/21:00:58.943   SCET2:    96-311/21:03:58.943
TARGET: EUROPA                  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_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:   102                 TLMFMT:     LPU

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

WETGID:     0113102001          01  13  102  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

C3NNHEALTH06

```
OAPEL:  C3NNHEALTH06            ALIAS:  C3NNHEALTH06
EXT:    R                       PSID:   FO
SCLK1:  03686719:00:0           SCLK2:  03686719:12:0
SCET1:  1996-312/01:19:28.266   SCET2:  1996-312/01:19:36.266
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_COMP:   0.0                 EST_COMPV:  0.0
RATE_CON1:  00000               RATE_CON2:  00000
NWAVETOT:   003                 TLMFMT:     RT

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

WETGID:     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

C3RNMRING_01

```
OAPEL:  C3RNMRING_01            ALIAS:  C3RNMRING_01
EXT:    A                       PSID:   EO
SCLK1:  03689744:87:0           SCLK2:  03689747:83:0
SCET1:    96-314/04:19:02.821   SCET2:    96-314/04:22:02.155
TARGET: RING                    PARTITION: 1

MODE:       1                   GAIN:       4
CHOP:       1                   GRAT_OFF:   4
PTAB_A:     1 1 0 0 212         PTAB_B:     1 1 0 0 212
ECAL:       0                   OPCAL:      0
R/T:        0                   RECORD:     1

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:   102                 TLMFMT:     LPU

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

WETGID:     0113102001          01  13  102  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

C3RNMRING_01

```
OAPEL:  C3RNMRING_01              ALIAS:  C3RNMRING_01
EXT:    B                         PSID:   EO
SCLK1:  03689747:84:0             SCLK2:  03689749:85:0
SCET1:    96-314/04:22:02.821     SCET2:    96-314/04:24:04.821
TARGET: RING                      PARTITION: 1

MODE:       1                     GAIN:       4
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    96                   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:     0113096001          01  13  096  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FDFF	1,1111,1101,1111,1111
1	00000	0,0000,0000,0000,0000
2	1FDFF	1,1111,1101,1111,1111
3	00000	0,0000,0000,0000,0000
4	1FDFF	1,1111,1101,1111,1111
5	00000	0,0000,0000,0000,0000
6	1FDFF	1,1111,1101,1111,1111
7	00000	0,0000,0000,0000,0000
8	1FDFF	1,1111,1101,1111,1111
9	00000	0,0000,0000,0000,0000
10	1FDFF	1,1111,1101,1111,1111
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000

C3RNMRING_01

```
OAPEL:  C3RNMRING_01              ALIAS:  C3RNMRING_01
EXT:    C                         PSID:   EO
SCLK1:  03689749:86:0             SCLK2:  03689750:83:0
SCET1:    96-314/04:24:06.133     SCET2:    96-314/04:25:04.733
TARGET: RING                      PARTITION: 1

MODE:       1                     GAIN:       4
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    96                   TLMFMT:     LPU

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

WETGID:     0113096001          01  13  096  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FDFF	1,1111,1101,1111,1111
1	00000	0,0000,0000,0000,0000
2	1FDFF	1,1111,1101,1111,1111
3	00000	0,0000,0000,0000,0000
4	1FDFF	1,1111,1101,1111,1111
5	00000	0,0000,0000,0000,0000
6	1FDFF	1,1111,1101,1111,1111
7	00000	0,0000,0000,0000,0000
8	1FDFF	1,1111,1101,1111,1111
9	00000	0,0000,0000,0000,0000
10	1FDFF	1,1111,1101,1111,1111
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000

C3RNMRING_01

```
OAPEL:  C3RNMRING_01              ALIAS:  C3RNMRING_01
EXT:    D                         PSID:   EO
SCLK1:  03689750:84:0             SCLK2:  03689752:81:0
SCET1:    96-314/04:25:05.466     SCET2:    96-314/04:27:04.666
TARGET: RING                      PARTITION: 1

MODE:       1                     GAIN:       4
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    96                   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:     0113096001          01  13  096  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FDFF	1,1111,1101,1111,1111
1	00000	0,0000,0000,0000,0000
2	1FDFF	1,1111,1101,1111,1111
3	00000	0,0000,0000,0000,0000
4	1FDFF	1,1111,1101,1111,1111
5	00000	0,0000,0000,0000,0000
6	1FDFF	1,1111,1101,1111,1111
7	00000	0,0000,0000,0000,0000
8	1FDFF	1,1111,1101,1111,1111
9	00000	0,0000,0000,0000,0000
10	1FDFF	1,1111,1101,1111,1111
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000

C3RNMRING_01

```
OAPEL:  C3RNMRING_01              ALIAS:  C3RNMRING_01
EXT:    E                         PSID:   EO
SCLK1:  03689752:82:0             SCLK2:  03689753:81:0
SCET1:    96-314/04:27:05.466     SCET2:    96-314/04:28:04.821
TARGET: RING                      PARTITION: 1

MODE:       1                     GAIN:       4
CHOP:       1                     GRAT_OFF:   4
PTAB_A:     1 1 0 0 212           PTAB_B:     1 1 0 0 212
ECAL:       0                     OPCAL:      0
R/T:        0                     RECORD:     1

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:    96                   TLMFMT:     LPU

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

WETGID:     0113096001          01  13  096  001
WTGRP_SIZ:  13
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FDFF	1,1111,1101,1111,1111
1	00000	0,0000,0000,0000,0000
2	1FDFF	1,1111,1101,1111,1111
3	00000	0,0000,0000,0000,0000
4	1FDFF	1,1111,1101,1111,1111
5	00000	0,0000,0000,0000,0000
6	1FDFF	1,1111,1101,1111,1111
7	00000	0,0000,0000,0000,0000
8	1FDFF	1,1111,1101,1111,1111
9	00000	0,0000,0000,0000,0000
10	1FDFF	1,1111,1101,1111,1111
11	00000	0,0000,0000,0000,0000
12	00000	0,0000,0000,0000,0000

C3JNOCSPEC01

OAPEL: C3JNOCSPEC01 ALIAS: C3JNOCSPEC01
EXT: A PSID: EP
SCLK1: 03689819:87:0 SCLK2: 03689824:81:0
SCET1: 96-314/05:34:52.818 SCET2: 96-314/05:39:52.151
TARGET: JUPITER PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 160 TLMFMT: LPU

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

WETGID: 0326160001 03 26 160 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01183	0,0001,0001,1000,0011
1	0118B	0,0001,0001,1000,1011
2	0118F	0,0001,0001,1000,1111
3	0118F	0,0001,0001,1000,1111
4	0118F	0,0001,0001,1000,1111
5	0118F	0,0001,0001,1000,1111
6	0118F	0,0001,0001,1000,1111
7	0018F	0,0000,0001,1000,1111
8	0018F	0,0000,0001,1000,1111
9	0018F	0,0000,0001,1000,1111
10	0018F	0,0000,0001,1000,1111
11	0018F	0,0000,0001,1000,1111
12	0018F	0,0000,0001,1000,1111
13	0018F	0,0000,0001,1000,1111
14	0018F	0,0000,0001,1000,1111
15	0018F	0,0000,0001,1000,1111
16	0018F	0,0000,0001,1000,1111
17	0019F	0,0000,0001,1001,1111
18	0019F	0,0000,0001,1001,1111
19	0219F	0,0010,0001,1001,1111
20	0219F	0,0010,0001,1001,1111
21	0231F	0,0010,0011,0001,1111
22	0231F	0,0010,0011,0001,1111
23	0231F	0,0010,0011,0001,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

C3NNRCTRLT01

OAPEL: C3NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: R PSID: XU
SCLK1: 03697434:00:0 SCLK2: 03697434:12:0
SCET1: 1996-319/13:53:31.200 SCET2: 1996-319/13:53:39.200
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

C3NNRCTRLT01

OAPEL: C3NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: S PSID: XU
SCLK1: 03697440:00:0 SCLK2: 03697441:12:0
SCET1: 1996-319/13:59:35.200 SCET2: 1996-319/14:00:43.866
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

C3NNRCTRLT01

```
OAPEL:  C3NNRCTRLT01            ALIAS:  LSNNRCTRTA01
EXT:    T                       PSID:   XU
SCLK1:  03697446:00:0           SCLK2:  03697446:12:0
SCET1:  1996-319/14:05:39.200   SCET2:  1996-319/14:05:47.200
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

C3NNRCTRLT02

```
OAPEL:  C3NNRCTRLT02            ALIAS:  LSNNRCTRTA01
EXT:    R                       PSID:   XU
SCLK1:  03719528:00:0           SCLK2:  03719528:12:0
SCET1:  1996-335/02:12:59.733   SCET2:  1996-335/02:13:07.733
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

C3NNRCTRLT02

```
OAPEL:  C3NNRCTRLT02            ALIAS:  LSNNRCTRTA01
EXT:    S                       PSID:   XU
SCLK1:  03719534:00:0           SCLK2:  03719535:12:0
SCET1:  1996-335/02:19:03.733   SCET2:  1996-335/02:20:12.400
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

C3NNRCTRLT02

```
OAPEL:  C3NNRCTRLT02            ALIAS:  LSNNRCTRTA01
EXT:    T                       PSID:   XU
SCLK1:  03719540:00:0           SCLK2:  03719540:28:0
SCET1:  1996-335/02:25:07.733   SCET2:  1996-335/02:25:26.400
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

C3NNNOPCAL01

OAPEL: C3NNNOPCAL01 ALIAS: C3NNNOPCAL01
EXT: R PSID: FA
SCLK1: 03739892:00:0 SCLK2: 03739895:12:0
SCET1: 1996-349/09:23:14.933 SCET2: 1996-349/09:26:24.933
TARGET: CAL PARTITION: 1

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

MB_DOWN: 11011 MB_UP: 11011
COMP_FLAG: 0
EST_COMP: 0.0 EST_COMPV: 0.0
RATE_CON1: 00000 RATE_CON2: 00000
NWAVETOT: 120 TLMFMT: RT

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

WETGID: 0302120000 03 02 120 000
WTGRP_SIZ: 2

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18700	1,1000,0111,0000,0000
1	18700	1,1000,0111,0000,0000
2	18700	1,1000,0111,0000,0000
3	18700	1,1000,0111,0000,0000
4	18700	1,1000,0111,0000,0000
5	18700	1,1000,0111,0000,0000
6	18700	1,1000,0111,0000,0000
7	18700	1,1000,0111,0000,0000
8	18700	1,1000,0111,0000,0000
9	18700	1,1000,0111,0000,0000
10	18700	1,1000,0111,0000,0000
11	18700	1,1000,0111,0000,0000
12	18700	1,1000,0111,0000,0000
13	18700	1,1000,0111,0000,0000
14	18700	1,1000,0111,0000,0000
15	18700	1,1000,0111,0000,0000
16	18700	1,1000,0111,0000,0000
17	18700	1,1000,0111,0000,0000
18	18700	1,1000,0111,0000,0000
19	18700	1,1000,0111,0000,0000
20	18700	1,1000,0111,0000,0000
21	18700	1,1000,0111,0000,0000
22	18700	1,1000,0111,0000,0000
23	18700	1,1000,0111,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

NIMS C3 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS C3 data. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry. Included items come from NIMS commands in (1) the Standard Sequence Data File (SSDF) and (2) the Playback Table Update Process (PTUP), plus some items from (3) the NIMS/CDS software load.

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

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

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

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

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

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

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# WETGID       10 319 - 328     .Wavelength selection group ID (unique)         PBK: WET_GID    (realtime <tbd>)
                                  Rule of formation: mmeellllnnn where
                                   mm  = instrument mode (0-15)
                                   ee  = # entries in group
                                   lll = number of wavelengths selected
                                   nnn = sequence number
* WETGRPSIZ     2 329 - 330     .# Wavelength Edit entries (1-26)               PBK: ED_GRP_LEN (realtime SEF: 37ETB <tbd>)
* WETGRP      182 331 - 512     .Wavelength Edit Table group:  WETGRPSIZ        PBK: ED_GRP     (realtime SEF: 37ETB data bytes 2..)
                                  entries, each one has 7 characters.  The
                                  first 2 characters are the repeat count
                                  (01-26).  The other 5 characters contain
                                  5 hex digits, representing the detector
                                  mask in the form BHHHH where B is 0 or 1
                                  and H has range 0-15.  (These entries are
                                  from the 37ETB instrument edit group for
                                  realtime data and from the logical AND of
                                  corresponding entries in the instrument
                                  and playback edit groups for playback data.)
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.The TARGET names used are:
   CAL      - N - non-science targets, usually calibration targets
   EARTH    - W - Earth
   MOON     - L - Moon
   SKY      - H - Stellar Space (space and stars)
   VENUS    - V - Venus
   GASPRA   - P - Gaspra
   IDA      - U - Ida
   JUPITER  - J - Jupiter
   IO       - I - Io
   EUROPA   - E - Europa
   GANYMEDE - G - Ganymede
   CALLISTO - C - Callisto
   J_RING   - R - Jupiter rings
   (the single letter abbreviation appears as the third character in the OAPEL name ).
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C3CNGLOBAL01C3CNGLOBAL01ADA03682729:87:003682740:22:01         CALLISTO 3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  204LPU  96-309/06:06:06.414  96-309/06:16:30.414
          030030030000030029028028029028032034031031032030029032620400126010000011FFFF0100000011FFFF0100000011FFFF0100000011FF
FF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000000100000
C3CNGLOBAL01C3CNGLOBAL01BDA03682741:23:003682753:34:01         CALLISTO 3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  204LPU  96-309/06:17:31.747  96-309/06:29:47.080
          030030030000030029028028029028032034031031032030029032620400126010000011FFFF0100000011FFFF0100000011FFFF0100000011FF
FF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000000100000
C3CNGLOBAL01C3CNGLOBAL01CDA03682754:34:003682765:03:01         CALLISTO 3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  204LPU  96-309/06:30:47.747  96-309/06:41:34.413
          030030030000030029028028029028032034031031032030029032620400126010000011FFFF0100000011FFFF0100000011FFFF0100000011FF
FF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000000100000
C3CNCALLRT02C3CNCALLRT02RFY03682923:00:003682924:12:01         CALLISTO 3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1996-309/09:21:17.7331996-309/09:22:26.400
          000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

C3CNASGARD01C3CNASGARD01ADB03683089:84:003683108:41:01         CALLISTO 1414 1 1 0 0 212 1 1 0 0 21200012 0000000000 1 2.00.3000
0065525                  102LPU  96-309/12:10:04.400  96-309/12:28:49.066
          030030030000030029028028029028032034031031032030029011310200113011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000
00011FFFF0100000011FFFF01000000100000
C3CNARINGS01C3CNARINGS01ADC03683138:68:003683149:62:01         CALLISTO 3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  204LPU  96-309/12:59:27.066  96-309/13:10:30.399
          030030030000030029028028029028032034031031032030029032620400126010000011FFFF0100000011FFFF0100000011FFFF0100000011FF
FF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000000100000
C3CNCRATER01C3CNCRATER01ADD03683160:54:003683164:16:01         CALLISTO 5414 1 1 0 1 4 6 1 1 0 1 4 600012 0000000000 1 2.00.3000
0065525                  102MPW  96-309/13:21:32.398  96-309/13:25:09.066
          030030030000030029028028029028032034031031032030029050710200 1 7011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF0100000

C3CNCSPOTS01C3CNCSPOTS01ADE03683191:00:003683192:90:01         CALLISTO 1414 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                  103MPW  96-309/13:52:16.397  96-309/13:54:17.730
          000000000000000000000000000000000000000000000000000011310300113011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000
08011FFFF0100000011FFFF01000000100000
C3JNFEA05101C3JNFEA05101ADF03683808:86:003683810:61:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  96-310/00:17:05.707  96-310/00:18:50.374
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

C3JNFEA05102C3JNFEA05102ADG03683878:87:003683880:62:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  96-310/01:27:52.372  96-310/01:29:37.038
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

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C3JNFEA05103C3JNFEA05103ADH03683957:87:003683959:62:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  96-310/02:47:45.036  96-310/02:49:29.702
          000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

C3JNNTARRT01C3JNNTARRT01RFF03684118:00:003684118:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1996-310/05:29:34.3331996-310/05:29:42.333
          000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

C3JNNTARRT02C3JNNTARRT02RFF03684218:00:003684218:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1996-310/07:10:41.0001996-310/07:10:49.000
          000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

C3JNNTARRT03C3JNNTARRT03RFG03684263:00:003684263:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1996-310/07:56:11.0001996-310/07:56:19.000
          000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

C3JNFEASUB01C3JNFEASUB01ADK03684488:87:003684494:49:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  215LPU  96-310/11:44:39.016  96-310/11:50:17.683
          000000000000000000000000000000000000000000000000000032621500126011 5DC00115DC00115DC00111DC00111DC00111DC00111DC0011BF
C0011BF80011BFC0010BFC0010BFC0010BFC0010BFC0010BFC0010BFC0011BF80011BF80011BF00011BF00011BF80011BF80011BB80011BB80010D7800105580
C3JNPFTRAK01C3JNPFTRAK01ADM03684793:87:003684800:63:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   26LPU  96-310/16:53:02.337  96-310/16:59:51.004
          000000000000000000000000000000000000000000000000507026001 701004000111D810119900010190201OB8100100C090100000

C3JNFEA01101C3JNFEA01101ADO03684966:86:003684973:47:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  96-310/19:47:57.665  96-310/19:54:36.331
          000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

C3JNFEA01104C3JNFEA01104ADQ03685082:86:003685089:51:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  96-310/21:45:14.994  96-310/21:51:56.327
          000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

C3INRTIMON01C3INRTIMON01REY03685426:00:003685427:12:01         IO       7214 1 1 021 012 1 1 021 01200000 1110000111 0 0.00.0000
0000000                  008RT 1996-311/03:32:06.3331996-311/03:33:15.000
          000000000000000000000000000000000000000000000000702008000 21212A950100000

C3INCHEMIS02C3INCHEMIS02ADS03685457:86:003685461:81:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  102LPU  96-311/04:04:24.980  96-311/04:08:24.313
          030030030000030029028028029028032034031031032030029032610200126010000001 1FFFF0100000010000001000000011FFFF010000001000
0001000000011FFFF0100000010000001000000011FFFF0100000010000001000000011FFFF0100000010000001000000011FFFF0100000010000001000000100000
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C3JNNPOLE_01C3JNNPOLE_01ADT03685500:86:003685517:01:01         JUPITER  5314 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   26LPU  96-311/04:47:53.645  96-311/05:04:08.311
          000000000000000000000000000000000000000000000000000507026001 701004000111D810119900010190201OB8100100C090100000

C3JNAURORA01C3JNAURORA01ADU03685523:86:003685570:45:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   80LPU  96-311/05:11:08.977  96-311/05:58:12.975
          000000000000000000000000000000000000000000000000000326080001260100062010006201000620100062010006201000620100062010006201000
62010006201000620100062010004301000430100043010004301000430100043010004301000430100043010004301000C301000C301000C701000C701000C701000000100000
C3ENEURORT01C3ENEURORT01REZ03685804:00:003685805:12:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                   408RT 1996-311/09:54:18.2661996-311/09:55:26.933
          000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

C3INHRSPEC01C3INHRSPEC01ADW03685920:87:003685928:25:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   408MPW  96-311/11:52:33.629  96-311/11:59:57.629
          030030030000030029028028029028032034031031032030029032640800126011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FF
FF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF01000000100000
C3INHRSPEC01C3INHRSPEC01BDW03685928:25:003685936:52:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   408MPW  96-311/11:59:57.629  96-311/12:08:20.962
          030030030000030029028028029028032034031031032030029032640800126011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FF
FF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF011FFFF01000000100000
C3NNHEALTH05C3NNHEALTH05RFN03686014:00:003686014:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                   003RT 1996-311/13:26:38.2661996-311/13:26:46.266
          000000000000000000000000000000000000000000000000000302003000 201080442500000

C3ENLINEA_01C3ENLINEA_01AEB03686328:57:003686332:45:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   204LPU  96-311/18:44:45.614  96-311/18:48:40.281
          000000000000000000000000000000000000000000000000000326204001260100000011FFFF0100000011FFFF0100000011FFFF0100000011FF
FF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000000100000
C3ENLINEA_01C3ENLINEA_01BEB03686332:45:003686337:07:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   204LPU  96-311/18:48:40.281  96-311/18:53:18.281
          000000000000000000000000000000000000000000000000000326204001260100000011FFFF0100000011FFFF0100000011FFFF0100000011FF
FF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000000100000
C3ENELIMB_01C3ENELIMB_01AEC03686453:00:003686459:30:01         EUROPA   1314 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                   102LPU  96-311/20:50:30.943  96-311/20:56:54.943
          000000000000000000000000000000000000000000000000000011310200113011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000
00011FFFF0100000011FFFF01000000100000
C3ENELIMB_01C3ENELIMB_01BEC03686463:32:003686466:29:01         EUROPA   1314 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                   102LPU  96-311/21:00:58.943  96-311/21:03:58.943
          000000000000000000000000000000000000000000000000000011310200113011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000
00011FFFF0100000011FFFF01000000100000
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C3NNHEALTH06C3NNHEALTH06RFO03686719:00:003686719:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                  003RT 1996-312/01:19:28.2661996-312/01:19:36.266
          00000000000000000000000000000000000000000000000302003000 201080442500000

C3RNMRING_01C3RNMRING_01AEO03689744:87:003689747:83:01         RING     1414 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                  102LPU  96-314/04:19:02.821  96-314/04:22:02.155
          000000000000000000000000000000000000000000000000000011310200113011FFFF0100000011FFFF0100000011FFFF0100000011FFFF01000
00011FFFF0100000011FFFF01000000100000
C3RNMRING_01C3RNMRING_01BEO03689747:84:003689749:85:01         RING     1414 1 1 0 0 212 1 1 0 0 21200012 0000000000 1 2.00.3000
0065525                   96LPU  96-314/04:22:02.821  96-314/04:24:04.821
          030030030000030029028028029028032034031031032030029011309600113011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000
00011FDFF0100000011FDFF01000000100000
C3RNMRING_01C3RNMRING_01CEO03689749:86:003689750:83:01         RING     1414 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                   96LPU  96-314/04:24:06.133  96-314/04:25:04.733
          000000000000000000000000000000000000000000000000000011309600113011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000
00011FDFF0100000011FDFF01000000100000
C3RNMRING_01C3RNMRING_01DEO03689750:84:003689752:81:01         RING     1414 1 1 0 0 212 1 1 0 0 21200012 0000000000 1 2.00.3000
0065525                   96LPU  96-314/04:25:05.466  96-314/04:27:04.666
          030030030000030029028028029028032034031031032030029011309600113011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000
00011FDFF0100000011FDFF01000000100000
C3RNMRING_01C3RNMRING_01EEO03689752:82:003689753:81:01         RING     1414 1 1 0 0 212 1 1 0 0 21200010 0000000000 1 2.00.3000
0065525                   96LPU  96-314/04:27:05.466  96-314/04:28:04.821
          000000000000000000000000000000000000000000000000000011309600113011FDFF0100000011FDFF0100000011FDFF0100000011FDFF01000
00011FDFF0100000011FDFF01000000100000
C3JNOCSPEC01C3JNOCSPEC01AEP03689819:87:003689824:81:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  160LPU  96-314/05:34:52.818  96-314/05:39:52.151
          000000000000000000000000000000000000000000000000000032616000126010118301011 8B010118F010118F010118F010118F010118F01001
8F010018F010018F010018F010018F010018F010018F010018F010018F010018F010019F010019F010219F010219F010231F010231F010231F01000000100000
C3NNRCTRLT01LSNNRCTRTA01RXU03697434:00:003697434:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1996-319/13:53:31.2001996-319/13:53:39.200
          00000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

C3NNRCTRLT01LSNNRCTRTA01SXU03697440:00:003697441:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1996-319/13:59:35.2001996-319/14:00:43.866
          00000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

C3NNRCTRLT01LSNNRCTRTA01TXU03697446:00:003697446:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1996-319/14:05:39.2001996-319/14:05:47.200
          00000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

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C3NNRCTRLT02LSNNRCTRTA01RXU03719528:00:003719528:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1996-335/02:12:59.7331996-335/02:13:07.733
           000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

C3NNRCTRLT02LSNNRCTRTA01SXU03719534:00:003719535:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1996-335/02:19:03.7331996-335/02:20:12.400
           000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

C3NNRCTRLT02LSNNRCTRTA01TXU03719540:00:003719540:28:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1996-335/02:25:07.7331996-335/02:25:26.400
           000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

C3NNNOPCAL01C3NNNOPCAL01RFA03739892:00:003739895:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  120RT 1996-349/09:23:14.9331996-349/09:26:24.933
           000000000000000000000000000000000000000000000000000302120000 224187000200000

--------------------------------------------------------------------------------------------------------------------------------
```

Chapter 5 - Detailed Observation Designs

Contents

Introduction to Chapter 5

Detailed Observation Designs

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

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

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

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

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

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

NIMS CHOPPER ON

ACTIVITY ID: C3NNCHOPON01-
START TIME: 96-307/21:57:01.000

Activity ID: Orbit C3 Target N Inst N OAPEL CHOPON SeqNo 01 -

Title	NIMS CHOPPER ON			Instrument	NIMS
Requestor	SWG-NIMS/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/02/96 Week 44
Start	CEE-CDS 00002347:00:0	96-307/21:57:01.000		CEE-001/15:33:04.666	
End	CEE-CDS 00002341:00:0	96-307/22:03:05.000		CEE-001/15:27:00.666	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	C3NNCHOPON01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

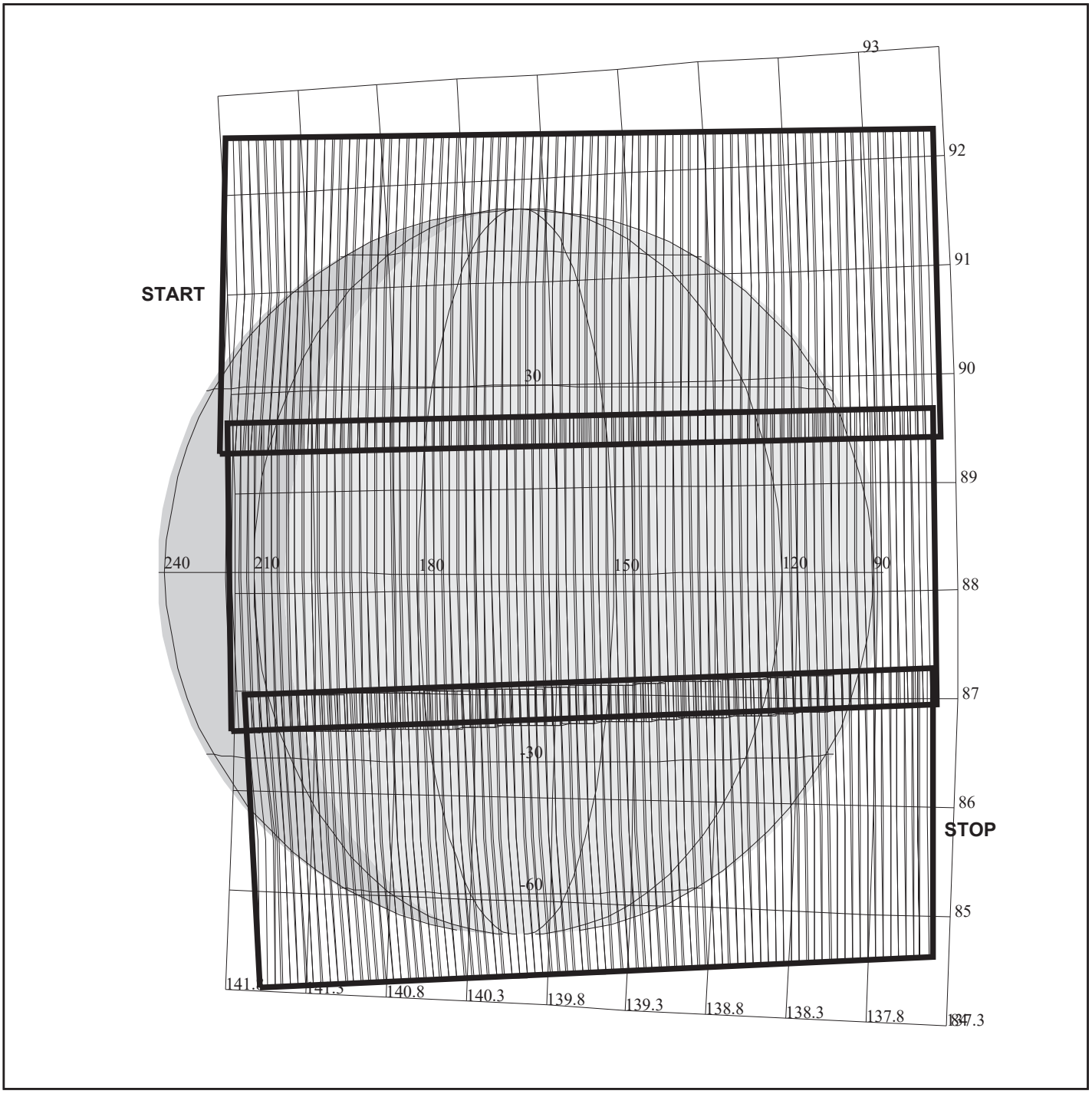
Observation Objective

Configure the NIMS instrument in preparation for C3 orbit data taking. This orbit includes observations of Jupiter, Io, Callisto, Europa and the rings.

Design Detail

Use NIMSINIT with the following commands:

```
37IST,1,0,0,OFF,0,0,0;     Chopper 63 Hz
37IST,1,2,0,OFF,0,0,0;     Chopper Reference
```



165DA:TT= 0 TMC= 1 C= 9.00 XC= 9.00 BS= 0/5725 TC= 3
A= 728 pD= 0 SR=17.450 RA50=237.20 DEC50=-21.30 cone=138.10 clock= 89.77
117DA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5725
1:#s= 3 Cs= -22.00 XCs= 0.00 Cr= 22.50 XCr= -9.00 sD= 2208 rD= 22

C3CNGLOBAL01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:CEE 96-309/13:30:05.733 -CDS 440:00:0

BODY PLOT TIME:96-309/11:23:27 D= 0 S= 0.700

OBSERVATION:C3CNGLOBAL01

DESCRIP:C3 Callisto Global Mosaic #1

CALLISTO GLOBAL MOSAIC

ACTIVITY ID: C3CNGLOBAL01-
START TIME: 96-309/06:01:09.666

Activity ID: Orbit C3 Target C Inst N OAPEL GLOBAL SeqNo 01 -

Title	CALLISTO GLOBAL MOSAIC			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/04/96 Week 45

Start	CEE-CDS 00000444:00:0	96-309/06:01:09.666	CEE-000/07:28:56.000
End	CEE-CDS 00000402:00:0	96-309/06:43:37.666	CEE-000/06:46:28.000
Duration	00000042:00:0	000/00:42:28.000	000/00:42:28.000

Top Label C3CNGLOBAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	208	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

The objective is to obtain the best combined high spectral and spatial resolution over all latitudes, to investigate the surface mineralogy, and to determine the distribution of compositional units. Callisto has never been observed at this close range of 103 km/nimsel by an instrument of NIMS capability.

This is the third in a series of global observations to be included in Galileo's Jovian tour.

Data Returned

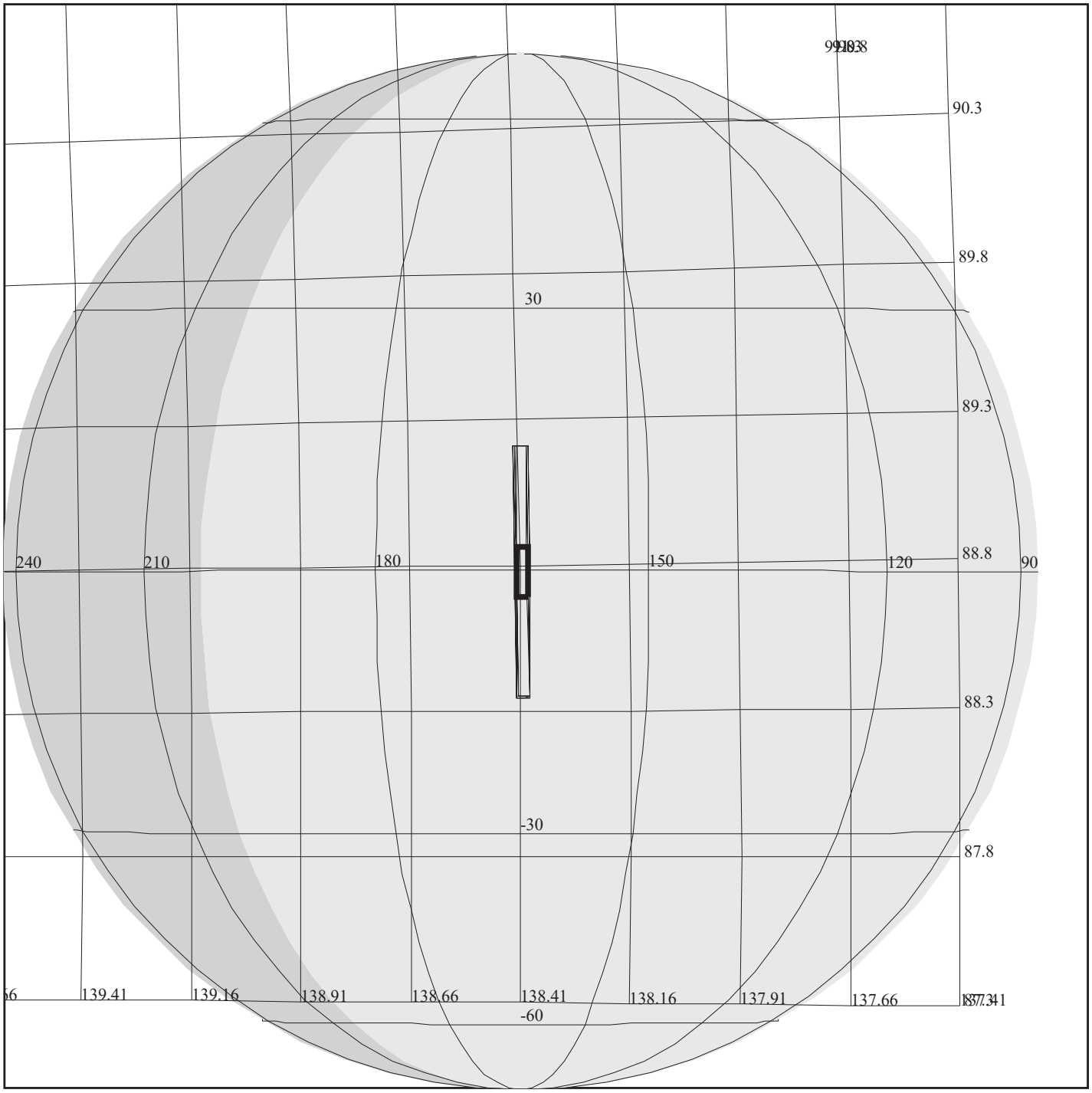
Design Detail

Instrument mode: Long Map
Instrument gain state: 4
Spatial resolution: 103.4 - 94.8 km/nimsel
Phase angle: 52.91 - 54.15 degrees
Spectral resolutiin: 204 wavelengths
Coverage in nimsels:

Continuous slew mosaic covering all lit longitudes and latitudes at 7.4 hrs prior to C/A. 10% overlap, Nyquist sampling 3 swaths to cover lit surface.

Long Map (LM), Gain 4, Grating Start 0, LPU, CLM245, CLM204

Galileo Activity Plan Form 09/12/96 16:57:34 rev 6/95



165EX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1215 TC= 3
A= 364 pD= 0 SR=17.450 RA50=237.34 DEC50=-22.03 cone=138.41 clock= 88.75

C3CNCALLRT02

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNCALLRT02

TARGET BODY : CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:CEE 96-309/13:30:05.733 -CDS 245:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C3CNCALLRT02 **DESCRIP:Callisto Real Time Observation**

Callisto Real Time Observation — ACTIVITY ID: C3CNCALLRT02- / START TIME: 96-309/09:20:21.000

Activity ID: Orbit C3 Target C Inst N OAPEL CALLRT SeqNo 02 -

Title	Callisto Real Time Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	11/04/96	Week 45
Start	CEE-CDS 00000247:00:0	96-309/09:20:21.000		CEE-000/04:09:44.666	
End	CEE-CDS 00000243:00:0	96-309/09:24:23.666		CEE-000/04:05:42.000	
Duration	00000004:00:0	000/00:04:02.666		000/00:04:02.666	

Top Label	C3CNCALLRT02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is required to provide spectral information in conjunction with SSI Asgard observation. NIMS mode LM, mirror block, 408 wavelengths.

Data Returned

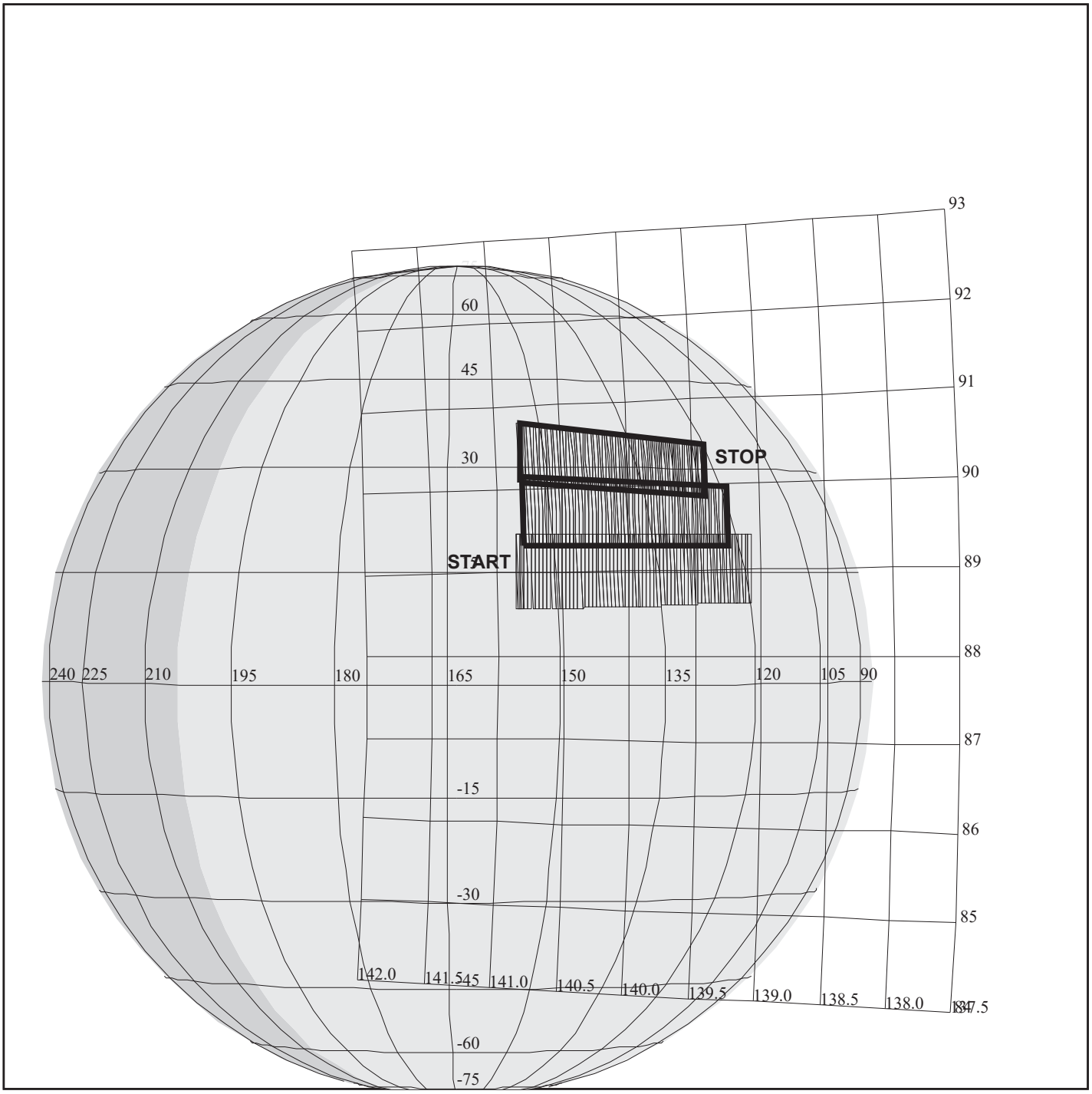
Design Detail

Target to center of Disk.

Mirror Blocked (1B,1B) (11011,11011)
2 Rims

Long Map (LM), Gain 4, Grating Start 0, RT , RT408

Galileo Activity Plan Form 09/12/96 16:57:34 rev 6/95



165DB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=38/9607 TC= 1(+15 155)
A= 728 pD= 5288 SR=17.450 RA50=239.95 DEC50=-22.42 cone=140.84 clock= 89.01
117DB:#SB= 2 OR= 0.060 RR=12.000 BM=F RC= 1 BS=38/9607
1:#s= 2 Cs= -34.00 XCs= 0.00 Cr= 33.50 XCr= 9.00 sD= 1710 rD= 22
2:#s= 1 Cs= -36.30 XCs= 0.00 Cr= 34.50 XCr= 11.00 sD= 1824 rD= 22

C3CNASGARD01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNASGARD01

TARGET BODY : CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:CTE 96-309/13:34:08.400 -CDS 93:00:0

BODY PLOT TIME:TARGET-TIME D= 5288 S= 0.800

OBSERVATION:C3CNASGARD01

DESCRIP:C3 Asgard Basin Mosaic

ASGARD BASIN COVERAGE

ACTIVITY ID: C3CNASGARD01-
START TIME: 96-309/11:59:05.666

Activity ID: Orbit C3 Target C Inst N OAPEL ASGARD SeqNo 01 -

Title	ASGARD BASIN COVERAGE			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/04/96 Week 45

Start	CTE-CDS 00000090:00:0	96-309/11:59:05.666	CTE-000/01:31:00.000
End	CTE-CDS 00000060:45:0	96-309/12:28:55.666	CTE-000/01:01:10.000
Duration	00000029:46:0	000/00:29:50.000	000/00:29:50.000

Top Label C3CNASGARD01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	217	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

The Asgard Multi-ring structure is the second largest such feature on Callisto's surface as observed by Voyager. Asgard's rings and palimpsest may hold the answers to the composition of Callisto's subsurface material.

The objective is to determine the composition and albedo of Asgard's palimpsest and individual rings/ridges, at high spectral resolution, define compositional differences of center palimpsest versus rings.

Data Returned

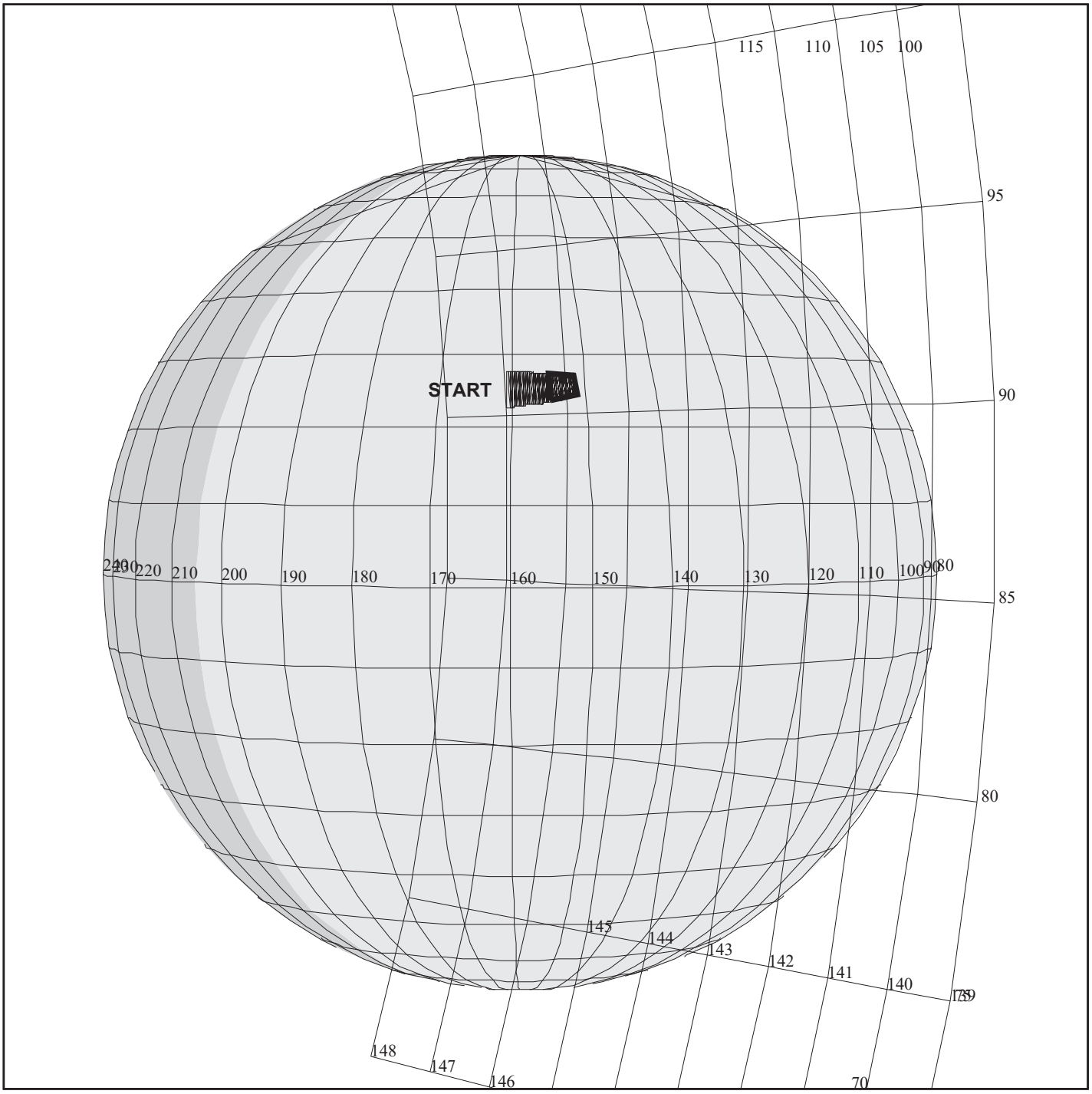
Design Detail

Instrument mode: Full Map
Instrument gain state: 4
Spectral resolution: 102 wavelengths
Spatial resolution: 20.04 km/nimsel
Phase angle: 50.10 degrees
Coverage in nimsels: 30 degrees square 810X949.9 km
Continuous mosaic of the entire Asgard area.
3 swaths across the area.
Tracks: 0.056

Only Swaths 2 and 3 Returned.

Full Map (FM), Gain 4, Grating Start 0, LPU, CFM126, CFM102

Galileo Activity Plan Form 09/12/96 16:57:34 rev 6/95



165DC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=31/8889 TC= 1(+25 160)
A= 388 pD= 4104 SR=17.450 RA50=246.61 DEC50=-22.64 cone=146.91 clock= 90.81
117DC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=31/8889
1:#s= 1 Cs= -40.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4104 rD= 2

C3CNARINGS01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNARINGS01

TARGET BODY : CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:CTE 96-309/13:34:08.400 -CDS 42:00:0

BODY PLOT TIME:TARGET-TIME D= 4104 S= 0.800

OBSERVATION:C3CNARINGS01

DESCRIP:C3 Callisto Multi-Ring Structure

CALLISTO MULTI-RING STRUCTURE COVERAGE ACTIVITY ID: C3CNARINGS01-
START TIME: 96-309/12:47:37.666

Activity ID: Orbit C3 Target C Inst N OAPEL ARINGS SeqNo 01 -

Title	CALLISTO MULTI-RING STRUCTURE COVERAGE			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA		Team NIMS	Working Group	SWG

Time System	CDS	Load ID C3A		Calendar Date 11/04/96	Week 45
Start	CTE-CDS	00000042:00:0	96-309/12:47:37.666		CTE-000/00:42:28.000
End	CTE-CDS	00000019:00:0	96-309/13:10:53.000		CTE-000/00:19:12.666
Duration		00000023:00:0	000/00:23:15.334		000/00:23:15.334

Top Label C3CNARINGS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	191	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

This observation, in conjuction with the NIMS observation of ASGARD basin and ring structure, will provide a study of the compositional differences between the palimpsest and the rings. NIMS will obtain high spectral (204 wavelengths) and spatial resolution (9 km) of Asgard's palimpsest and rings and define minor constituents.

Data Returned

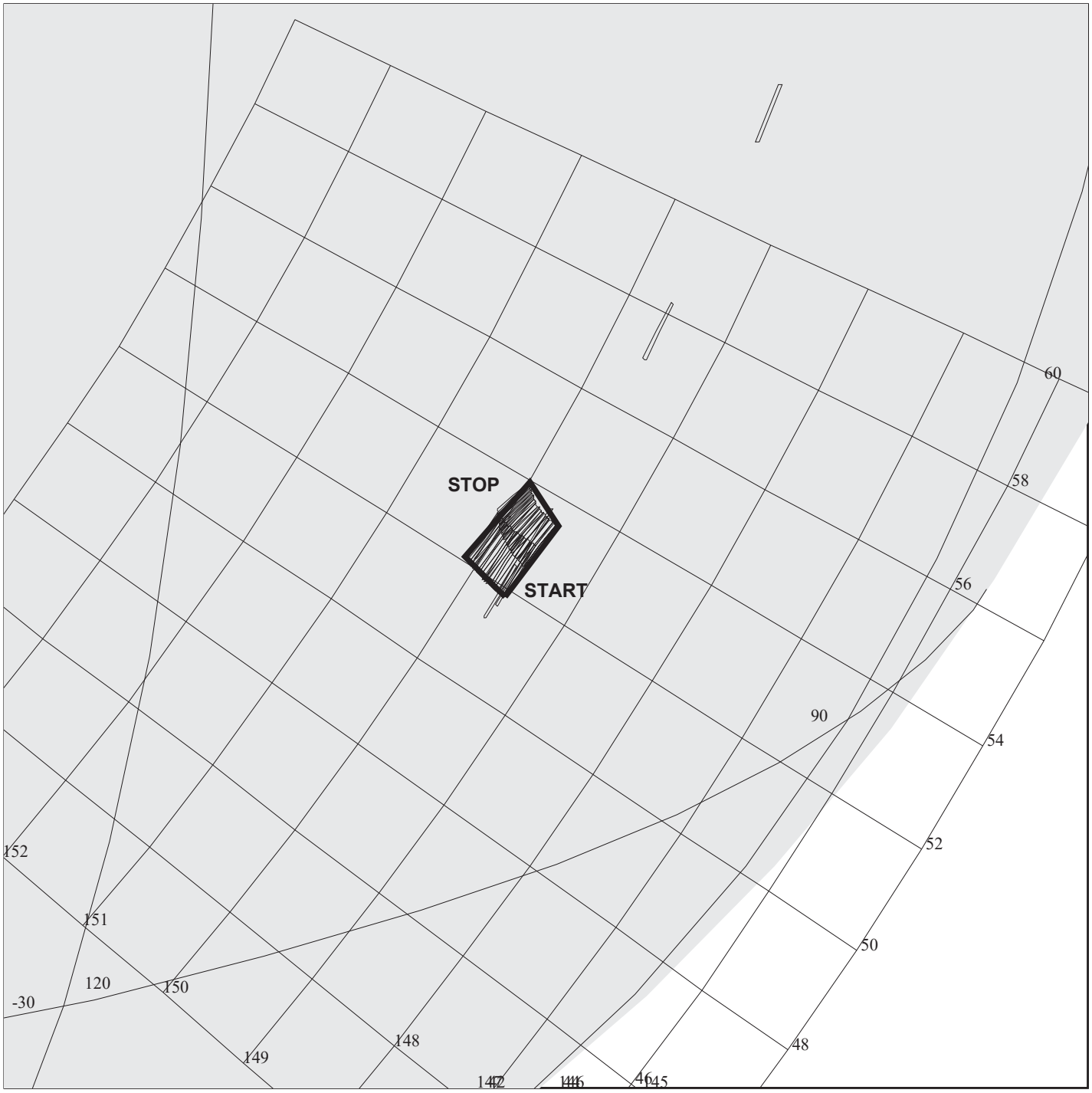
Design Detail

Instrument mode: Long Map
Instrument gain state: 4
Spatial resolution: 8.96 km/nimsel
Spectral resoluton: 204 wavelengths
Phase angle: 44.15 degrees
Coverage in nimsels: 500 km X 184 km
One swath across Asgard basin area, encompassing all 500 km in Long Map mode. Tracks: 0.052

Partial Swath Returned.

Long Map (LM), Gain 4, Grating Start 0, LPU, CLM245, CLM204

Galileo Activity Plan Form 09/12/96 16:57:35 rev 6/95



165DD:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=55/4167 TC= 1(-20 110)
A= 102 pD= 666 SR=17.450 RA50=252.32 DEC50=-42.15 cone=149.62 clock= 52.42
117DD:#SB= 2 OR= 0.110 RR=12.000 BM=F RC= 1 BS=55/4167
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 262 rD= 2
2:#s= 1 Cs= 14.00 XCs= 0.00 Cr= -10.00 XCr= 6.00 sD= 356 rD= 32

C3CNCRATER01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNCRATER01

TARGET BODY : CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:CTE 96-309/13:34:08.400 -CDS 13:00:0

BODY PLOT TIME:TARGET-TIME D= 666 S= 4.000

OBSERVATION:C3CNCRATER01

DESCRIP:CENTRAL PIT CRATER

BURR - CENTRAL PIT CRATER

ACTIVITY ID: C3CNCRATER01-
START TIME: 96-309/13:16:57.000

Activity ID: Orbit C3 Target C Inst N OAPEL CRATER SeqNo 01 -

Title	BURR - CENTRAL PIT CRATER			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/04/96 Week 45

Start	CTE-CDS 00000013:00:0	96-309/13:16:57.000	CTE-000/00:13:08.666
End	CTE-CDS 00000006:45:0	96-309/13:23:31.666	CTE-000/00:06:34.000
Duration	00000006:46:0	000/00:06:34.666	000/00:06:34.666

Top Label	C3CNCRATER01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	142	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

NIMS will obtain high spectral, high spatial data on one of Callisto's central pit craters and its dome. The objective of this observation is to determine origin and/or composition of dome material and surrounding surface area.

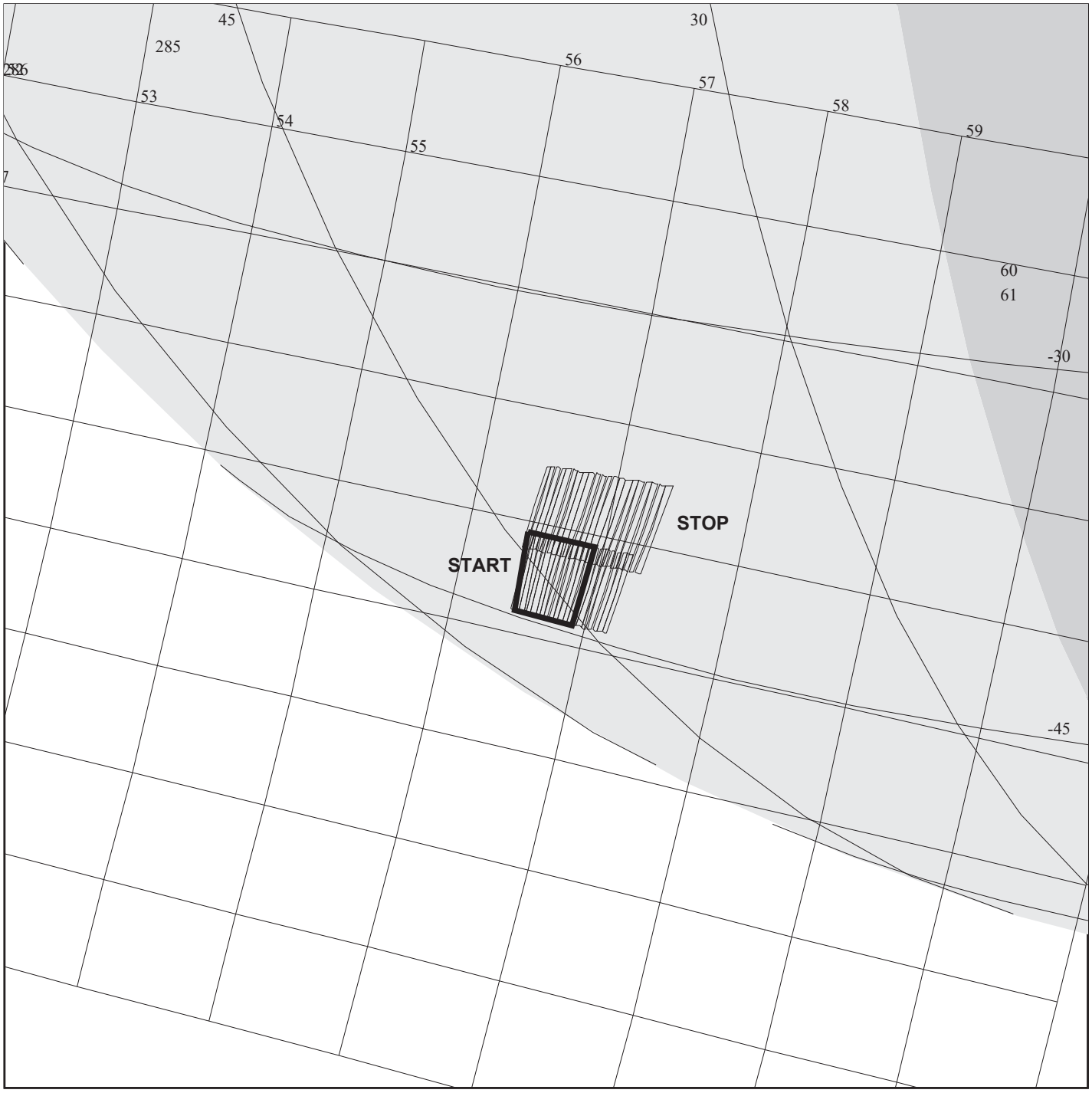
Data Returned

Design Detail

Instrument mode: Short map
Instrument gain state: 4
Spatial resolution: 2.36 km/nimsel
Spectral resolution: 102 wavelengths
Phase Angle: 27.18 degrees
Coverage in nimsels: 81 x 200.8 km
Continuous slew mosaic of Burr - Central Pit Crater located at 38 degrees North latitude and 135 degrees longitude.
Requires 2 swaths
Nyquist sampling / 20% overlap. Tracks: 0.028

Short Map (SM), Gain 4, Grating Start 1, MPW, CSM119, CSM102

Galileo Activity Plan Form 09/12/96 16:57:35 rev 6/95



165DE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9809 TC= 1(-42 46)
A= 148 pD= 1086 SR=17.450 RA50= 49.16 DEC50= 2.14 cone= 56.45 clock=289.46
117DE:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/9809
1:#s= 2 Cs= 10.40 XCs= 0.00 Cr= -11.00 XCr= -8.00 sD= 526 rD= 34

C3CNCSPOTS01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNCSPOTS01

TARGET BODY : CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:CTE 96-309/13:34:08.400 +CDS 18:00:0

BODY PLOT TIME:TARGET-TIME D= 1086 S= 4.000

OBSERVATION:C3CNCSPOTS01

DESCRIP:CALLISTO BRIGHT SPOTS

CALLISTO BRIGHT SPOTS

ACTIVITY ID: C3CNCSPOTS01-
START TIME: 96-309/13:47:16.999

Activity ID: Orbit C3 Target C Inst N OAPEL CSPOTS SeqNo 01 -

Title	CALLISTO BRIGHT SPOTS			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/04/96 Week 45
Start	CTE+CDS 00000017:00:0	96-309/13:47:16.999		CTE+000/00:17:11.333	
End	CTE+CDS 00000024:00:0	96-309/13:54:21.666		CTE+000/00:24:16.000	
Duration	00000007:00:0	000/00:07:04.667		000/00:07:04.667	

Top Label	C3CNCSPOTS01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	118	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

NIMS will obtain high spectral, high spatial resolution data to define/determine high albedo/bright spot composition of one of the 15 known palimpsests on Callisto. The Crater is 93 km in diameter. The objective is to determine and define compositional differences between the crater itself and surrounding surface areas.

Data Returned

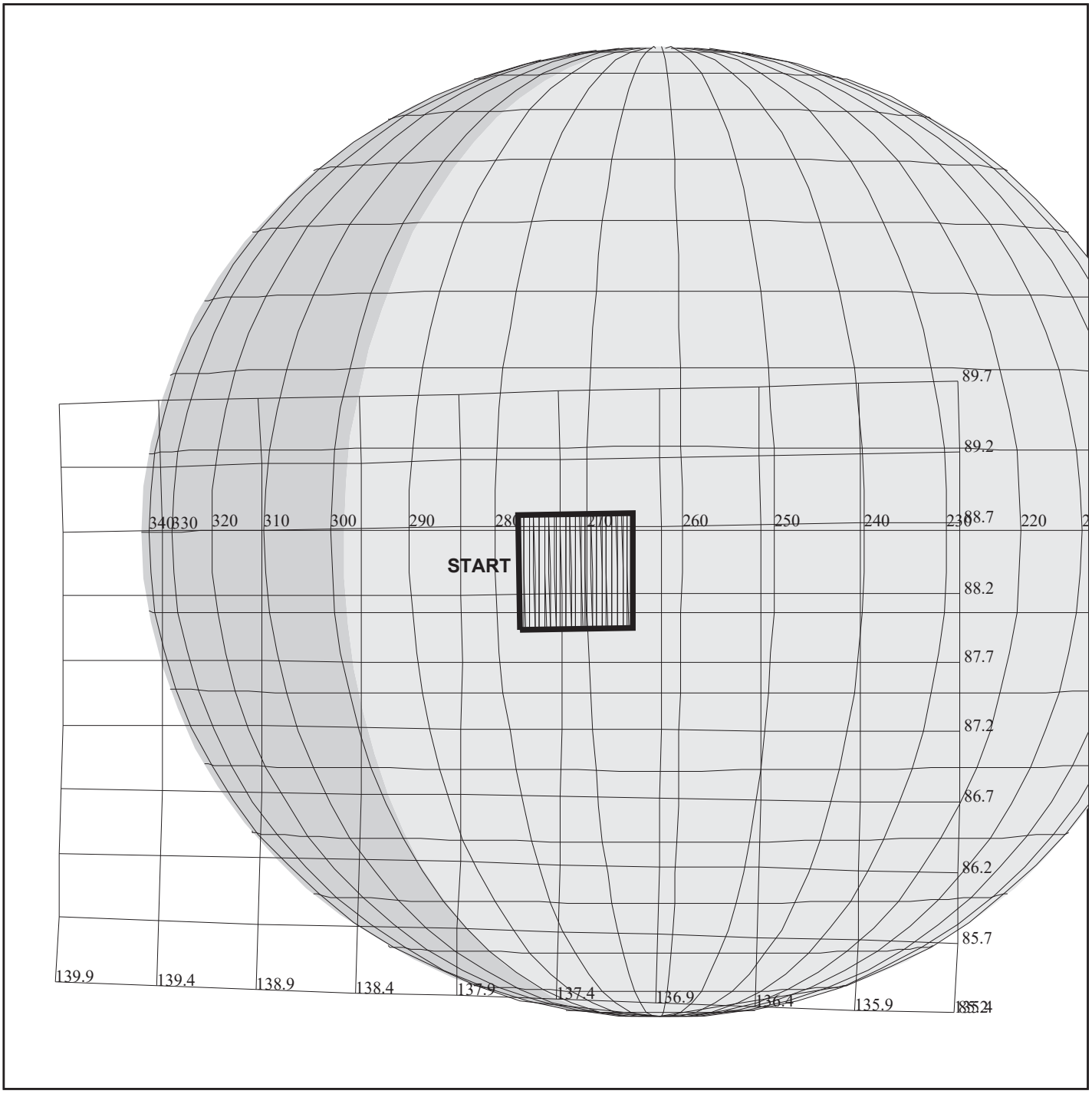
Design Detail

Instrument mode: Full Map
Instrument gain state: 4
Spatial resolution: 1.364 km/nimsel
Spectral resolution: 17 wavelengths
Phase angle: 86.44 degrees
Coverage in nimsels: 93 km x 27 km
Tracks: 0.012
Continuous scan of specified area in full map to achieve highest spatial resolution possible.

Part of Swath 1 Returned.

Full Map (FM), Gain 4, Grating Start 0, LPU, CFM221, CFM103

Galileo Activity Plan Form 09/12/96 16:57:35 rev 6/95



165DF:TT= 0 TMC= 1 C= 5.00 XC= 0.00 BS= 0/2285 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50=236.48 DEC50=-22.09 cone=137.64 clock= 88.39
117DF:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/2285
1:#s= 1 Cs= -10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 308 rD= 2

C3JNFEA05101

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA05101

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 -CDS 640:00:0

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

OBSERVATION:C3JNFEA05101

DESCRIP:Jupiter Campaign Feature 51deg 1

JUPITER CAMPAIGN FEATURE 51 DEG PART 1 ACTIVITY ID: C3JNFEA05101-
START TIME: 96-310/00:13:09.667

Activity ID: Orbit C3 Target J Inst N OAPEL FEA051 SeqNo 01 -

Title	JUPITER CAMPAIGN FEATURE 51 DEG PART 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/05/96 Week 45
Start	JTA-CDS	00000644:00:0	96-310/00:13:09.667		JTA-000/10:51:09.333
End	JTA-CDS	00000638:06:0	96-310/00:19:09.667		JTA-000/10:45:09.333
Duration		00000005:85:0	000/00:06:00.000		000/00:06:00.000

Top Label C3JNFEA05101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. This is the first observation obtained on a rotation during phase angle ~ 53 degrees. Jupiter imaged in 4 colors, using NIMS wavelength playback table JFT04A. This observation acquired with feature near morning terminator, assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III).

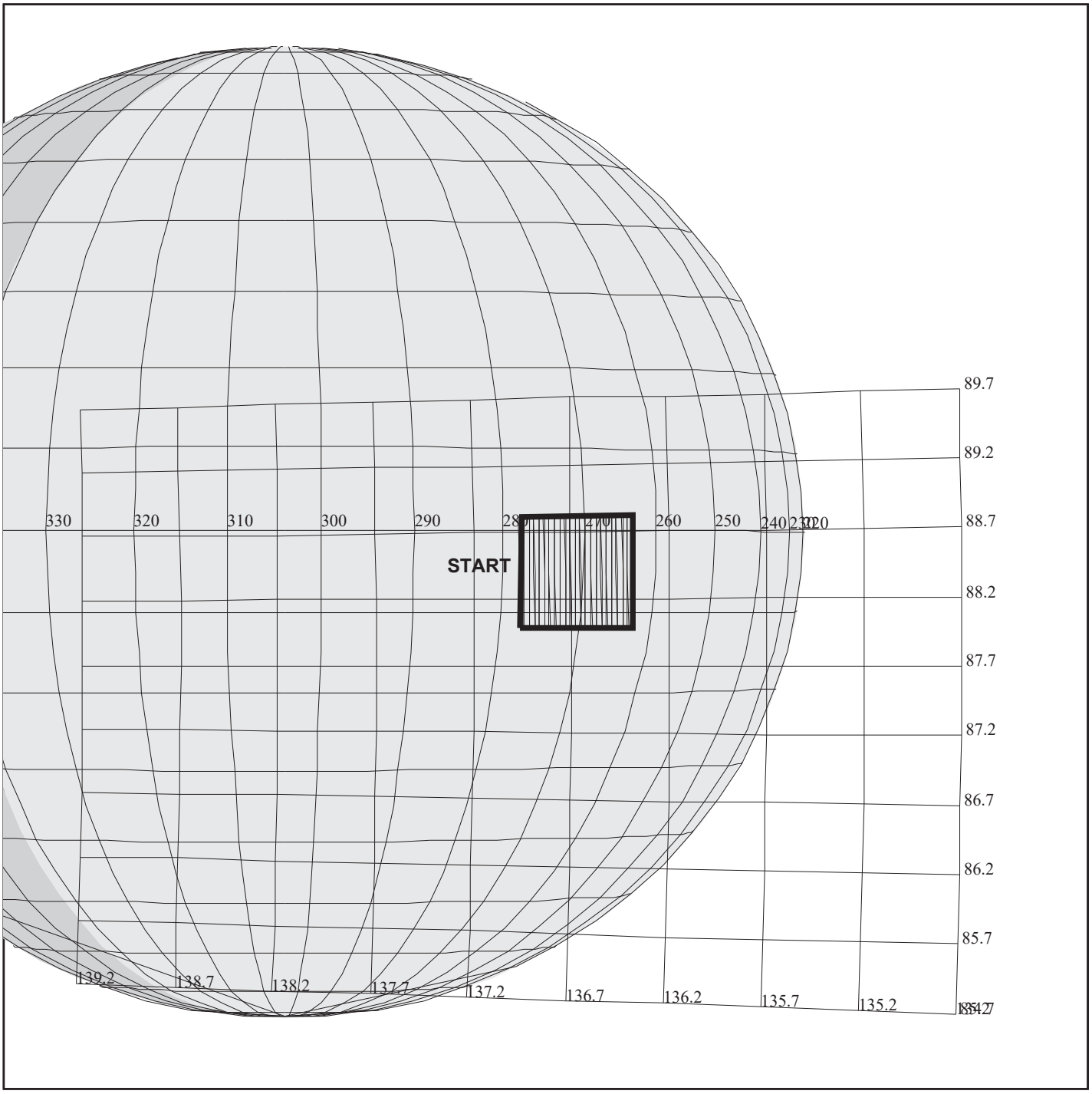
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on campaign feature. Spacecraft distance about 1.5 X 10^6 km; NIMS IFOV (NIMSel) = 750 km; 1 X 1 image covers 15000 X 15000 km. About 2 minutes of scanning accumulating 0.0307 MBTG in 4 colors using 0.0040 tracks. Four minutes reserved for targetting. JTA - JEE epoch offset of -120 RIMS assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:36 rev 6/95



165DG:TT= 0 TMC= 1 C= 5.00 XC= 0.00 BS= 0/5025 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50=235.77 DEC50=-21.93 cone=136.97 clock= 88.39
117DG:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/5025
1:#s= 1 Cs= -10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 308 rD= 2

C3JNFEA05102

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA05102

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 -CDS 570:00:0

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

OBSERVATION:C3JNFEA05102

DESCRIP:Jupiter Campaign Feature 51deg 2

Jupiter Campaign Feature 53 dgrs. part 2 ACTIVITY ID: C3JNFEA05102-
START TIME: 96-310/01:23:56.334

Activity ID: Orbit C3 Target J Inst N OAPEL FEA051 SeqNo 02 -

Title	Jupiter Campaign Feature 53 dgrs. part 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/05/96 Week 45
Start	JTA-CDS	00000574:00:0	96-310/01:23:56.334		JTA-000/09:40:22.666
End	JTA-CDS	00000568:06:0	96-310/01:29:56.334		JTA-000/09:34:22.666
Duration		00000005:85:0	000/00:06:00.000		000/00:06:00.000

Top Label C3JNFEA05102-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	82	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. This is the second observation obtained on a rotation during phase angle ~ 53 degrees. Jupiter imaged in 4 colors, using NIMS wavelength playback table JFT04A. This observation acquired with feature near minimum airmass assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III).

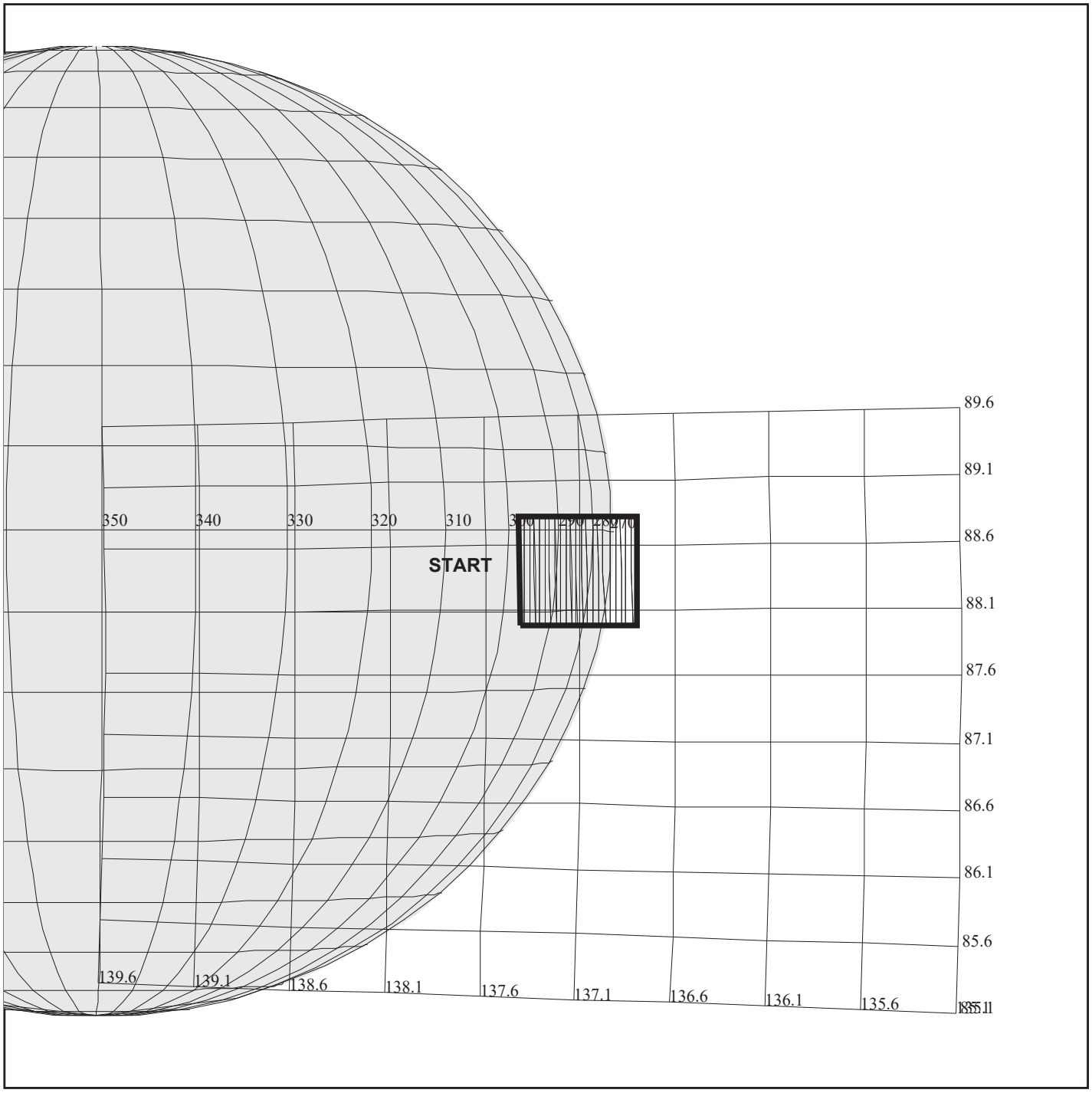
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on campaign feature. Spacecraft distance about 1.48 X 10^6 km; NIMS IFOV (NIMSel) = 740 km; 1 X 1 image covers 14200 X 14800 km, about 2 minutes of scanning, accumulating 0.0307 MBTG in 4 colors and 0.0040 tracks. Four minutes reserved for targetting.
JTA - JEE epoch offset of -120 RIMS assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:36 rev 6/95



165DH:TT= 0 TMC= 1 C= 8.00 XC= 0.00 BS= 0/9403 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50=236.22 DEC50=-22.03 cone=137.39 clock= 88.40
117DH:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/9403
1:#s= 1 Cs= -10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 308 rD= 2

C3JNFEA05103

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA05103

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 -CDS 491:00:0

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

OBSERVATION:C3JNFEA05103

DESCRIP:Jupiter Campaign Feature 51deg 3

Jupiter Campaign Feature 53 dgrs. part 3 ACTIVITY ID: C3JNFEA05103-
START TIME: 96-310/02:43:49.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA051 SeqNo 03 -

Title	Jupiter Campaign Feature 53 dgrs. part 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System CDS Load ID C3A Calendar Date 11/05/96 Week 45

Start	JTA-CDS 00000495:00:0	96-310/02:43:49.000	JTA-000/08:20:30.000
End	JTA-CDS 00000489:06:0	96-310/02:49:49.000	JTA-000/08:14:30.000
Duration	00000005:85:0	000/00:06:00.000	000/00:06:00.000

Top Label C3JNFEA05103-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	82	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. This is the third observation obtained on a rotation during phase angle ~ 54 degrees. Jupiter imaged in 4 colors, using NIMS wavelength playback table JFT04A. This observation acquired with feature near the bright limb, assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III).

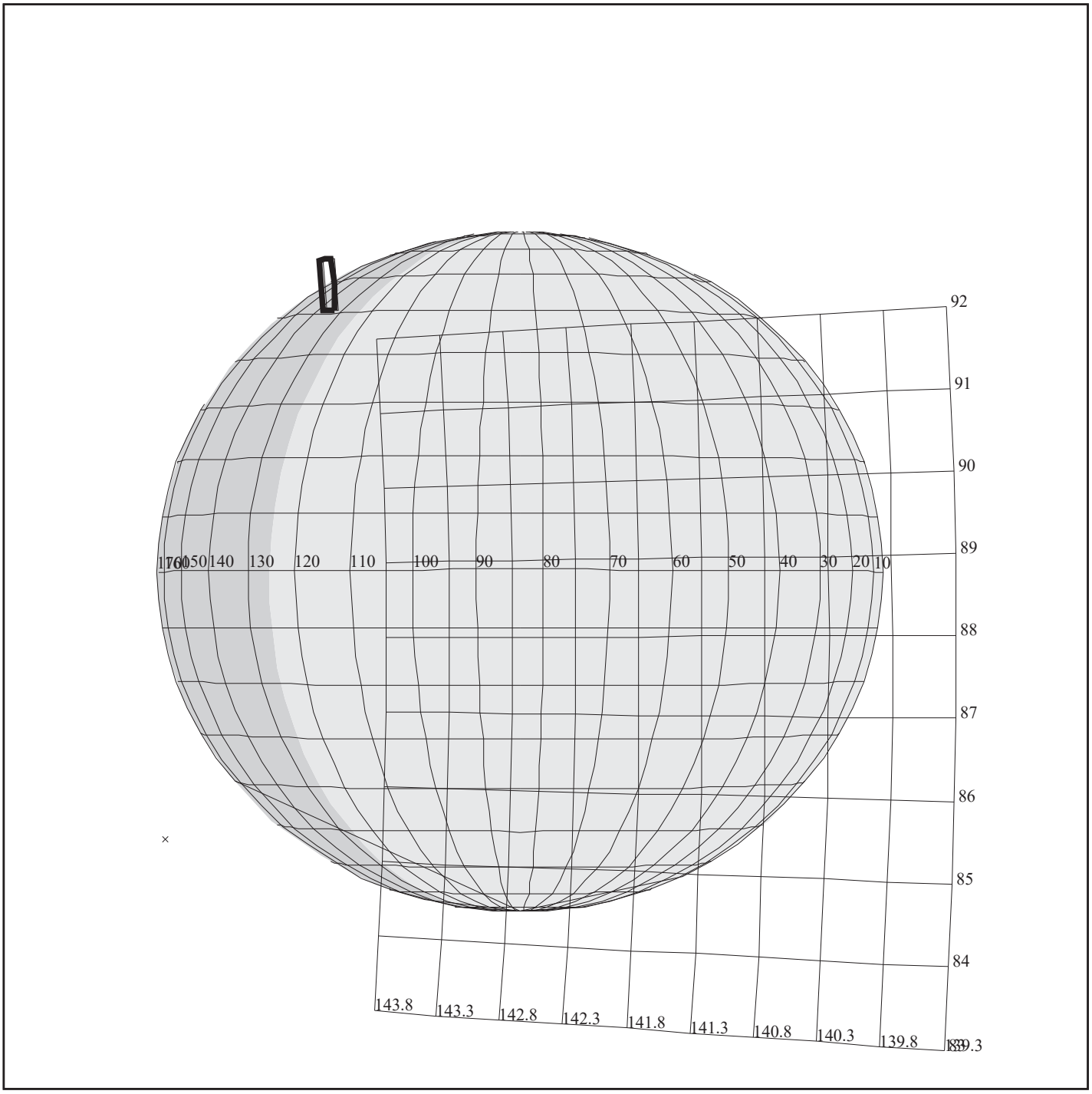
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 1.50 X 10^6 km; NIMS IFOV (NIMSel) = 750 km; 1 X 1 image covers 1500 X 1500 km. About 2 minutes of scanning accumulating 0.0307 MBTG in 4 colors and using 0.0040 tracks. Four minutes reserved for targetting. JTA - JEE epoch offsets of -120 assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:36 rev 6/95



165AX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7977 TC= 1(59 162)
A= 728 pD= 27300 SR=17.450 RA50=244.00 DEC50=-20.96 cone=144.17 clock= 92.76

C3JNNTARRT01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JUFTKR2B11

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING: :UVS 1**

START:JTB 96-310/07:55:14.333 -CDS 147:00:0 **BODY PLOT TIME:TARGET-TIME D=27300 S= 0.700**

OBSERVATION:C3JUFTKR2B11 **DESCRIP:JUPITER AURORAL CAMPAIGN**

Jupiter NIMS TAR Real Time obs. No. 1 ACTIVITY ID: C3JNNTARRT01+
START TIME: 96-310/05:26:37.357

Activity ID: Orbit C3 Target J Inst N OAPEL NTARRT SeqNo 01 +

Title	Jupiter NIMS TAR Real Time obs. No. 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 11/05/96	Week 45
Start	JTB-CDS	00000147:00:0	96-310/05:26:37.357	JTB-000/02:28:38.000
End	JTB-CDS	00000137:00:0	96-310/05:36:44.024	JTB-000/02:18:31.333
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label C3JNNTARRT01+
Bottom Label

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

Observation Objective

First of three Real-Time OAPels to examine the MWG Trans-Auroral recording spot on Jupiter. Long map spectra acquired of North Polar Auroral region, centered on the point (59 degrees North latitude, 162 degrees West longitude) connected via magnetosphere field lines to the Galileo S/C which is simultaneously conducting in-situ magnetosphere observations.
Four spectra acquired total, one in each of the central four NIMS mirror positions.

Data Returned

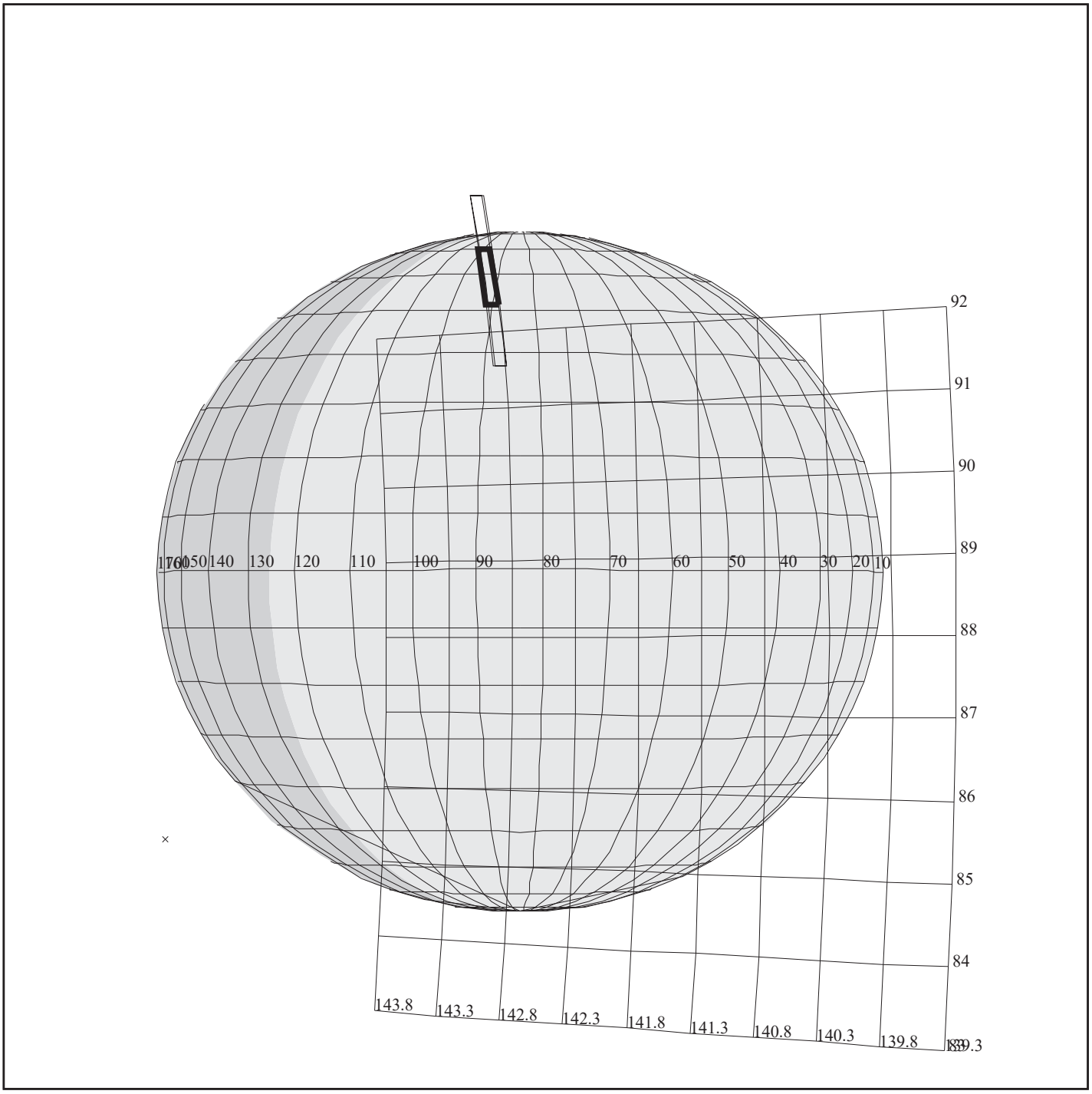
Design Detail

This is a Ride-along observation during a greater than two-hour long UVS observation. NIMS sends down, in real-time, 408 longmap wavelengths in four mirror positions. No targetting or scan platform PA's needed (scan platform being controlled by UVS).

Mirror Blocked (1B,1B) (11011,11011)
1 Rim.

Long Map (LM), Gain 2, Grating Start 0, RT , RT408

Galileo Activity Plan Form 11/07/96 15:57:33 rev 6/95



165AX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7977 TC= 1(59 162)
A= 728 pD= 27300 SR=17.450 RA50=244.00 DEC50=-20.96 cone=144.17 clock= 92.76

C3JNNTARRT02

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JUFTKR2B11

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING: :UVS 1**

START:JTB 96-310/07:55:14.333 -CDS 147:00:0 **BODY PLOT TIME:TARGET-TIME D=27300 S= 0.700**

OBSERVATION:C3JUFTKR2B11 **DESCRIP:JUPITER AURORAL CAMPAIGN**

Jupiter NIMS TAR Real-Time Obs. No. 2 ACTIVITY ID: C3JNNTARRT02+
START TIME: 96-310/07:05:42.691

Activity ID: Orbit C3 Target J Inst N OAPEL NTARRT SeqNo 02 +

Title	Jupiter NIMS TAR Real-Time Obs. No. 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	11/05/96	Week 45
Start	JTB-CDS	00000049:00:0	96-310/07:05:42.691	JTB-000/00:49:32.666	
End	JTB-CDS	00000039:00:0	96-310/07:15:49.357	JTB-000/00:39:26.000	
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666	

Top Label	C3JNNTARRT02+				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

Second of three Real-Time OAPels to examine the MWG Trans-Auroral recording spot on Jupiter. Long map spectra acquired of North Polar Auroral region, centered on the point (59 degrees North latitude, 162 degrees West longitude) connected via magnetosphere field lines to the Galileo S/C which is simultaneously conducting in-situ magnetosphere observations.
Four spectra acquired total, one in each of the central four NIMS mirror positions.

Data Returned

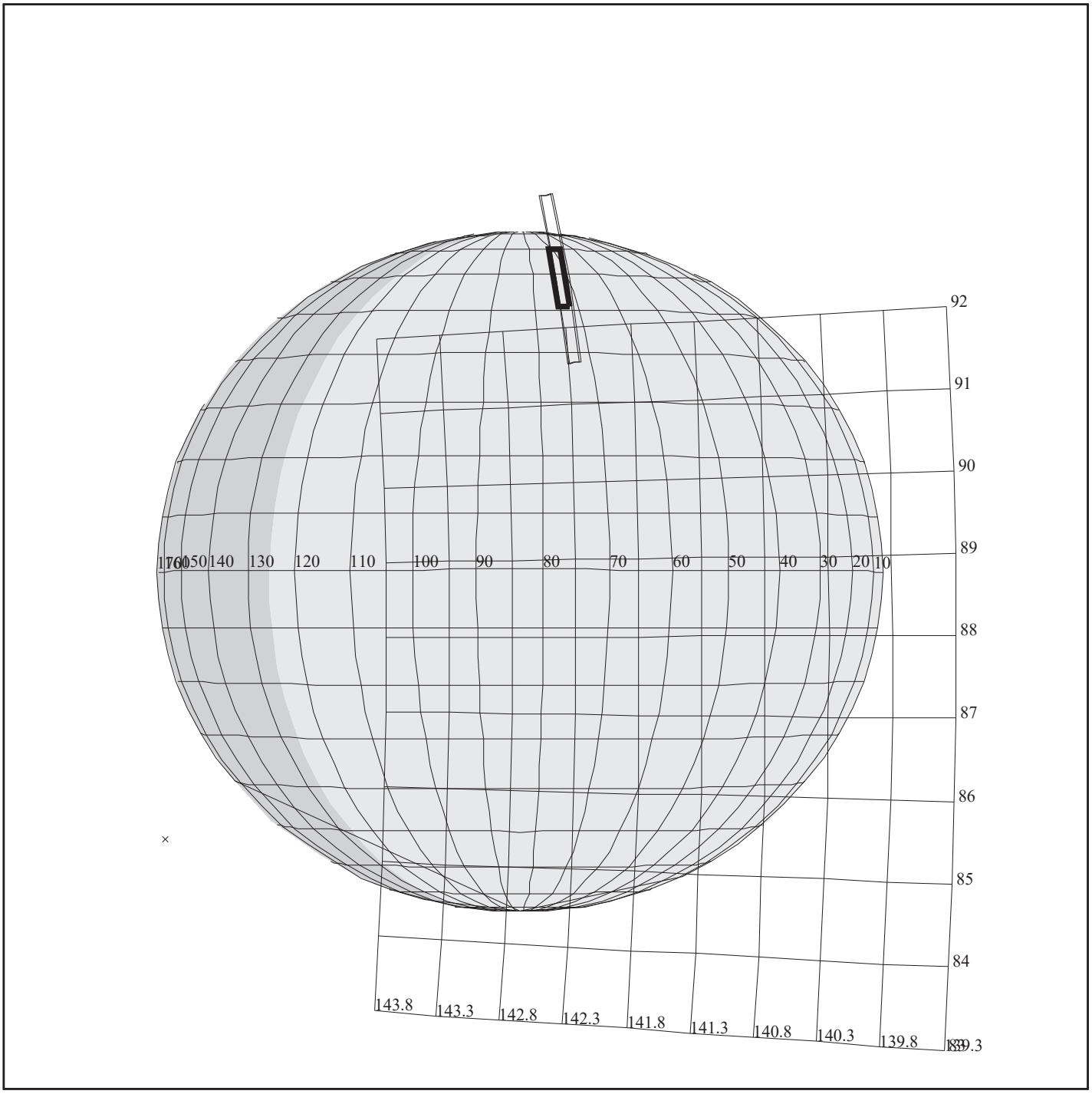
Design Detail

This is a Ride-along observation during a greater than two-hour long UVS observation. NIMS sends down, in real-time, 408 longmap wavelengths in four mirror positions. No targetting or scan platform PA's needed (scan platform being controlled by UVS).

Mirror Blocked (1B,1B) (11011,11011)
1 Rim

Long Map (LM), Gain 2, Grating Start 0, RT , RT408

Galileo Activity Plan Form 11/07/96 15:57:33 rev 6/95



165AX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7977 TC= 1(59 162)
A= 728 pD= 27300 SR=17.450 RA50=244.00 DEC50=-20.96 cone=144.17 clock= 92.76

C3JNNTARRT03

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JUFTKR2B11

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING: :UVS 1**

START:JTB 96-310/07:55:14.333 -CDS 147:00:0 **BODY PLOT TIME:TARGET-TIME D=27300 S= 0.700**

OBSERVATION:C3JUFTKR2B11 **DESCRIP:JUPITER AURORAL CAMPAIGN**

Jupiter NIMS TAR Real-Time Obs. No. 3 ACTIVITY ID: C3JNNTARRT03+
START TIME: 96-310/07:52:13.357

Activity ID: Orbit C3 Target J Inst N OAPEL NTARRT SeqNo 03 +

Title	Jupiter NIMS TAR Real-Time Obs. No. 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 11/05/96 Week 45

Start	JTB-CDS	00000003:00:0 96-310/07:52:13.357	JTB-000/00:03:02.000
End	JTB+CDS	00000007:00:0 96-310/08:02:20.023	JTB+000/00:07:04.666
Duration		00000010:00:0 000/00:10:06.666	000/00:10:06.666

Top Label C3JNNTARRT03+
Bottom Label

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

Observation Objective

Third of three Real-Time OAPels to examine the MWG Trans-Auroral recording spot on Jupiter. Long map spectra acquired of North Polar Auroral region, centered on the point (59 degrees North latitude, 162 degrees West longitude) connected via magnetosphere field lines to the Galileo S/C which is simultaneously conducting in-situ magnetosphere observations.
Four spectra acquired total, one in each of the central four NIMS mirror positions.

Data Returned

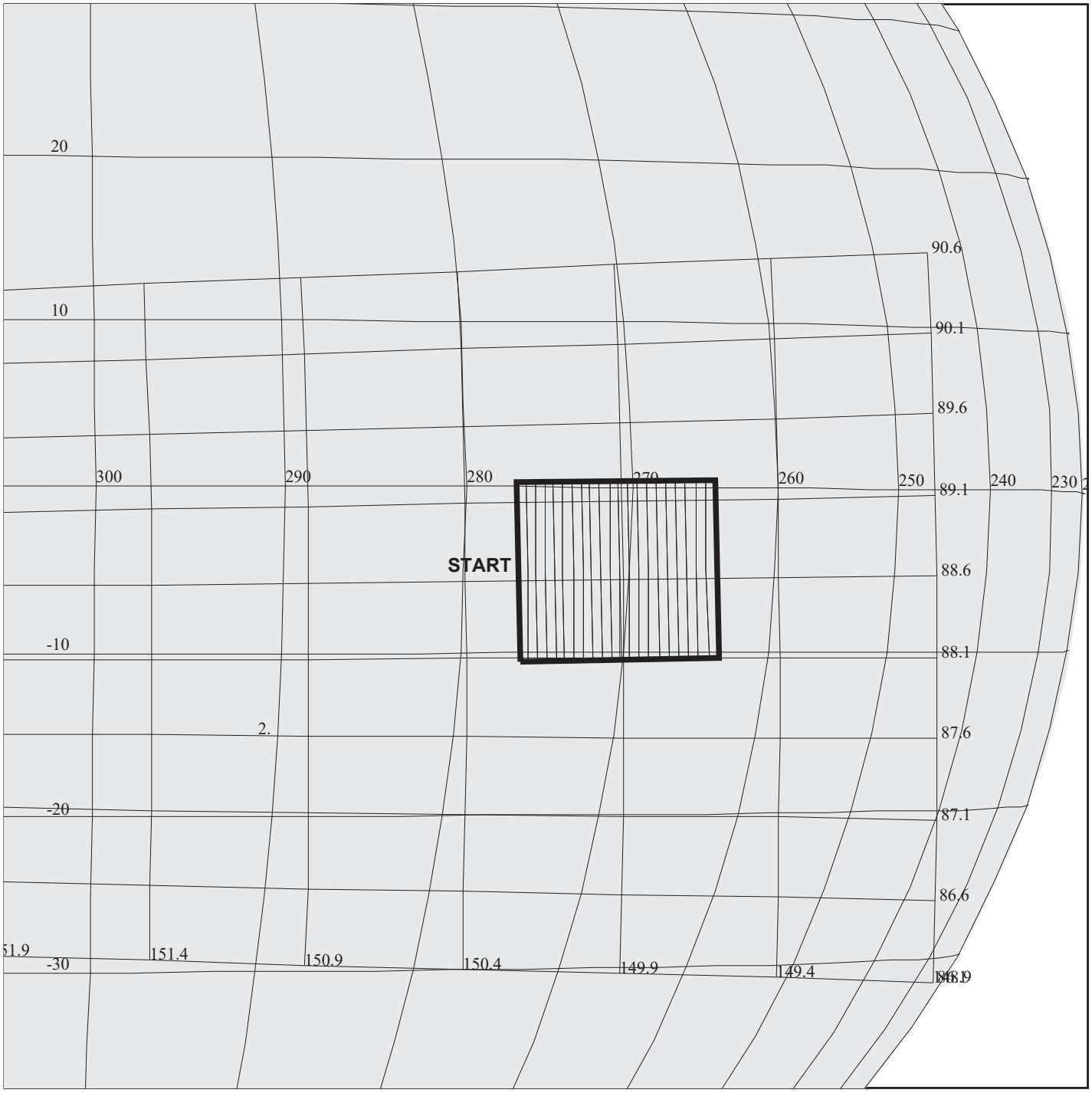
Design Detail

This is a Ride-along observation during a greater than two-hour long UVS observation. NIMS sends down, in real-time, 408 longmap wavelengths in four mirror positions. No targetting or scan platform PA's needed (scan platform being controlled by UVS).

Mirror Blocked (1B,1B) (11011,11011)
1 Rim

Long Map (LM), Gain 2, Grating Start 0, RT , RT408

Galileo Activity Plan Form 11/07/96 15:57:34 rev 6/95



165DK:TT= 0 TMC= 1 C= 5.20 XC= 0.00 BS= 0/5863 TC= 1(-5 271)
A= 364 pD= 0 SR=17.450 RA50=249.95 DEC50=-24.30 cone=150.21 clock= 88.68
117DK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5863
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

C3JNFEASUB01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEASUB01

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 +CDS 39:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

OBSERVATION:C3JNFEASUB01

DESCRIP:Jupiter Campaign Feat Sub-Sectra

Jupiter Campaign Feature Sub-Spectra ACTIVITY ID: C3JNFEASUB01-
START TIME: 96-310/11:38:41.666

Activity ID: Orbit C3 Target J Inst N OAPEL FEASUB SeqNo 01 -

Title	Jupiter Campaign Feature Sub-Spectra	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/05/96 Week 45
Start	JTA+CDS	00000034:00:0	96-310/11:38:41.666		JTA+000/00:34:22.666
End	JTA+CDS	00000039:53:0	96-310/11:44:20.333		JTA+000/00:40:01.333
Duration		00000005:53:0	000/00:05:38.667		000/00:05:38.667

Top Label C3JNFEASUB01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

High spectral resolution map of South Equatorial Belt Campaign Feature in several CH4 and H2 absorption features. This single partial-spectra map obtained under good lighting and viewing conditions during the phase angle ~ 40 degrees rotation. Jupiter imaged in 80 colors distributed among five spectral regions, using NIMS wavelength playback table JSB80A. Assumed feature coordinates: 5.5 degrees south latitude and 271 degrees west longitude (System III).

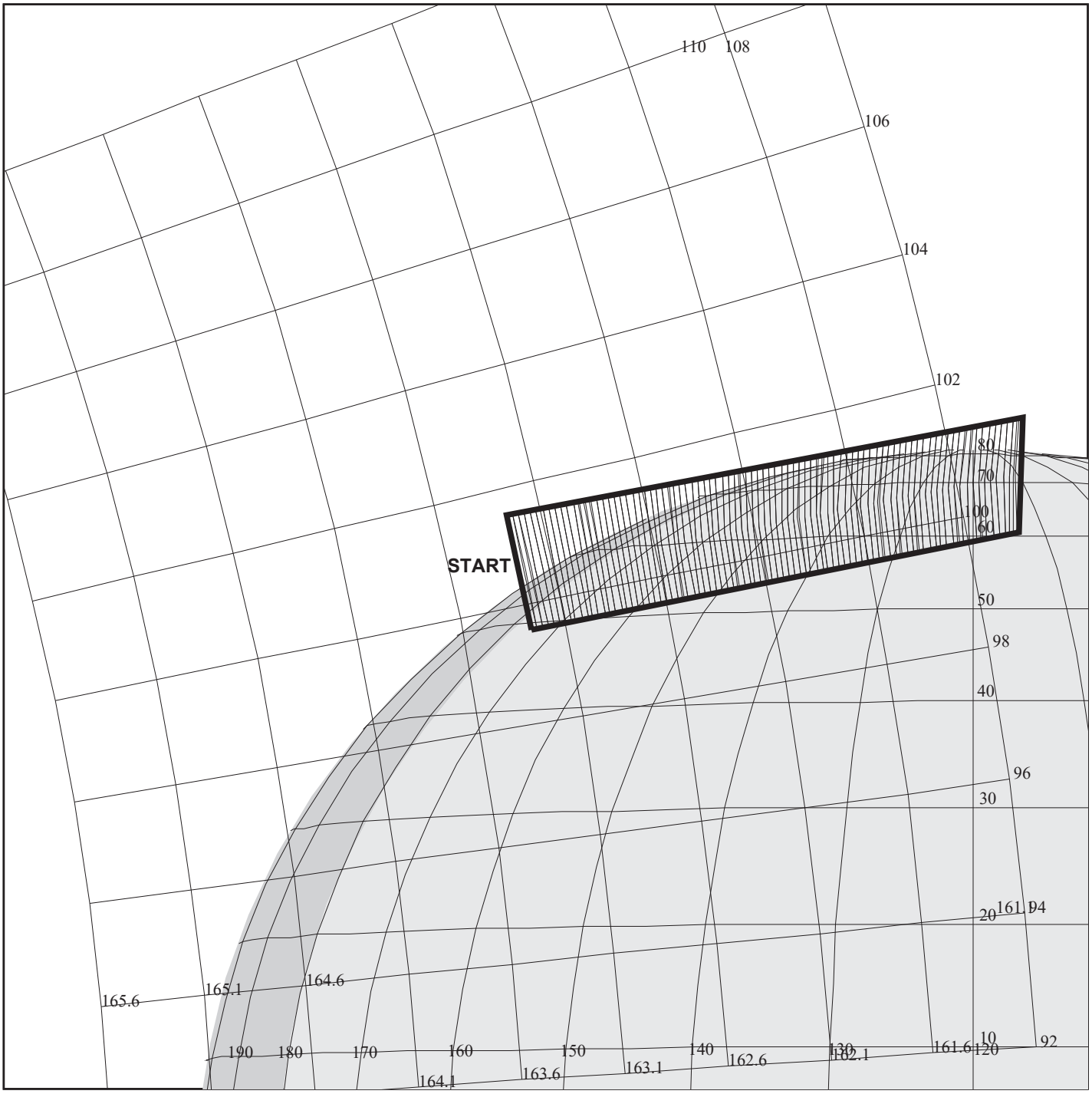
Data Returned

Design Detail

Longmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 1.18 X 10^6 km; NIMS IFOV (NIMSel) = 590 km; 1 X 1 image covers 11800 X 11800 km. About 6 minutes of scanning accumulating 0.363 MBTG and using 0.0121 tracks. Two minutes reserved for targetting. JTA - JEE epoch offset of -120 RIMS assumed. Note: 7/8/96. OAPEL delayed 4 RIMS to accomodate tape record wait period between OAPels.

Long Map (LM), Gain 4, Grating Start 0, LPU, JSB253A, JSB215A

Galileo Activity Plan Form 09/12/96 16:57:37 rev 6/95



165DM:TT= 0 TMC= 1 C= 14.00 XC= 1.00 BS= 0/1555 TC= 1(59.0 162.0)
A= 728 pD= 0 SR=17.450 RA50=264.78 DEC50=-22.12 cone=163.24 clock=100.56
117DM:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/1555
1:#s= 1 Cs= -40.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1212 rD= 2

C3JNPFTRAK01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNPFTRAK01

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTB 96-310/07:55:14.333 +CDS 532:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500

OBSERVATION:C3JNPFTRAK01

DESCRIP:Jupiter Feather Track part 1

Jupiter Partial Feature Track part 1 ACTIVITY ID: C3JNPFTRAK01-
START TIME: 96-310/16:49:06.333

Activity ID: Orbit C3 Target J Inst N OAPEL PFTRAK SeqNo 01 -

Title	Jupiter Partial Feature Track part 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/05/96 Week 45
Start	JTB+CDS	00000528:00:0	96-310/16:49:06.333		JTB+000/08:53:52.000
End	JTB+CDS	00000538:30:0	96-310/16:59:32.999		JTB+000/09:04:18.666
Duration		00000010:30:0	000/00:10:26.666		000/00:10:26.666

Top Label C3JNPFTRAK01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	131	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

First of 2 OAPELS constituting the polar partial feature track. Jupiter imaged in 19 colors, using NIMS wavelength table JFT19B which includes auroral wavelengths. This OAPEL constitutes 1 scan of the Polar region, targetting the MWG "footprint" area on the auroral region on the planet which is tied to in-situ spacecraft observations of the Magnetosphere. This footprint extends from 60 degrees north, 156 degrees west longitude (System III) to 58.3 north, 168.2 degrees west longitude. OAPEL centered at 59 degrees north, 162 degrees west.

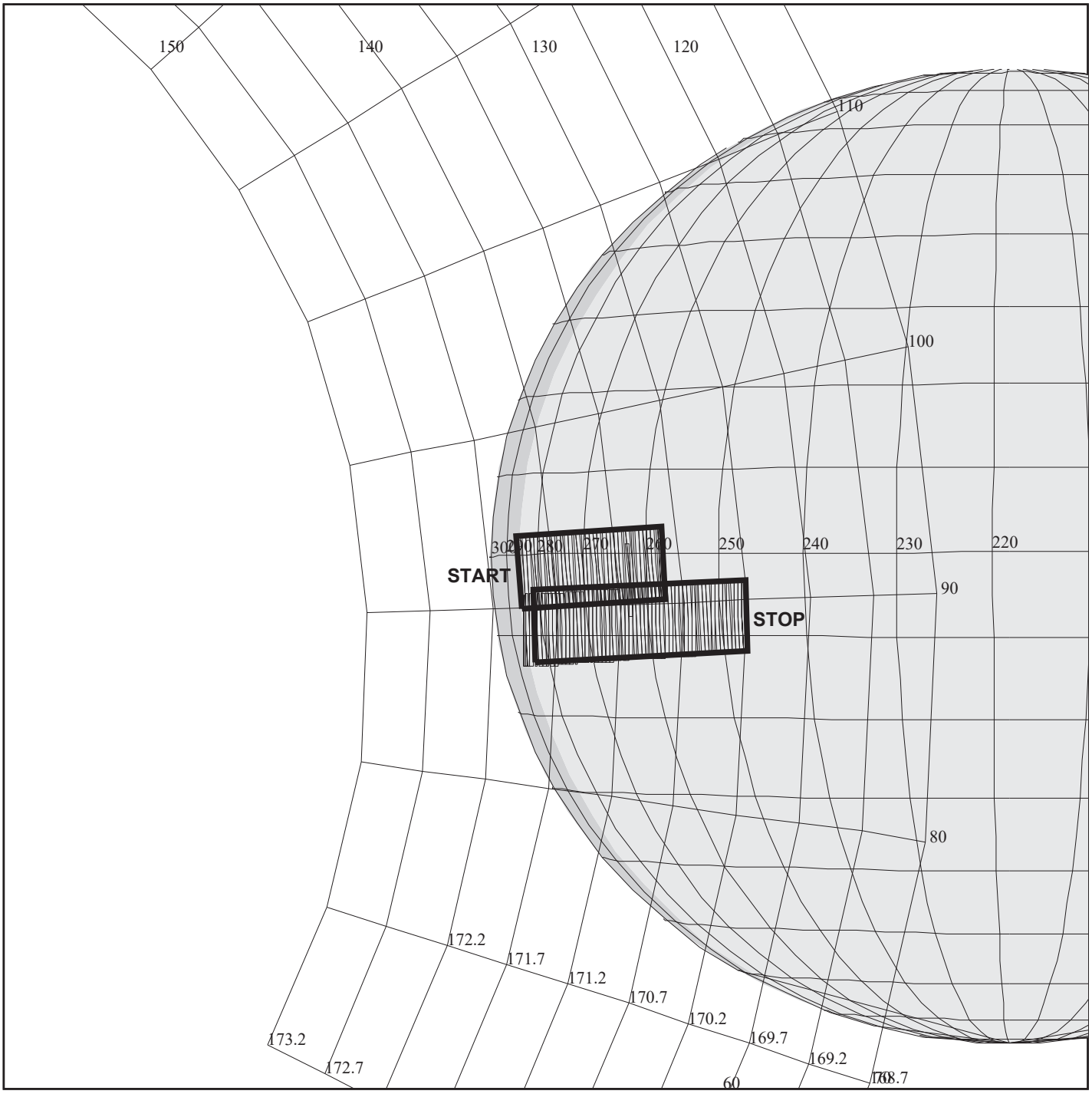
Data Returned

Design Detail

One shortmap, Nyquist-sampled observations of 4 X 1 (40 X 10 mrad) area centered on the polar feature. Spacecraft distance about 1.05 million km; NIMS IFOV (NIMSel) = 530 km; 4 X 1 image covers 42400 X 10500 km. Scan utilizes about 6 minutes 30 seconds, 0.3176 MBTG in 19 colors and 0.0132 tracks. Four minutes reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68D, JFT26A

Galileo Activity Plan Form 09/12/96 16:57:37 rev 6/95



165DO:TT= 0 TMC= 1 C= 8.00 XC= 3.75 BS= 0/2859 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50=273.99 DEC50=-25.07 cone=172.02 clock= 92.04
117DO:#SB= 4 OR= 0.120 RR=17.000 BM=F RC= 1 BS= 0/2859
1:#s= 1 Cs= -19.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 492 rD= 2
2:#s= 1 Cs= -31.00 XCs= 0.00 Cr= 20.50 XCr= -8.00 sD= 808 rD= 64
3:#s= 1 Cs= -48.50 XCs= 0.00 Cr= 33.50 XCr= 7.75 sD= 1252 rD= 64
4:#s= 1 Cs= -27.50 XCs= 0.00 Cr= 51.00 XCr= -8.00 sD= 710 rD= 64

C3JNFEA01101

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA01101

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 +CDS 517:00:0

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

OBSERVATION:C3JNFEA01101

DESCRIP:Jupiter Campaign Feature 11deg 1

Jupiter Campaign Feature 18 dgrs. part 1 ACTIVITY ID: C3JNFEA01101-
START TIME: 96-310/19:40:59.666

Activity ID: Orbit C3 Target J Inst N OAPEL FEA011 SeqNo 01 -

Title	Jupiter Campaign Feature 18 dgrs. part 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/05/96 Week 45
Start	JTC+CDS	00000511:00:0	96-310/19:40:59.666		JTC+000/08:36:40.666
End	JTC+CDS	00000534:00:0	96-310/20:04:15.000		JTC+000/08:59:56.000
Duration		00000023:00:0	000/00:23:15.334		000/00:23:15.334

Top Label C3JNFEA01101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	144	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. The White Oval is scanned twice on a rotation during phase angle ~ 18 degrees. Jupiter imaged in 19 colors, using NIMS wavelength playback table JFT19A. This observation acquired with feature near dawn terminator and a little away from it assuming feature coordinates 5.5 degrees south latitude and 271 degrees longitude (System III).

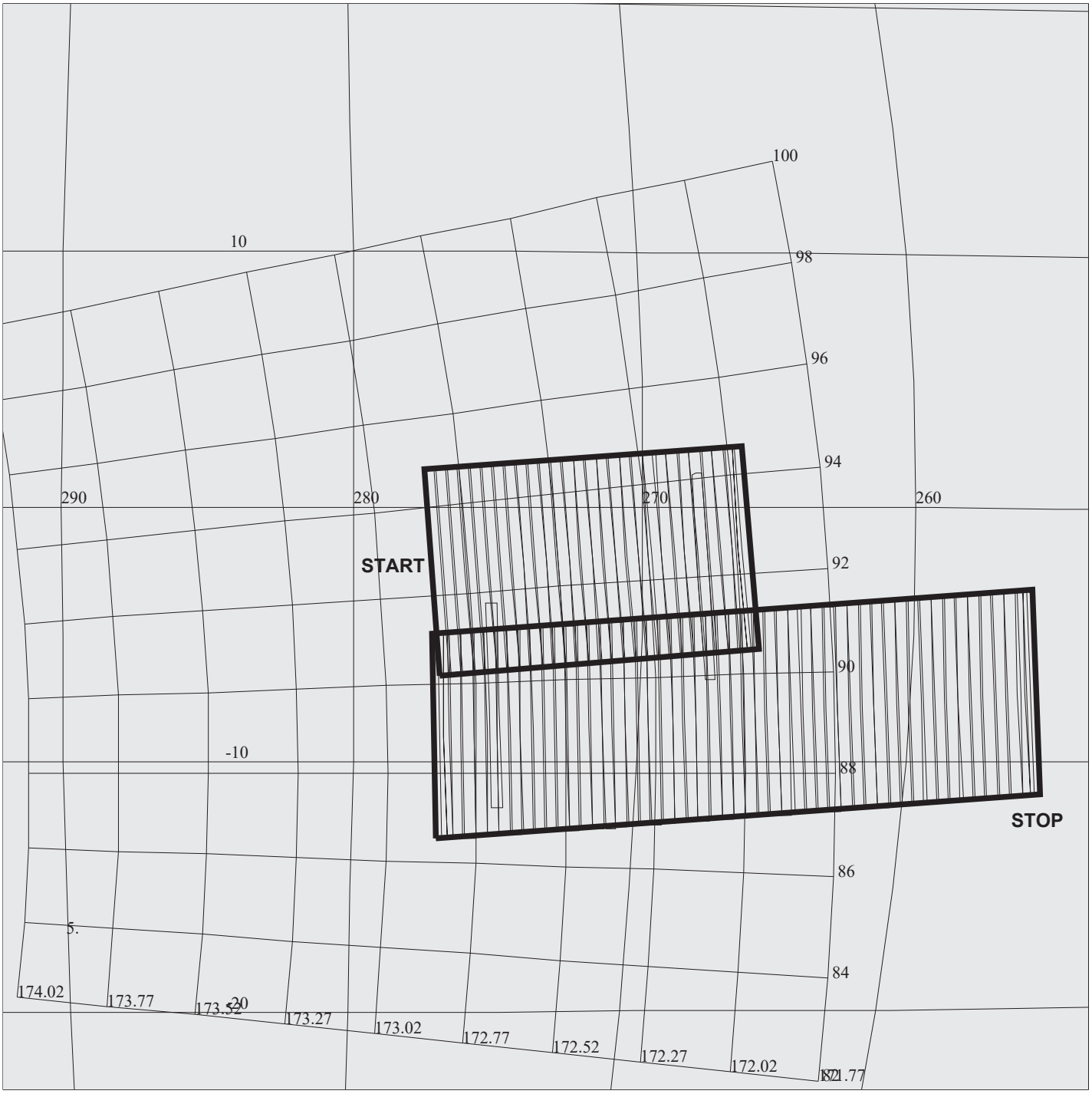
Data Returned

Design Detail

Two shortmap, Nyquist-sampled observations of 2 X 2 (20 X 18 mrad) area centered on campaign feature. Spacecraft distance about 0.94 X 10^6 km; NIMS IFOV (NIMSel) = 470 km; 2 X 2 image covers 18800 X 16900 km.
Two six minutes and 40 second scans accumulating a total of 0.72 MBTG in 19 colors and using 0.0270 tracks. Four minutes reserved for targetting. This observation was modified from its original form in that it includes the original C3JNFEA01102 OAPEL within it. Second scan and SCIREC begin about 96-310/21:57:40, corresponding to the scan time of the original C3JNFEA01102 OAPEL. Note: 6/96 - JTA - JEE epoch offset of -120 RIMS adotped to avoid cone pole, allowing coverage of more territory, campaign feature changed from White Oval to South Equatorial Belt due to absence of White Ovals during the JTA window. Note: 7/6/96: Separation between scans increased by 2 RIMS to accomodate tape recorder wait period constraint. Second SciRec now begins 96-310/21:52:42

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:37 rev 6/95



165DQ:TT= 0 TMC= 1 C= 8.50 XC= 3.75 BS= 0/4153 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50=274.93 DEC50=-25.02 cone=172.87 clock= 92.53
117DQ:#SB= 2 OR= 0.120 RR=17.000 BM=F RC= 1 BS= 0/4153
1:#s= 1 Cs= -15.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 396 rD= 42
2:#s= 1 Cs= -28.00 XCs= 0.00 Cr= 15.50 XCr= -8.00 sD= 734 rD= 62

C3JNFEA01104

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA01104

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 +CDS 634:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 3.000

OBSERVATION:C3JNFEA01104

DESCRIP:Jupiter Campaign Feature 11deg 4

Jupiter Campaign Feature 18 dgrs. part 4 ACTIVITY ID: C3JNFEA01104-
START TIME: 96-310/21:41:19.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA011 SeqNo 04 -

Title	Jupiter Campaign Feature 18 dgrs. part 4	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/05/96 Week 45
Start	JTA+CDS	00000630:00:0	96-310/21:41:19.000		JTA+000/10:37:00.000
End	JTA+CDS	00000640:50:0	96-310/21:51:59.000		JTA+000/10:47:40.000
Duration		00000010:50:0	000/00:10:40.000		000/00:10:40.000

Top Label C3JNFEA01104-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	95	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. This is the fourth observation (scan) obtained on a rotation during phase angle ~ 18 degrees. Jupiter imaged in 19 colors, using NIMS wavelength playback table JFT19A. This observation acquired with feature near minimum airmass, assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III).

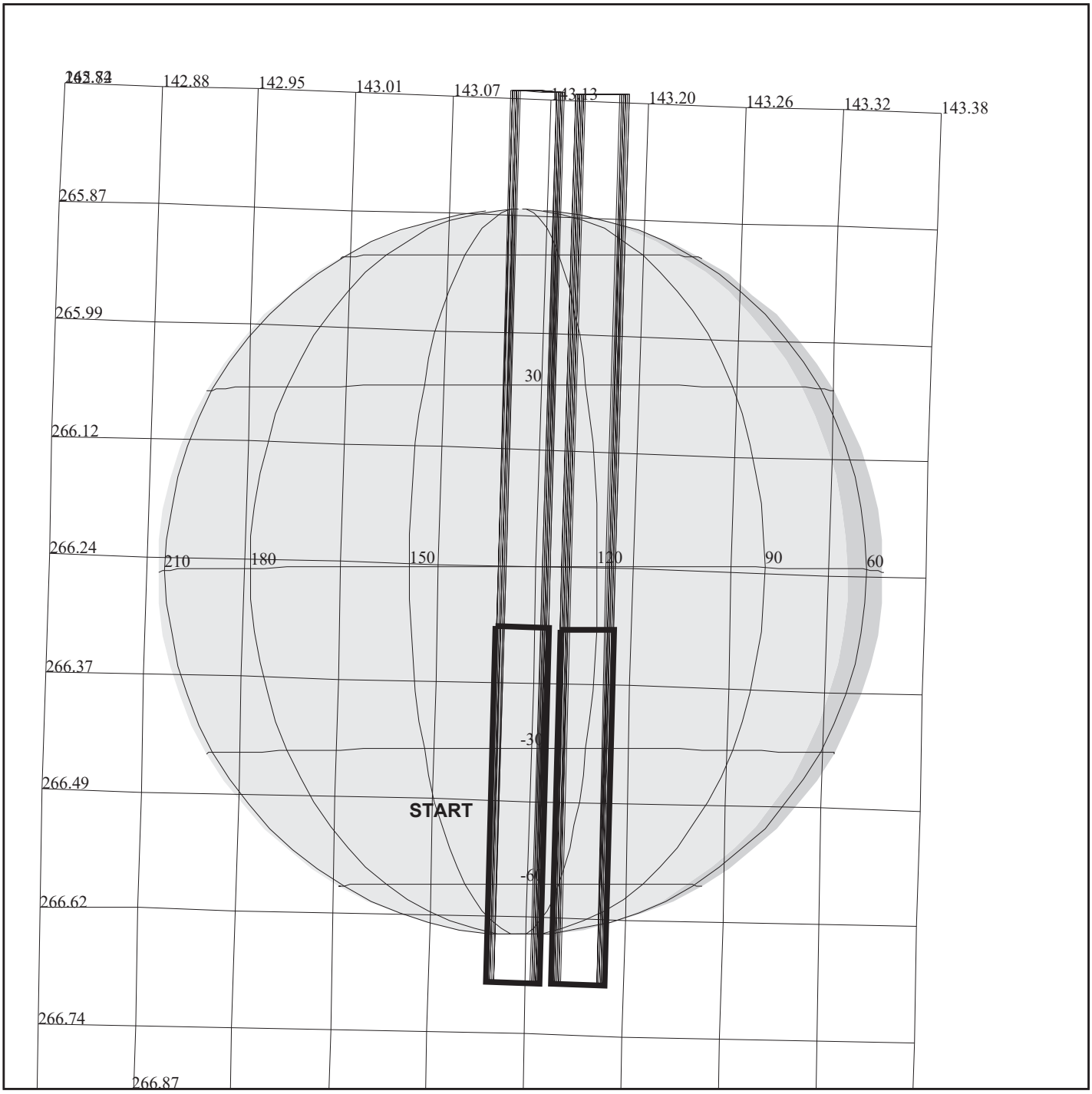
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on Campaign Feature. Spacecraft distance about 0.87 X 10^6 km; NIMS IFOV (NIMSel) = 435 km; 2 X 2 image covers 17400 X 15600 km.
About 6 minutes 40 seconds of scanning accumulating 0.36 MBTG in 19 colors and using 0.0135 tracks. Four minutes reserved for targetting.
Note: 6/96 JTA - JEE epoch offset of -120 RIMS adopted to avoid cone pole, allowing coverage of more territory. Campaign Feature changed from White Oval to South Equatorial Belt due to absence of a White Oval during the JTA window.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:38 rev 6/95



165EY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6579 TC= 3
A= 910 pD= 0 SR=17.450 RA50=320.78 DEC50=-15.13 cone=143.12 clock=266.25

C3INRTIMON01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INRTIMON01

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-311/12:04:48.266 -CDS 507:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:C3INRTIMON01 **DESCRIP:Io Real Time Monitoring**

Io Real Time Monitoring

ACTIVITY ID: C3INRTIMON01-
START TIME: 96-311/03:28:07.667

Activity ID: Orbit C3 Target I Inst N OAPEL RTIMON SeqNo 01 -

Title	Io Real Time Monitoring			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	11/06/96	Week 45
Start	IEE-CDS 00000511:00:0	96-311/03:28:07.667		IEE-000/08:36:40.666	
End	IEE-CDS 00000505:00:0	96-311/03:34:11.667		IEE-000/08:30:36.666	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	C3INRTIMON01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

Realtime monitoring of Io.
This observation is required to improve wavelength selection for Io observations in the sequence. NIMS mode XM, mirror block, 8 wavelengths.

Data Returned

Design Detail

Target to center of Disk.

Mirror Blocked (1C,07) (11100,00111)
2 Rims

Fixed Map (XM), Gain 2, Grating Start 21, RT , RT008

Galileo Activity Plan Form 09/12/96 16:57:39 rev 6/95

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NIMS Software Load

ACTIVITY ID: C3NIMSP2LD01-
START TIME: 96-311/03:35:12.333

Activity ID: Orbit C3 Target N Inst I OAPEL MSP2LD SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	11/06/96	Week 45
Start	IEE-CDS	00000504:00:0	96-311/03:35:12.333	IEE-000/08:29:36.000	
End	IEE-CDS	00000489:00:0	96-311/03:50:22.333	IEE-000/08:14:26.000	
Duration		00000015:00:0	000/00:15:10.000	000/00:15:10.000	

Top Label	C3NIMSP2LD01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

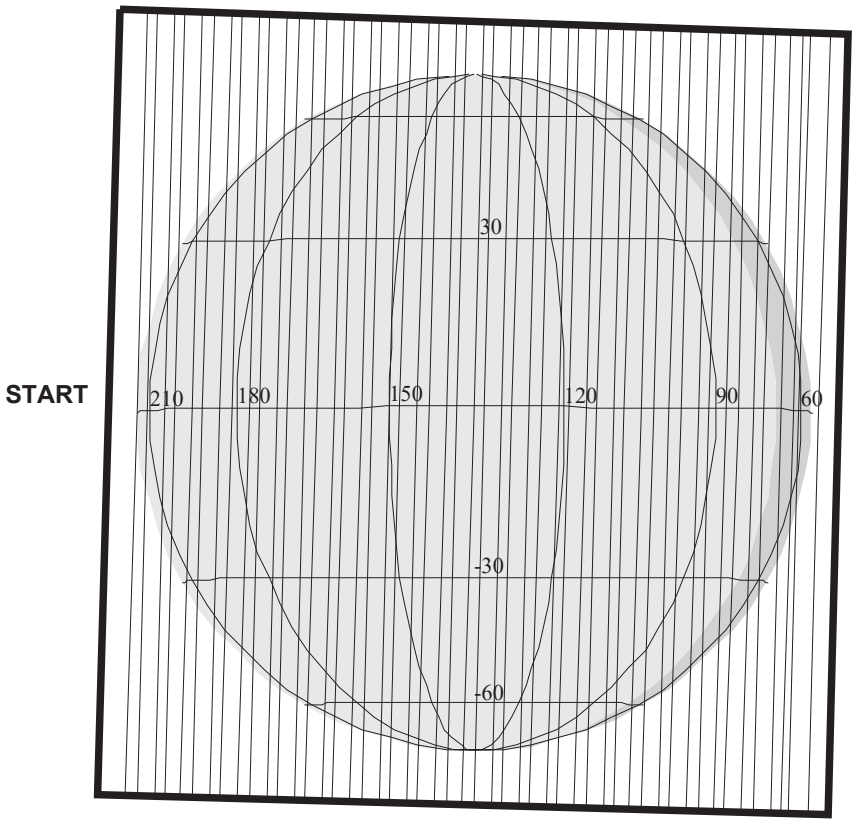
Observation Objective

Reload NIMS RAM flight software from CDS.
LOAD_A

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

Galileo Activity Plan Form 09/12/96 16:57:39 rev 6/95



165DS:TT= 0 TMC= 1 C= -4.60 XC= 0.00 BS= 0/2403 TC= 3
A= 728 pD= 0 SR=17.450 RA50=322.28 DEC50=-14.54 cone=141.56 clock=266.24
117DS:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2403
1:#s= 1 Cs= 6.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 666 rD= 2

C3INCHEMIS02

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INCHEMIS02

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 -CDS 475:00:0

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

OBSERVATION:C3INCHEMIS02

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: C3INCHEMIS02-
START TIME: 96-311/04:00:29.000

Activity ID: Orbit C3 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	C3A	Calendar Date	11/06/96 Week 45

Start	IEE-CDS 00000479:00:0	96-311/04:00:29.000	IEE-000/08:04:19.333
End	IEE-CDS 00000470:08:0	96-311/04:09:29.667	IEE-000/07:55:18.666
Duration	00000008:83:0	000/00:09:00.667	000/00:09:00.667

Top Label	C3INCHEMIS02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

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).

Data Returned

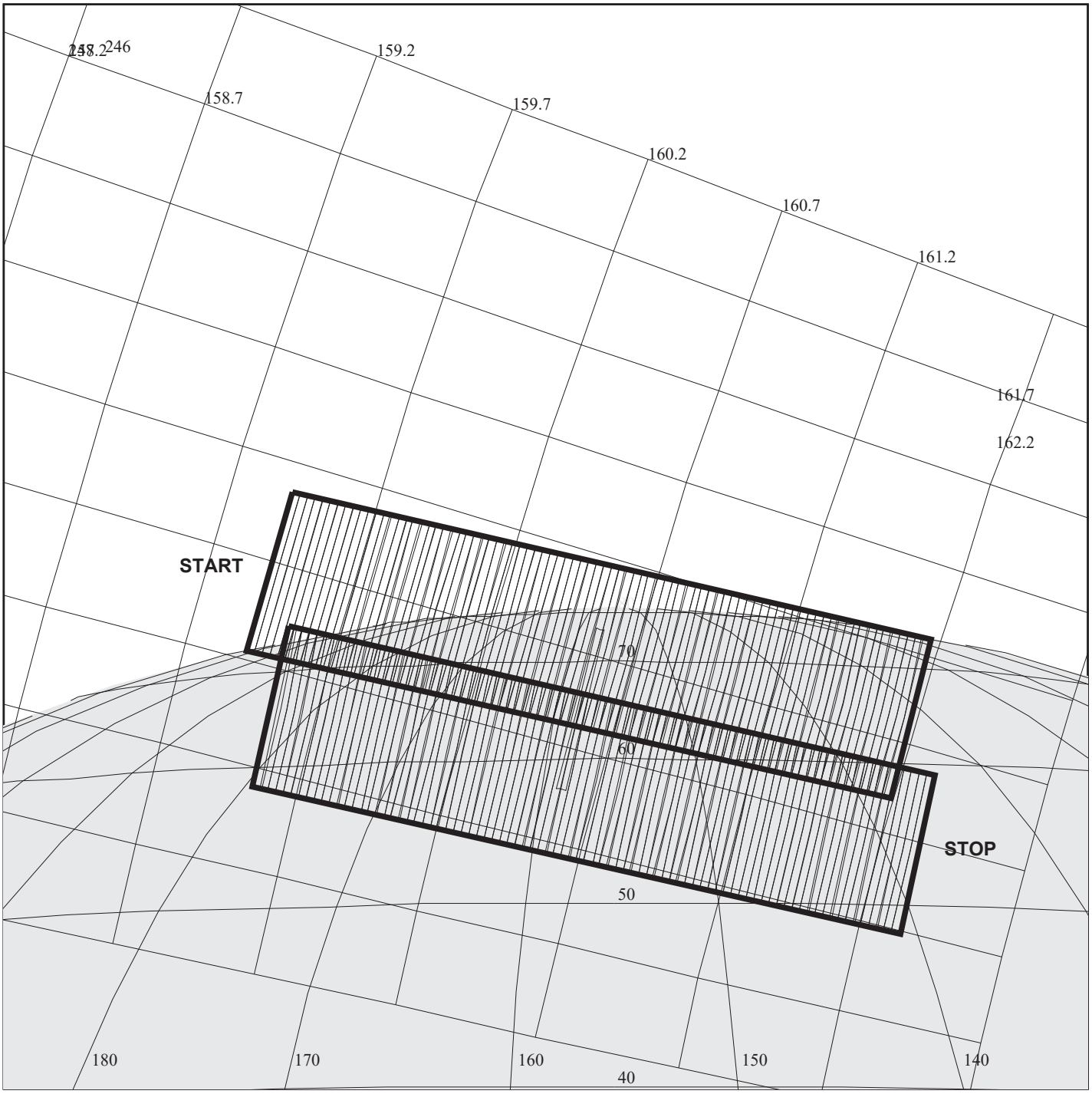
Design Detail

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.

Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42. Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, ILM245, ILM102

Galileo Activity Plan Form 09/12/96 16:57:39 rev 6/95



165DT:TT= 0 TMC= 1 C= -35.00 XC= -81.50 BS= 0/0411 TC= 3
A= 728 pD= 0 SR=17.450 RA50=302.41 DEC50=-15.63 cone=159.39 clock=251.10
117DT:#SB= 1 OR= 0.080 RR=12.000 BM=F RC= 1 BS= 0/0411
1:#s= 2 Cs= 31.00 XCs= 0.00 Cr= -37.00 XCr= 10.00 sD= 1168 rD= 28

C3JNNPOLE_01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNNPOLE_01

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 96-311/13:27:42.933 -CDS 513:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 3.000

OBSERVATION:C3JNNPOLE_01

DESCRIP:JUPITER NORTH POLE MAP 1

Jupiter North Pole Map #1 ACTIVITY ID: C3JNNPOLE 01-
START TIME: 96-311/04:46:59.667

Activity ID: Orbit C3 Target J Inst N OAPEL NPOLE SeqNo 01 -

Title	Jupiter North Pole Map #1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID C3A Calendar Date 11/06/96 Week 45

Start	JEE-CDS 00000515:00:0	96-311/04:46:59.667	JEE-000/08:40:43.333
End	JEE-CDS 00000500:00:0	96-311/05:02:09.667	JEE-000/08:25:33.333
Duration	00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label C3JNNPOLE 01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

Map of North Polar Region characterizing haze and cloud structures at high spatial resolution. Nineteen (19) colors transmitted by NIMS wavelength table JFT19A. Observe as well the Magnetosphere footprint site at 59 degrees north, 162 degrees west one rotation after C3JNPFTRAK01 and C3JNPFTRAK02 observations which were nearly simultaneous with the in-situ magnetosphere observations.

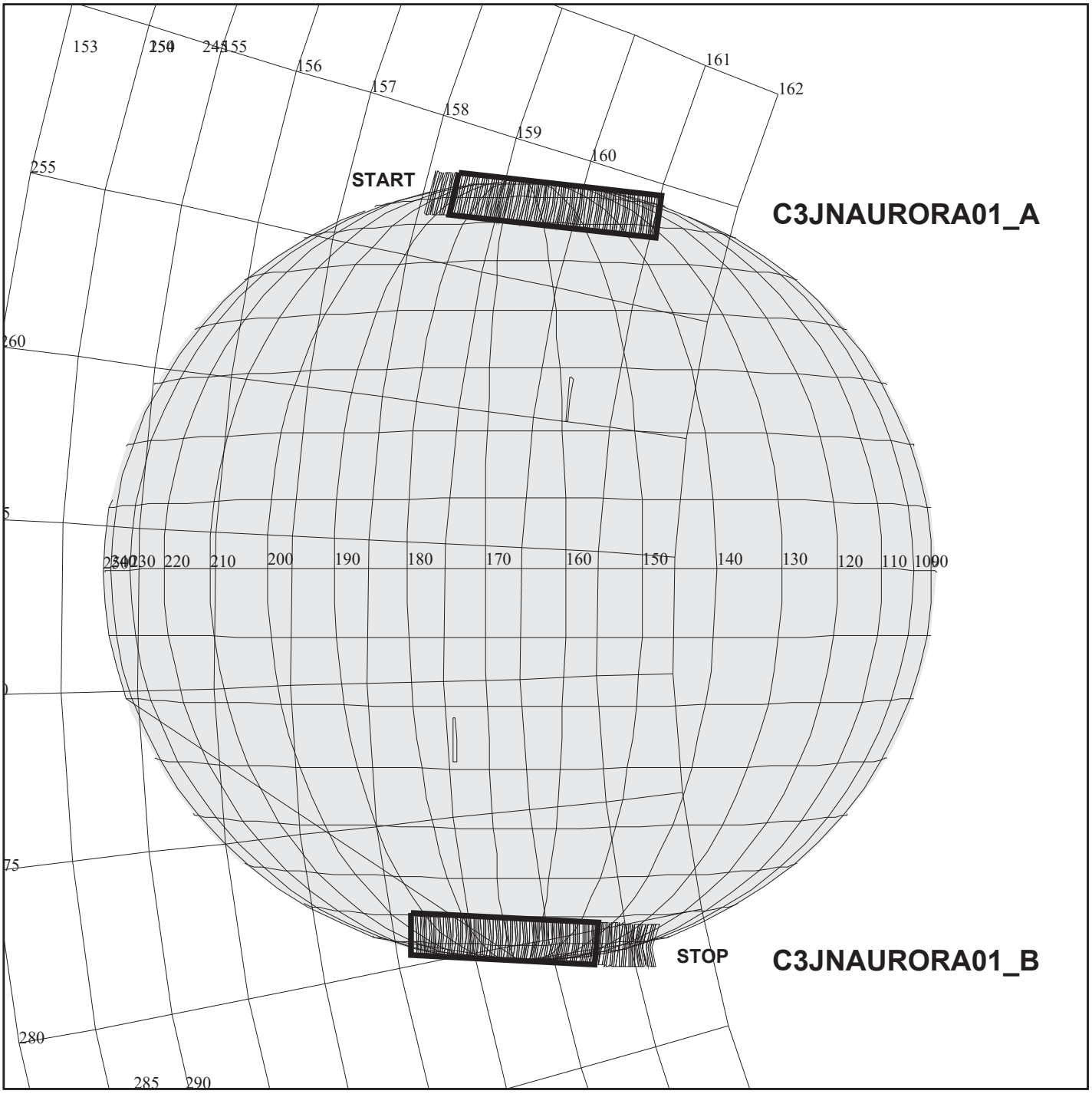
Data Returned

Design Detail

Shortmap, Nyquist-sampled observations of 50 X 18 mrad area (200 X 40 sampled NIMSels) at the North Pole. Spacecraft distance about 0.60 x 10^6 km; NIMS IFOV (NIMSel) = 300 km; area covered ~ 1500 km East-West, 10800 km North-South. Area covered in two tiers, with 2 mrad overlap between tiers. Tiers cover approximately 55 degrees north to the North Pole, and 130 - 180 degrees west longitude. Observation takes 16 minutes, accumulating 1.746 MBTG and using 0.03168 tracks.
NIMS wavelengths color table JFT19A. Four minutes reserved for targetting.
Note: 7/8/96 - OAPel moved 3 RIMS later to accomodate tape recorder wait period constraint.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68D, JFT26A

Galileo Activity Plan Form 09/12/96 16:57:40 rev 6/95



165DU:TT= 0 TMC= 1 C= -33.00 XC= -79.00 BS= 0/3869 TC= 3
A= 364 pD= 0 SR=17.450 RA50=303.87 DEC50=-15.49 cone=158.10 clock=252.67
117DU:#SB= 2 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/3869
1:#s= 1 Cs= 16.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4914 rD= 2
2:#s= 1 Cs= 17.40 XCs= 0.00 Cr= -15.00 XCr= 162.00 sD= 5314 rD= 140

C3JNAURORA01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNAURORA01

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 96-311/13:27:42.933 -CDS 494:00:0

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

OBSERVATION:C3JNAURORA01

DESCRIP:JUPITER AURORA 01

Jupiter Aurora

ACTIVITY ID: C3JNAURORA01-
START TIME: 96-311/05:10:15.000

Activity ID: Orbit C3 Target J Inst N OAPEL AURORA SeqNo 01 -

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

Time System	CDS	Load ID	C3A	Calendar Date	11/06/96 Week 45
Start	JEE-CDS 00000492:00:0	96-311/05:10:15.000		JEE-000/08:17:28.000	
End	JEE-CDS 00000437:00:0	96-311/06:05:51.667		JEE-000/07:21:51.333	
Duration	00000055:00:0	000/00:55:36.667		000/00:55:36.667	

Top Label C3JNAURORA01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	182	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

H3+ and other emissions imaged near 3-4 microns over both north and south poles. Forty (40) wavelengths sent to ground, using NIMS wavelength table JAU40A. Observe magnetosphere footprint site at 59 degrees north, 162 degrees west one rotation after in-situ spacecraft measurement and PFTRAK NIMS measurements.

Data Returned

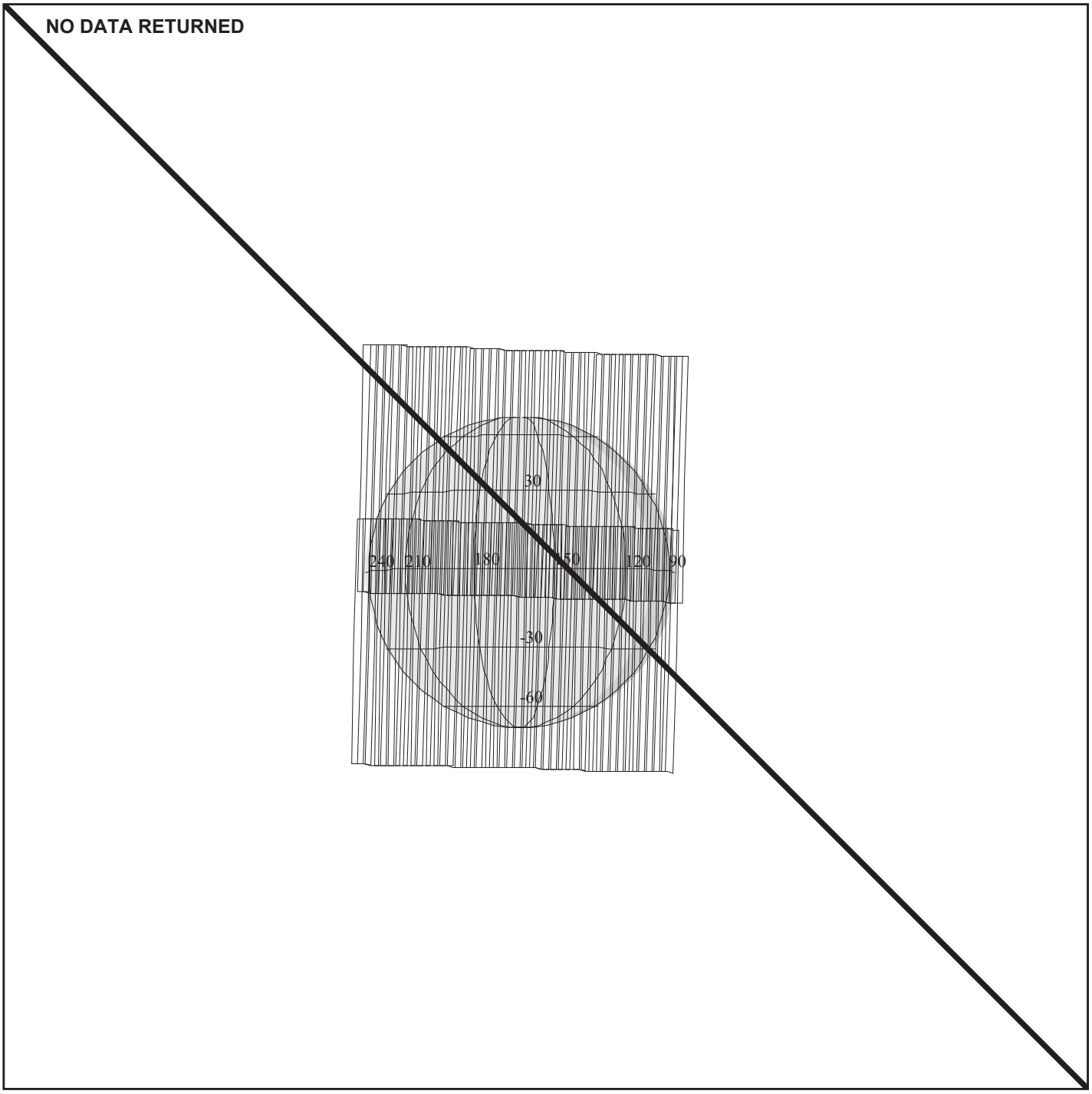
Design Detail

Longmap, Nyquist-sampled observation of 5.0 X 1 (200 X 20 NIMSel samples covering 50 X 20 area) centered first on north pole and then on the south pole. North Pole territory covered: Approximately 55 - 70 degrees north latitude, 145 to 190 degrees west longitude. South Pole territory covered: Approximately 62 - 90 degrees south latitude, 130 - 190 degrees west longitude. Spacecraft distance about 0.6 million km; covers 15000 x 6000 km. About 1734 seconds (29 minutes) of scanning. Each pole accumulates 0.9820 MBTG in 40 wavelengths and using 0.0605 tracks, on each pole. Two minutes reserved for targetting, since observation follows OAPEL C3JNNPOLE01 on the same target.
Note: 7/8/96 - OAPel moved 3 RIMS earlier to acomodate tape recorder wait period constraint.

North and South Polar swaths split into separate CUBE products (A and B).

Long Map (LM), Gain 2, Grating Start 0, LPU, JAU253A, JAU80A

Galileo Activity Plan Form 09/12/96 16:57:40 rev 6/95



165DV:TT= 0 TMC= 1 C= -6.50 XC= -4.00 BS= 0/5719 TC= 3
A= 728 pD= 0 SR=17.450 RA50=328.73 DEC50=-11.54 cone=134.60 clock=265.77
117DV:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5719
1:#s= 2 Cs= 11.00 XCs= 0.00 Cr= -12.80 XCr= 7.00 sD= 1106 rD= 28

C3INCHEMIS03

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INCHEMIS03

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 -CDS 237:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

OBSERVATION:C3INCHEMIS03

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: C3INCHEMIS03-
START TIME: 96-311/08:01:07.667

Activity ID: Orbit C3 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 C3A Calendar Date 11/06/96 Week 45

Start	IEE-CDS 00000241:00:0	96-311/08:01:07.667	IEE-000/04:03:40.666
End	IEE-CDS 00000223:66:0	96-311/08:18:35.667	IEE-000/03:46:12.666
Duration	00000017:25:0	000/00:17:28.000	000/00:17:28.000

Top Label C3INCHEMIS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	167	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

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).

No Data Returned

Design Detail

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.

Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, ILM245, ILM102

Galileo Activity Plan Form 09/12/96 16:57:40 rev 6/95

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NIMS Software Load

ACTIVITY ID: C3NIMSP2LD02-
START TIME: 96-311/09:39:12.266

Activity ID: Orbit C3 Target N Inst I OAPEL MSP2LD SeqNo 02 -

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

Time System	CDS	Load ID	Calendar Date	11/06/96	Week 45
Start	IEE+CDS	00000000:00:0	96-311/09:39:12.266	IEE+000/00:00:00.000	
End	IEE+CDS	00000000:00:0	96-311/09:54:22.266	IEE+000/00:00:00.000	
Duration		00000000:00:0	000/00:15:10.000	000/00:15:10.000	

Top Label	C3NIMSP2LD02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

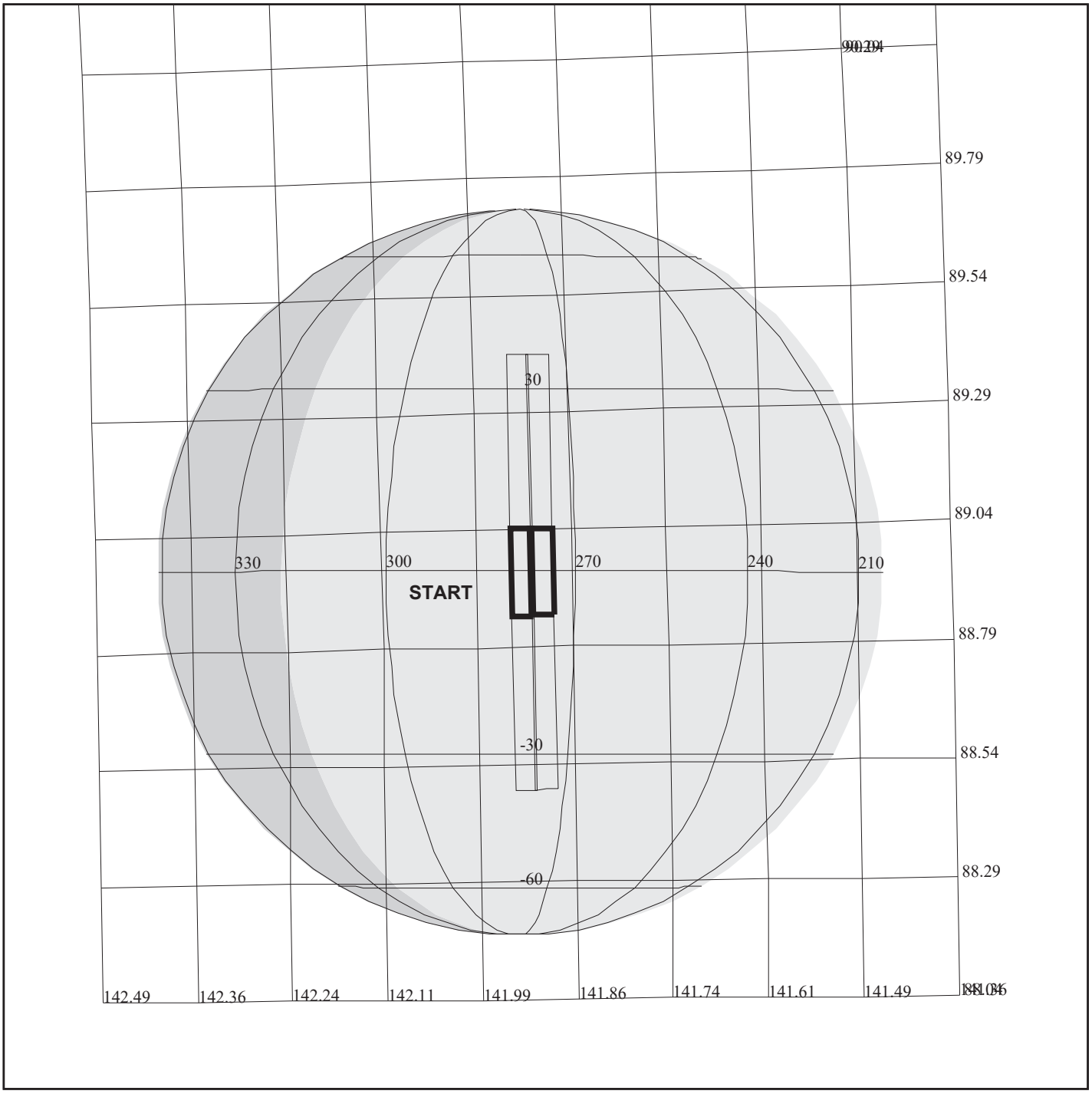
Observation Objective

Reload NIMS RAM flight software from CDS.
LOAD_B

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

Galileo Activity Plan Form 09/12/96 16:57:43 rev 6/95



165EZ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/5193 TC= 3
A= 728 pD= 0 SR=17.450 RA50=241.09 DEC50=-22.69 cone=141.93 clock= 88.95

C3ENEURORT01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3ENEURORT01

TARGET BODY : EUROPA

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:EEE 96-311/18:50:15.600 -CDS 531:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:C3ENEURORT01 **DESCRIP:Europa Real Time Monitoring**

Europa Real Time Observation

ACTIVITY ID: C3ENEURORT01-
START TIME: 96-311/09:42:14.333

Activity ID: Orbit C3 Target E Inst N OAPEL EURORT SeqNo 01 -

Title	Europa Real Time Observation	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date	11/06/96	Week 45
Start	EEE-CDS	00000534:00:0	96-311/09:42:14.333		EEE-000/08:59:56.000
End	EEE-CDS	00000528:00:0	96-311/09:48:18.333		EEE-000/08:53:52.000
Duration		00000006:00:0	000/00:06:04.000		000/00:06:04.000

Top Label	C3ENEURORT01				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Realtime observation of Europa.
This observation is required to improve wavelength selection for Europa C3 observations that have low albedo. NIMS mode LM, mirror block, 408 wavelengths.

Data Returned

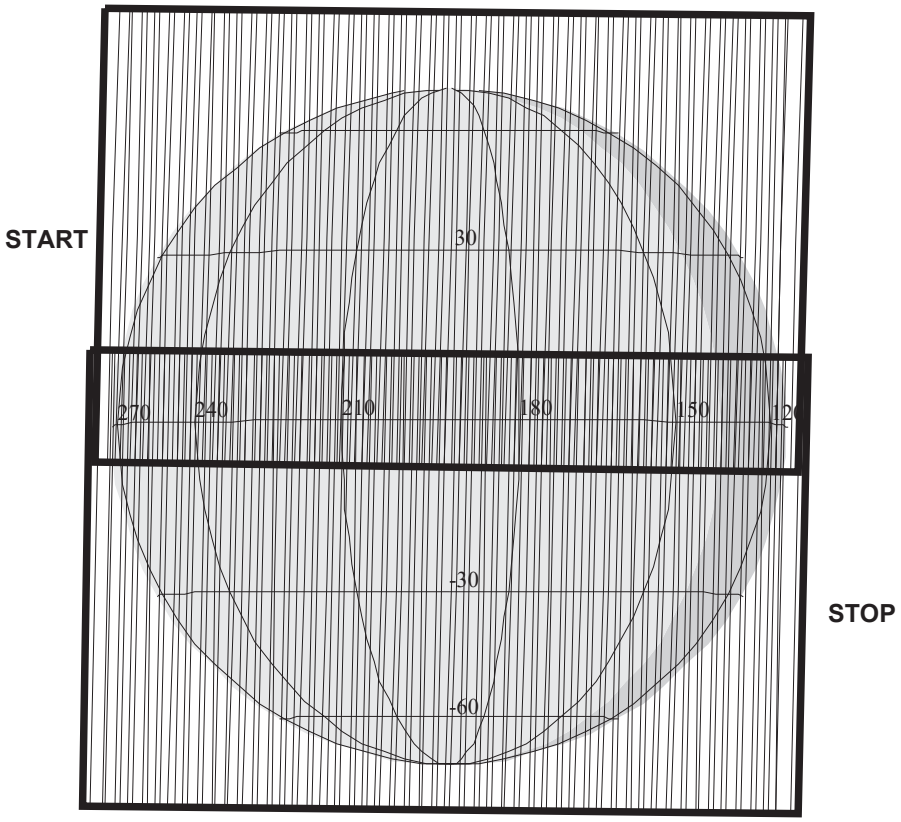
Design Detail

Target to center of Disk.

Mirror Blocked (1B,1B) (11011,11011)
2 Rims.

Long Map (LM), Gain 2, Grating Start 0, RT , RT408

Galileo Activity Plan Form 09/12/96 16:57:41 rev 6/95



165DW:TT= 0 TMC= 1 C= -7.70 XC= -4.00 BS= 0/6669 TC= 3
A= 728 pD= 0 SR=17.450 RA50=331.73 DEC50=-10.39 cone=131.44 clock=265.98
117DW:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6669
1:#s= 2 Cs= 13.00 XCs= 0.00 Cr= -15.10 XCr= 7.80 sD= 1324 rD= 24

C3INHRSPEC01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INHRSPEC01

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 -CDS 12:00:0

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

OBSERVATION:C3INHRSPEC01

DESCRIP:HIGH SPATIAL AND SPECTRAL OBS.

HIGH SPATIAL & SPECTRAL OBS. OF IO ACTIVITY ID: C3INHRSPEC01-
START TIME: 96-311/11:48:37.667

Activity ID: Orbit C3 Target I Inst N OAPEL HRSPEC SeqNo 01 -

Title	HIGH SPATIAL & SPECTRAL OBS. OF IO	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/06/96 Week 45
Start	IEE-CDS	00000016:00:0	96-311/11:48:37.667		IEE-000/00:16:10.666
End	IEE+CDS	00000004:45:0	96-311/12:09:20.999		IEE+000/00:04:32.666
Duration		00000020:45:0	000/00:20:43.332		000/00:20:43.332

Top Label	C3INHRSPEC01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	167	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	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

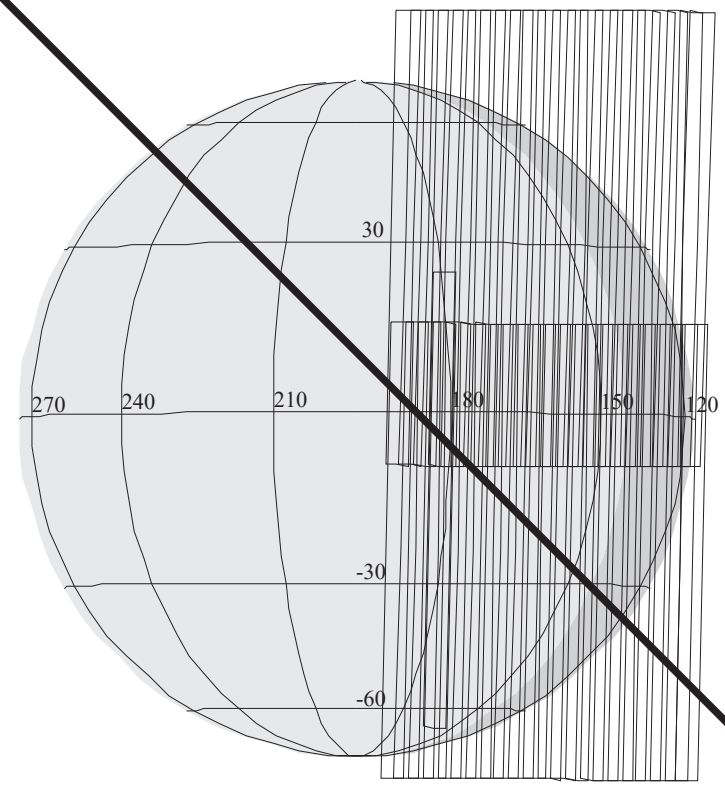
Design Detail

Global mosaic in Long Map (408 wavelengths).

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILM408

Galileo Activity Plan Form 09/12/96 16:57:41 rev 6/95

NO DATA RETURNED



165DX:TT= 0 TMC= 1 C= 0.75 XC= -4.00 BS= 0/3039 TC= 3
A= 728 pD= 0 SR=17.450 RA50=331.90 DEC50=-10.39 cone=131.29 clock=266.08
117DX:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3039
1:#s= 2 Cs= 5.50 XCs= 0.00 Cr= -6.60 XCr= 7.00 sD= 566 rD= 32

C3INTHRMAL01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INTHRMAL01

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 +CDS 23:00:0

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

OBSERVATION:C3INTHRMAL01

DESCRIP:MONITORING OF IO'S NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE

ACTIVITY ID: C3INTHRMAL01-
START TIME: 96-311/12:24:00.999

Activity ID: Orbit C3 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	C3A	Calendar Date	11/06/96 Week 45
Start	IEE+CDS	00000019:00:0	96-311/12:24:00.999		IEE+000/00:19:12.666
End	IEE+CDS	00000027:65:0	96-311/12:32:49.666		IEE+000/00:28:01.333
Duration		00000008:65:0	000/00:08:48.667		000/00:08:48.667

Top Label C3INTHRMAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. 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.

No Data Returned

Design Detail

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.

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.

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILMDK102

Galileo Activity Plan Form 09/12/96 16:57:41 rev 6/95

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C3 Health 5

ACTIVITY ID: C3NNHEALTH05-
START TIME: 96-311/13:24:40.999

Activity ID: Orbit C3 Target N Inst N OAPEL HEALTH SeqNo 05 -

Title	C3 Health 5			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	11/06/96	Week 45
Start	IEE+CDS	00000079:00:0	96-311/13:24:40.999	IEE+000/01:19:52.666	
End	IEE+CDS	00000082:00:0	96-311/13:27:42.999	IEE+000/01:22:54.666	
Duration		00000003:00:0	000/00:03:02.000	000/00:03:02.000	

Top Label	C3NNHEALTH05				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Realtime Instrument Health observation.
Required to verify instrument operation.
These observations provide a 3 detector view of the instrument.
The detectors are selected such that a bright and a dark channel
will exist for either a satellite or Jupiter for a target.
The observations are spaced approximately 24 hours apart.

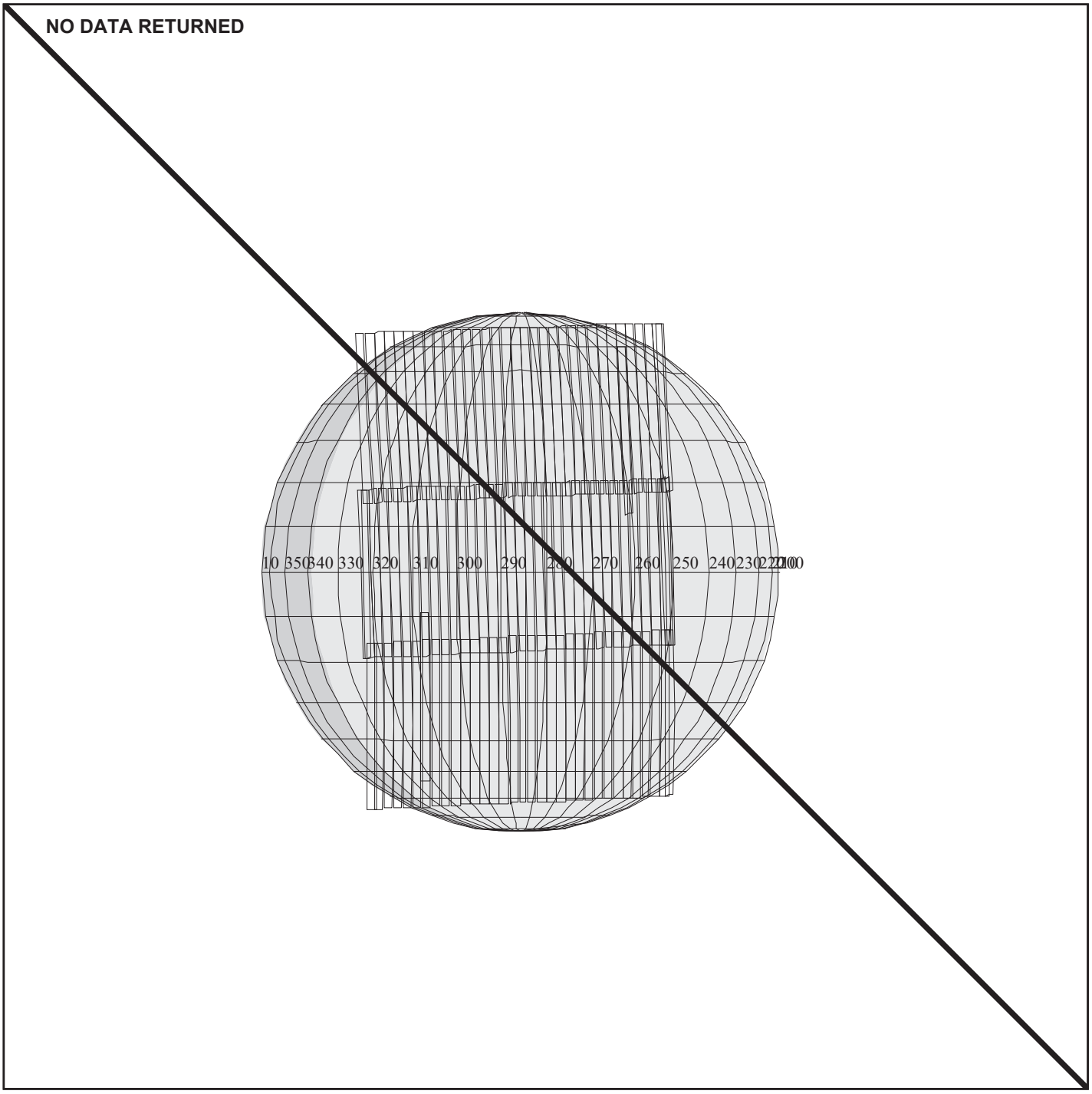
Data Returned

Design Detail

Acquire 1 grating cycle at the end of previous mosaic.

Long Map (LM), Gain 2, Grating Start 0, RT , RT003

Galileo Activity Plan Form 09/12/96 16:57:42 rev 6/95



165DY:TT= 0 TMC= 1 C= 9.00 XC= 9.50 BS= 0/3969 TC= 3
A= 728 pD= 0 SR=17.450 RA50=254.59 DEC50=-24.02 cone=154.36 clock= 90.59
117DY:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/3969
1:#s= 3 Cs= -14.50 XCs= 0.00 Cr= 18.40 XCr= -9.00 sD= 456 rD= 38

C3ENPHINEA01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3ENPHINEA01

TARGET BODY : EUROPA

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 96-311/18:50:15.600 -CDS 263:00:0

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

OBSERVATION:C3ENPHINEA01

DESCRIP:EUROPA GLOBAL MOSIAC ONE

EUROPA GLOBAL MOSAIC ONE

ACTIVITY ID: C3ENPHINEA01-
START TIME: 96-311/14:12:12.333

Activity ID: Orbit C3 Target E Inst N OAPEL PHINEA SeqNo 01 -

Title	EUROPA GLOBAL MOSAIC ONE			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/06/96 Week 45
Start	EEE-CDS 00000267:00:0	96-311/14:12:12.333		EEE-000/04:29:58.000	
End	EEE-CDS 00000261:08:0	96-311/14:18:11.000		EEE-000/04:23:59.333	
Duration	00000005:83:0	000/00:05:58.667		000/00:05:58.667	

Top Label	C3ENPHINEA01-				
Bottom Label	GLOBAL ONE				
Plot Key	NIMS	Type	SCI		
CDS Bytes	194	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

Part of the Global Mosaic of Europa set of observations.
This observation covers longitudes 300-335 DEG at 53 Km/nimsel resolution.

25% cuts:
Orginal objective of the observation was changed to meet BTG allocations.
Reduced scans from 4 to 3 (less latitudinal coverage).
Instrument mode from SM to XM, telemetry rate MPW to LPU and
duration of the observation from 13 RIMS to 5 RIMS.

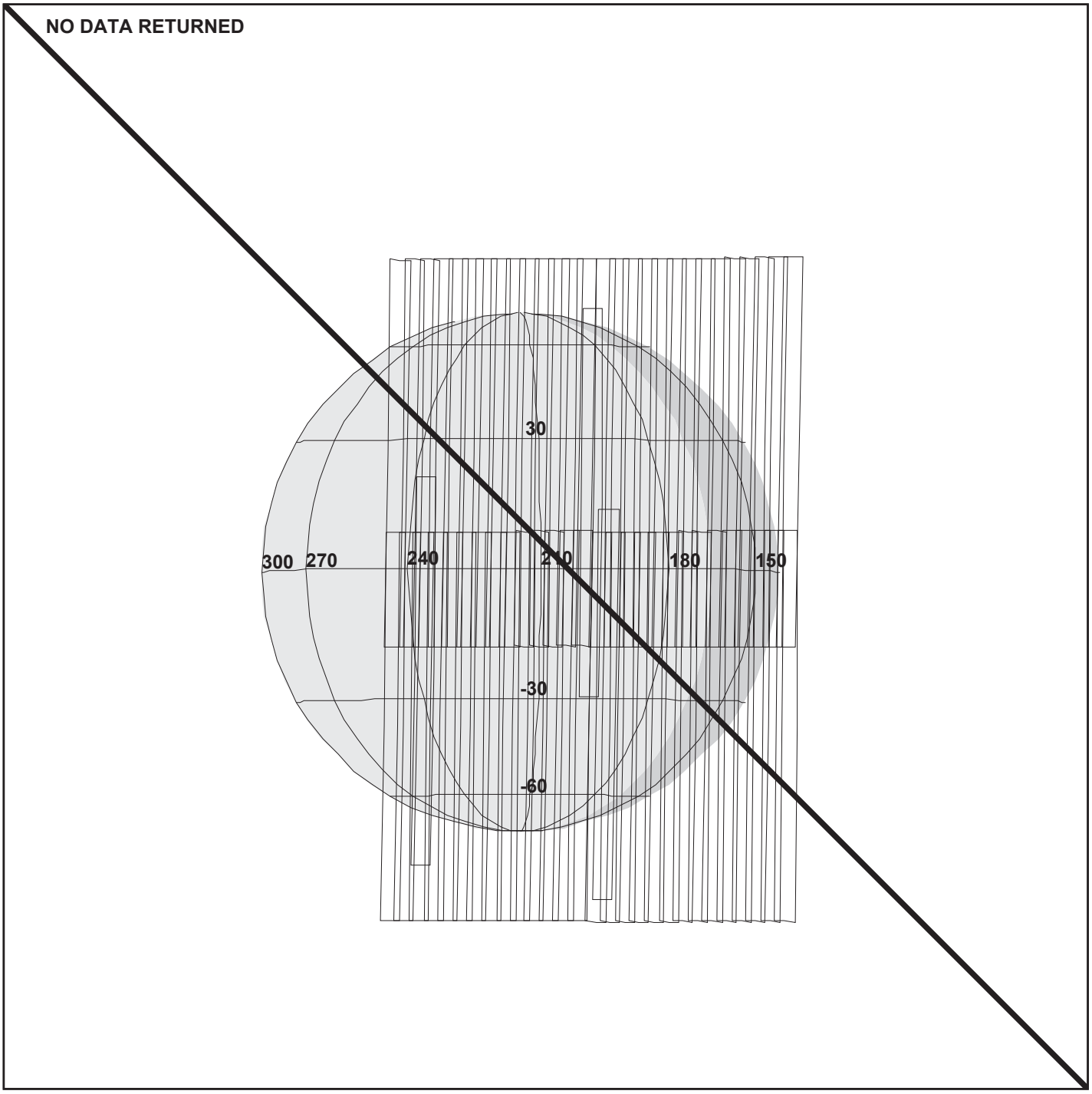
Processor Halted, No Data Returned

Design Detail

DISTANCE: 100,000 KM	MODE: SM	TRACKS: 0.0284
PHASE: 38 DEG	SLEW RATE: 110 MR/S	TLM: LPU
CONE: 151 DEG	% OVERLAP: 30	LONG COV: 320 - 290 DEG
WAVELENGTHS: 102	NUM. OF STRIPS: 3	LAT COV:N/S 90 DEG
BOOMS: NOT IN F.O.V.	NIMS F.O.V./STRIP: 22	COVERAGE: 20%
ASD: 0.88 DEG	DMS MODE: 7.68	SUB S/C LONG: 284 DEG
RESOLUTION: 50 KM/PIX	AREA COV. IN PIX: 765	SUB S/C LAT:-0.35 DEG
GAIN : 2	INCID ANG :40-119 DEG	EMM ANG:11-90 DEG

Short Map (SM), Gain 2, Grating Start 1, LPU, ESM68, ESM51

Galileo Activity Plan Form 09/12/96 16:57:42 rev 6/95



165DZ:TT= 0 TMC= 1 C= -3.40 XC= -3.00 BS= 0/3433 TC= 3
A= 728 pD= 0 SR=17.450 RA50=337.23 DEC50= -8.59 cone=125.76 clock=266.76
117DZ:#SB= 2 OR= 0.030 RR=12.000 BM=F RC= 2 BS= 0/3433
1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.10 XCr= -7.00 sD= 358 rD= 32
2:#s= 1 Cs= 3.50 XCs= 0.00 Cr= -5.16 XCr= 7.15 sD= 358 rD= 32

C3INTHRMAL02

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INTHRMAL02

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 +CDS 190:00:0

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

OBSERVATION:C3INTHRMAL02

DESCRIP:MONITORING OF IO'S NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE

ACTIVITY ID: C3INTHRMAL02-
START TIME: 96-311/15:12:52.333

Activity ID: Orbit C3 Target I Inst N OAPEL THRMAL SeqNo 02 -

Title	MONITORING OF IO'S NIGHTSIDE	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/06/96 Week 45
Start	IEE+CDS	00000186:00:0	96-311/15:12:52.333		IEE+000/03:08:04.000
End	IEE+CDS	00000204:00:0	96-311/15:31:04.333		IEE+000/03:26:16.000
Duration		00000018:00:0	000/00:18:12.000		000/00:18:12.000

Top Label	C3INTHRMAL02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. 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.

Processor Halted, No Data Returned

Design Detail

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.

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.

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILMDK10

Galileo Activity Plan Form 09/12/96 16:57:42 rev 6/95

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NIMS Software Load

ACTIVITY ID: C3NIMSP2LD03-
START TIME: 96-311/15:52:18.333

Activity ID: Orbit C3 Target N Inst I OAPEL MSP2LD SeqNo 03 -

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

Time System	CDS	Load ID	Calendar Date	11/06/96	Week 45
Start	IEE+CDS	00000225:00:0	96-311/15:52:18.333	IEE+000/03:47:30.000	
End	IEE+CDS	00000240:00:0	96-311/16:07:28.333	IEE+000/04:02:40.000	
Duration		00000015:00:0	000/00:15:10.000	000/00:15:10.000	

Top Label C3NIMSP2LD03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

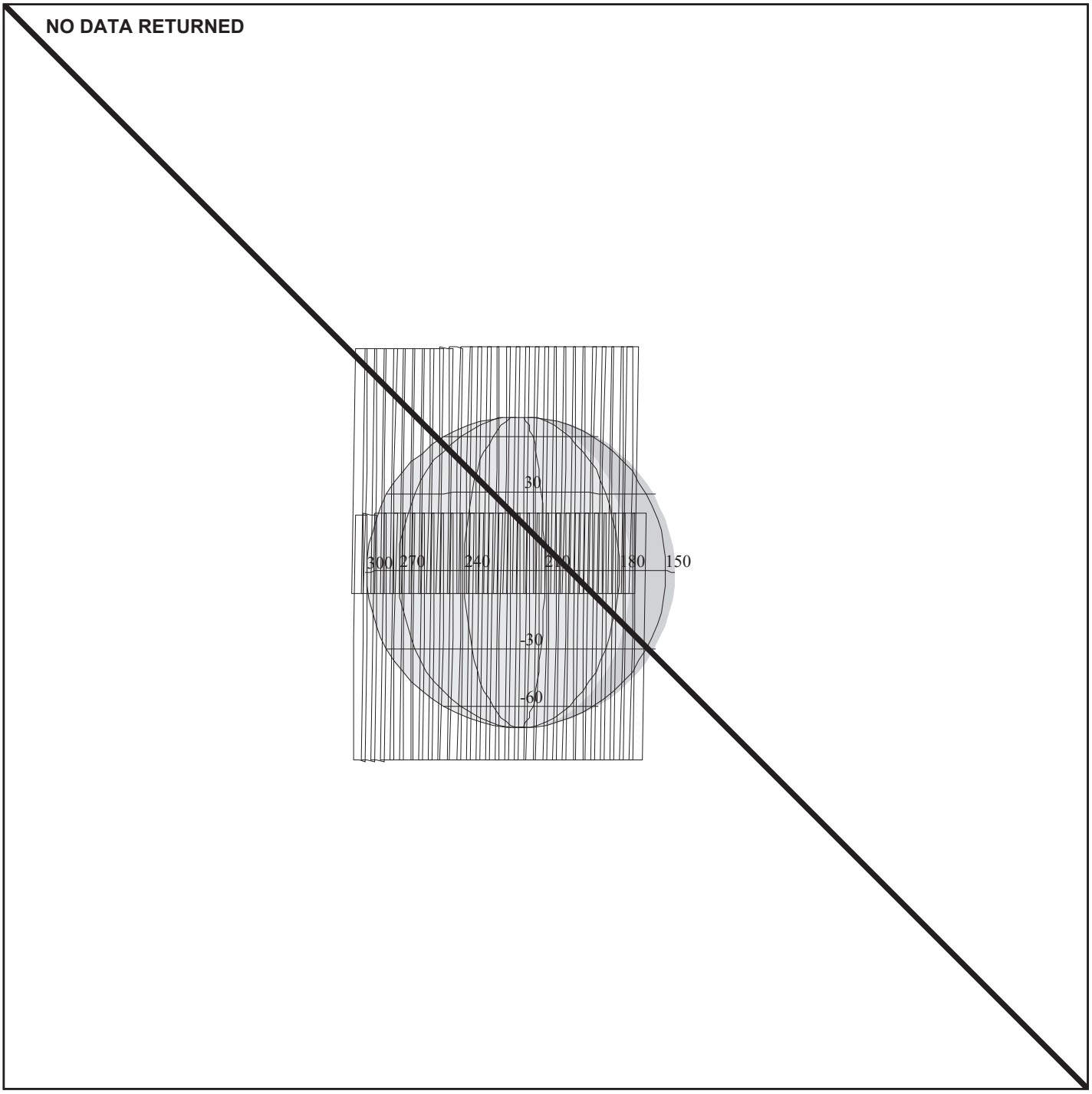
Observation Objective

Reload NIMS RAM flight software from CDS.
LOAD_C

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

Galileo Activity Plan Form 09/12/96 16:57:43 rev 6/95



165EA:TT= 0 TMC= 1 C= -6.80 XC= -4.00 BS= 0/1987 TC= 3
A= 728 pD= 0 SR=17.450 RA50=339.48 DEC50= -7.66 cone=123.35 clock=266.88
117EA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1987
1:#s= 2 Cs= 7.50 XCs= 0.00 Cr= -11.00 XCr= 7.00 sD= 768 rD= 28

C3INCHEMIS04

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INCHEMIS04

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 +CDS 237:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

OBSERVATION:C3INCHEMIS04

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: C3INCHEMIS04-
START TIME: 96-311/16:00:23.666

Activity ID: Orbit C3 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	C3A	Calendar Date	11/06/96 Week 45

Start	IEE+CDS 00000233:00:0	96-311/16:00:23.666	IEE+000/03:55:35.333
End	IEE+CDS 00000250:11:0	96-311/16:17:42.333	IEE+000/04:12:54.000
Duration	00000017:11:0	000/00:17:18.667	000/00:17:18.667

Top Label C3INCHEMIS04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

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).

No Data Returned

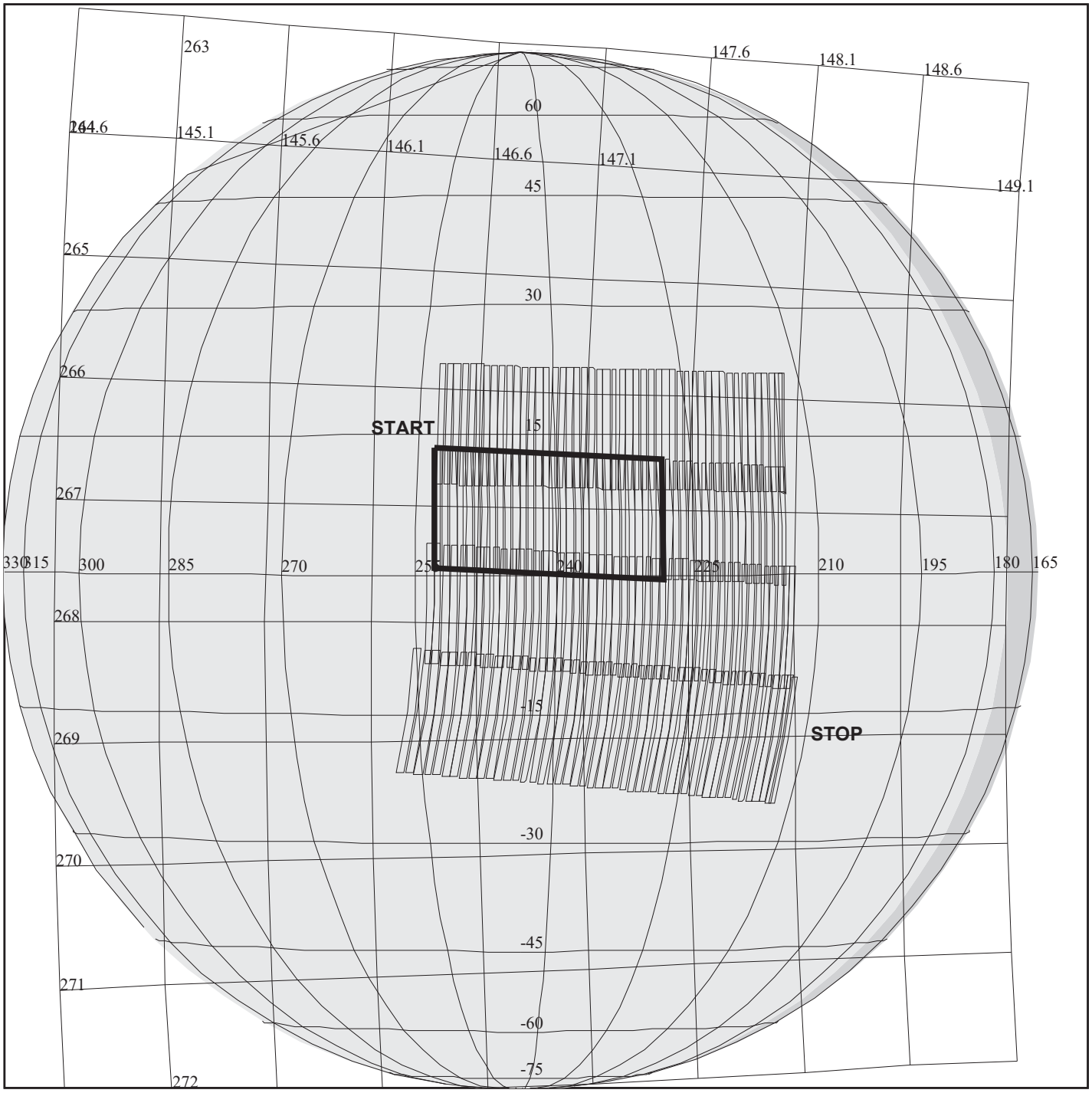
Design Detail

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.

Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILM102

Galileo Activity Plan Form 09/12/96 16:57:43 rev 6/95



165EB:TT= 0 TMC= 1 C= -7.00 XC= -12.00 BS= 0/8377 TC= 3
A= 728 pD= 9898 SR=17.450 RA50=317.65 DEC50=-16.33 cone=146.37 clock=266.30
117EB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8377
1:#s= 4 Cs= 24.20 XCs= 0.00 Cr= -30.00 XCr= 7.00 sD= 2458 rD= 22

C3ENLINEA_01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3ENLINEA_01

TARGET BODY : EUROPA

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 96-311/18:50:15.600 -CDS 19:00:0 **BODY PLOT TIME:TARGET-TIME D= 9898 S= 1.000**

OBSERVATION:C3ENLINEA_01 **DESCRIP:C3 Europa Global Coverage**

EUROPA LINEA REGION

ACTIVITY ID: C3ENLINEA 01-
START TIME: 96-311/18:21:57.000

Activity ID: Orbit C3 Target E Inst N OAPEL LINEA SeqNo 01 -

Title	EUROPA LINEA REGION			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/06/96 Week 45

Start	EEE-CDS 00000020:00:0	96-311/18:21:57.000	EEE-000/00:20:13.333
End	EEE+CDS 00000018:82:0	96-311/19:01:16.999	EEE+000/00:19:06.666
Duration	00000038:82:0	000/00:39:19.999	000/00:39:19.999

Top Label	C3ENLINEA01-				
Bottom Label	LINEA / GLOBAL				
Plot Key	NIMS	Type	SCI		
CDS Bytes	208	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

Study of region intensely laden with LINEAS at high resolution (16km/nimsel),including low resolution coverage area by Voyager.

25% cuts:
This observation was reduced in latitudinal coverage (from 11 scans to 3 scans), telemetry rate (from MPW to LPU) and observation duration (from 53 RIMS to 38 RIMS).

Data Returned

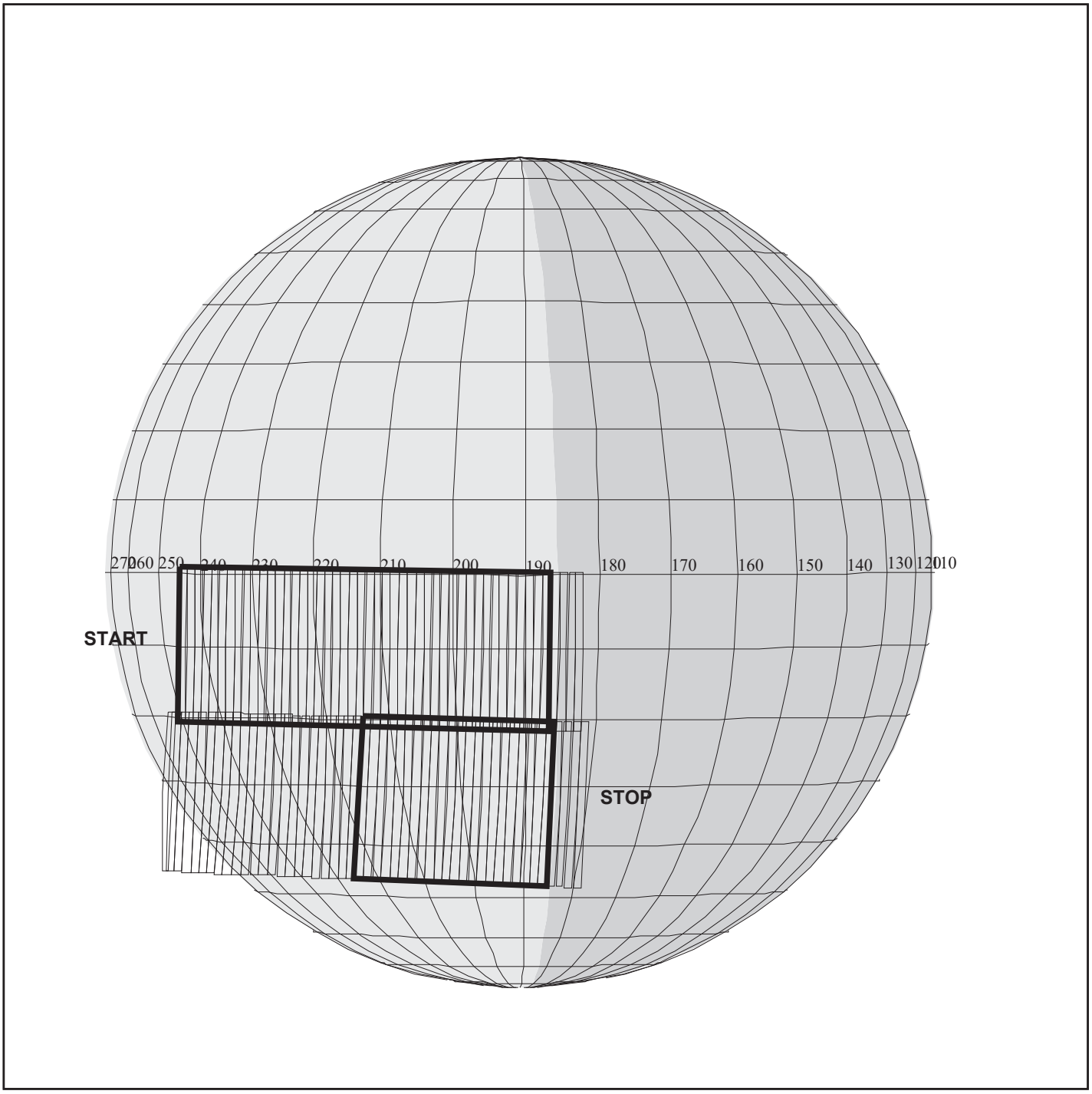
Design Detail

DISTANCE: 32,000 KM	MODE: LONG MAP	TRACKS:
PHASE: 33.69 DEG	SLEW RATE: 60 MR/S	LONG RG: 200-250 DEG
CONE: 136.82 DEG	% OVERLAP: 10	LAT SPAN: N/S 15 DEG
WAVELENGTHS: 204	NUM STRIPS: 3	COVERAGE: 10 %
RESOLUTION: 16 KM/PIX	NIMS F.O.V.: 244	SUB S/C LONG:231 DEG
BOOMS: NOT IN F.O.V.	DMS MODE: 7.68	SUB S/C LAT:-0.02DEG
ASD: 2.694 DEG	AREA COV IN PIX:	TLM: LPU
GAIN: 2	INCID ANG:21 - 63 deg	EMM ANG: 17 - 24 DEG

Only about 2/3 of the Second Swath Returned.

Long Map (LM), Gain 2, Grating Start 0, LPU, ELM245, ELM204

Galileo Activity Plan Form 09/12/96 16:57:43 rev 6/95



165EC:TT= 0 TMC= 2 C= -22.00 XC= 5.00 BS= 0/3493 TC= 3
A= 182 pD= 2548 SR=17.450 RA50= 16.99 DEC50= 8.23 cone= 82.76 clock=268.66
117EC:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/3493
1:#s= 2 Cs= 25.00 XCs= 0.00 Cr= -25.00 XCr= 9.00 sD= 1258 rD= 32

C3ENELIMB_01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3ENELIMB_01

TARGET BODY : EUROPA

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 96-311/18:50:15.600 +CDS 119:00:0 **BODY PLOT TIME:TARGET-TIME D= 2548 S= 0.800**

OBSERVATION:C3ENELIMB_01 **DESCRIP:EUROPA OCCULTATION**

EUROPA OCCULTATION

ACTIVITY ID: C3ENELIMB 01-
START TIME: 96-311/20:41:24.333

Activity ID: Orbit C3 Target E Inst N OAPEL ELIMB SeqNo 01 -

Title	EUROPA OCCULTATION			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/06/96 Week 45
Start	EEE+CDS 00000117:84:0	96-311/20:41:24.333			EEE+000/01:59:14.000
End	EEE+CDS 00000123:87:0	96-311/20:47:30.333			EEE+000/02:05:20.000
Duration	00000006:03:0	000/00:06:06.000			000/00:06:06.000

Top Label	C3ENELIMB01-				
Bottom Label	NIMS				
Plot Key	NIMS	Type	SCI		
CDS Bytes	145	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

This observation will be used as a search for outgasing and/or hotspots. Europa is occulting Jupiter with leading edge.

This observation has been coordinated with SSI to cover the same region.

25% reduction:
Duration and coverage was reduced to comply with bits to ground (BTG) constraints. These changes produced a change in the observation objective, so this observation is no longer a limb scan but a compositional mapping of the Linea region. Telemetry rate was reduced from MPW to LPU, and observation duration from 19 RIMS to 6 RIMS.

Data Returned

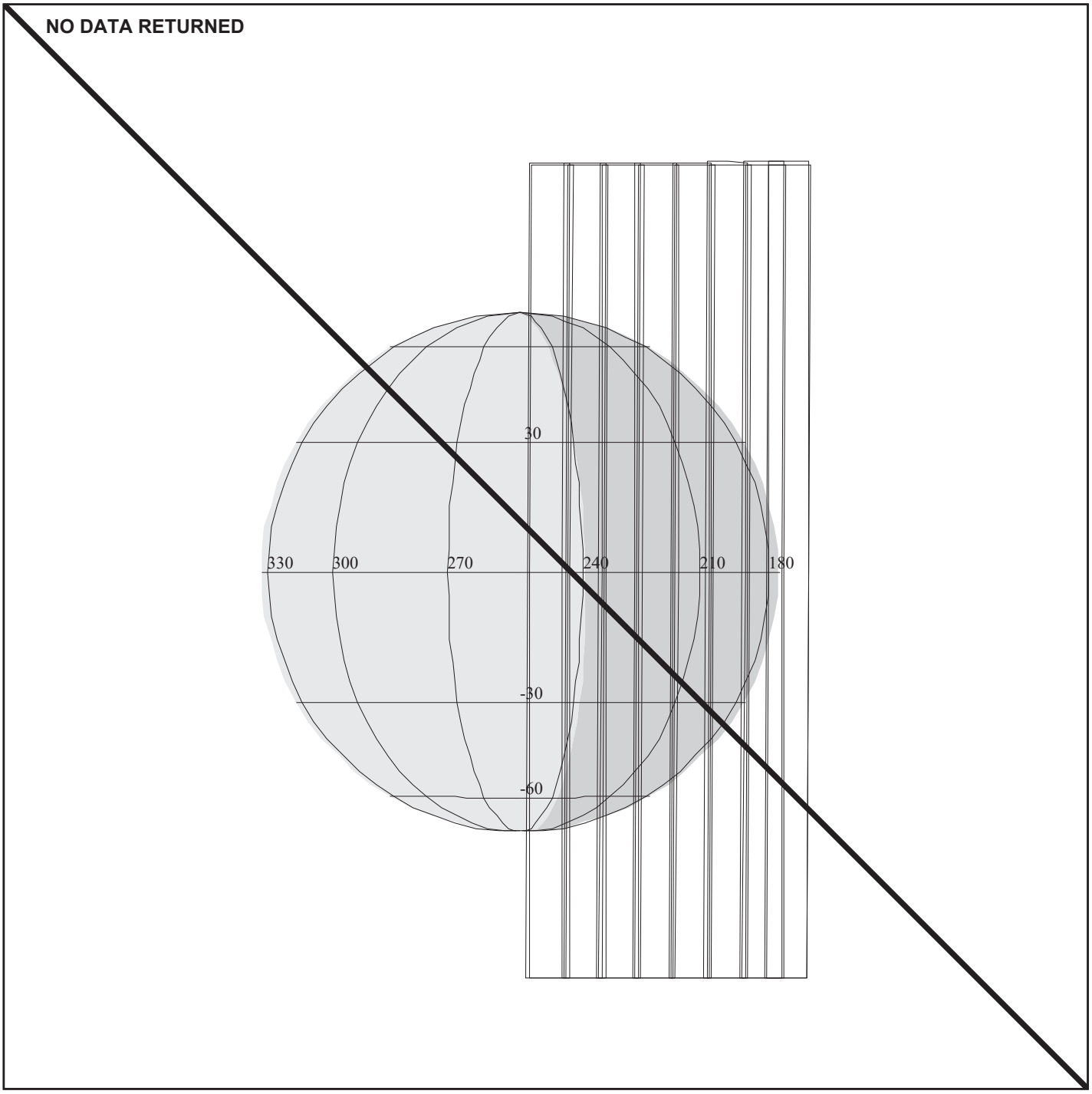
Design Detail

DISTANCE: 55,500 KM	MODE: FULL MAP	TRACKS:
PHASE: 86.87 DEG	SLEW RATE: 60 MR/S	LONG SPAN:190 - 200 DEG
CONE 82 DEG	% OVERLAP: 10	LAT SPAN: +10 to -19 DEG
WAVELENGTHS: 102	NUM OF STRIPS: 2	COVERAGE: 8 %
RESOLUTION: 28 KM/PIX	NIMS F.O.V/STRIP: 17	SUB S/C LONG:186 DEG
DMS MODE: 7.68	SUB S/C LAT: 0.27 DEG	ASD: 1.6 DEG
AREA COV IN PIX: 3106	TLM:LPU	INCID ANG: 40-90 DEG
EMM ANG: 13-90 DEG	GAIN: 3	
BOOMS:ON THE EDGE OF NIMS F.O.V.		

All of First Swath and Half of Second Swath Returned.

Full Map (FM), Gain 3, Grating Start 0, LPU, EFM126, EFM102

Galileo Activity Plan Form 09/12/96 16:57:44 rev 6/95



165EH:TT= 0 TMC= 1 C= 0.15 XC= 0.00 BS= 0/4979 TC= 3
A= 182 pD= 0 SR=17.450 RA50= 7.04 DEC50= 4.18 cone= 93.44 clock=268.15
117EH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4979
1:#s= 2 Cs= 1.80 XCs= 0.00 Cr= -3.25 XCr= 0.00 sD= 194 rD= 16

C3INTHRMAL03

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INTHRMAL03

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 +CDS 693:00:0

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

OBSERVATION:C3INTHRMAL03

DESCRIP:MONITORING OF IO'S NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE

ACTIVITY ID: C3INTHRMAL03-
START TIME: 96-311/23:45:30.333

Activity ID: Orbit C3 Target I Inst N OAPEL THRMAL SeqNo 03 -

Title	MONITORING OF IO'S NIGHTSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES		Team NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/06/96 Week 45
Start	IEE+CDS	00000693:00:0	96-311/23:45:30.333		IEE+000/11:40:42.000
End	IEE+CDS	00000699:00:0	96-311/23:51:34.333		IEE+000/11:46:46.000
Duration		00000006:00:0	000/00:06:04.000		000/00:06:04.000

Top Label	C3INTHRMAL03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	131	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. 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.

No Data Returned

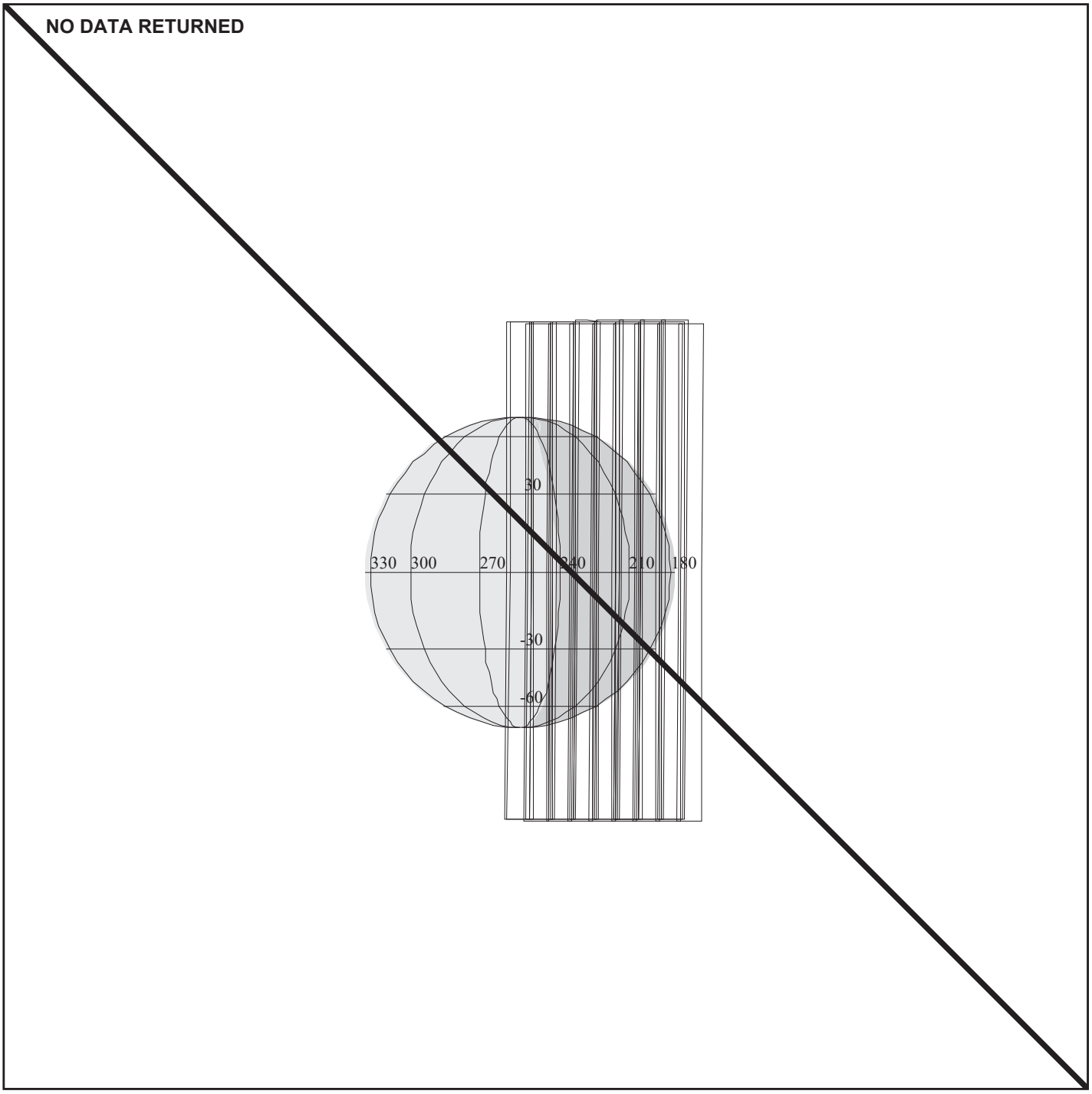
Design Detail

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.

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.

Long Map (LM), Gain 4, Grating Start 0, LPU, ILM245, ILM102

Galileo Activity Plan Form 09/12/96 16:57:45 rev 6/95



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A= 546 pD= 0 SR=17.450 RA50= 7.82 DEC50= 4.54 cone= 92.58 clock=268.17
117El:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7163
1:#s= 3 Cs= 2.00 XCs= 0.00 Cr= -3.70 XCr= 0.00 sD= 204 rD= 16

C3INVOLCAN01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INVOLCAN01

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 +CDS 705:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

OBSERVATION:C3INVOLCAN01

DESCRIP:MONITORING OF SELECTED VOLCANIC

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: C3INVOLCAN01-
START TIME: 96-311/23:57:38.333

Activity ID: Orbit C3 Target I Inst N OAPEL VOLCAN SeqNo 01 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS Working Group SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/06/96 Week 45
Start	IEE+CDS 00000705:00:0	96-311/23:57:38.333		IEE+000/11:52:50.000	
End	IEE+CDS 00000715:00:0	96-312/00:07:44.999		IEE+000/12:02:56.666	
Duration	00000010:00:0	000/00:10:06.666		000/00:10:06.666	

Top Label	C3INVOLCAN01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

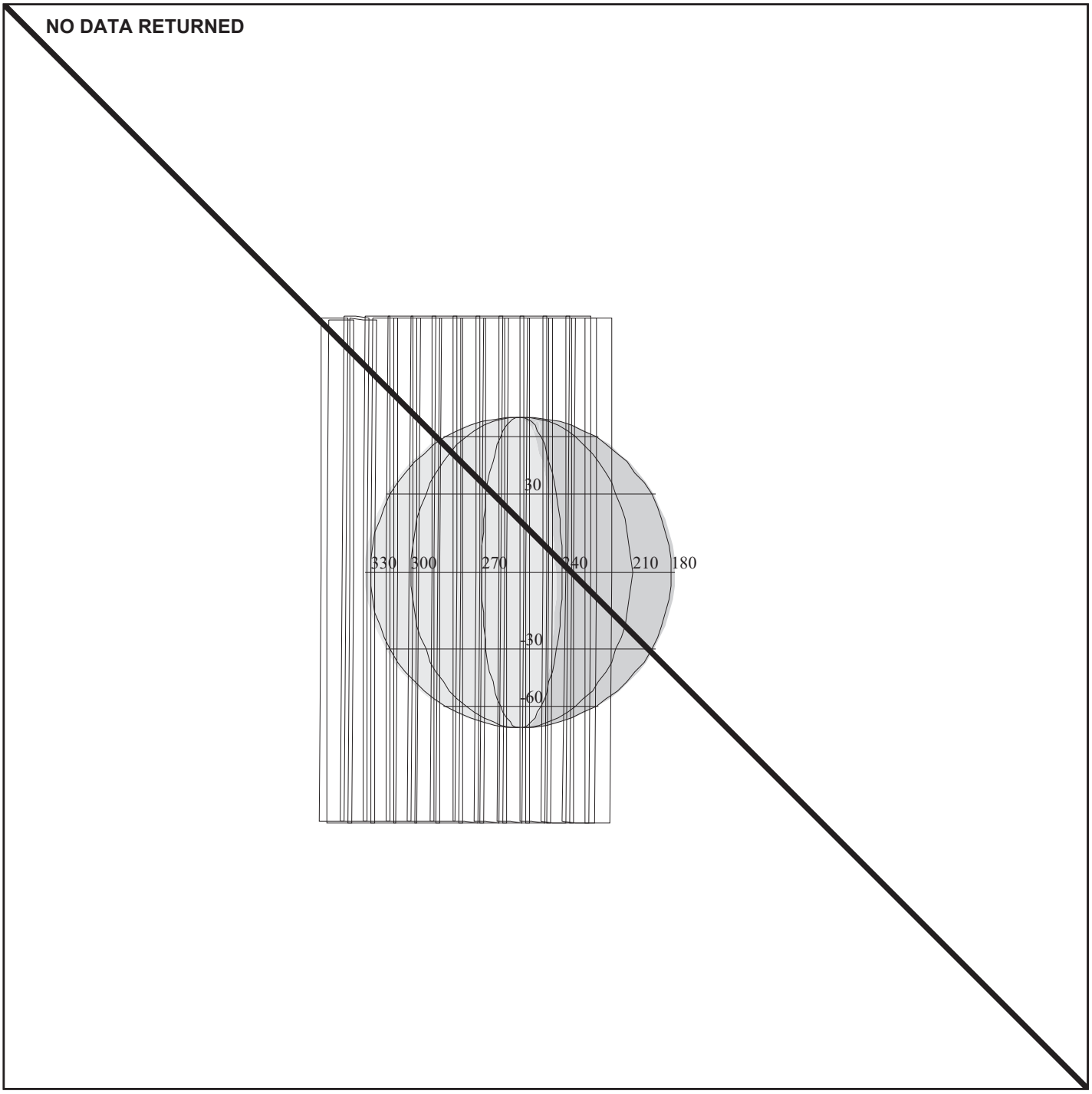
Design Detail

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.

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, ILM245, ILM102

Galileo Activity Plan Form 09/12/96 16:57:45 rev 6/95



165EG:TT= 0 TMC= 1 C= -3.80 XC= 0.00 BS= 0/8983 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 8.68 DEC50= 4.93 cone= 91.63 clock=268.18
117EG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8983
1:#s= 2 Cs= 3.10 XCs= 0.00 Cr= -5.55 XCr= 0.00 sD= 322 rD= 16

C3INCHEMIS05

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INCHEMIS05

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 +CDS 715:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

OBSERVATION:C3INCHEMIS05

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: C3INCHEMIS05-
START TIME: 96-311/23:08:05.666

Activity ID: Orbit C3 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	C3A	Calendar Date	11/06/96 Week 45
Start	IEE+CDS 00000656:00:0	96-311/23:08:05.666		IEE+000/11:03:17.333	
End	IEE+CDS 00000671:00:0	96-311/23:23:15.666		IEE+000/11:18:27.333	
Duration	00000015:00:0	000/00:15:10.000		000/00:15:10.000	

Top Label	C3INCHEMIS05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

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).

No Data Returned

Design Detail

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.

Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, ILM245, ILM102

Galileo Activity Plan Form 09/12/96 16:57:44 rev 6/95

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C3 Health 6

ACTIVITY ID: C3NNHEALTH06-
START TIME: 96-312/01:18:31.666

Activity ID: Orbit C3 Target N Inst N OAPEL HEALTH SeqNo 06 -

Title	C3 Health 6		Instrument NIMS
Requestor	NIMS-SWG/M. SEGURA	Team NIMS	Working Group SWG

Time System	CDS	Load ID C3A	Calendar Date	11/07/96	Week 45
Start	CEE+CDS	00003549:00:0	96-312/01:18:31.666	CEE+002/11:48:26.000	
End	CEE+CDS	00003552:00:0	96-312/01:21:33.666	CEE+002/11:51:28.000	
Duration		00000003:00:0	000/00:03:02.000	000/00:03:02.000	

Top Label	C3NNHEALTH06				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Realtime Instrument Health observation.
Required to verify instrument operation.
These observations provide a 3 detector view of the instrument.
The detectors are selected such that a bright and a dark channel
will exist for either a satellite or Jupiter for a target.
The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

Acquire 1 grating cycle at the end of previous mosaic.

Long Map (LM), Gain 2, Grating Start 0, RT , RT003

Galileo Activity Plan Form 09/12/96 16:57:45 rev 6/95

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NIMS Software Load

ACTIVITY ID: C3NIMSP2LD04-
START TIME: 96-312/02:24:14.999

Activity ID: Orbit C3 Target N Inst I OAPEL MSP2LD SeqNo 04 -

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

Time System	CDS	Load ID	Calendar Date	11/07/96	Week 45
Start	IEE+CDS	00000850:00:0	96-312/02:24:14.999	IEE+000/14:19:26.666	
End	IEE+CDS	00000865:00:0	96-312/02:39:24.999	IEE+000/14:34:36.666	
Duration		00000015:00:0	000/00:15:10.000	000/00:15:10.000	

Top Label	C3NIMSP2LD04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

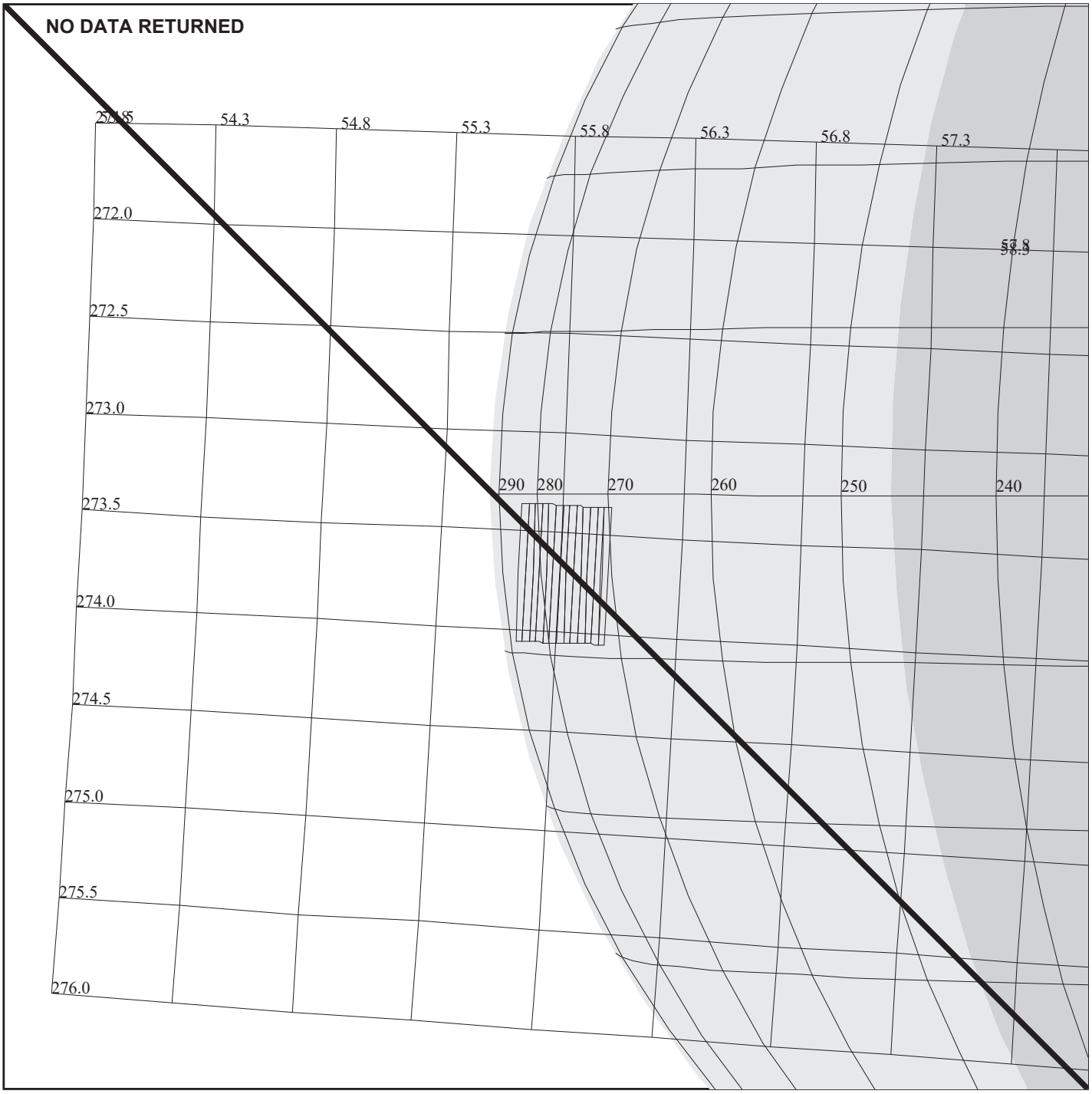
Reload NIMS RAM flight software from CDS.
LOAD_D

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

Long Map (LM), Gain 4, Grating Start 0, LPU, CLM245, CLM204

Galileo Activity Plan Form 09/12/96 16:57:46 rev 6/95



165EJ:TT= 0 TMC= 1 C= -6.00 XC= 0.00 BS= 0/6495 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 59.64 DEC50= 22.20 cone= 55.65 clock=273.70
117EJ:#SB= 2 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/6495
1:#s= 1 Cs= 57.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1744 rD= 2
2:#s= 1 Cs= 12.40 XCs= 0.00 Cr= -62.00 XCr= 0.40 sD= 380 rD= 40

C3JNFEA13601A

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA13601A

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 +CDS 2515:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

OBSERVATION:C3JNFEA13601A

DESCRIP:Jupiter Campaign Feature 136dg 1

Jupiter Campaign Feature 129 phase prt 1 ACTIVITY ID: C3JNFEA13601-
START TIME: 96-312/05:23:13.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA136 SeqNo 01 -

Title	Jupiter Campaign Feature 129 phase prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/07/96 Week 45
Start	JTA+CDS 00002511:00:0	96-312/05:23:13.000		JTA+001/18:18:54.000	
End	JTA+CDS 00002527:00:0	96-312/05:39:23.666		JTA+001/18:35:04.666	
Duration	00000016:00:0	000/00:16:10.666		000/00:16:10.666	

Top Label C3JNFEA13601-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	169	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. The South Equatorial Belt is scanned twice on a rotation during phase angle ~ 129 degrees. Jupiter imaged in 15 colors, using NIMS wavelength playback table JFT15A. The two scans acquired with feature near the bright limb and near minimum airmass assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III). NIMAGING occurs during a science turn.

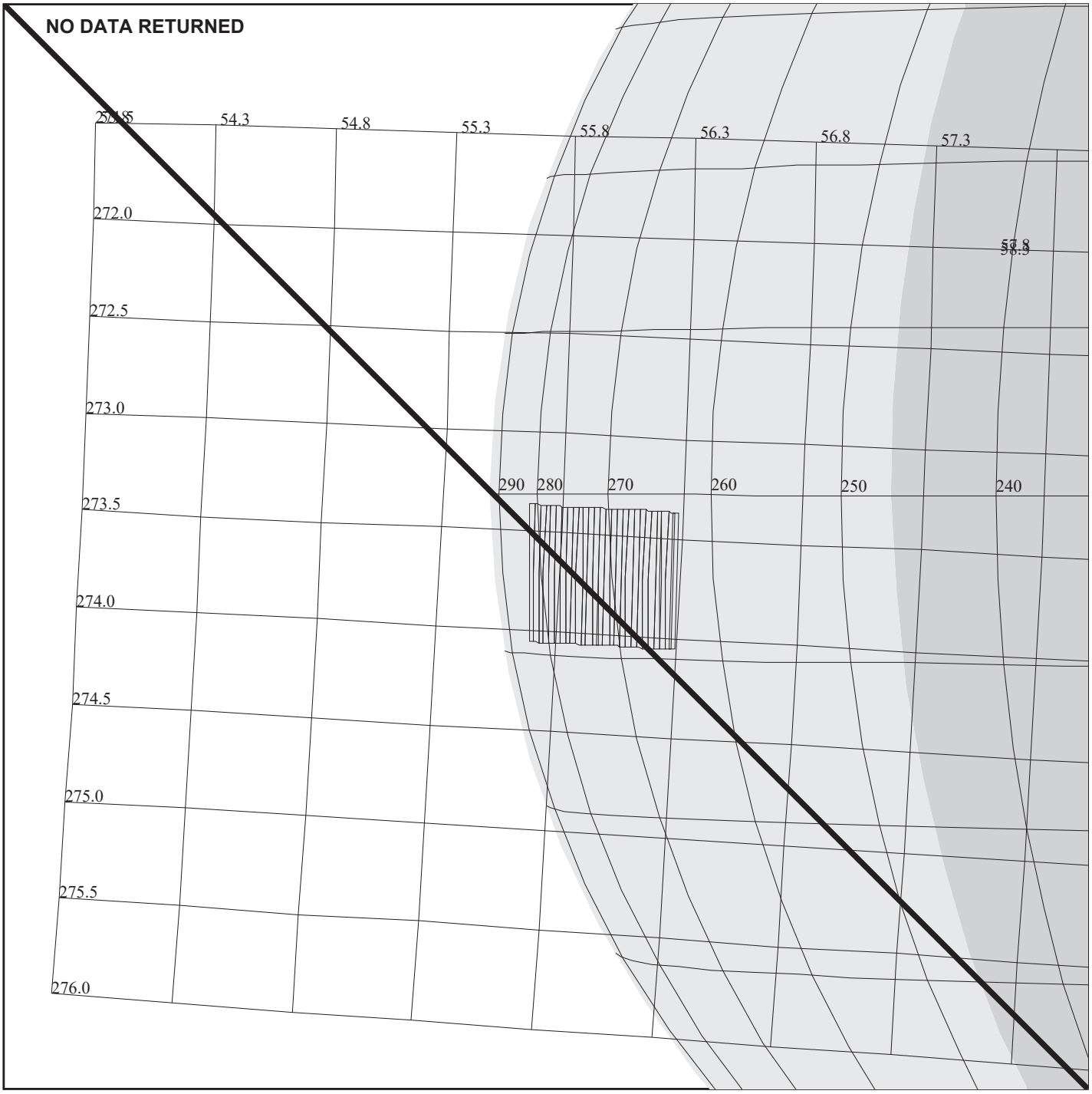
Processor Halted, No Data Returned

Design Detail

Two shortmap, Nyquist-sampled observations of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 0.90 X 10^6 km; NIMS IFOV (NIMSel) = 450 km; 1 X 1 image covers 9000 X 9000 km. About 2 minutes of scanning on each scan, accumulating a total of 0.1744 MBTG in 15 colors and using 0.0080 tracks. The second scan and SCIREC begin at 96-311/07:39, i.e. the original scanning start time of the original OAPEL C3JNFEA13602. Four minutes reserved for targetting.
JTA - JEE epoch offset of -120 RIMS assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:46 rev 6/95



165EJ:TT= 0 TMC= 1 C= -6.00 XC= 0.00 BS= 0/6495 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 59.64 DEC50= 22.20 cone= 55.65 clock=273.70
117EJ:#SB= 2 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/6495
1:#s= 1 Cs= 57.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1744 rD= 2
2:#s= 1 Cs= 12.40 XCs= 0.00 Cr= -62.00 XCr= 0.40 sD= 380 rD= 40

C3JNFEA13601B

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA13601B

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 +CDS 2515:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

OBSERVATION:C3JNFEA13601B

DESCRIP:Jupiter Campaign Feature 136dg 1

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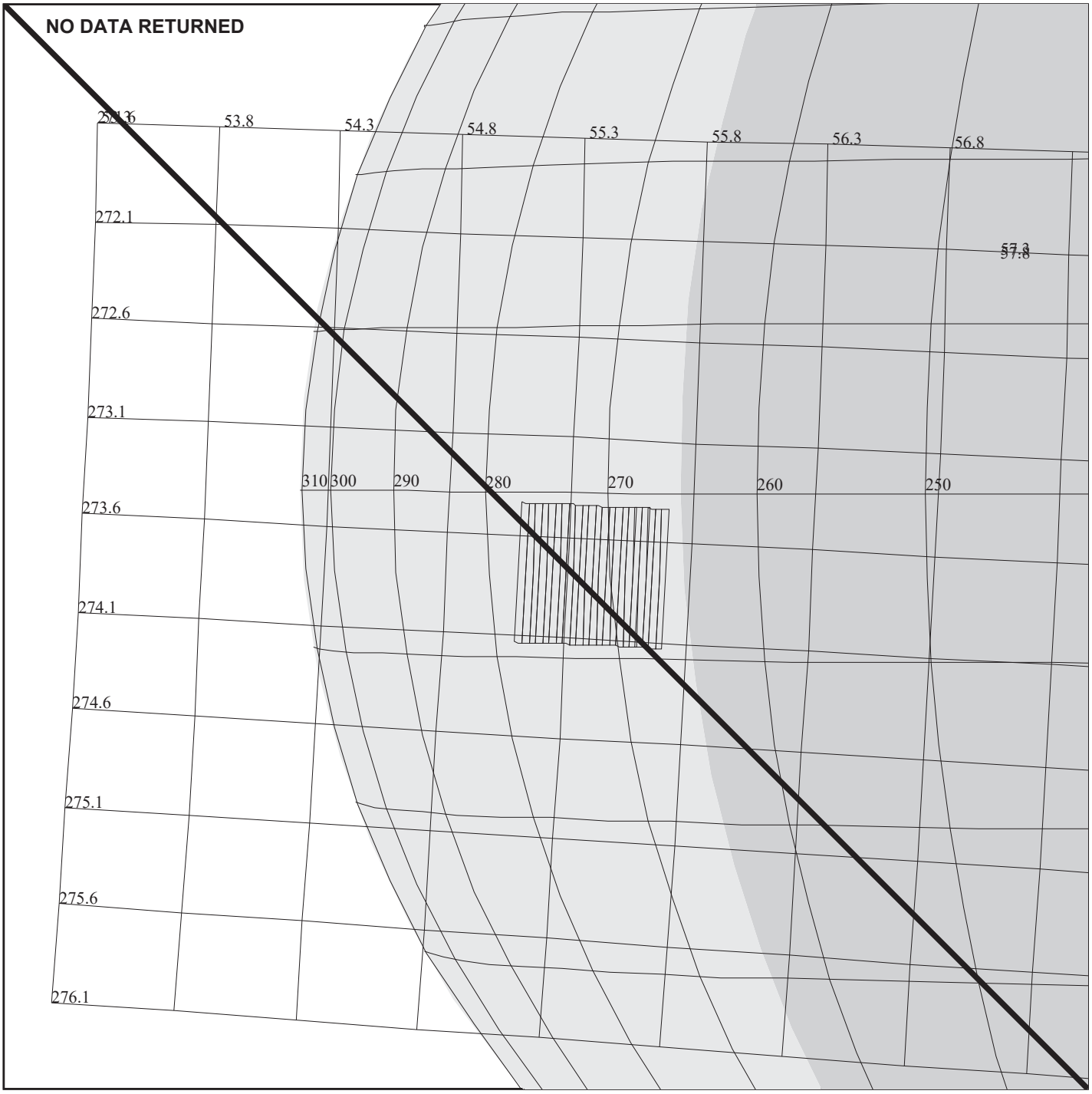


165EK:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/1955 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 60.23 DEC50= 22.29 cone= 55.10 clock=273.75
117EK:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/1955
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 308 rD= 2

C3JNFEA13603

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA13603

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTA 96-310/11:04:19.000 +CDS 2545:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:C3JNFEA13603 **DESCRIP:Jupiter Campaign Feature 136dg 3**

Jupiter Campaign Feature 129 phase prt 3 ACTIVITY ID: C3JNFEA13603-
START TIME: 96-312/05:53:33.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA136 SeqNo 03 -

Title	Jupiter Campaign Feature 129 phase prt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/07/96 Week 45
Start	JTA+CDS	00002541:00:0	96-312/05:53:33.000		JTA+001/18:49:14.000
End	JTA+CDS	00002546:85:0	96-312/05:59:33.000		JTA+001/18:55:14.000
Duration		00000005:85:0	000/00:06:00.000		000/00:06:00.000

Top Label C3JNFEA13603-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	82	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. This is the second OAPEL and third observation obtained on a rotation during phase angle ~ 129 degrees. Jupiter imaged in 15 colors, using NIMS wavelength playback table JFT15A. This observation acquired with feature near terminator, assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III). NIMAGING occurs during a science turn.

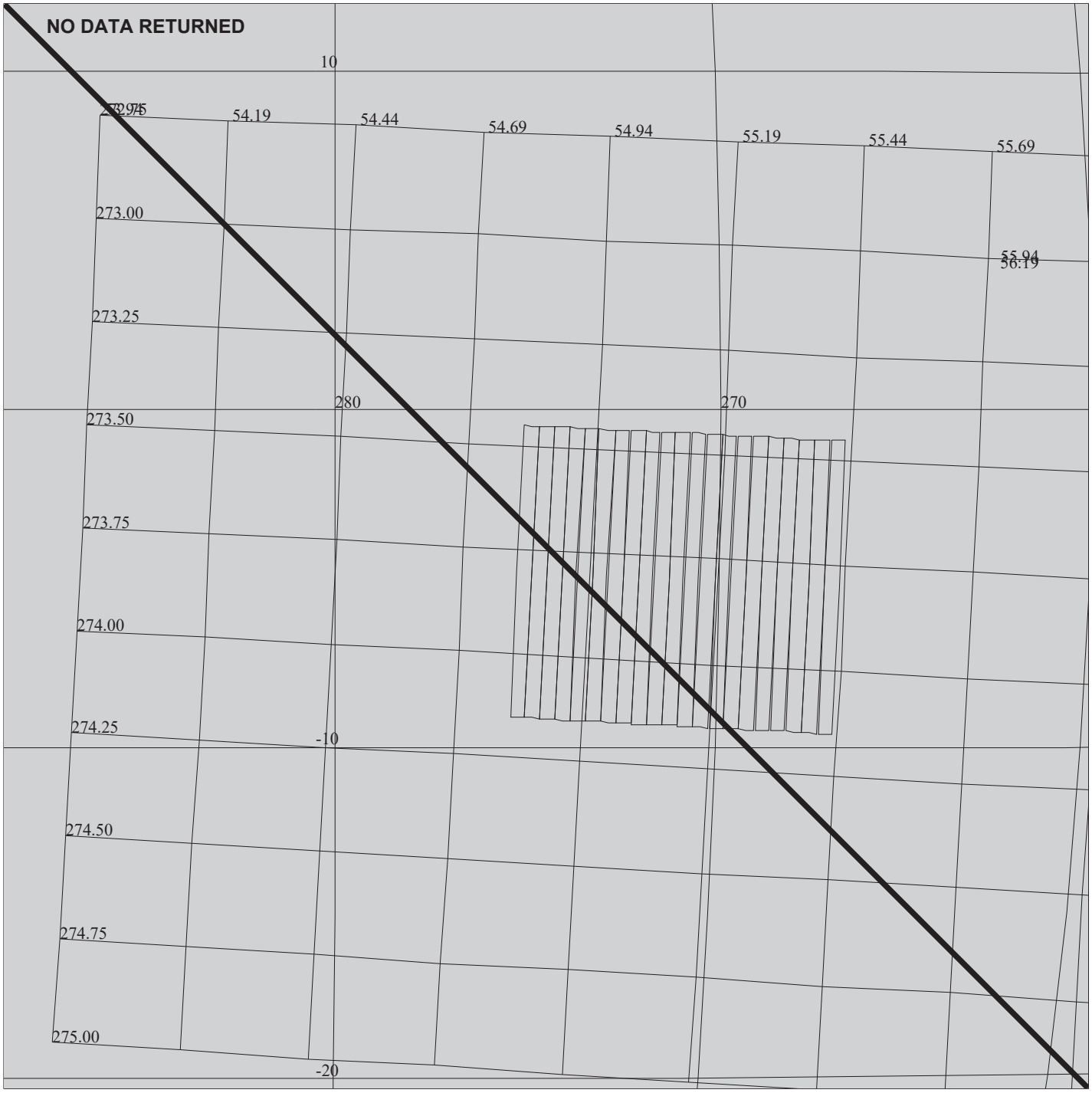
Processor Halted, No Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 0.91 X 10^6 km; NIMS IFOV (NIMSel) = 455 km; 1 X 1 image covers 9100 X 9100 km. About 2 minutes of scanning accumulating 0.0872 MBTG in 15 colors and using 0.0040 tracks. Four minutes reserved for targetting.
JTA - JEE epoch offset of -120 RIMS assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:46 rev 6/95



165EL:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/8699 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 60.55 DEC50= 22.32 cone= 54.80 clock=273.81
117EL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8699
1:#s= 2 Cs= 10.60 XCs= 0.00 Cr= -10.80 XCr= 0.00 sD= 1070 rD= 20

C3JNFEA53M01A

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA53M01A

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTA 96-310/11:04:19.000 +CDS 2637:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 4.000**

OBSERVATION:C3JNFEA53M01A **DESCRIP:Jupiter Campaign Feat 5u 3u map**

Jupiter Campaign Ftr. 5 and 3 micron map ACTIVITY ID: C3JNFEA53M01-
START TIME: 96-312/07:26:34.333

Activity ID: Orbit C3 Target J Inst N OAPEL FEA53M SeqNo 01 -

Title	Jupiter Campaign Ftr. 5 and 3 micron map	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/07/96 Week 45
Start	JTA+CDS	00002633:00:0	96-312/07:26:34.333		JTA+001/20:22:15.333
End	JTA+CDS	00002654:00:0	96-312/07:47:48.333		JTA+001/20:43:29.333
Duration		00000021:00:0	000/00:21:14.000		000/00:21:14.000

Top Label C3JNFEA53M01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	169	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

High spectral resolution 5-micron and 3-micron night time maps of trace species within the South Equatorial Belt Campaign Feature obtained during the ~ 129 degrees rotation. The first scan is a 5 micron map. Jupiter mapped in 80 wavelengths specified by NIMS wavelength table J5M80B, which includes 80 wavelengths from 4.28 to 5.22 microns. The second scan is a 3 micron map, using 80 wavelengths specified by wavelength table J3M80B, which includes 80 wavelengths from 2.50 to 3.44 microns. Assumed feature coordinates: -5.5 degrees south latitude and 271 degrees west longitude (System III). NIMAGING occurs during a scienced turn.

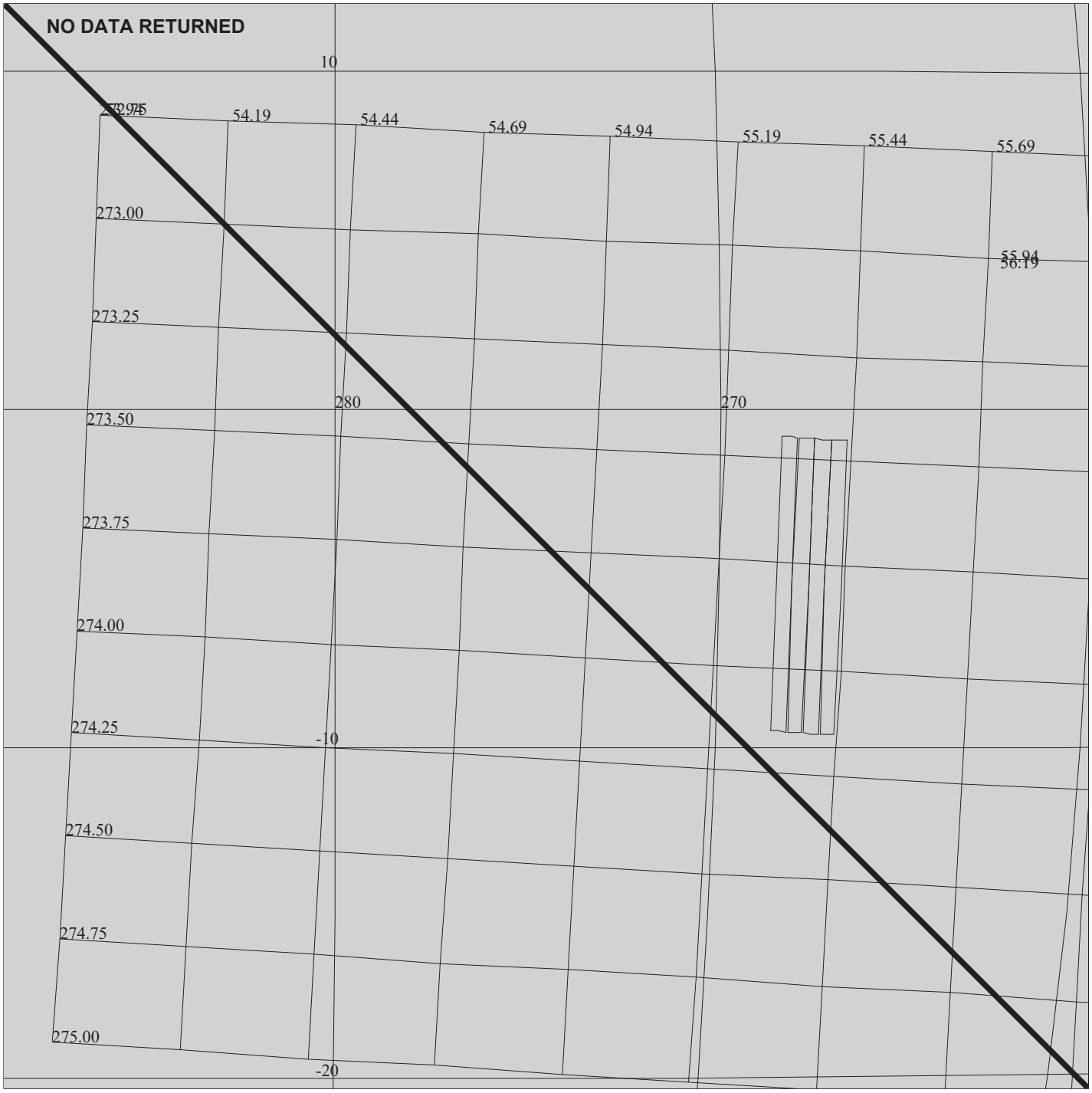
Processor Halted, No Data Returned

Design Detail

Two longmap, Nyquist-sampled observations of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 0.94 X 10^6 km, covers 9400 X 9400 km. Each scan encompasses about 6 minutes of scanning, accumulating 0.363 MBTG and using 0.0121 tracks.
Four minutes reserved for targetting.
Total OAPEL downlink: 0.726 MBTG, using 0.0242 tracks.
Second scan (3 micron observation) begins at 09:43,
corresponding to begin scan start time of the original
OAPEL C3JNFEA3UM01.
Second SCIREC and second NIMS wavelength table start at that time.
Note: 6/26 - JTA - JEE epoch offset of -120 RIMS now assumed.

Long Map (LM), Gain 4, Grating Start 0, LPU, J35160, J35160

Galileo Activity Plan Form 09/12/96 16:57:47 rev 6/95



165EL:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/8699 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 60.55 DEC50= 22.32 cone= 54.80 clock=273.81
117EL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8699
1:#s= 2 Cs= 10.60 XCs= 0.00 Cr= -10.80 XCr= 0.00 sD= 1070 rD= 20

C3JNFEA53M01B

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA53M01B

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTA 96-310/11:04:19.000 +CDS 2637:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 4.000**

OBSERVATION:C3JNFEA53M01B **DESCRIP:Jupiter Campaign Feat 5u 3u map**

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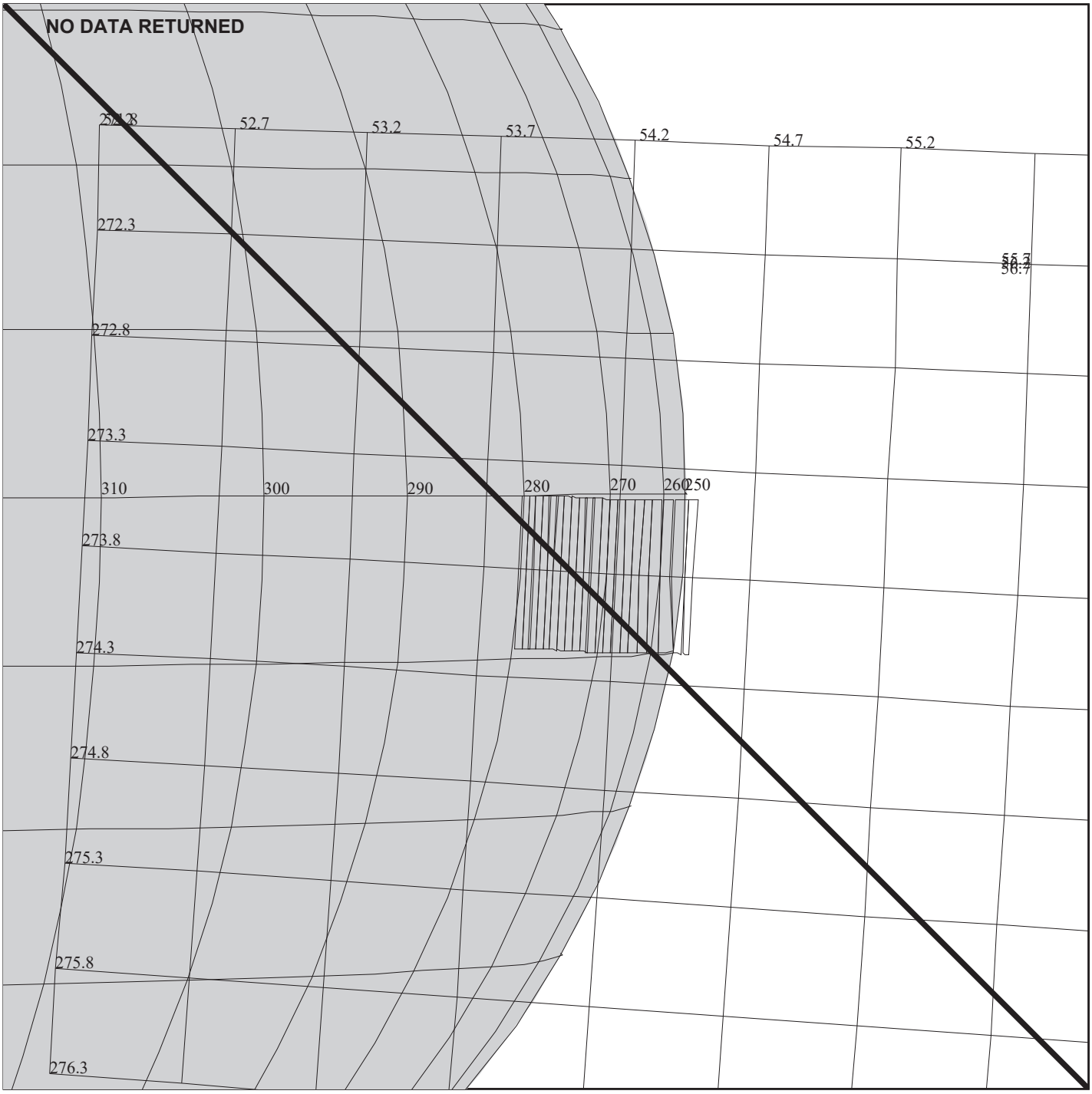


165EM:TT= 0 TMC= 1 C= -5.10 XC= 0.00 BS= 0/5807 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 61.52 DEC50= 22.51 cone= 53.89 clock=273.85
117EM:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/5807
1:#s= 1 Cs= 7.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1070 rD= 2

C3JNFEA5UM02

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA5UM02

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTA 96-310/11:04:19.000 +CDS 2731:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:C3JNFEA5UM02 **DESCRIP:Jupiter Campaign Feat 5u map 2**

Jupiter Campaign Feature 5um Map

ACTIVITY ID: C3JNFEA5UM02-
START TIME: 96-312/09:01:37.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA5UM SeqNo 02 -

Title	Jupiter Campaign Feature 5um Map	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID C3A Calendar Date 11/07/96 Week 45

Start	JTA+CDS 00002727:00:0	96-312/09:01:37.000	JTA+001/21:57:18.000
End	JTA+CDS 00002736:81:0	96-312/09:11:37.000	JTA+001/22:07:18.000
Duration	00000009:81:0	000/00:10:00.000	000/00:10:00.000

Top Label C3JNFEA5UM02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	131	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

High spectral resolution 5-micron night time map of trace species within the Campaign Feature. This second of two complete 4.33-5.22 micron maps (the first was obtained in OAPEL C3JNFEA53M01) obtained at a moderate emission angle (~60 degrees) during the phase angle ~ 129 degrees rotation. Jupiter mapped in the 80 wavelengths specified by NIMS wavelength table J5M80B, which includes 80 wavelengths from 4.28 to 5.22 microns. Assumed feature coordinates: 5.5 degrees south latitude and 271 degrees west longitude (System III). NIMAGING occurs during a science turn.

Processor Halted, No Data Returned

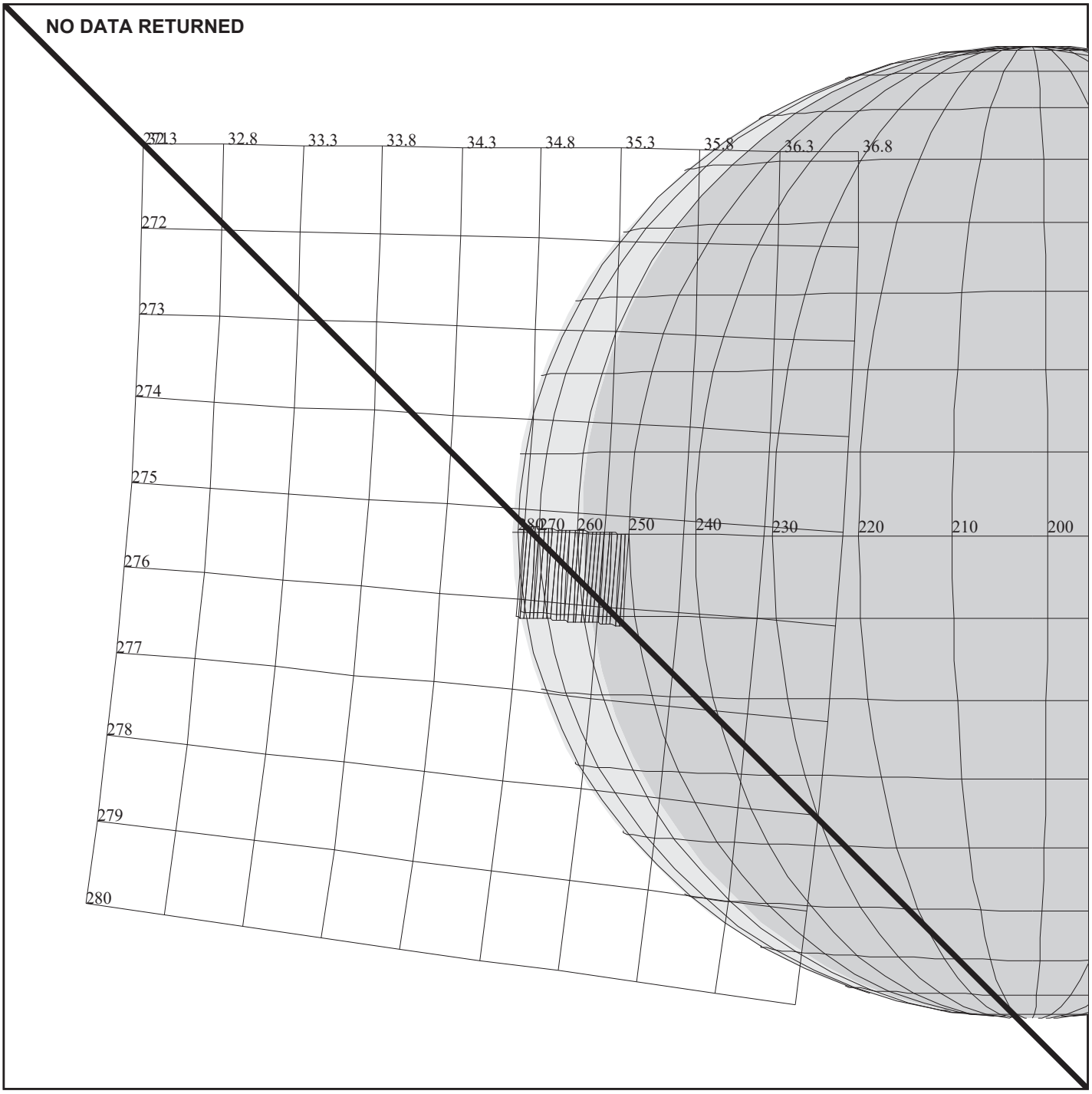
Design Detail

Longmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 1.0 X 10^6 km, covers 10000 X 10000 km. About 6 minutes of scanning, accumulating 0.363 MBTG and using 0.0121 tracks. Four minutes reserved for targetting.

JTA - JEE epoch offset of -120 RIMS assumed.

Long Map (LM), Gain 4, Grating Start 0, LPU, J5M253B, J5M80B

Galileo Activity Plan Form 09/12/96 16:57:47 rev 6/95



165EN:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/7332 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 82.34 DEC50= 24.76 cone= 34.74 clock=275.69
117EN:#SB= 2 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/7332
1:#s= 2 Cs= 52.00 XCs= 0.00 Cr= -55.50 XCr= 0.00 sD= 1626 rD= 60
2:#s= 1 Cs= 13.00 XCs= 0.00 Cr= -54.50 XCr= 0.30 sD= 404 rD= 60

C3JNFEA15301A

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA15301A

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 +CDS 3124:00:0

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

OBSERVATION:C3JNFEA15301A

DESCRIP:Jupiter Campaign Feature 153dg 1

Jupiter Campaign Feature 150 phase prt 1 ACTIVITY ID: C3JNFEA15301-
START TIME: 96-312/15:38:59.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA153 SeqNo 01 -

Title	Jupiter Campaign Feature 150 phase prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/07/96 Week 45
Start	JTA+CDS	00003120:00:0	96-312/15:38:59.000		JTA+002/04:34:40.000
End	JTA+CDS	00003145:00:0	96-312/16:04:15.666		JTA+002/04:59:56.666
Duration		00000025:00:0	000/00:25:16.666		000/00:25:16.666

Top Label	C3JNFEA15301-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	169	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. South Equatorial Belt scanned three times during phase angle ~ 150 degrees rotation. Jupiter imaged in 4 colors, using NIMS wavelength table JFT04A. This observation acquired with feature near bright limb, near minimum airmass, and near the terminator, assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III). NIMAGING occurs during a science turn.

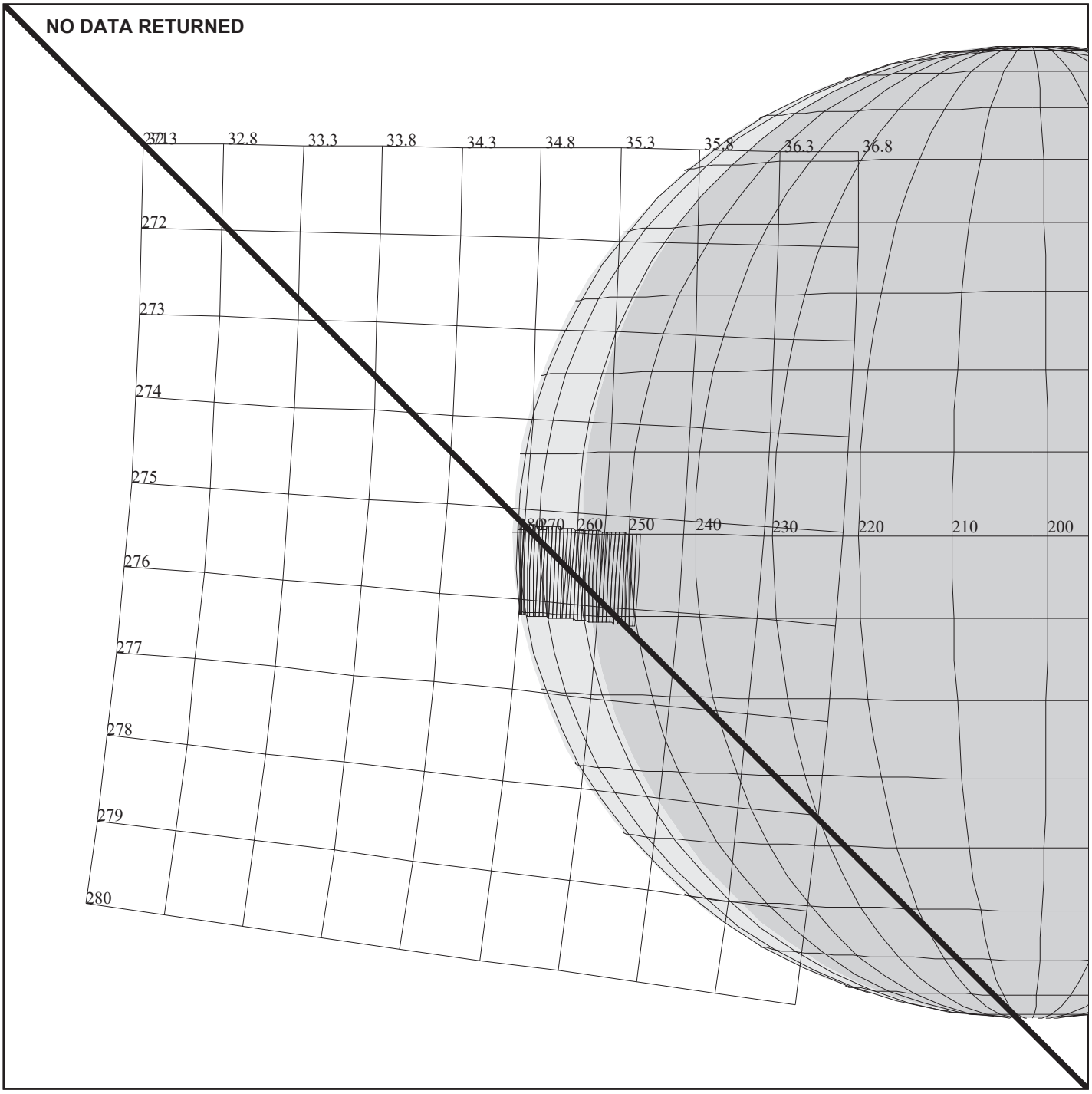
Processor Halted, No Data Returned

Design Detail

Three shortmap, Nyquist-sampled observations of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 1.2 X 10^6 km; NIMS IFOV (NIMSel) = 600 km; 1 X 1 image covers 12000 X 12000 km.
Each of the three scans is about 2 minutes accumulating a total of 0.0921 MBTG in 4 colors and using 0.0120 tracks.
The second scan and SCIREC begin at 17:54 (i.e. orginal scan start time of original C3JNFEA15302 OAPEL). The third scan and SCIREC begin at 18:04 (original start scan time of OAPEL C3JNFEA15303).
Four minutes reserved for targetting.
JTA - JEE epoch offset of -120 RIMS assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:48 rev 6/95



165EN:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/7332 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 82.34 DEC50= 24.76 cone= 34.74 clock=275.69
117EN:#SB= 2 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/7332
1:#s= 2 Cs= 52.00 XCs= 0.00 Cr= -55.50 XCr= 0.00 sD= 1626 rD= 60
2:#s= 1 Cs= 13.00 XCs= 0.00 Cr= -54.50 XCr= 0.30 sD= 404 rD= 60

C3JNFEA15301B

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA15301B

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

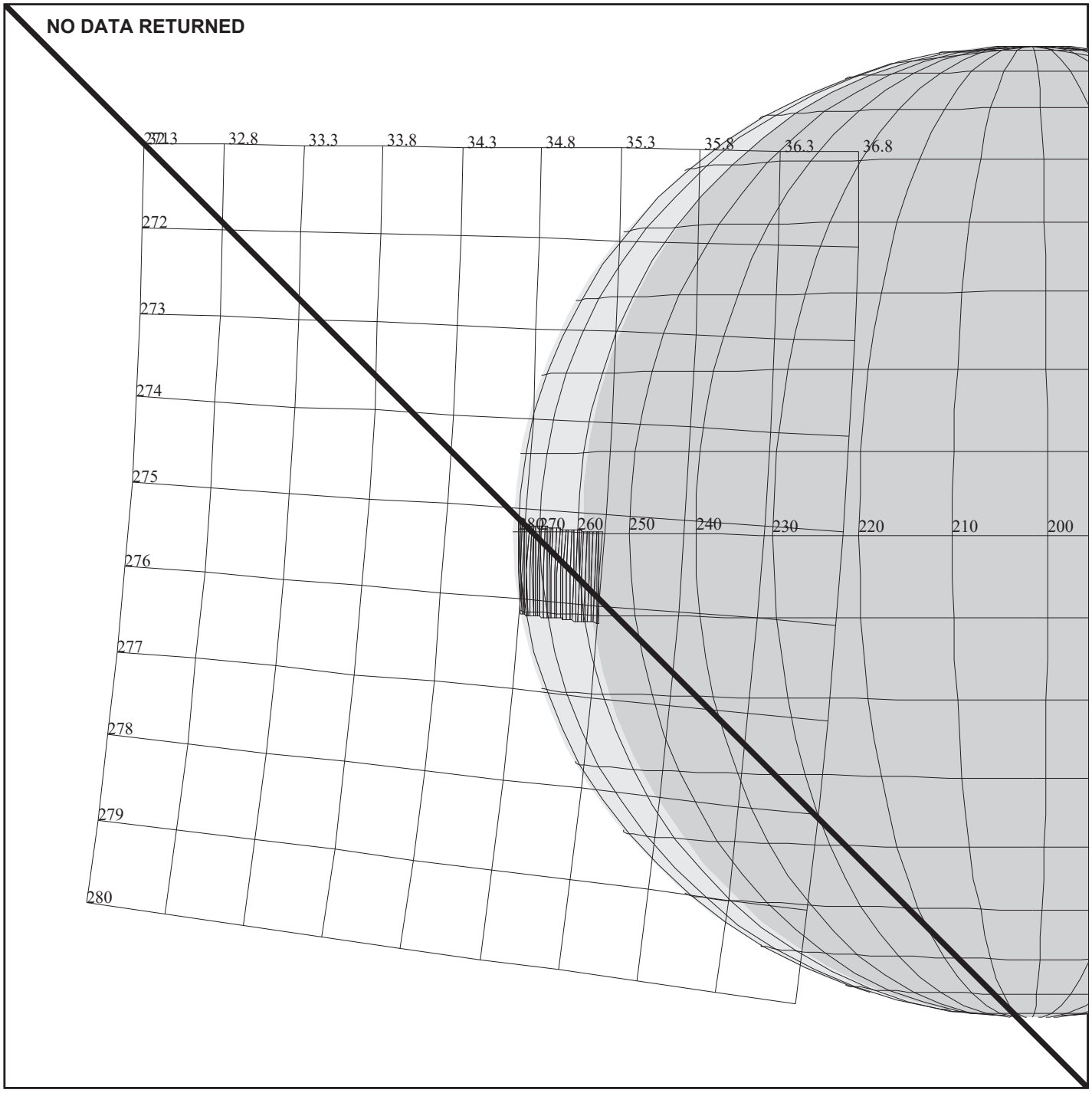
THINNING:NIM 2

START:JTA 96-310/11:04:19.000 +CDS 3124:00:0

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

OBSERVATION:C3JNFEA15301B

DESCRIP:Jupiter Campaign Feature 153dg 1



165EN:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/7332 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 82.34 DEC50= 24.76 cone= 34.74 clock=275.69
117EN:#SB= 2 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/7332
1:#s= 2 Cs= 52.00 XCs= 0.00 Cr= -55.50 XCr= 0.00 sD= 1626 rD= 60
2:#s= 1 Cs= 13.00 XCs= 0.00 Cr= -54.50 XCr= 0.30 sD= 404 rD= 60

C3JNFEA15301C

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA15301C

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 +CDS 3124:00:0

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

OBSERVATION:C3JNFEA15301C

DESCRIP:Jupiter Campaign Feature 153dg 1

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NIMS Software Load

ACTIVITY ID: C3NIMSP2LD05-
START TIME: 96-314/03:00:17.466

Activity ID: Orbit C3 Target N Inst I OAPEL MSP2LD SeqNo 05 -

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

Time System	CDS	Load ID	Calendar Date	11/09/96	Week 45
Start	IEE+CDS	00000000:00:0	96-314/03:00:17.466	IEE+000/00:00:00.000	
End	IEE+CDS	00000005:00:0	96-314/03:15:27.466	IEE+000/00:00:00.000	
Duration		00000015:00:0	000/00:15:10.000	000/00:15:10.000	

Top Label	C3NIMSP2LD05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

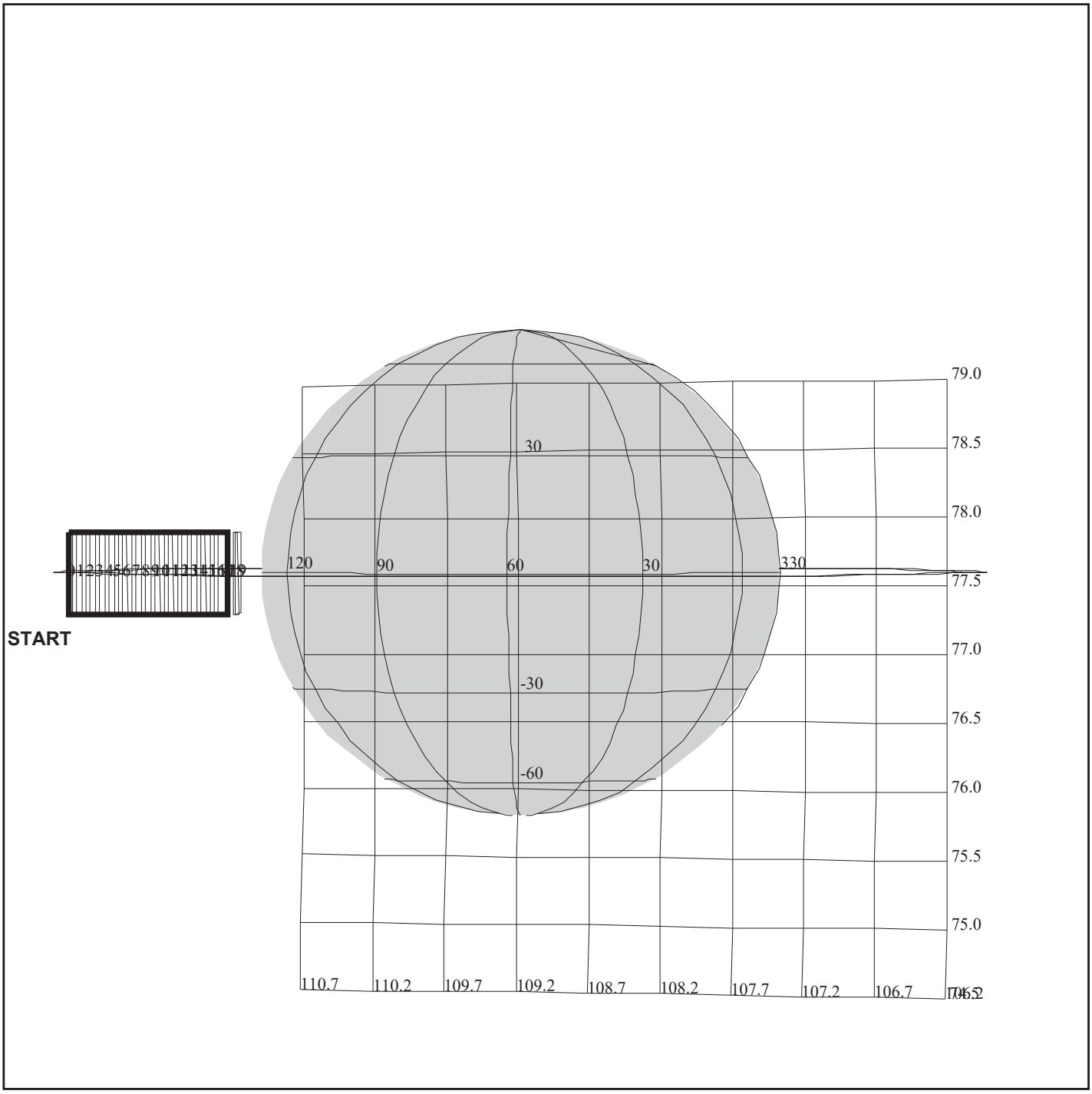
Observation Objective

Reload NIMS RAM flight software from CDS.
LOAD_E

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

Galileo Activity Plan Form 09/12/96 16:57:46 rev 6/95



165EO:TT= 0 TMC= 1 C= 55.00 XC= 0.00 BS= 0/2636 TC= 9
A= 534 pD= 0 SR=17.450 RA50=117.22 DEC50= 22.08 cone=112.32 clock= 77.66
117EO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2636
1:#s= 1 Cs= -19.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 2002 rD= 2

C3RNMRING_01

DESIGN G2.0 clee :10/10/1996 8:11:15

FILE:P.C3RNMRING_01

CENTRAL BODY:JUPITER III

MINI:m.C3RNMRING_01

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 8

START:JOC 96-314/06:08:21.466 -CDS 108:00:0

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

OBSERVATION:C3RNMRING_01

DESCRIP:MAIN RING OBSERVATION

MAIN RING OBSERVATION

ACTIVITY ID: C3RNMRING 01-
START TIME: 96-314/04:21:10.666

Activity ID: Orbit C3 Target R Inst N OAPEL MRING SeqNo 01 -

Title	MAIN RING OBSERVATION			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/09/96 Week 45

Start	JOC-CDS 00000105:00:0	96-314/04:21:10.666	JOC-000/01:46:10.000
End	JOC-CDS 00000088:00:0	96-314/04:38:22.000	JOC-000/01:28:58.666
Duration	00000017:00:0	000/00:17:11.334	000/00:17:11.334

Top Label C3RNMRING01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

To study the composition and particle sizes of the main ring band.

Resolution: ~1130 Km;
Phase angle: ~178 degrees;
Number of Wavelengths: 102, using wavelength table RFM102.

Data Returned

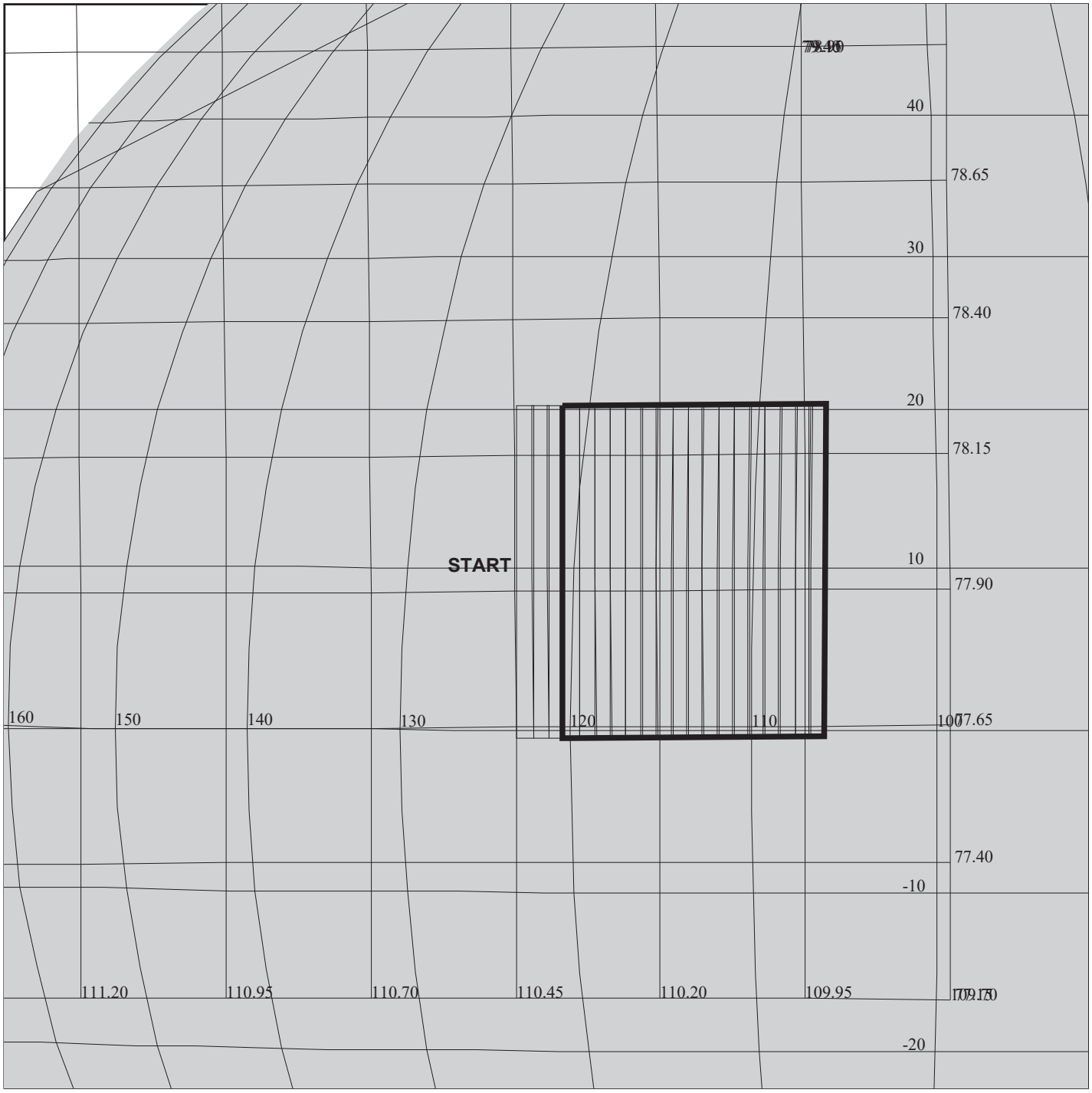
Design Detail

Target to center of Jupiter and offset to 1.83 RJ of the ring plane, and do one slew from to the surface of Jupiter at 0.03 mrad/sec. Observation happens during the solar occultation.

Instrument mode: Full Map;
Record the maximum allowed number of wavelengths, but at least return minimum of 102 wavelengths using playback table RFM102.
Gain state: 4;
Grating start position = 0;
Grating offset position= 4;
Record Mode = LPU.

Full Map (FM), Gain 4, Grating Start 0, LPU, C3RFM126, C3RFM102

Galileo Activity Plan Form 09/12/96 16:57:49 rev 6/95



165EP:TT= 0 TMC= 1 C= 11.50 XC= 4.60 BS= 0/6104 TC= 3
A= 546 pD= 0 SR=17.450 RA50=115.29 DEC50= 22.72 cone=110.44 clock= 77.94
117EP:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6104
1:#s= 1 Cs= -10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1072 rD= 2

C3JNOCSPEC01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNOCSPEC01

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JOC 96-314/06:08:21.466 -CDS 34:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

OBSERVATION:C3JNOCSPEC01

DESCRIP:JUPITER OCCULATION SPECTRUM

Jupiter Occultation Spectrum

ACTIVITY ID: C3JNOCSPEC01-
START TIME: 96-314/05:51:10.000

Activity ID: Orbit C3 Target J Inst N OAPEL OCSPEC SeqNo 01 -

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

Time System	CDS	Load ID	C3A	Calendar Date	11/09/96 Week 45

Start	JOC-CDS	00000016:00:0	96-314/05:51:10.000	JOC-000/00:16:10.666
End	JOC-CDS	00000006:00:0	96-314/06:01:16.666	JOC-000/00:06:04.000
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label C3JNOCSPEC01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	169	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

High spectral resolution 3 - 5 micron nightime map of trace species acquired of a Hot Spot region during the occultation period.
A complete 2.81 - 5.22 micron map acquired in 204 wavelengths specified by NIMS wavelength table JIR204 spanning 2.81 to 5.22 microns.
Assumed feature coordinates: 8 degrees north latitude and 115 degrees west longitude (system III). Observed as the feature near the Central Meridian.

Data Returned

Design Detail

Longmap Nyquist-sampled observation of 1 X 1 (10 mrad X 10 mrad) area centered on a Hot Spot region. Spacecraft distance 2.27 X 10^6 km;
1 X 1 image covers 22700 X 22700 km. About 6 minutes of scanning, accumulating 0.9115 MBTG and using 0.0121 tracks.
Four minutes reserved for targetting.

Long Map (LM), Gain 4, Grating Start 0, LPU, J35160, J35160

Galileo Activity Plan Form 09/12/96 16:57:49 rev 6/95

NIMS Safe After Data Taking ACTIVITY ID: C3NNNMSAFE01-
START TIME: 96-314/06:02:17.333

Activity ID: Orbit C3 Target N Inst N OAPEL NMSAFE SeqNo 01 -

Title	NIMS Safe After Data Taking			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/09/96 Week 45
Start	JOC-CDS 00000005:00:0	96-314/06:02:17.333		JOC-000/00:05:03.333	
End	JOC-CDS 00000001:00:0	96-314/06:06:20.000		JOC-000/00:01:00.666	
Duration	00000004:00:0	000/00:04:02.667		000/00:04:02.667	

Top Label	C3NNNMSAFE01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

Safe NIMS after the last ovservation in the C3 encounter load.

Design Detail

Use the NIMSINIT PA with the following commands:

```
37IST,1,2,0,OFF,0,0,0;  Chopper 63Hz
37IST,1,0,0,OFF,0,0,0;  Chopper Off
37IOP,0,0;              Safe Mode
```

Galileo Activity Plan Form 09/12/96 16:57:50 rev 6/95

RCT CALIBRATION

ACTIVITY ID: C3NNRCTRLT01-
START TIME: 96-317/13:15:31.666

Activity ID: Orbit C3 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	RCT CALIBRATION			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	11/12/96	Week 46
Start	JEE+CDS 00008533:00:0	96-317/13:15:31.666		JEE+005/23:47:48.666	
End	JEE+CDS 00008563:00:0	96-317/13:45:51.666		JEE+006/00:18:08.666	
Duration	00000030:00:0	000/00:30:20.000		000/00:30:20.000	

Top Label	C3NNRCTRLT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	250	Report Options	SCI	Scan Platform	No
CDS Source	ALL	Spin State	YES	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real Time Telemetry.
This calibration will take place after the + 3 day OTM.

Data Returned

Design Detail

This is a Library Sequence.
The Dark cone angle must be selected using Pointer.
1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference,
   Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone= 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T
8) Selw to Safe (cone=153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, C3RCT252

Galileo Activity Plan Form 11/14/96 16:48:16 rev 6/95

NIMS RCT CALIBRATION

ACTIVITY ID: C3NNRCTRLT02-
START TIME: 96-335/02:00:57.000

Activity ID: Orbit C3 Target N Inst N OAPEL RCTRLT SeqNo 02 -

Title	NIMS RCT CALIBRATION			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date 11/30/96 Week 48
Start	JEE+CDS 00033501:00:0	96-335/02:00:57.000	JEE+023/12:33:14.000
End	JEE+CDS 00033531:00:0	96-335/02:31:17.000	JEE+023/13:03:34.000
Duration	00000030:00:0	000/00:30:20.000	000/00:30:20.000

Top Label	C3NNRCTRLT02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	250	Report Options	SCI	Scan Platform	No
CDS Source	ALL	Spin State	YES	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real Time Telemetry.
This calibration will take place after Apojove.

Data Returned

Design Detail

This is a Library Sequence.
The Dark cone angle must be selected using Pointer.
1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference,
Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone= 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T
8) Selw to Safe (cone=153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, C3RCT252

Galileo Activity Plan Form 11/14/96 16:48:16 rev 6/95

NIMS INSTRUMENT PREP FOR E4 ACTIVITY ID: C3NNE4PREP01-
START TIME: 96-348/00:00:20.333

Activity ID: Orbit C3 Target Inst OAPEL SeqNo

Title	NIMS INSTRUMENT PREP FOR E4	Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team NIMS	Working Group SWG

Time System CDS Load ID Calendar Date 12/13/96 Week 50

Start	JEE+CDS 00051896:00:0	96-348/00:00:20.333	JEE+036/10:32:37.333
End	JEE+CDS 00051926:00:0	96-348/00:30:40.333	JEE+036/11:02:57.333
Duration	00000030:00:0	000/00:30:20.000	000/00:30:20.000

Top Label C3NNE4PREP
Bottom Label

Plot Key	NIMS	Type			
CDS Bytes	0	Report Options	SCI	Scan Platform	No
CDS Source	ALL	Spin State	YES	DMS	No

Observation Objective

NIMS heater configuration in preparation for data taking in the E4 orbit.

Design Detail

NIMS OPCAL

ACTIVITY ID: C3NNNOPCAL01-
START TIME: 96-349/09:25:22.333

Activity ID: Orbit C3 Target N Inst N OAPEL NOPCAL SeqNo 01 -

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

NIMS SWG

Time System CDS Load ID Calendar Date 12/14/96 Week 50

Start	JEE+CDS 00053879:00:0	96-349/09:25:22.333	JEE+037/19:57:39.333
End	JEE+CDS 00053882:00:0	96-349/09:28:24.333	JEE+037/20:00:41.333
Duration	00000003:00:0	000/00:03:02.000	000/00:03:02.000

Top Label C3NNNOPCAL01-
Bottom Label

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

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 positoins 8-11)
ETB selects Detectors 1 and 2 only.
NIMS is selected in Real-Time for 3 RIMS.
Three grating cycles will be returned.

Long Map (LM), Gain 4, Grating Start 0, R/T, C3OPCAL48

Galileo Activity Plan Form 11/14/96 16:48:17 rev 6/95

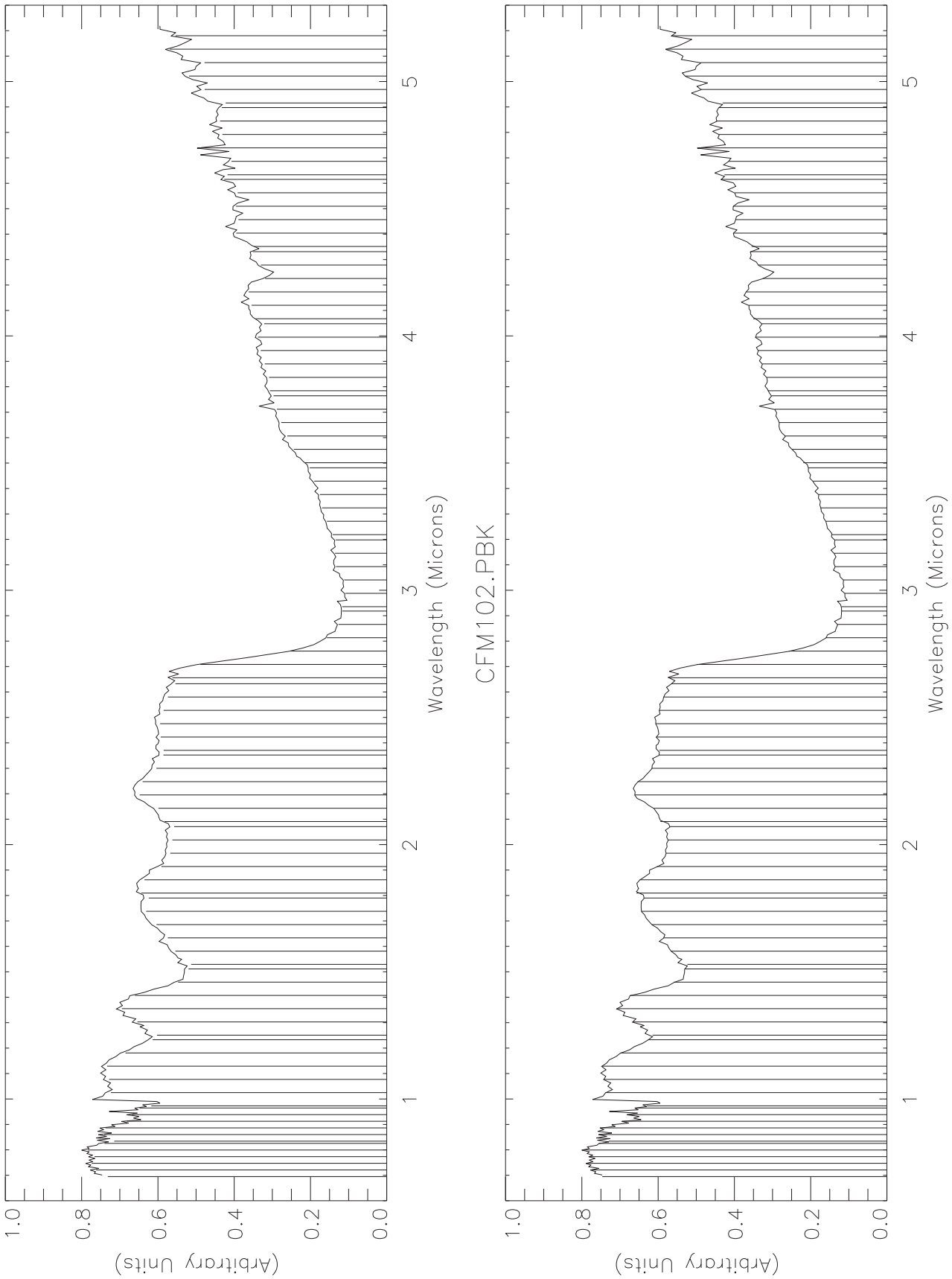
Chapter 6 - Edit Tables

Contents

Introduction to Chapter 6

NIMS Edit Table Plots

This chapter contains plots of the NIMS Edit Tables used in C3. 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.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(Arbitrary Units)
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0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
CFM102.PBK
(Arbitrary Units)
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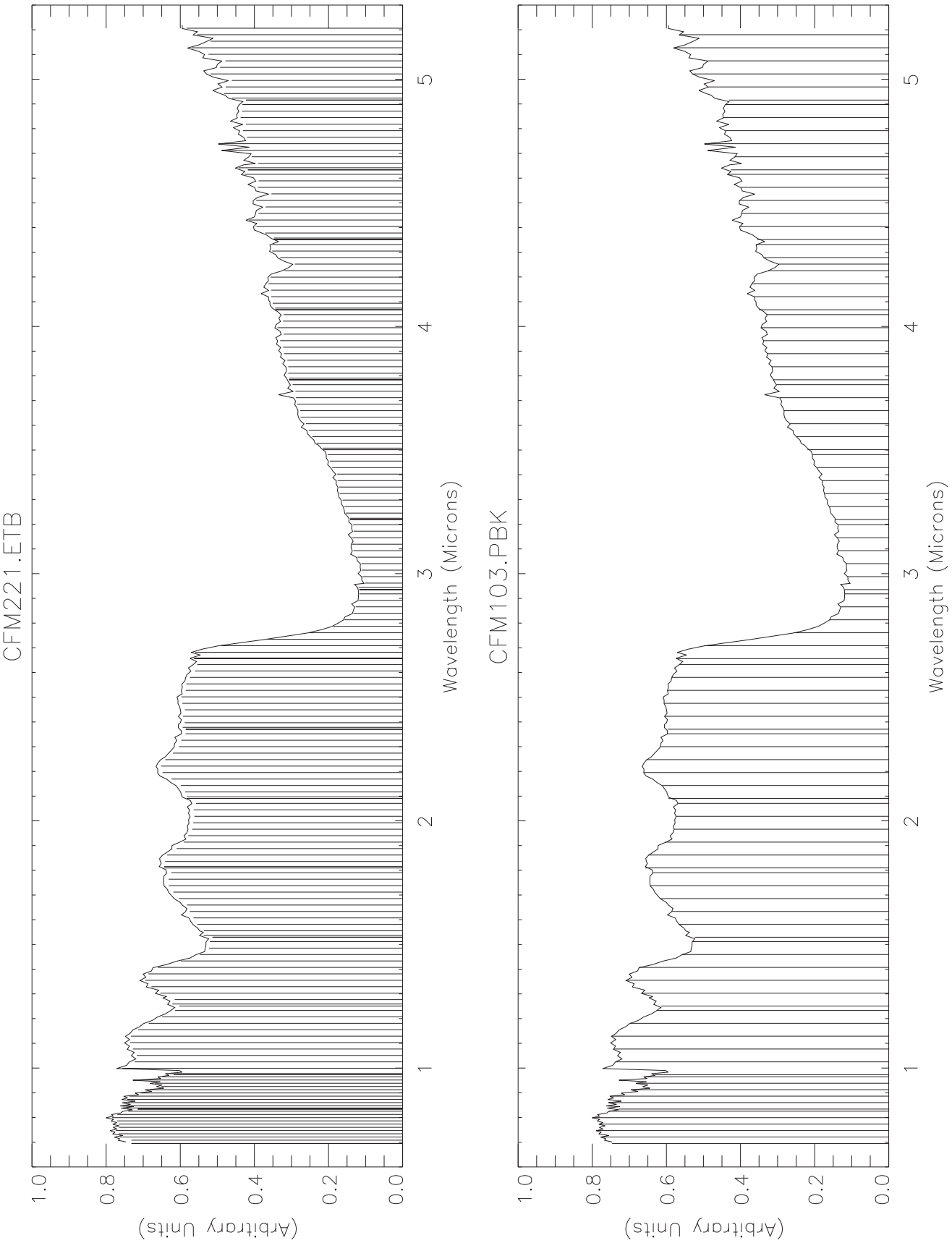
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)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4
5
Wavelength (Microns)
CFM103.PBK
(Arbitrary Units)
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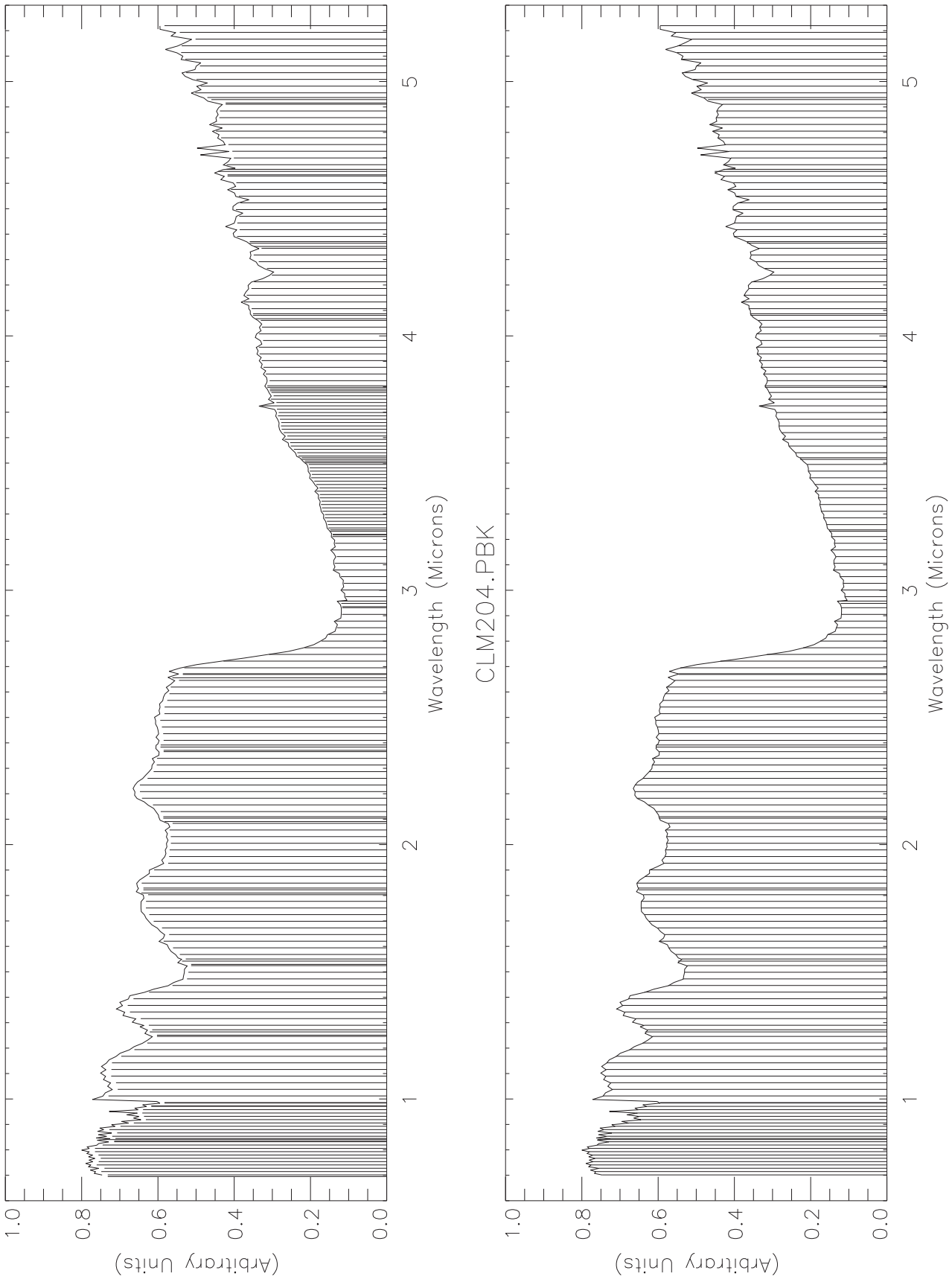
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


CLM245.ETB
CLM204.PBK
(Arbitrary Units)
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0.4
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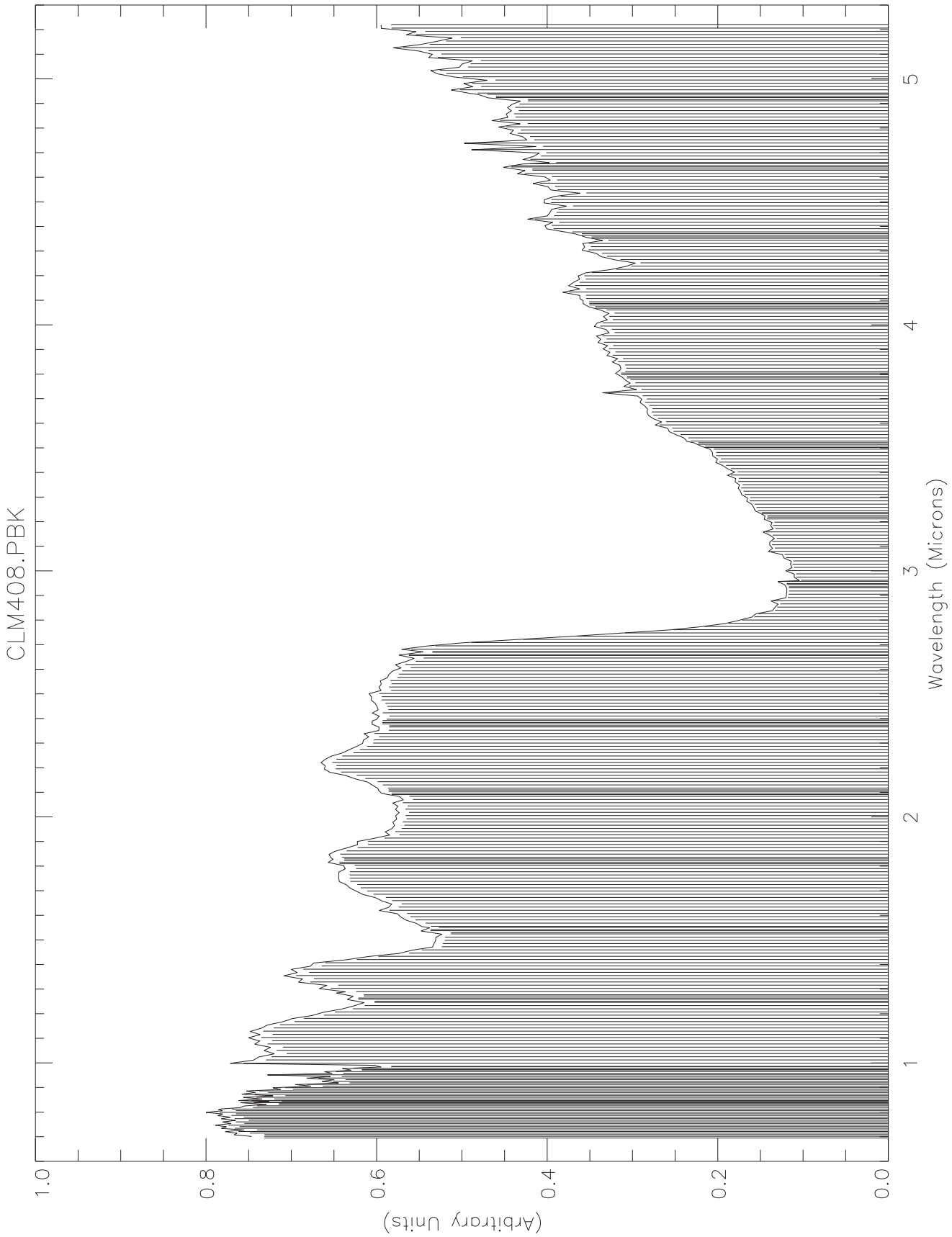
1.0
1
2
3
4
5


CLM408.PBK
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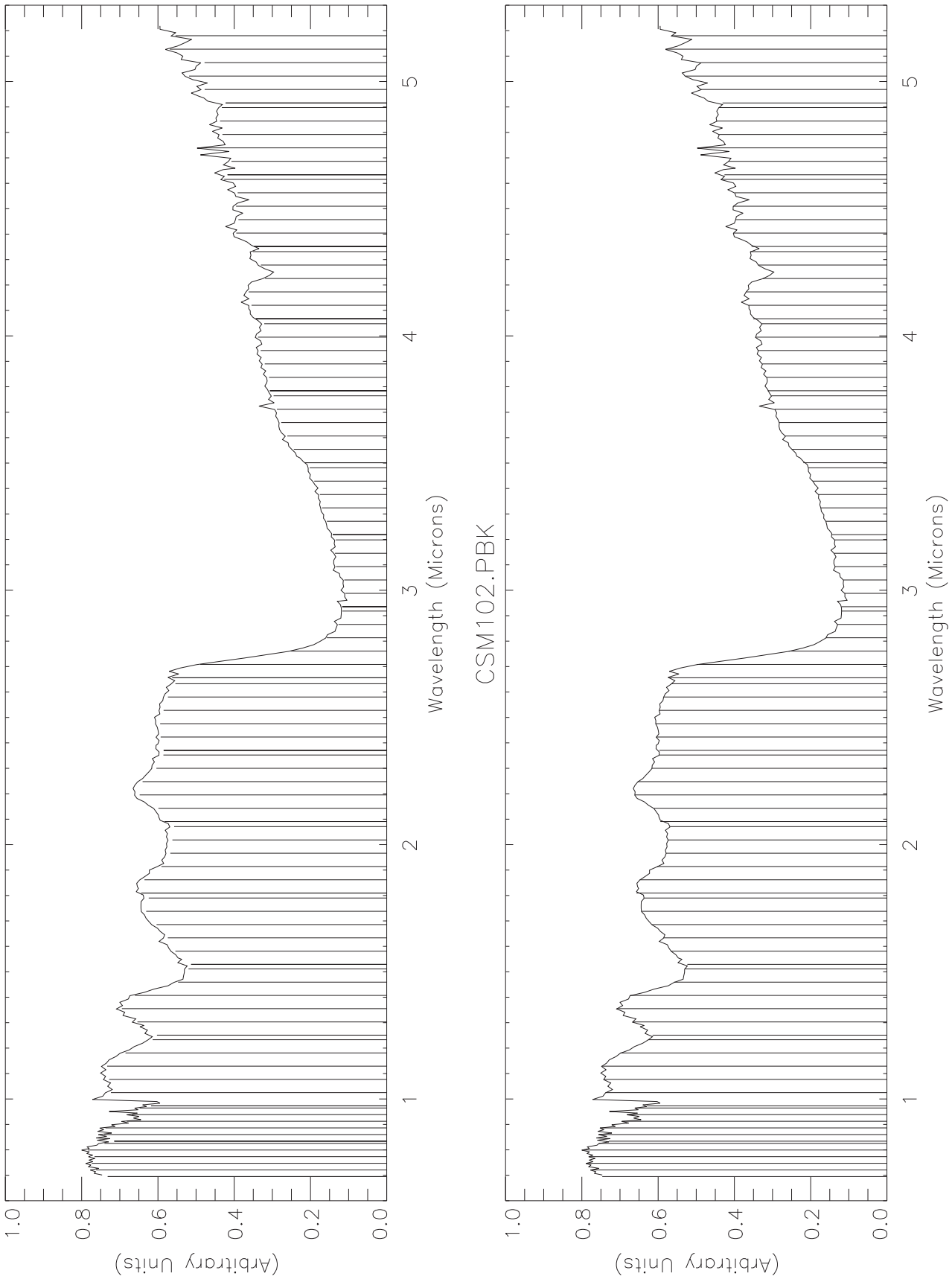
0.2
0.0
1
2
3
4
5
Wavelength (Microns)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0.2
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1
2
3
4
5
Wavelength (Microns)
CSM102.PBK
(Arbitrary Units)
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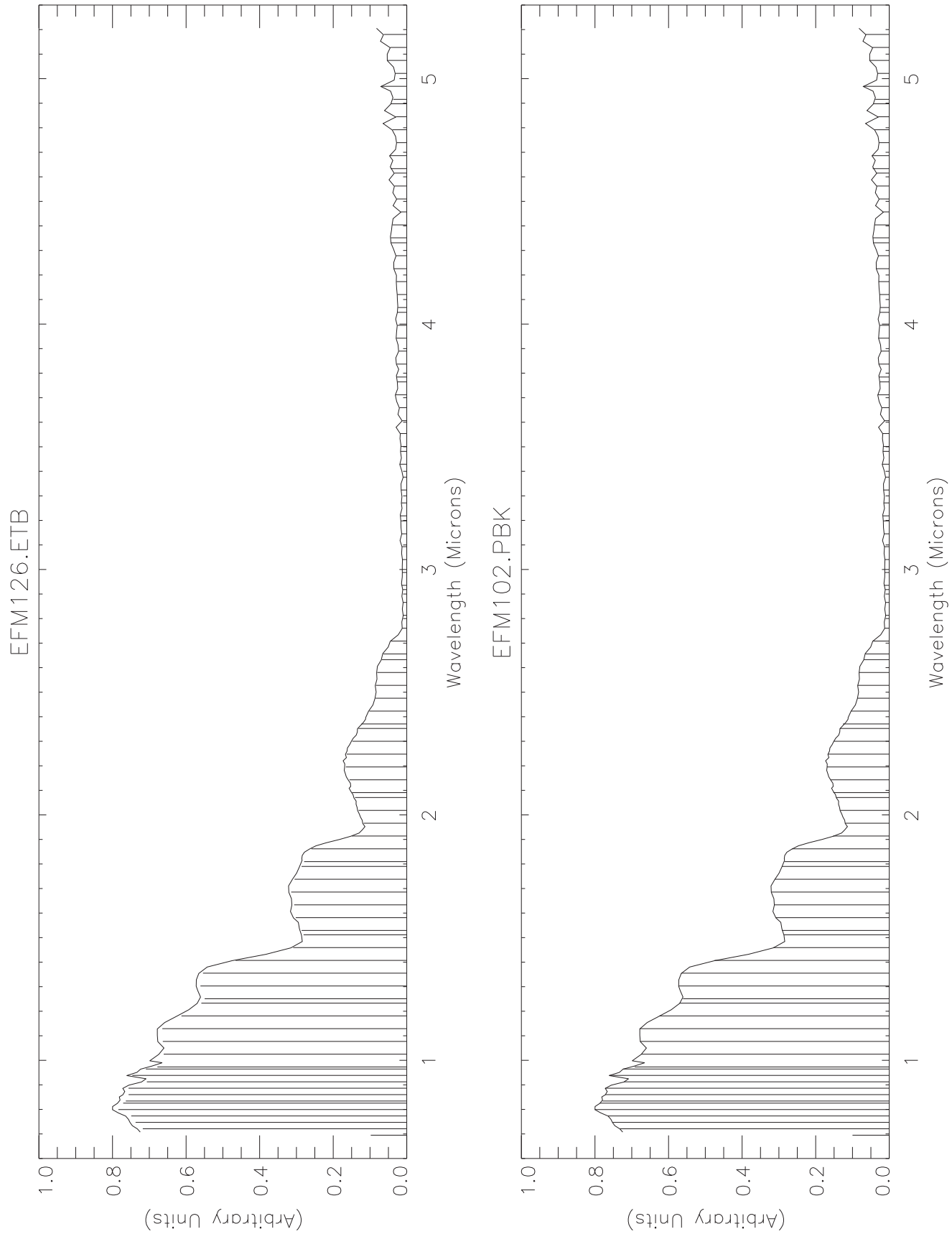
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


EFM126.ETB
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1
2
3
4
5
Wavelength (Microns)
EFM102.PBK
(Arbitrary Units)
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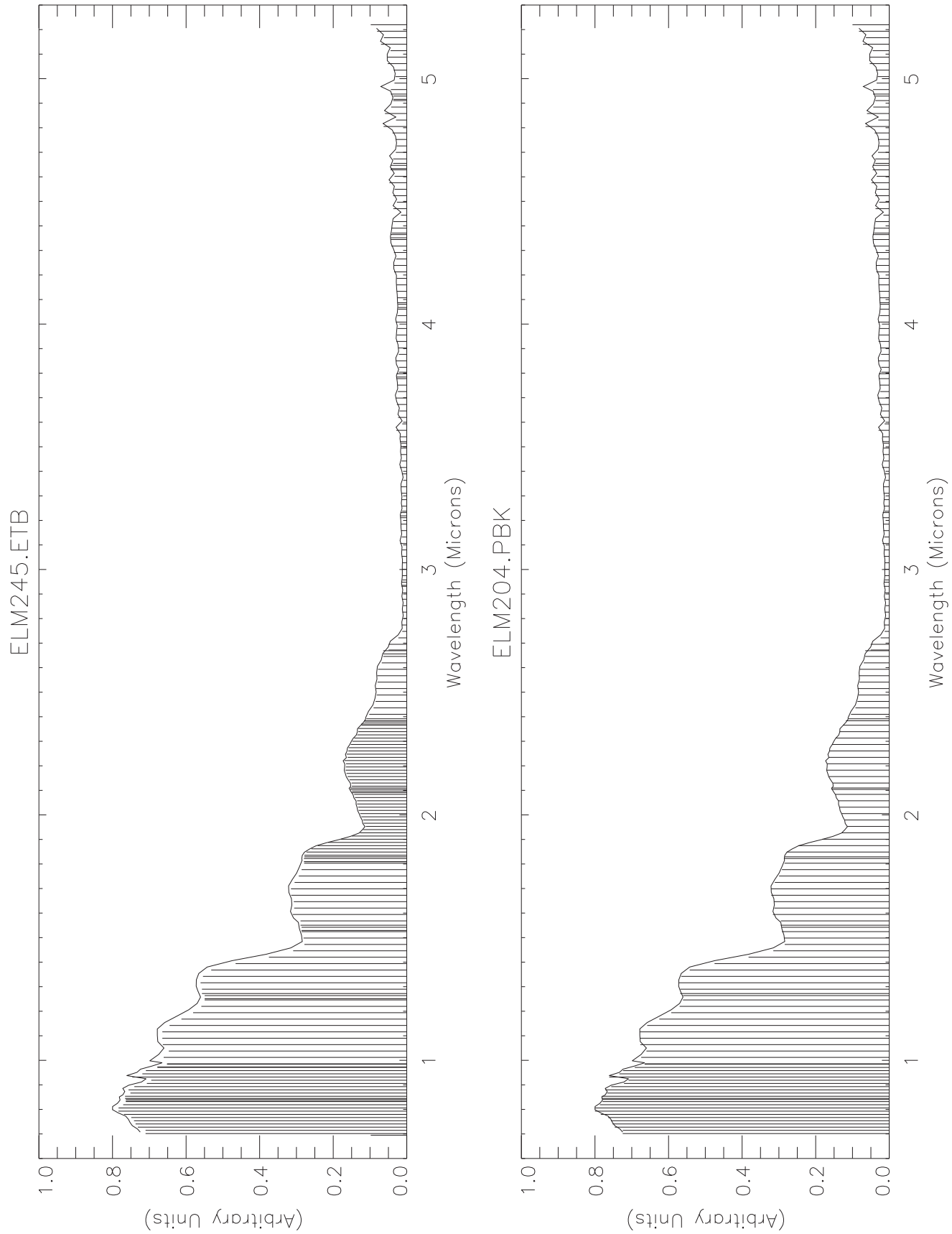
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ELM245.ETB
(Arbitrary Units)
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0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ELM204.PBK
(Arbitrary Units)
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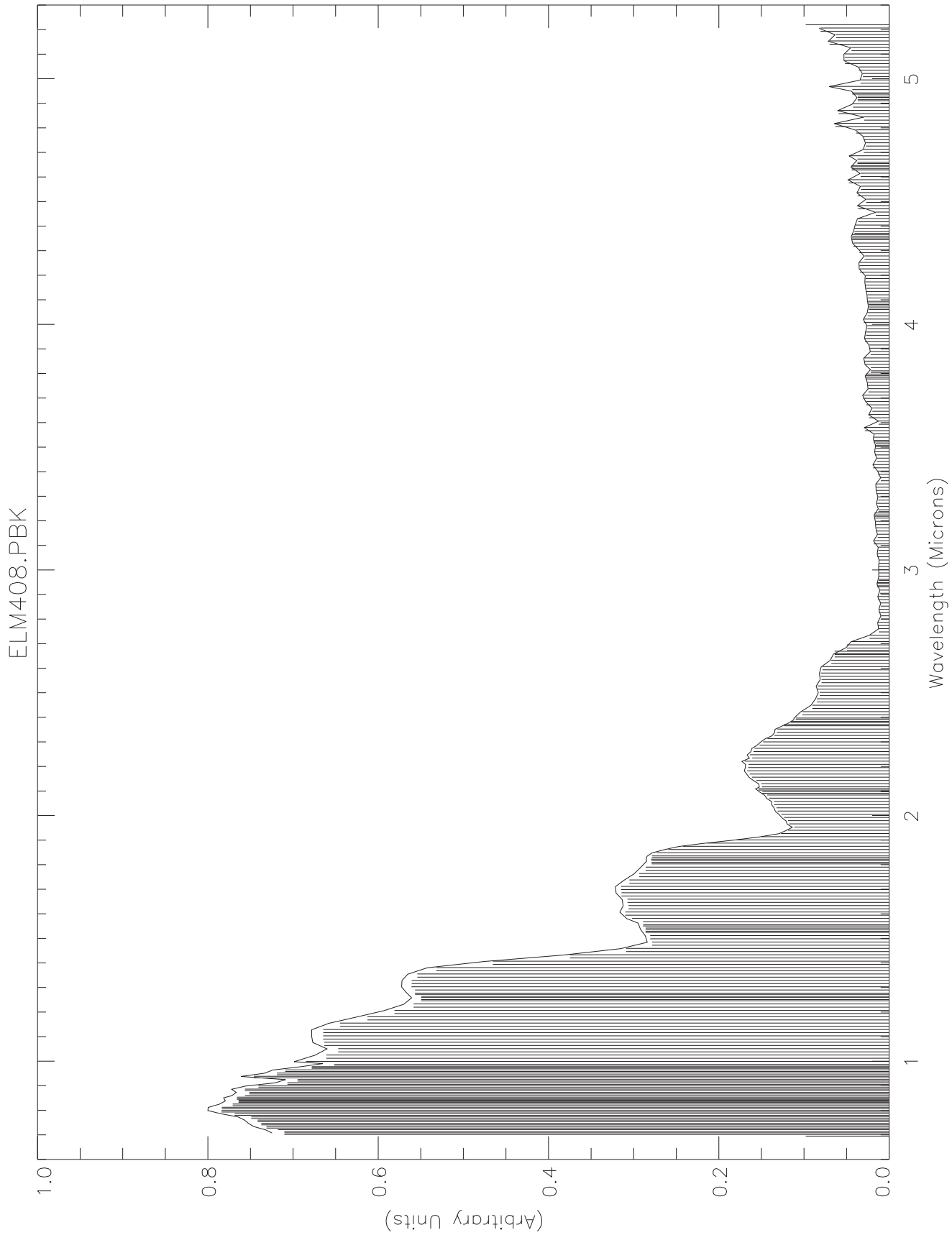
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ELM408.PBK
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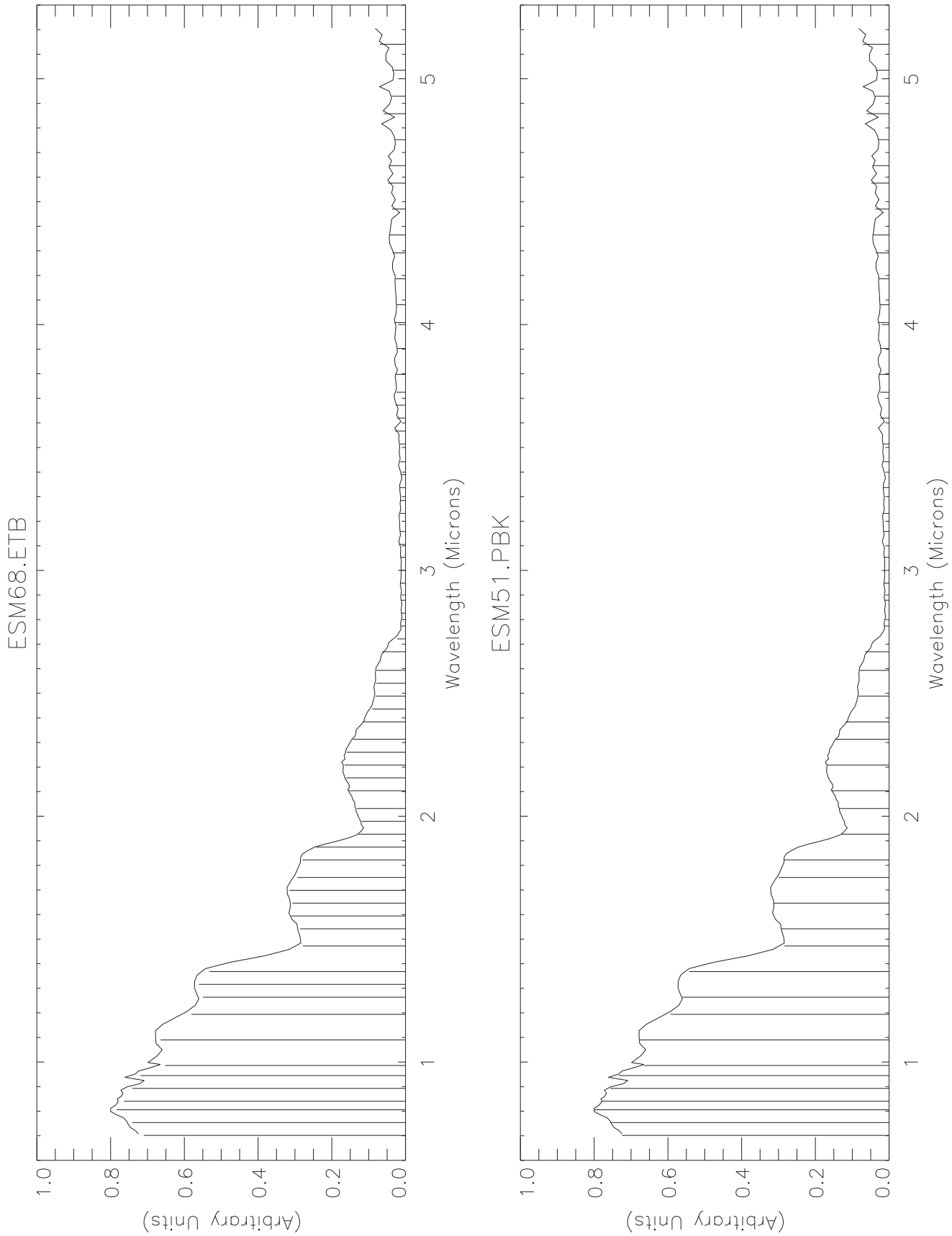
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


ESM68.ETB
(Arbitrary Units)
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1
2
3
4
5
Wavelength (Microns)
ESM51.PBK
(Arbitrary Units)
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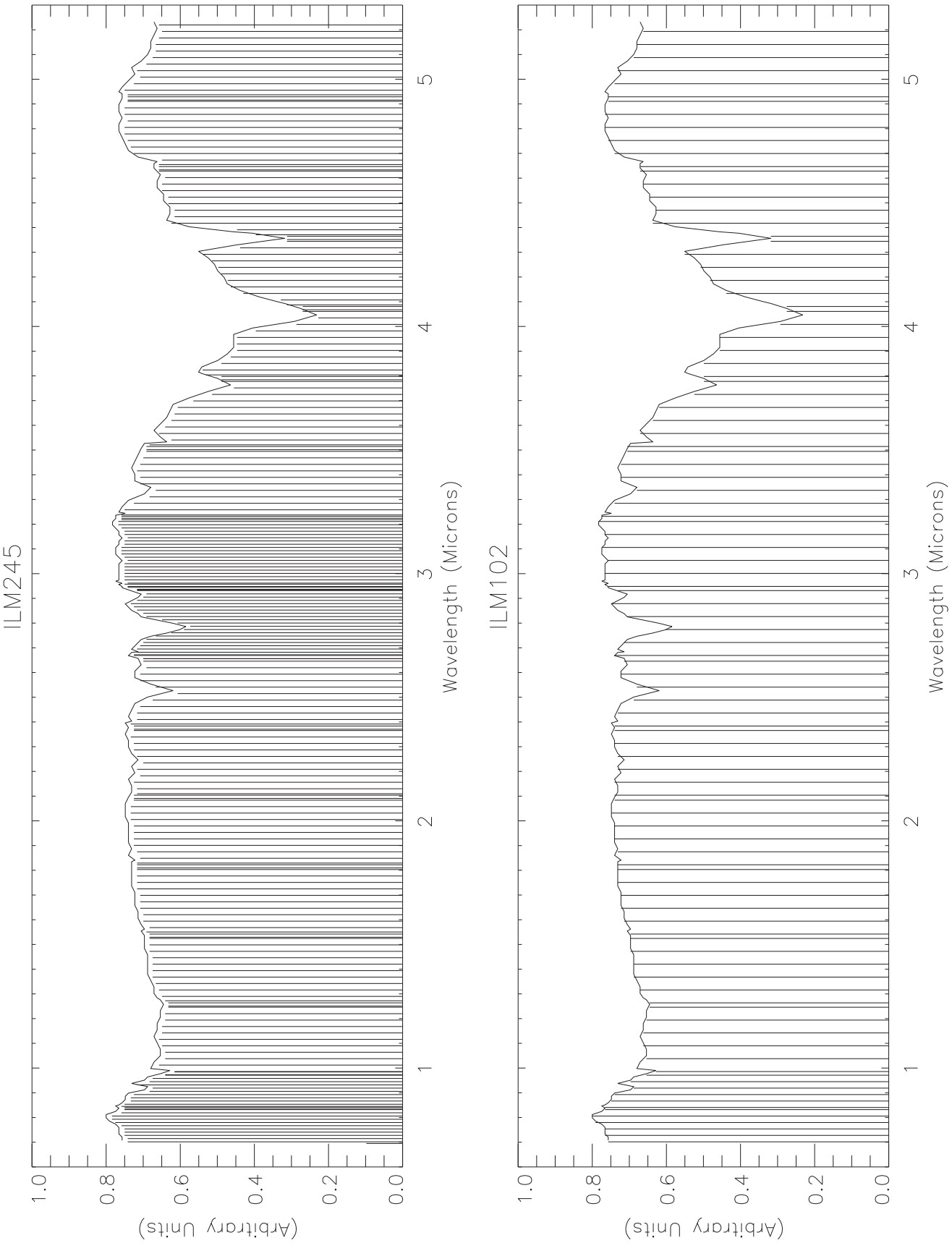
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ILM245
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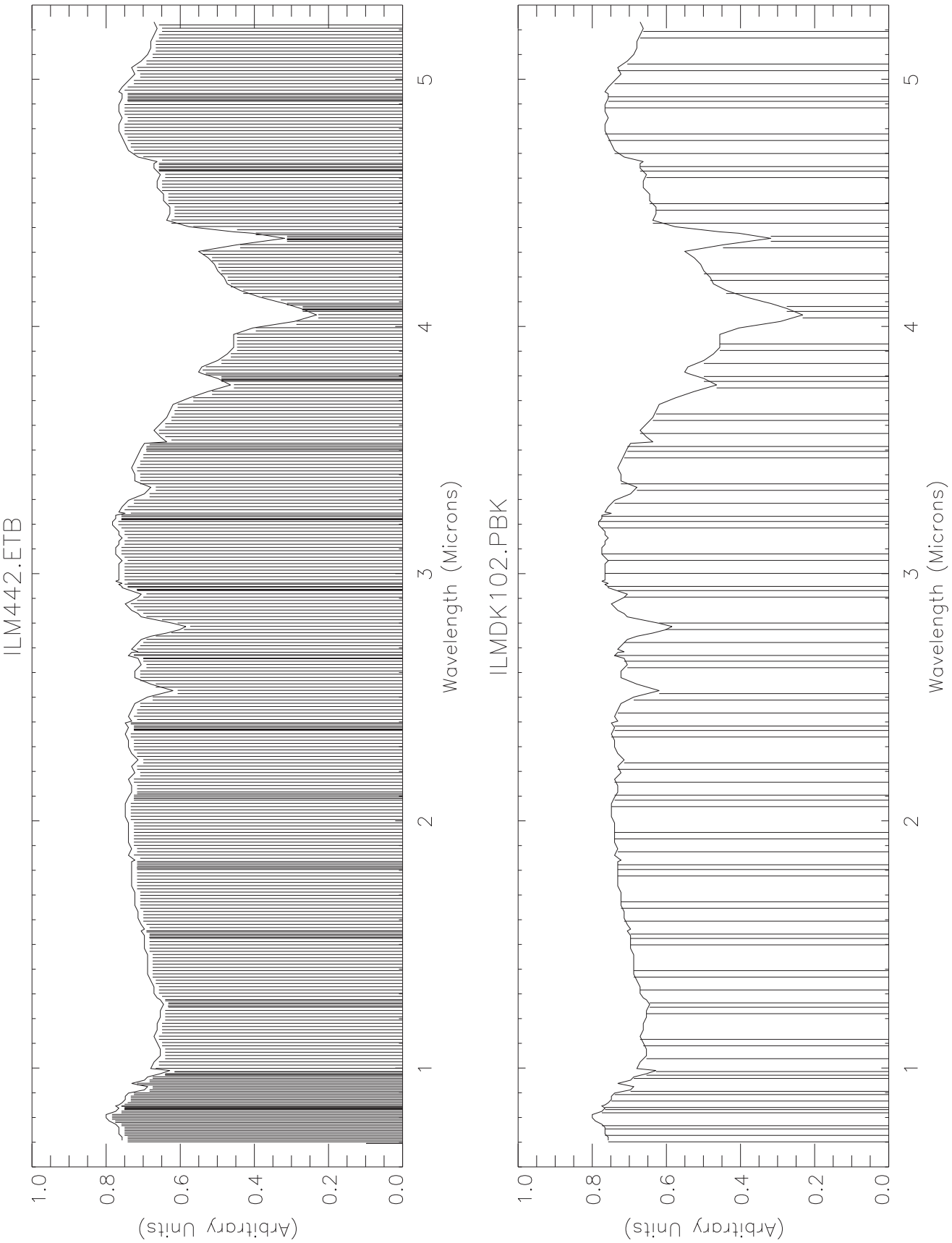
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ILM102
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ILM408.PBK
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


ILM442.ETB
ILMDK102.PBK
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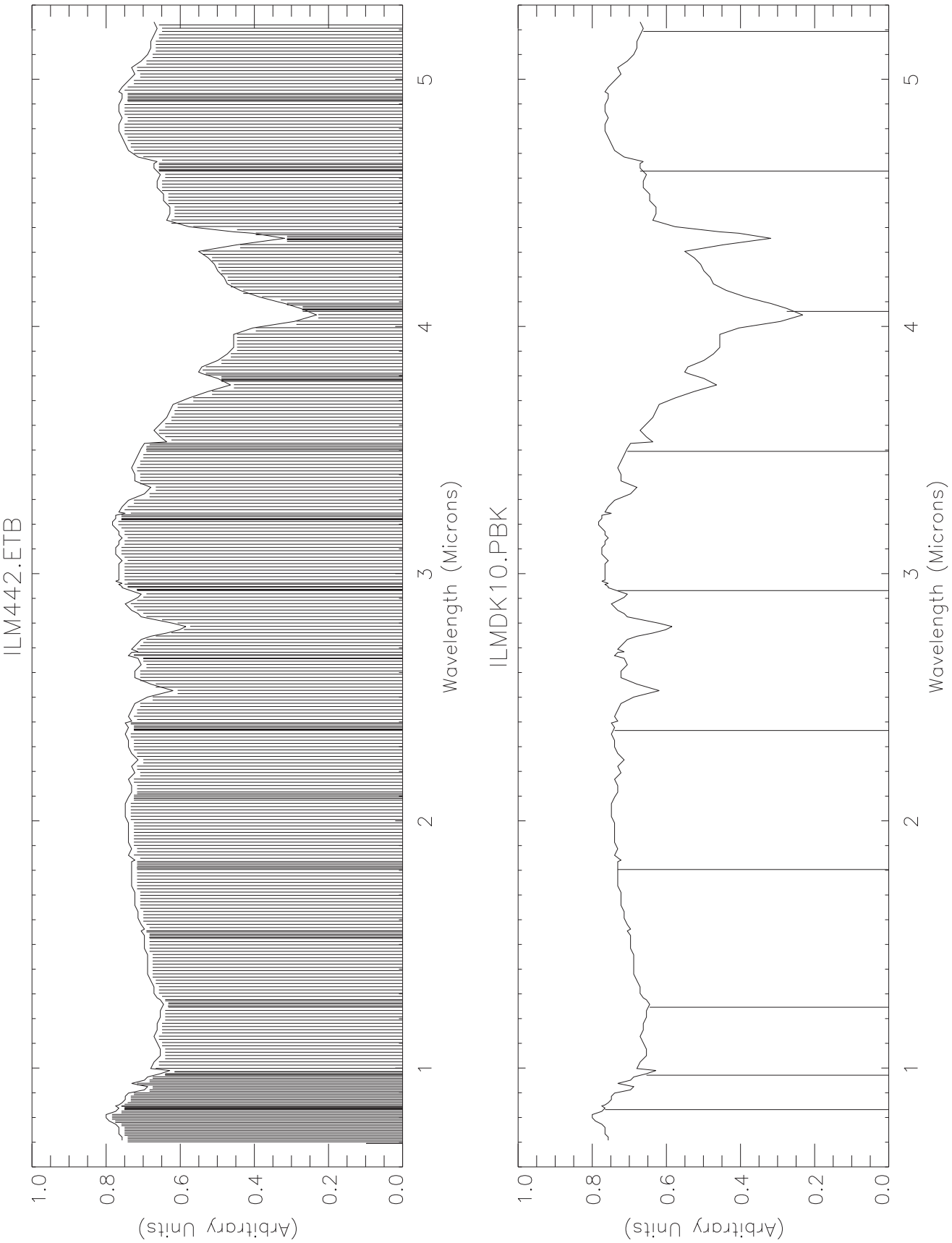
1
2
3
4
5
Wavelength (Microns)


ILM442.ETB
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1
2
3
4
5
Wavelength (Microns)
ILMDK10.PBK
(Arbitrary Units)
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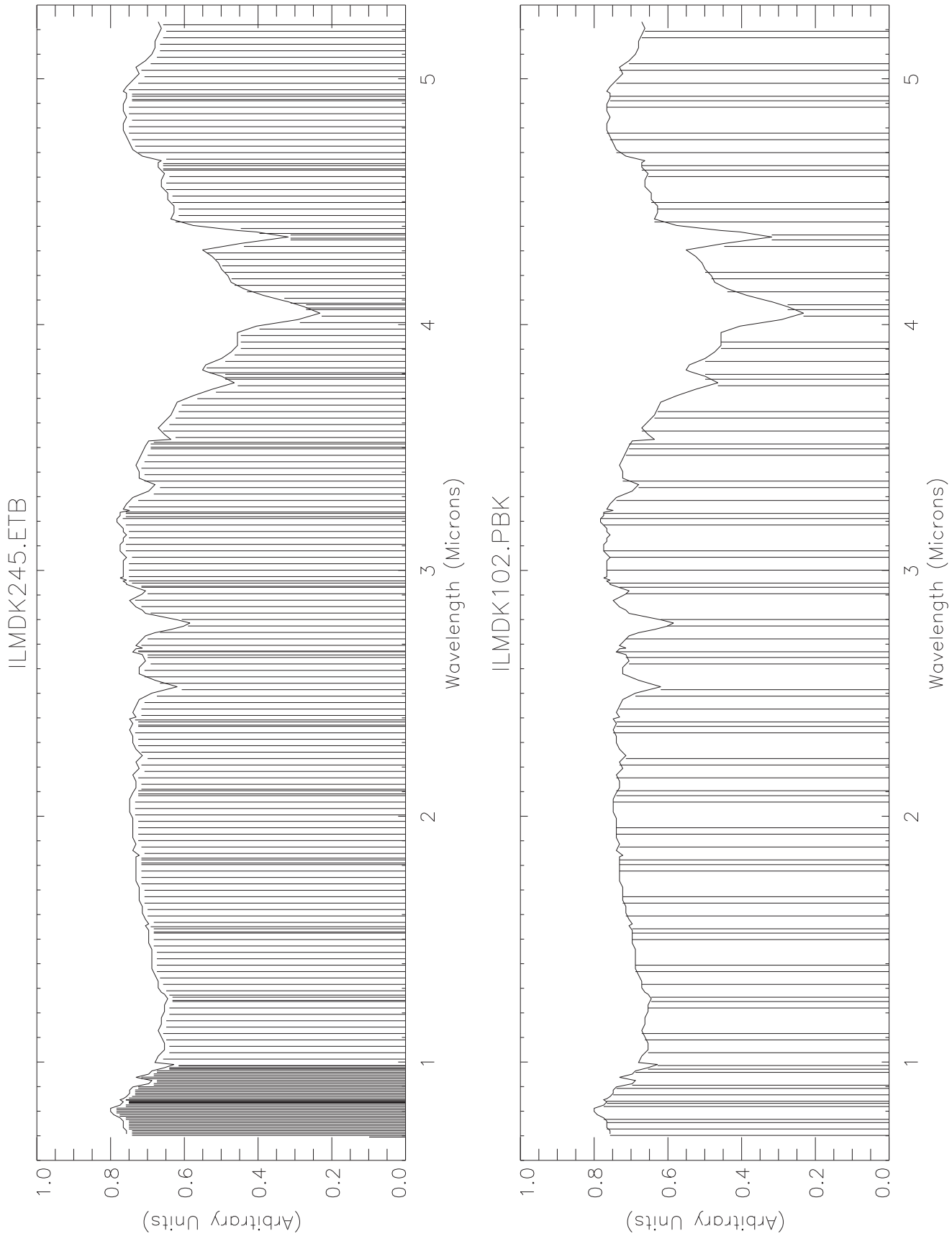
1
2
3
4
5
Wavelength (Microns)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0.2
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1
2
3
4
5
Wavelength (Microns)
ILMDK102.PBK
(Arbitrary Units)
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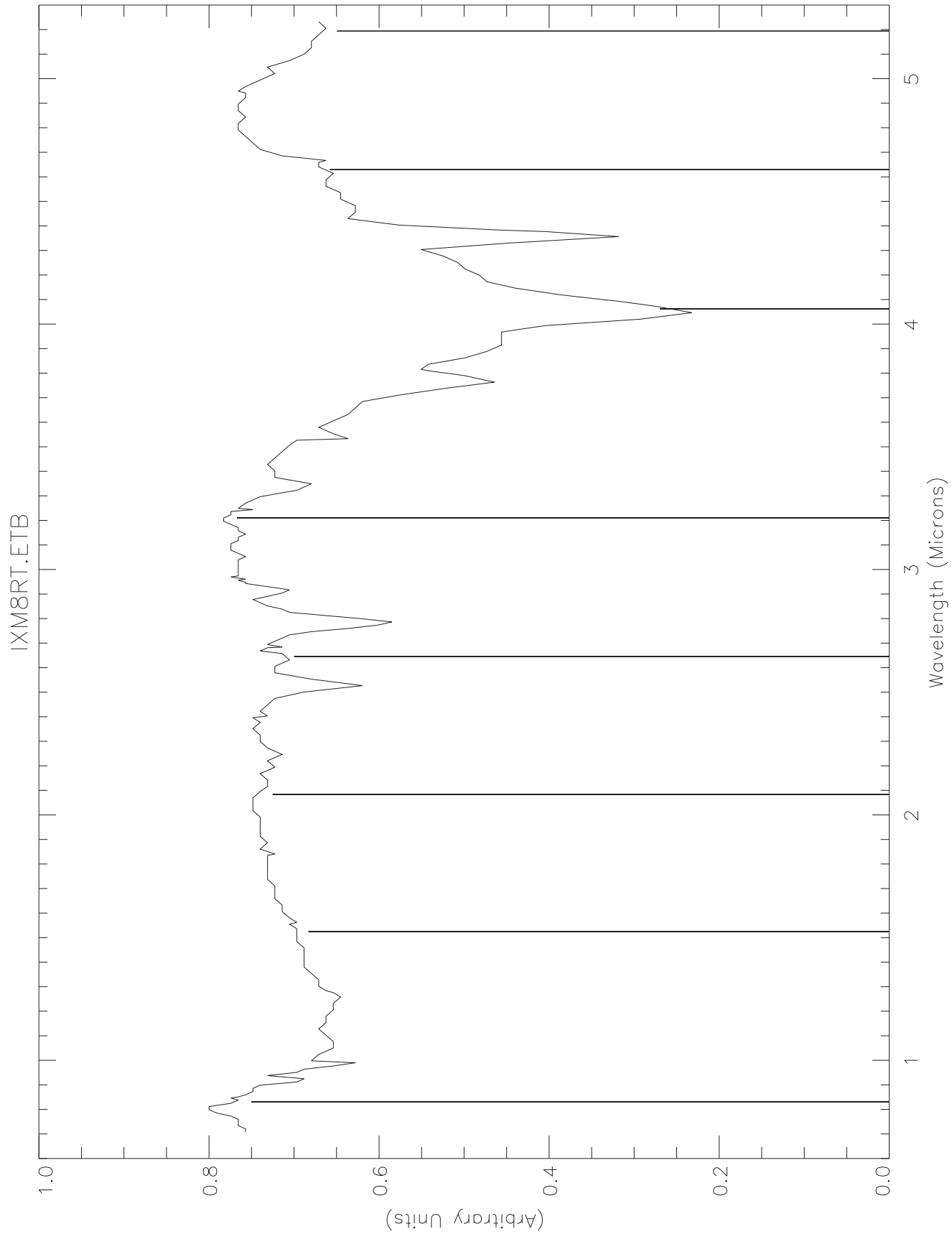
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


IXM8RT.ETB
(Arbitrary Units)
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0.4
0.2
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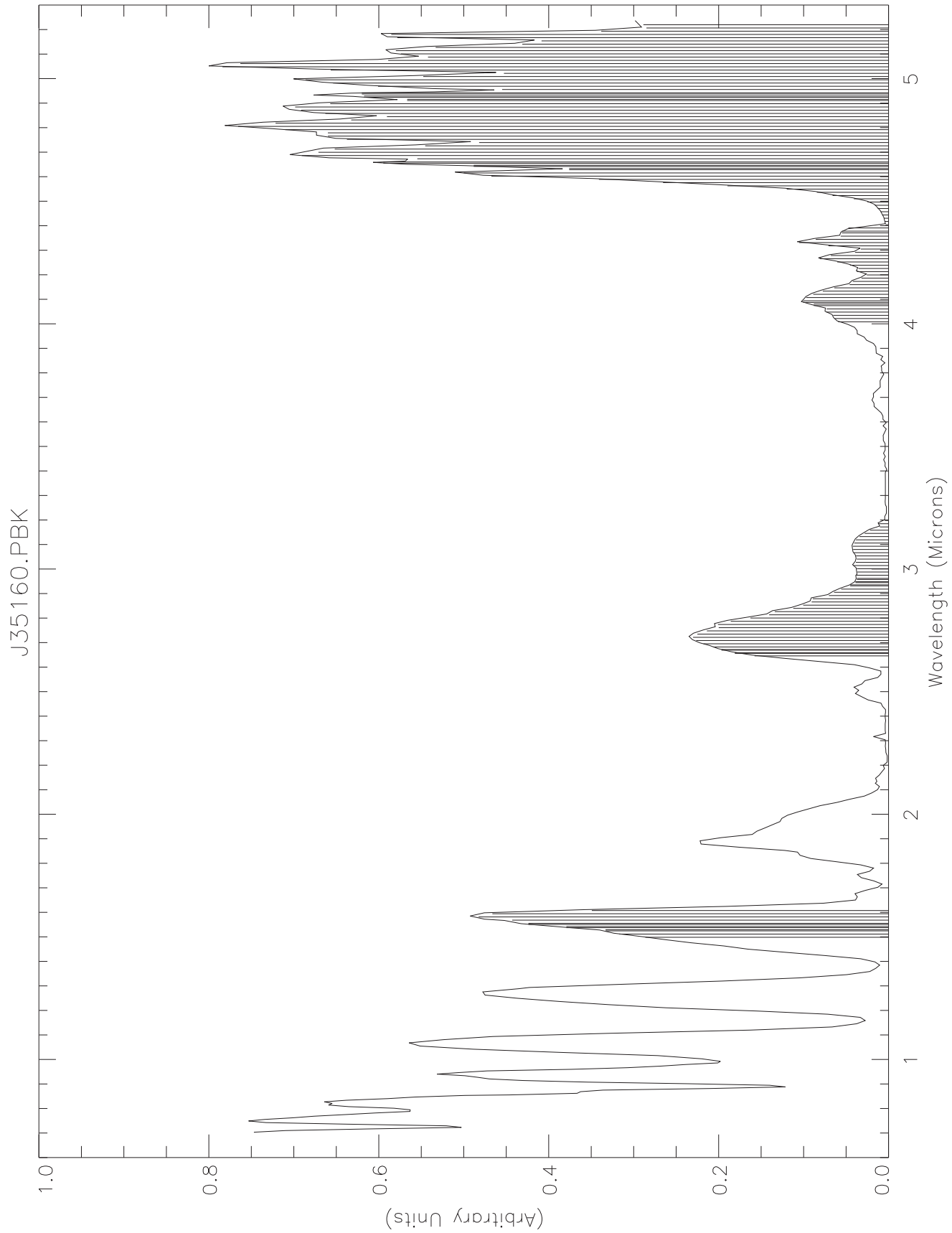
1
2
3
4
5
Wavelength (Microns)


J35160.PBK
(Arbitrary Units)
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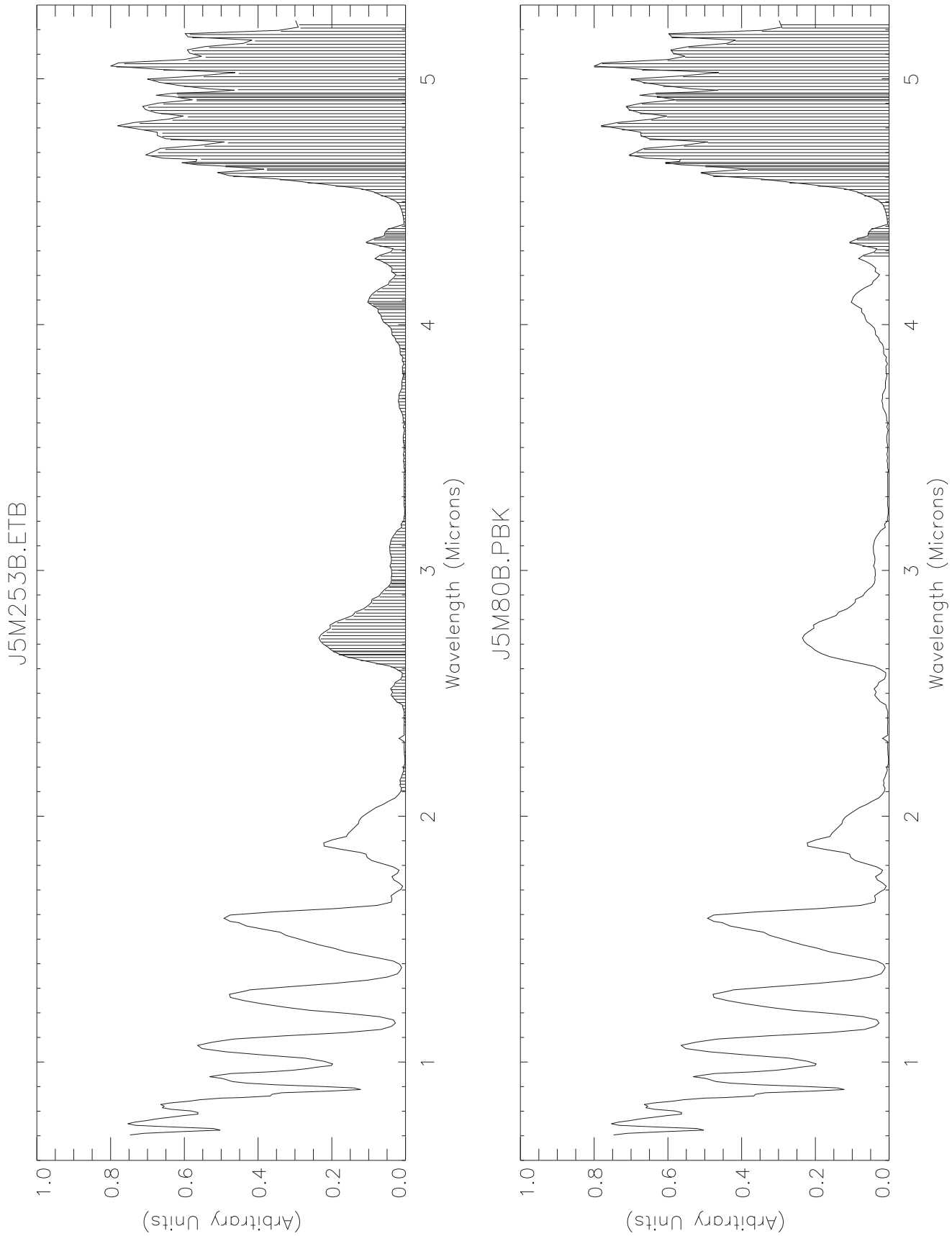
1
2
3
4
5
Wavelength (Microns)


J5M253B.ETB
J5M80B.PBK
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Wavelength (Microns)
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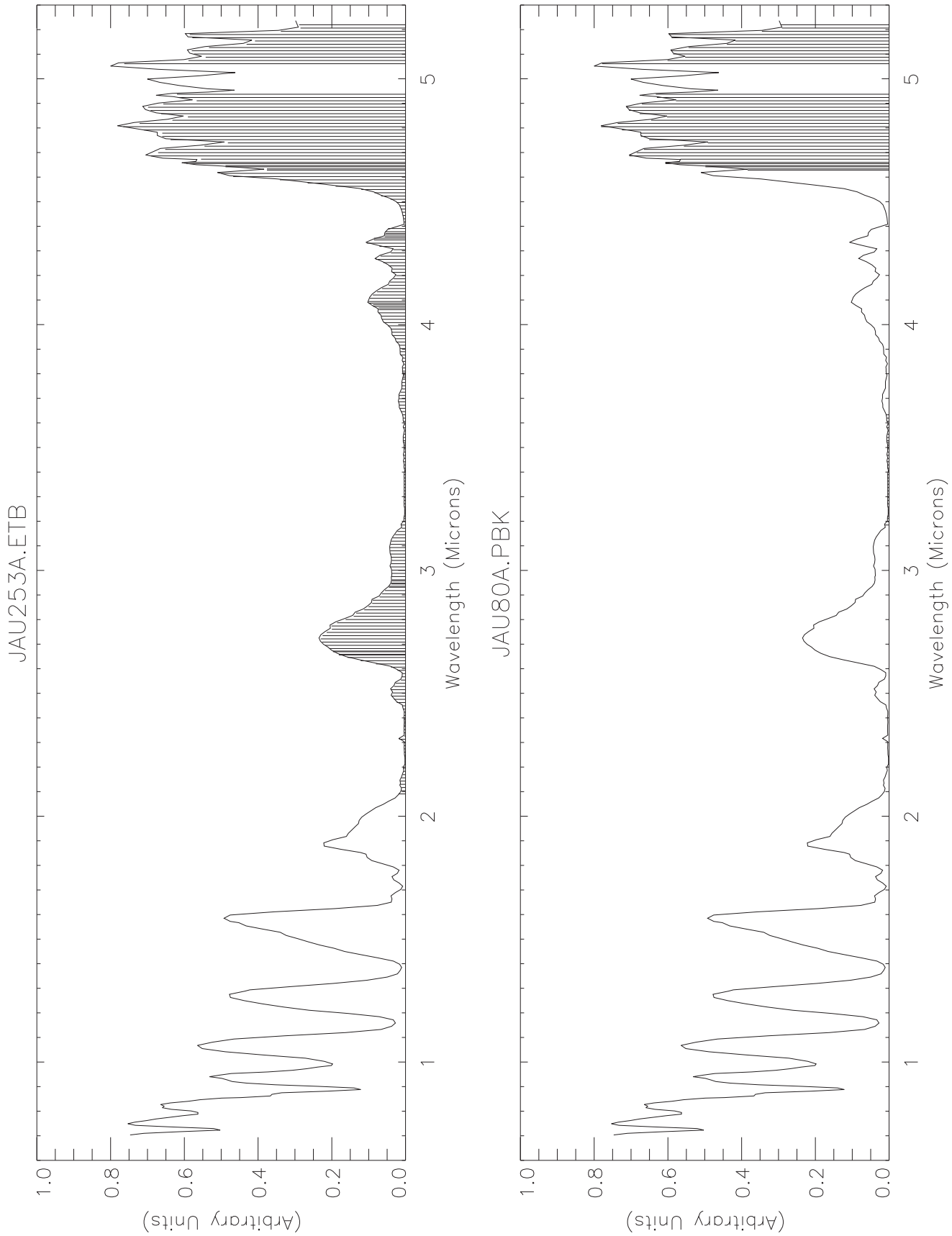
0.6
0.8
1.0
1
2
3
4
5


JAU253A.ETB
JAU80A.PBK
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Wavelength (Microns)
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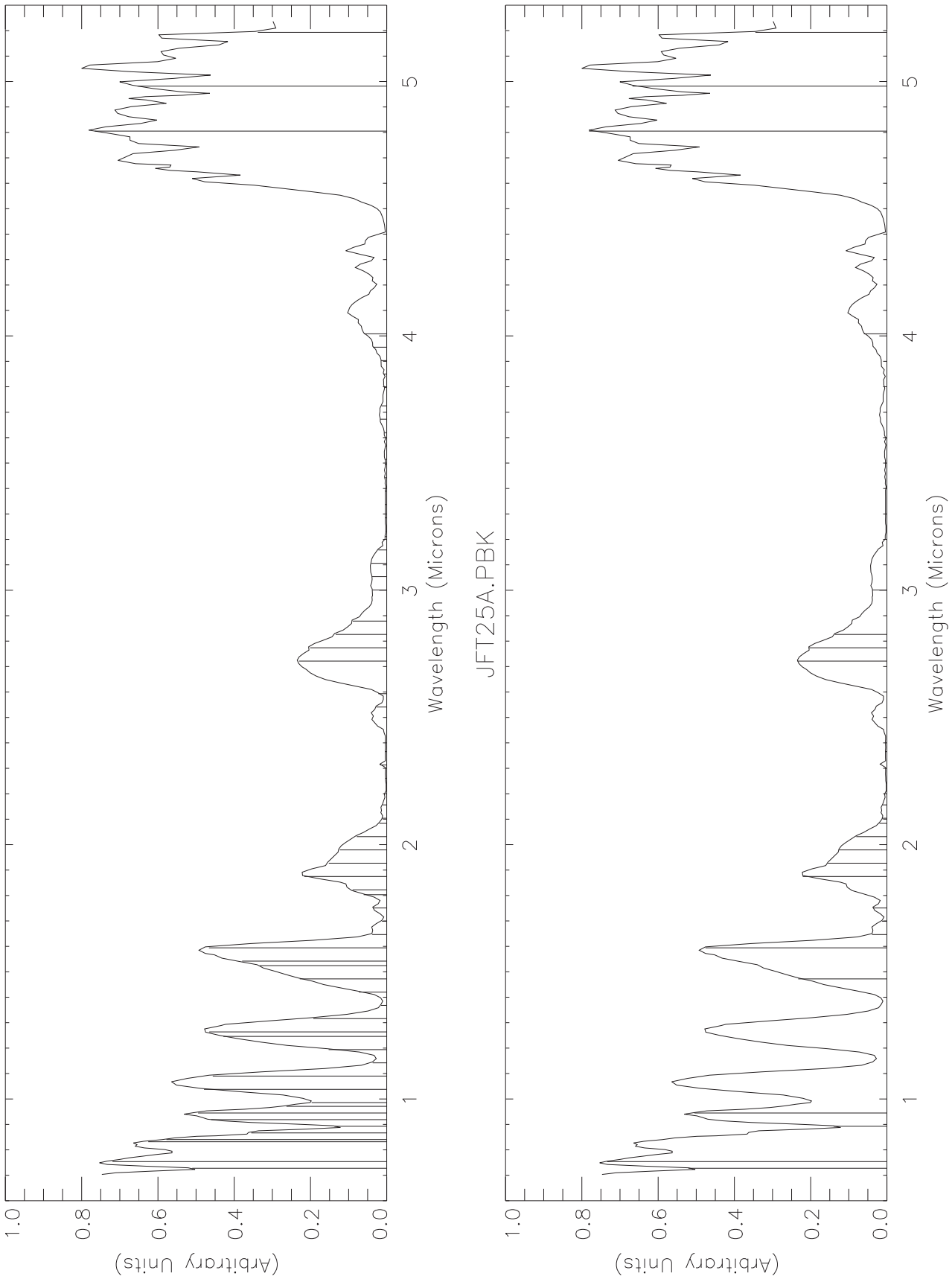
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68C.ETB
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0.4
0.2
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1
2
3
4
5
Wavelength (Microns)
JFT25A.PBK
(Arbitrary Units)
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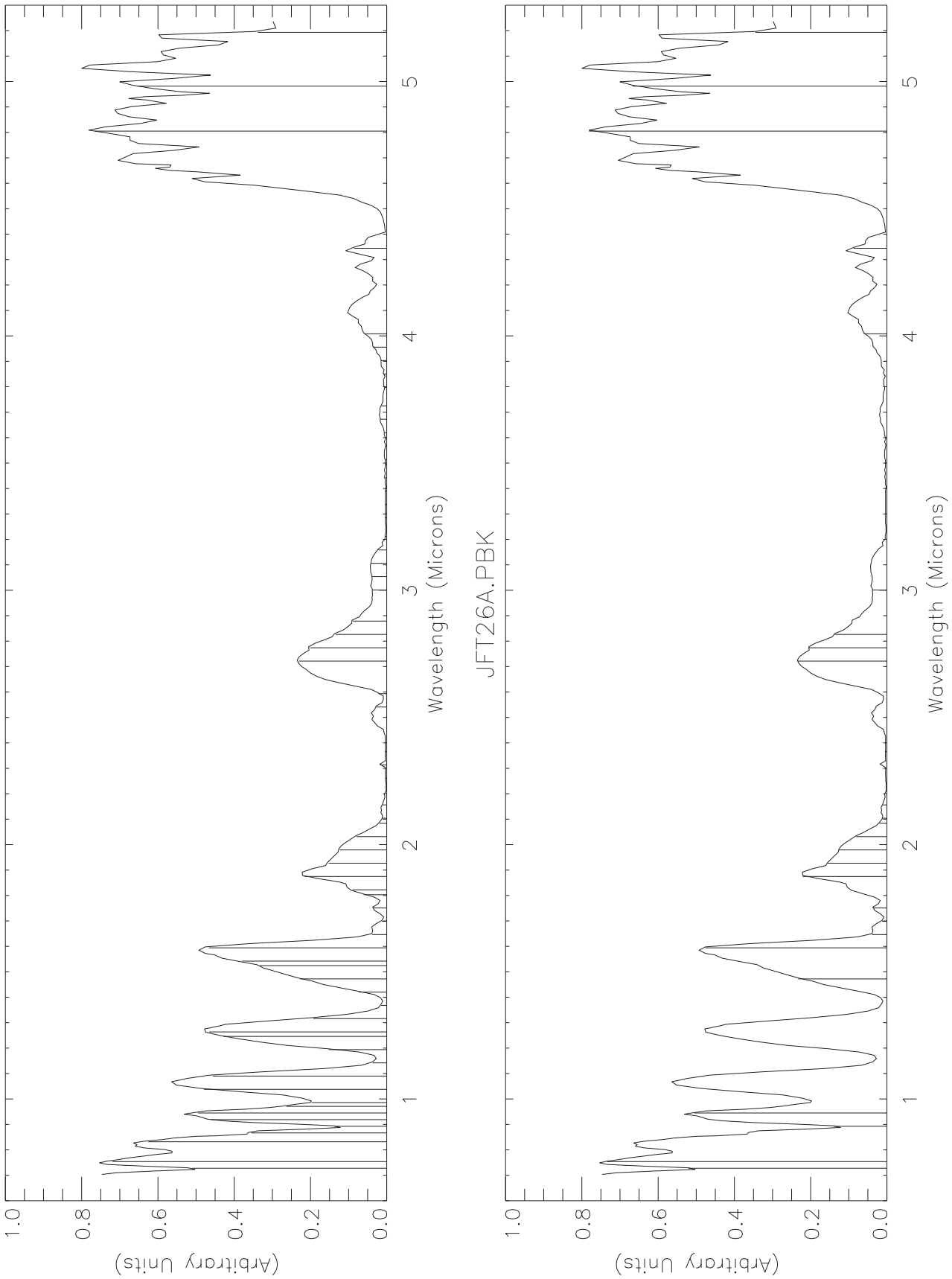
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JFT68D.ETB
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0.2
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1
2
3
4
5
Wavelength (Microns)
JFT26A.PBK
(Arbitrary Units)
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0.4
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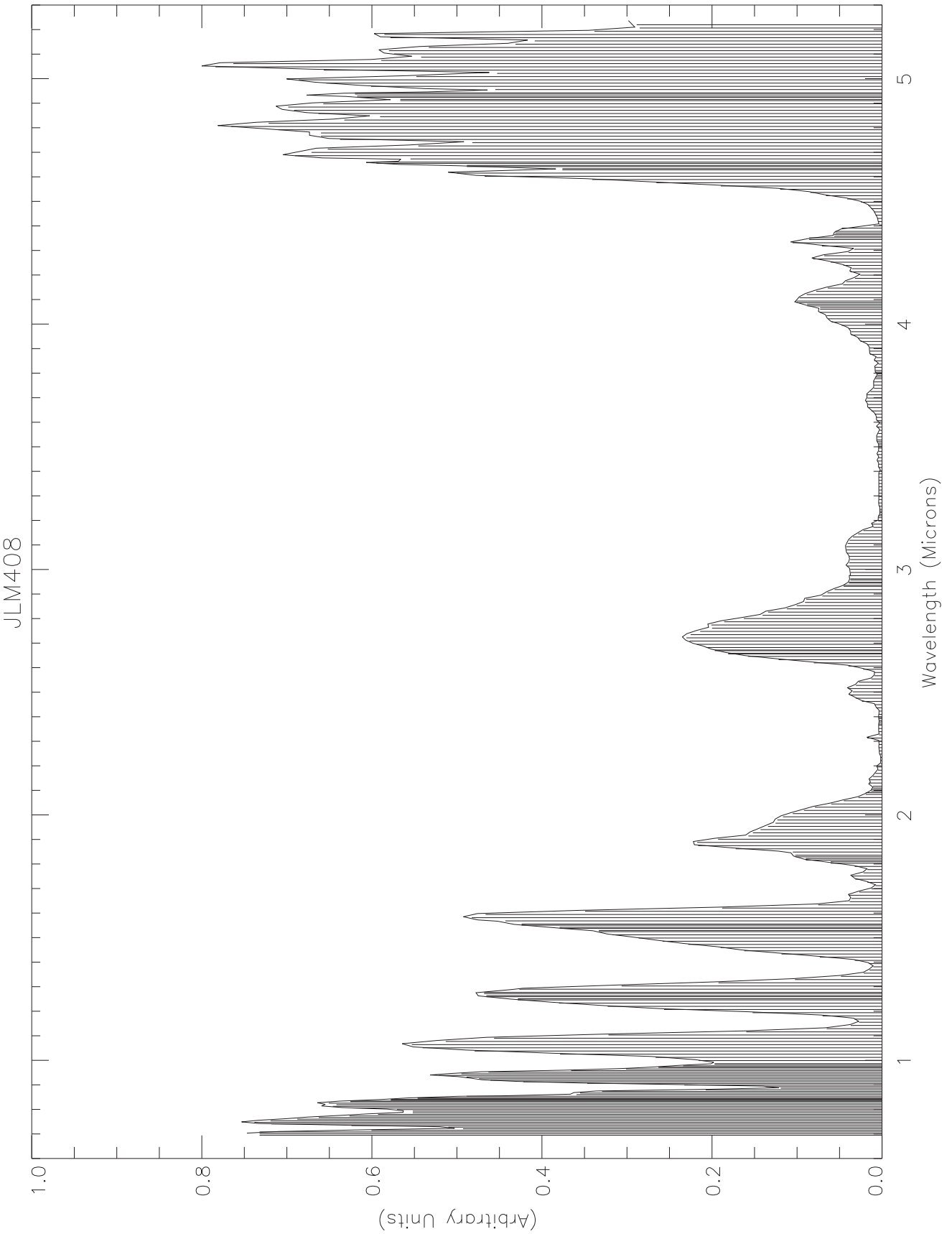
1
2
3
4
5
Wavelength (Microns)


JLM408
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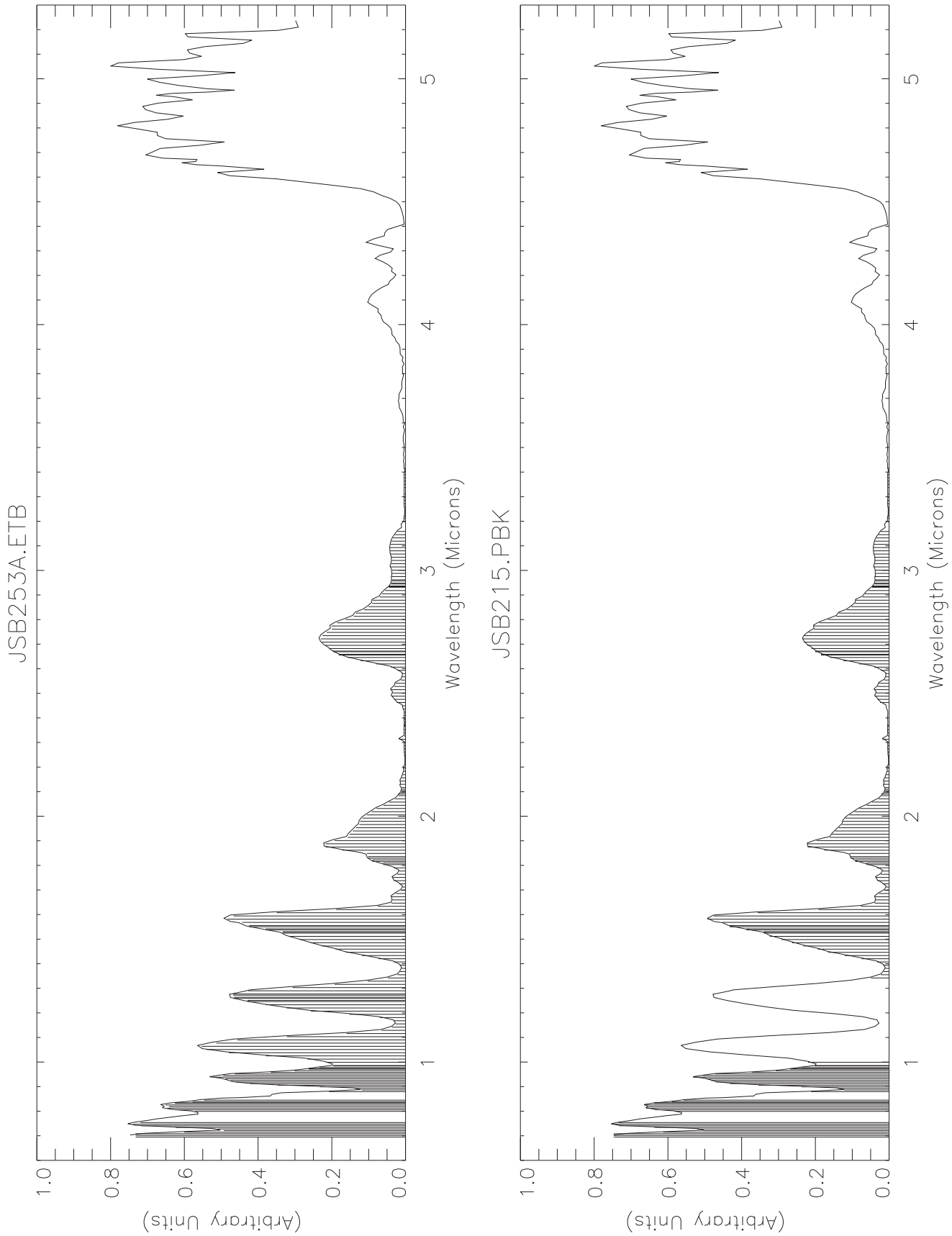
2
3
4
5
Wavelength (Microns)


JSB253A.ETB
JSB215.PBK
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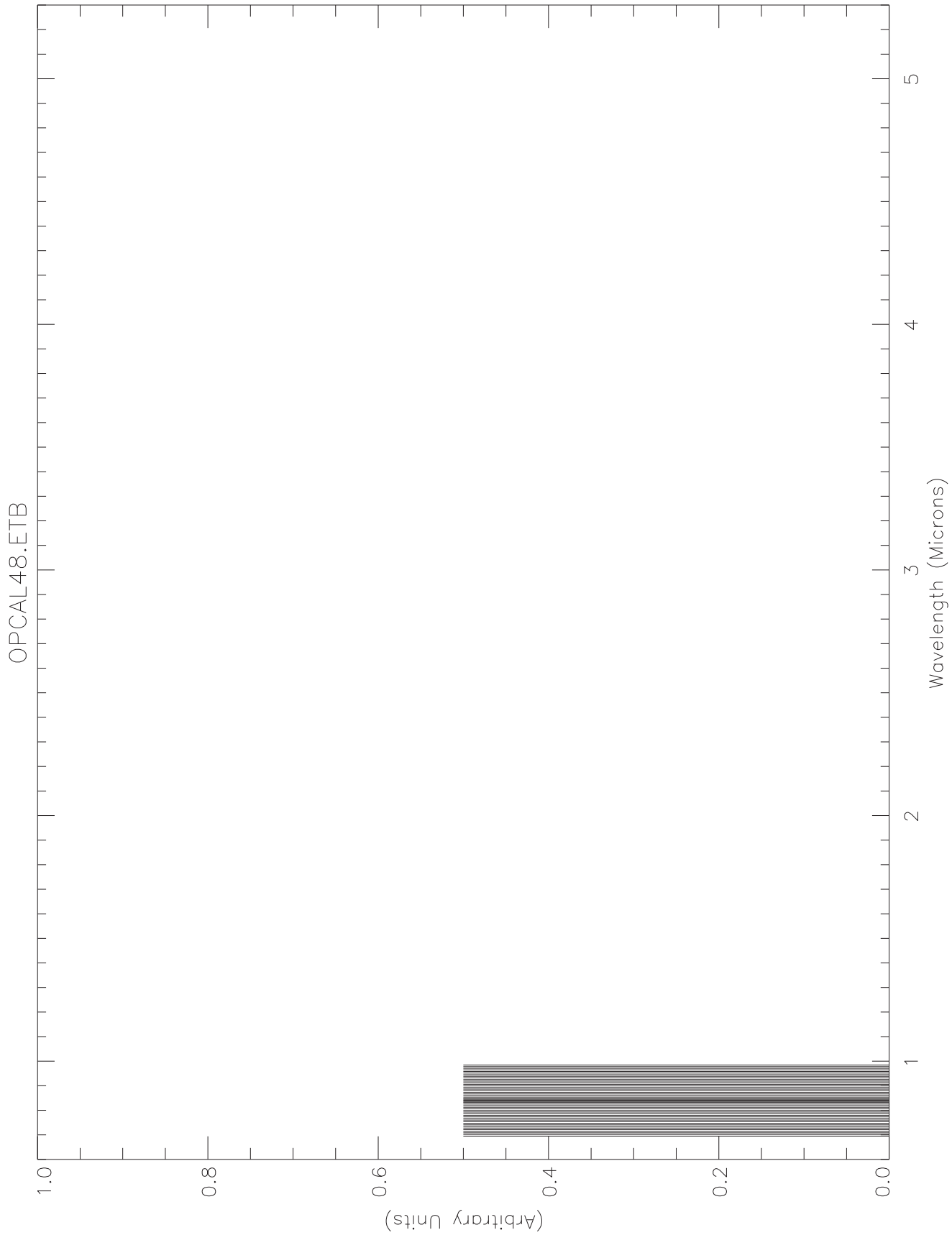
2
3
4
5
Wavelength (Microns)


OPCAL48.ETB
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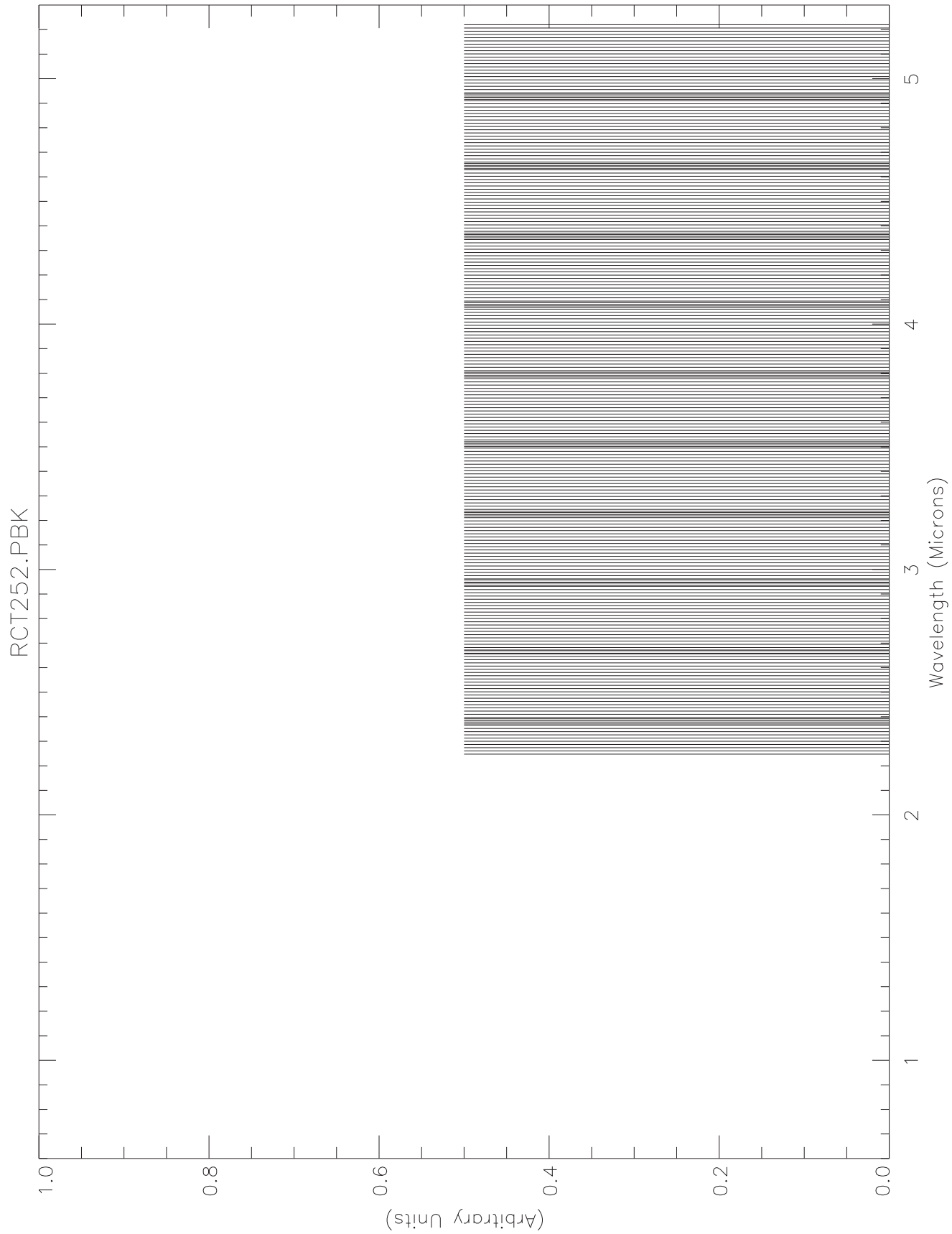
5
Wavelength (Microns)


RCT252.PBK
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2
3
4
5
Wavelength (Microns)


RFM102.PBK
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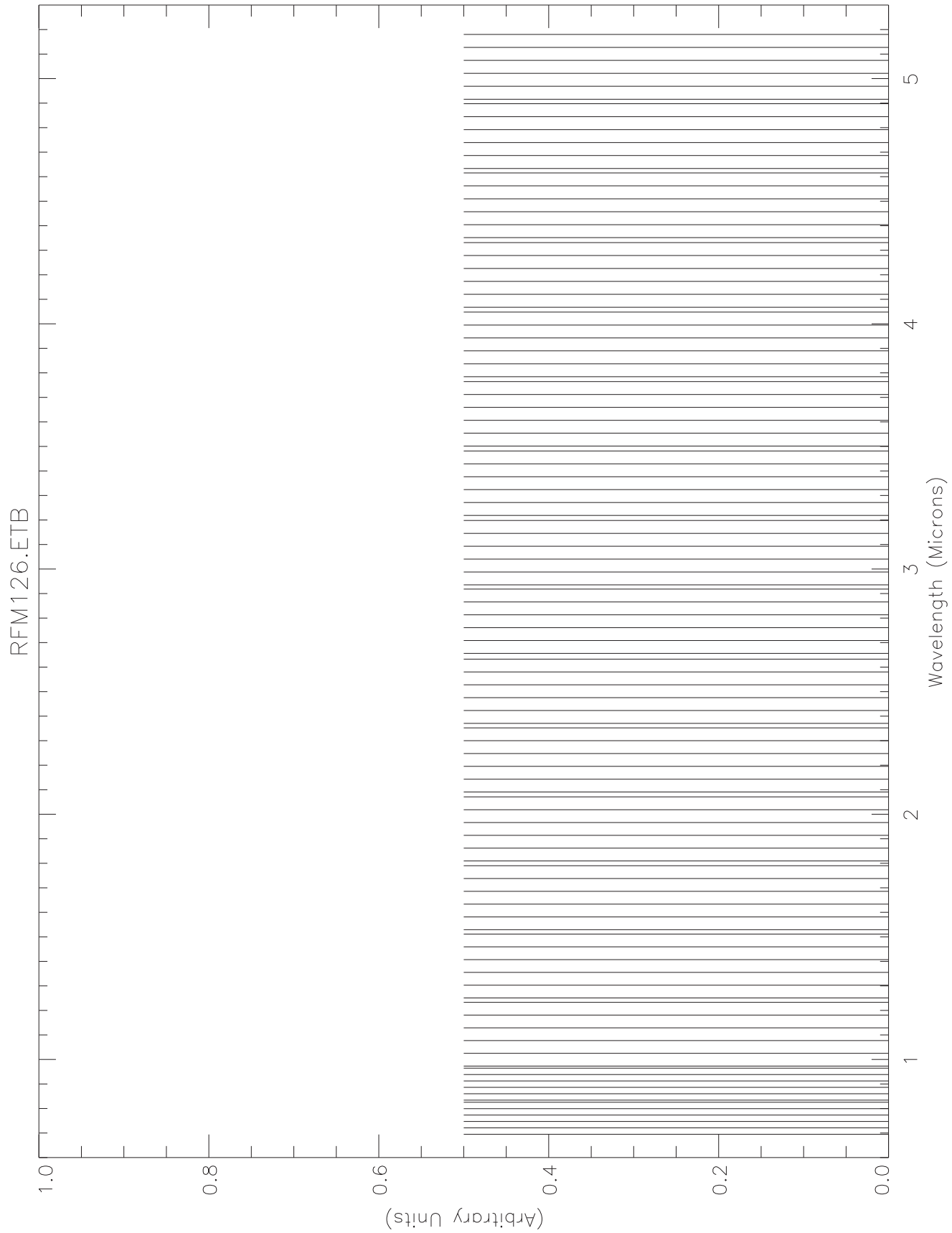
2
3
4
5
Wavelength (Microns)


RFM126.ETB
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0.6
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0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


RFM96.PBK
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)

Chapter 7 - Data Return

Contents

Introduction to Chapter 7

This chapter is a report on the NIMS data return for the C3 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the C3 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 C3 orbit was the second 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. Five software reloads were inserted into the C3 command sequence to protect as many observations as possible. The processor halted twice during the C3 Encounter. The reloads did manage to save some observations, but the outbound observations were inadequately protected by reloads and were lost due to an untimely halt just after a reload. The software halts were detected by monitoring the SCLK values returned in the NIMS engineering telemetry.

In C3, five software reloads were inserted into the encounter timeline, but NIMS was still halted for almost 2 days (See the orbit plot on page 3 for the timing of the reloads). From this loss we learned that we need to insert many reloads into the encounter timeline to protect as many NIMS observations as possible.

Also, Detector 8 failed unexpectedly during C3. It has never recovered.

The plots on pages 3 and 4 show the geometry of the NIMS C3 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 and 6 summarize the NIMS C3 data return.

The text on page 7 gives a 'recap' of the C3 playback events which affected NIMS data return.

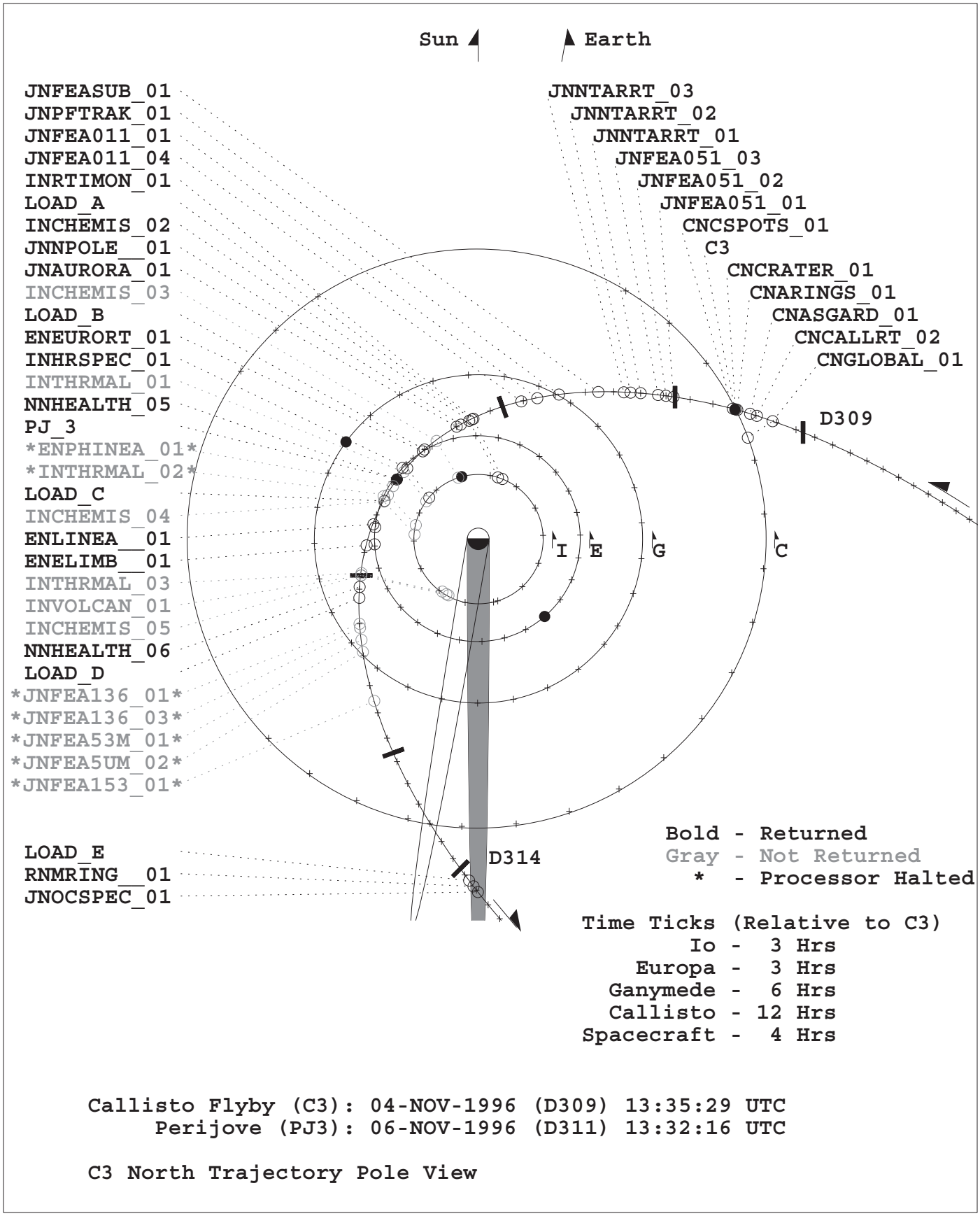
A Timeline of C3 playback events is on pages 7 and 8.

The text on pages 9 to 11 describes the C3 NIMS Anomalies, both Processor Halts and Detector 8 failure.

The text on pages 12 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 13 and 14.

The text on page 15 is a guide to understanding the NIMS MASK.

NIMS C3 OBSERVATIONS



Callisto Flyby (C3): 04-NOV-1996 (D309) 13:35:29 UTC
Perijove (PJ3): 06-NOV-1996 (D311) 13:32:16 UTC

C3 North Trajectory Pole View

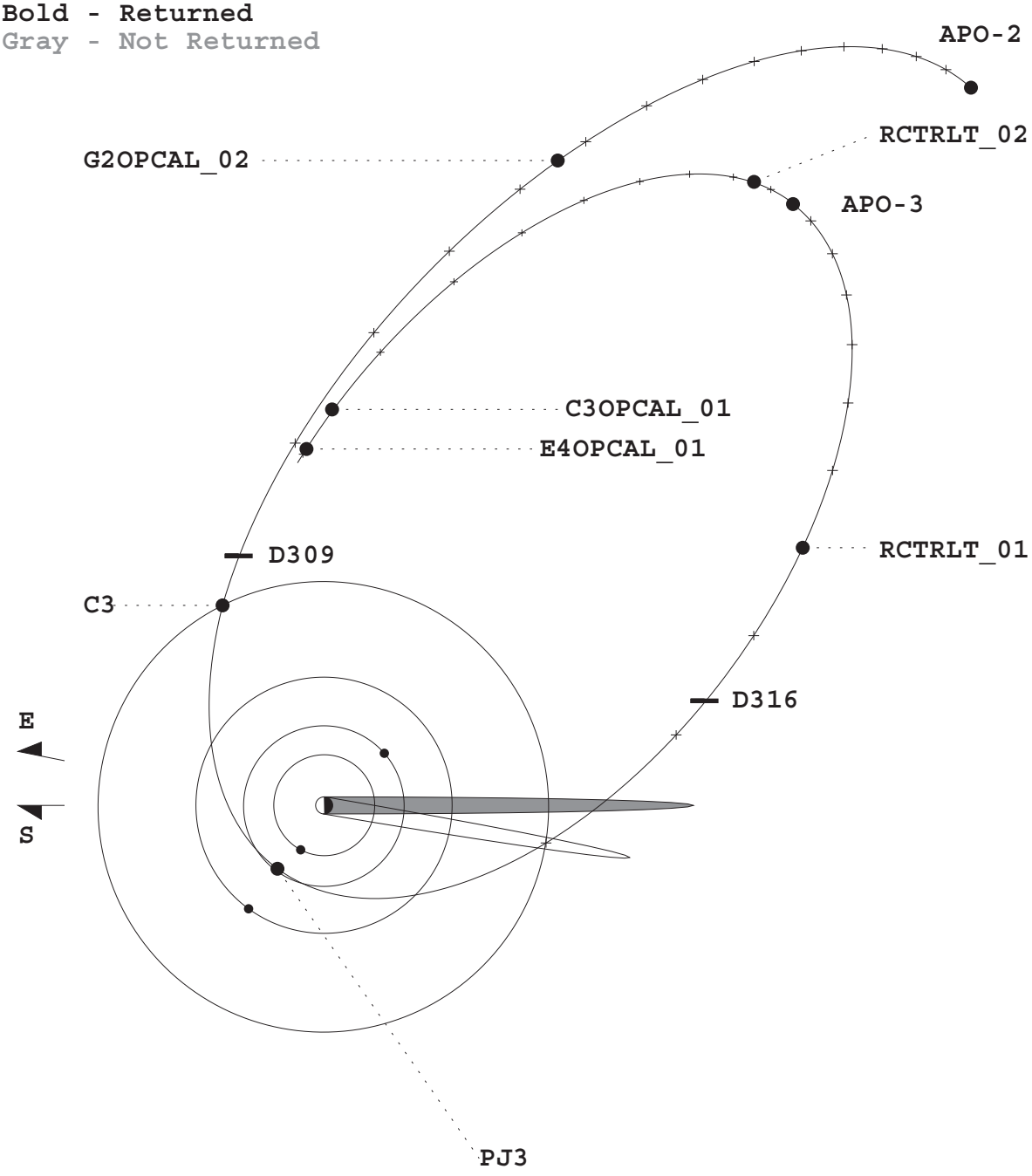
NIMS - FEL - 02/20/98

NIMS C3 CALIBRATIONS

Callisto Flyby (C3): 04-NOV-1996 (D309) 13:35:29 UTC
Perijove (PJ3): 06-NOV-1996 (D311) 13:32:16 UTC

Time Ticks (Relative to C3)
Spacecraft - 2 Days

Bold - Returned
Gray - Not Returned



C3 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS C3 DATA RETURN

Activity ID	Observation Title	Mode	Gain	Record Format	NIMS Edit Table	NIMS PB Table	Grating Start	Grating Offset
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C3CNGLOBAL01-	CALLISTO GLOBAL MOSAIC	LM	4	LPU	CLM245	CLM204	0	4
C3CNGLOBAL01-	CALLISTO GLOBAL MOSAIC	LM	4	LPU	CLM245	CLM204	0	4
C3CNCALLRT02-	Callisto Real Time Obs.	LM	4	R/T	CLM408		0	4
C3CNASGARD01-	ASGARD BASIN COVERAGE	FM	4	LPU	CFM126	CFM102	0	4
C3CNARINGS01-	CALLISTO MULTI-RING STRUCTURE COVERAGE	LM	4	LPU	CLM245	CLM204	0	4
C3CNCRATER01-	BURR - CENTRAL PIT CRATER	SM	4	MPW	CSM119	CSM102	1	4
C3CNCSPOTS01-	CALLISTO BRIGHT SPOTS	FM	4	MPW	CFM221	CFM103	0	4
C3JNFEA05101-	JUPITER CAMPAIGN FEATURE 51 DEG PART 1	SM	2	LPU	JFT68C	JFT25A	1	4
C3JNFEA05102-	Jupiter Campaign Feature 53 dgrs. part 2	SM	2	LPU	JFT68C	JFT25A	1	4
C3JNFEA05103-	Jupiter Campaign Feature 53 dgrs. part 3	SM	2	LPU	JFT68C	JFT25A	1	4
C3JNNTARRT01+	Jupiter NIMS TAR Real Time Obs. No. 1	LM	2	R/T	JLM408		0	4
C3JNNTARRT02+	Jupiter NIMS TAR Real Time Obs. No. 2	LM	2	R/T	JLM408		0	4
C3JNNTARRT03+	Jupiter NIMS TAR Real Time Obs. No. 3	LM	2	R/T	JLM408		0	4
C3JNFEASUB01-	Jupiter Campaign Feature Sub-Spectra	LM	4	LPU	JSB253A	JSB215	0	4
C3JNPFTRAK01-	Jupiter Partial Feature Track part 1	SM	2	LPU	JFT68D	JFT26A	1	4
C3JNFEA01101-	Jupiter Campaign Feature 18 dgrs. part 1	SM	2	LPU	JFT68C	JFT25A	1	4
C3JNFEA01104-	Jupiter Campaign Feature 18 dgrs. part 4	SM	2	LPU	JFT68C	JFT25A	1	4
C3INRTIMON01-	Io Real Time Monitoring	XM	2	R/T	IXM8RT		21	4
C3INCHEMIS02-	MONITORING OF IO'S DAYSIDE	LM	2	LPU	ILM245	ILM102	0	4
C3JNNPOLE 01-	Jupiter North Pole Map #1	SM	2	LPU	JFT68D	JFT26A	1	4
C3JNAURORA01-	Jupiter Aurora	LM	2	LPU	JAU253A	JAU80A	0	4
C3ENEURORT01-	Europa Real Time Observation	LM	2	R/T	ELM408		0	4
C3INHRSPEC01-	HIGH SPATIAL & SPECTRAL OBS. OF IO	LM	2	MPW	ILM442	ILM408	0	4
C3INHRSPEC01-	HIGH SPATIAL & SPECTRAL OBS. OF IO	LM	2	MPW	ILM442	ILM408	0	4
C3NNHEALTH05-	NIMS Real Time Health Obs No. 5	LM	2	R/T	RT003		0	4
C3ENLINEA 01-	EUROPA LINEA REGION	LM	2	LPU	ELM245	ELM204	0	4
C3ENELIMB 01-	EUROPA OCCULTATION	FM	2	LPU	EFM126	EFM102	0	4
C3NNHEALTH06-	NIMS Real Time Health Obs No. 6	LM	2	R/T	RT003		0	4
C3RNMRING 01-	MAIN RING OBSERVATION	FM	4	LPU	C3RFM126	C3RFM102	0	4
C3RNMRING 01-	MAIN RING OBSERVATION	FM	4	LPU	C3RFM126	C3RFM96	0	4
C3JNOCSPEC01-	Jupiter Occultation Spectrum	LM	4	LPU	J35160	J35160	0	4
C3NNRCTRLT01-	RCT Calibration No. 1	LM	1	R/T	RCT252		0	4
C3NNRCTRLT02-	RCT Calibration No. 2	LM	1	R/T	RCT252		0	4
C3NNNOPCAL01-	OPCAL No. 1	LM	4	R/T	OPCAL48		0	4

J. Shirley

NIMS C3 DATA RETURN

ACTID	Obs Cost Tics	Wave-lengths ret	Record Time (sec)	PB Time (sec)	Total Bits of Tape BOT (Mbits)	Sel Bits of Tape (SBOT)	Mode cycle time (sec)	Thold	Comp	Total BTG Mbits (4% ohead)	Data Reduct Factor (SBOT/BTG)	Pass
C3CNGLOBAL01-	528.1656	204	2249	736	13.87	4.54	8.667	2	1.75	2.059	2.20	1
C3CNGLOBAL01-	528.1656	204	2249	625	13.87	3.86	8.667	2	2.07	1.478	2.61	2
C3CNGLOBAL01-	528.1656	204	2249	647	13.87	3.99	8.667	2	1.91	1.658	2.41	2
C3CNCALLRT01-		408										
C3CNASGARD01-	414.4816	102	1764	1123	10.88	6.93	4.333	2	1.58	3.480	1.99	1
C3CNARINGS01-	157.3448	204	667	663	4.11	4.09	8.667	2	1.58	2.055	1.99	1
C3CNCRATER01-	194.6002	102	218	217	2.52	2.51	2.330	2	1.48	1.335	1.88	1
C3CNCSPOTS01-	324.6774	103	366	121	4.23	1.40	4.333	0	2.02	0.296	4.72	2
C3JNFEA05101-	26.0808	25	107	105	0.66	0.65	2.330	0	2.26	0.104	6.25	1
C3JNFEA05102-	26.0808	25	107	105	0.66	0.65	2.330	0	1.94	0.121	5.36	1
C3JNFEA05103-	26.0808	25	107	105	0.66	0.65	2.330	0	2.31	0.101	6.38	1
C3JNNTARRT01+		408										
C3JNNTARRT02+		408										
C3JNNTARRT03+		408										
C3JNFEASUB01-	82.8056	215	349	339	2.15	2.09	8.667	0	2.07	0.844	2.47	1
C3JNPFTRAK01-	99.2136	26	419	409	2.58	2.52	2.330	0	1.84	0.516	4.89	1
C3JNFEA01101-	207.0376	25	879	399	5.42	2.46	2.330	0	1.92	0.464	5.31	1
C3JNFEA01104-	97.5728	25	412	402	2.54	2.48	2.330	0	1.53	0.586	4.23	2
C3INRTIMON01-		8										
C3INCHEMIS02-	59.6000	102	250	239	1.54	1.47	8.667	2	1.21	0.484	3.05	2
C3JNNPOLE 01-	245.9480	26	1045	975	6.45	6.01	2.330	0	1.30	1.741	3.45	1
C3JNAURORA01-	707.9504	80	3016	2824	18.60	17.42	8.667	0	1.08	5.020	3.47	2
C3ENEURORT01-		408										
C3INHRSPEC01-	836.1972	408	948	444	10.96	5.13	8.667	2	1.39	3.128	1.64	1
C3INHRSPEC01-	836.1972	408	948	503	10.96	5.81	8.667	2	1.26	3.909	1.49	2
C3NNHEALTH05-		3										
C3ENLINEA01-	760.9248	204	3242	278	20.00	1.71	8.667	0	1.35	1.008	1.70	1
C3ENELIMB01-	222.9768	102	947	564	5.84	3.48	4.333	0	1.26	2.192	1.59	1
C3NNHEALTH06-		3										
C3RNMRING01-	152.4224	102	646	182	3.98	1.12	4.333	0	2.07	0.431	2.61	1
C3RNMRING01-	152.4224	96	646	360	3.98	2.22	4.333	0,2	2.70	0.614	3.61	2
C3JNOCSPEC01-	87.9624	160	371	300	2.29	1.85	8.667	0	1.60	0.720	2.57	1
C3NNRCTRLT01-		252										
C3NNRCTRLT02-		253										
C3NNNOPCAL01-		48										
Total				Alloc.			Allocation	>	33.414	34.344	< Model	

J. Shirley

Recap of C3 Playback Events

Considerably more NIMS data were recorded to tape during C3 than could be returned to Earth within the downlink bit allocation of about 34 Megabits. In particular, only 9% of the Europa C3ENLINEA01 observation could be played back, and of 9 recorded Io observations, only 2 could be returned. Since Callisto was the primary target for C3, Europa received limited playback resources. For Io, when actual compression estimates derived from G2 experience were entered into the models, predicted downlink requirements exceeded the available amount by more than 10 Mb. As a result only C3INHRSPEC01 and C3INCHEMIS02 could be returned.

Radiation "hits" resulted in two NIMS processor halts in C3, the first occurring shortly after Jupiter closest approach on D311, and the second occurring just after the SCITURN on D312. The first halt caused the loss of the two observations C3ENPHINEA01 and C3INTHRMAL02. The subsequent software reload restarted NIMS, saving the 7 ensuing observations. The second halt caused the loss of the 5 NIMS outbound high-phase-angle Jupiter observations. NIMS remained halted until the fifth reload on D314 just before solar occultation, which restarted NIMS and saved the last two observations.

C3 was the first orbit in which multiple passes over the tape were planned as a routine playback strategy. Playback of several observations was split between passes in order to reduce playback inefficiency and the generation of downlink fill packets. As one result, 3 Rims of the Rings observation C3RNMRING01 were specified for pass 1 playback to obtain information on compression performance, with the balance coming down in pass 2.

The entire C3 playback period occupied only about 5 weeks. Near the end of playback, in early December, the Project took extraordinary measures to ensure the return of an SSI "Wedges" observation, including the appropriation of 0.4 Mb of NIMS downlink allocation. This action, coupled with uncertainties in compression performance for the later NIMS observations, eliminated the return of the planned pass 2 portion of C3ENLINEA01.

C3 Playback Events Timeline (10-30-96 to 12-15-96)

10-30-96: Use of newly available Io compression values results in deletion of 8 of 9 Io observations from the playback plan due to insufficient downlink allocation.

11-02-96: C3 encounter begins.

11-06-96: First radiation hit halts NIMS instrument near perijove.

11-07-96: Second radiation hit halts NIMS instrument before recording of Jupiter high-phase observations begins.

C3 Playback Events Timeline (10-30-96 to 12-15-96)

11-09-96: NIMS fifth software reload resets instrument for observations C3RNMRING01, C3JNOCSPEC01, which are recorded as planned.

11-11-96: Playback initiated.

11-12-96: First playback table update. The downlink bits that were allocated to the lost observations are re-allocated. The 3.4 Mb representing the Jupiter high-phase observations go to increase wavelength coverage for C3FEASUB01 from 80 to 215 wavelengths and C3JNAURORA01 from 65 to 130 wavelengths.

11-20-96: Second playback table update. High-resolution Callisto observations compressed at 1.6, significantly lower than predicted (2.1). This consumes 2 Mb more than planned, forcing cuts in later playback of C3CNGLOBAL01. Pass 2 portions of C3CNASGARD01, C3CNCSPOTS01 are deleted from plan. A contribution to SWG from AWG (atmospheres) enables reinstatement of C3INCHEMIS02.

11-26-96: Playback performance dictates reduction in C3JNAURORA01 wavelengths from 130 to 90, and permits reinstatement of C3CNCSPOTS01.

12-02-96: Very poor SSI Io compression puts playback 36 hours behind schedule.

12-03-96: Project appropriates .4 Mb from NIMS to give to SSI. Pass 2 begins. C3JNAURORA01 wavelengths cut from 90 to 80. Wavelengths increased from 50-103 for C3CNCSPOTS01, at corresponding cost in reduced spatial coverage. Two thirds of pass 2 Rings observation thresholded to save bits.

12-05-96: Playback continues to run behind schedule. Plans to terminate playback of C3INHRSPEC01 early are suggested but not implemented (again, in order to safeguard SSI Wedges observation).

12-06-96: Project decides to eliminate remaining pass 2 part of C3ENLINEA01 to ensure return of Wedges. This would amount to 0.8 Mb.

12-08-96: C3JNAURORA01 compresses very poorly (1.07) due to high noise level during recording. This requires 1.5 Mb more downlink bits than planned, putting playback behind schedule.

12-15-96: C3 playback ends. All planned SSI and NIMS data are returned successfully before playback terminates.

NIMS Anomaly Report - C3 Sequence

Two types of anomalies occurred during the C3 Encounter: The NIMS processor halted twice and NIMS detector 8 failed. The processor Halts were recoverable, but the detector 8 failure turned out to be permanent.

Processor Halts

Facts:

0. Between the start of the C3 Encounter and the first Halt NIMS returned 7 realtime observations and successfully reloaded from CDS twice. The NIMS SCLK engineering channels were continuously monitored for detecting a processor halt.

1. A processor halt was detected at SCLK 03686026 from the analysis of the NIMS SCLK engineering telemetry channels S-1931 and S-1932. This occurred about six minutes after C3 perijove. A third reload occurred about 2 hours and 20 minutes later. Two more 'good' SCLK values were received, followed by a fourth reload which occurred about 13 hours after perijove. A second Halt was detected at SCLK 03686824, about 40 minutes after the reload. The NIMS processor remained halted for almost 2 days until the fifth reload. A table of the NIMS engineering SCLK values near the time of the Halts follows (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
03685915	03685917.43	1996-311T11:49:02.224	1996-311T12:55:03.112
03686026	03686135.05	1996-311T15:29:02.216	1996-311T16:36:28.833
03686350	03686352.58	1996-311T19:09:02.208	1996-311T20:30:29.153
03686733	03686735.05	1996-312T01:35:42.194	1996-312T02:22:43.234
03686824	03686952.58	1996-312T05:15:42.186	1996-312T06:24:27.983
03686824	03687117.43	1996-312T08:02:22.179	1996-312T09:02:16.588
03686824	03687150.40	1996-312T08:35:42.178	1996-312T09:29:13.186
03686824	03687335.05	1996-312T11:42:22.171	1996-312T14:59:17.097
03686824	03687552.58	1996-312T15:22:22.163	1996-312T16:07:05.016
03686824	03687717.43	1996-312T18:09:02.157	1996-312T21:48:06.895
03686824	03687750.40	1996-312T18:42:22.156	1996-312T21:48:29.495
03686824	03688152.58	1996-313T01:29:02.141	1996-313T02:22:42.117
03686824	03688317.43	1996-313T04:15:42.135	1996-313T05:29:55.216
03686824	03688350.40	1996-313T04:49:02.133	1996-313T05:57:14.436
03686824	03688535.05	1996-313T07:55:42.126	1996-313T09:03:44.569
03686824	03688752.58	1996-313T11:35:42.118	1996-313T20:47:32.418
03686824	03689352.58	1996-313T21:42:22.096	1996-313T22:49:48.477
03690148	03690150.40	1996-314T11:09:02.066	1996-314T14:54:04.418
03690333	03690335.05	1996-314T14:15:42.059	1996-314T15:21:16.217

2. CheckSums of NIMS RAM locations 1000 to 14BC were returned just before each reload.

3. The two NIMS observations between the times of the first Halt and the third reload which were lost are C3ENPHINEA01 and C3INTHRMAL02. The five NIMS observations between the times of the second Halt and the fifth reload which were lost are C3JNFEA13601, C3JNFEA13603, C3JNFEA53M01, C3JNFEA5UM02 and C3JNFEA15301.

Timing:

SCLK	Comments
03603020:00	C3 Perijove
03686135.05	Anomalous 03686026 SCLK reported
03686069:00	Start of C3ENPHINEA01
03686081:00	End of C3ENPHINEA01
03686119:00	Start of C3INTHRMAL02
03686132:00	End of C3INTHRMAL02
03686159:06	Start of NIMS CDS Reload #3
03686352.58	Good SCLK 03686350 reported
03686735.05	Good SCLK 03686733 reported
03686784:06	Start of NIMS CDS Reload #4
03686952.58	Anomalous 03686824 SCLK reported
03686960:00	Start of C3JNFEA13601
03686976:00	End of C3JNFEA13601
03686990:00	Start of C3JNFEA13603
03686996:00	End of C3JNFEA13603
03687082:00	Start of C3JNFEA53M01
03687098:00	End of C3JNFEA53M01
03687117.43	Anomalous 03686824 SCLK reported
03687150.40	Anomalous 03686824 SCLK reported
03687176:00	Start of C3JNFEA5UM02
03687186:00	End of C3JNFEA5UM02
03687335.05	Anomalous 03686824 SCLK reported
03687552.58	Anomalous 03686824 SCLK reported
03687569:00	Start of C3JNFEA15301
03687594:00	End of C3JNFEA15301
03687717.43	Anomalous 03686824 SCLK reported
03687750.40	Anomalous 03686824 SCLK reported
03688152.58	Anomalous 03686824 SCLK reported
03688317.43	Anomalous 03686824 SCLK reported
03688350.40	Anomalous 03686824 SCLK reported
03688535.05	Anomalous 03686824 SCLK reported
03688752.58	Anomalous 03686824 SCLK reported
03689352.58	Anomalous 03686824 SCLK reported
03689668:06	Start of NIMS CDS Reload #5
03690150.40	Good SCLK 03690148 reported

NIMS Anomaly Report - C3 Sequence

Summary:

1. Two NIMS processor halts occurred during the C3 Encounter.

2. Continous monitoring of the NIMS SCLK channels led to a rapid identification that processor halts had occurred.

3. The 5 software reloads from CDS greatly lessened the potentially disastrous effects of the C3 Halts and protected most of the NIMS observations in the encounter.

4. Checksums of NIMS memory space verified that the reloads had executed properly.

5. 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.

6. The error avoidance measures applied to the C3 Encounter as determined in the analysis of the G1 and G2 processor halts (points 2, 3, 4 and 5 above) were shown to be the proper response for dealing with the inevitable occurrence of radiation-induced processor halts.

7. The loss of the C3 outbound observations showed that more NIMS reloads are needed while the spacecraft is inside Ganymede's orbit.

Detector 8 Failure

0. Detector 8 failed sometime during C3 outbound. Its response is random, independent of what NIMS is looking at.

1. Detector 8 was first observed to have unusual behavior in the two C3 RealTime RCT calibrations. Detector 8 was also found to be 'bad' in the two occultation observations C3RNMRING_01 and C3JNOCSPEC01.

2. Detector 8 DN seems to vary randomly, bouncing between 0 and 1023.

3. Detector 8 DN values were inspected in earlier C3 data and no anomalous behavior observed.

4. It is not ascertainable whether Detector 8 failed abruptly or over a couple of days since 2 days of outbound NIMS data before the occultation data were lost due to a processor halt.

5. NIMS power was turned off for about 15 minutes and then turned back on near the end of C3 Cruise on D349 in an attempt to revive Detector 8. DN values from Detector 8 were then returned in the E4 OPCAL on D350 at the start of E4. Detector 8's behavior did not improve - the power cycle did not revive Detector 8. Detector 8 has not returned reasonable DN values since the C3 Encounter.

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.