NIMS GUIDE TO THE E11 ORBIT

Original: June 1997

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VERSION DATE: 981201

E11 Encounter starts 11/02/97, E11 Playback starts 11/09/97

Foreword to the Revised Edition

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

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

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

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

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

Acknowledgements

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

Foreword

This document serves as a guide to the E11 Orbit for the NIMS Team. The aim of this guide is to provide detailed information on the various NIMS E11 observations and calibrations. Also included in this document is background information on the E11 orbit. This guide was produced before the start of the E11 orbit. After analysis of the NIMS E11 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 E11 orbit. Chapter 2 gives an overview of the E11 orbit and summarizes the NIMS science objectives for the E11 orbit using tables, spreadsheets and timelines. Chapter 3 contains diagrams of various aspects of spacecraft geometry for the E11 orbit. Chapter 4 summarizes the NIMS E11 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 E11 orbit.

For more information on the E11 orbit, please refer to the Galileo Orbit Planning guide and the Galileo Orbit Activity Plan for the E11 Orbit. Both of these documents are produced by the Galileo Project.

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

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Chapter 1 - Introduction

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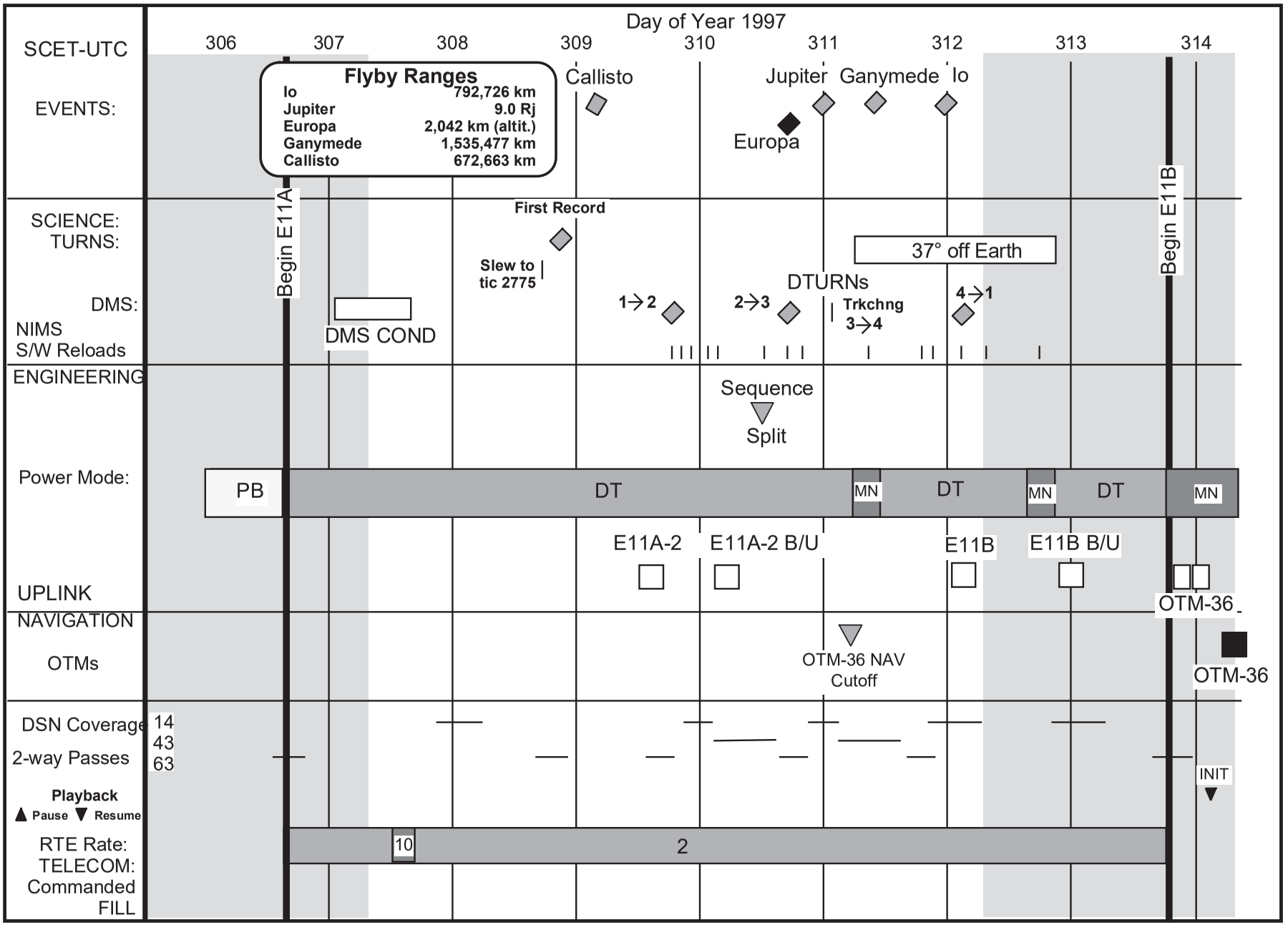
Introduction

This E11 orbit is the eleventh of eleven orbits in Galileo's Tour of the Jovian system. This orbit has a targetted satellite flyby of Europa. NIMS will make observations of Jupiter, Io, Europa, Ganymede and Callisto in this orbit. NIMS will also perform some calibrations in this orbit.

There are 13 autonomous reloads of the NIMS RAM code from CDS planned during the E11A encounter period with checksums of the NIMS RAM code before each reload. These reloads are in response to the on-going flight-anomalies where the NIMS RAM code takes some bit hits and halts the instrument during when the spacecraft is close to Jupiter. NIMS NIMS will also return realtime data on a daily basis during the E11A 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.

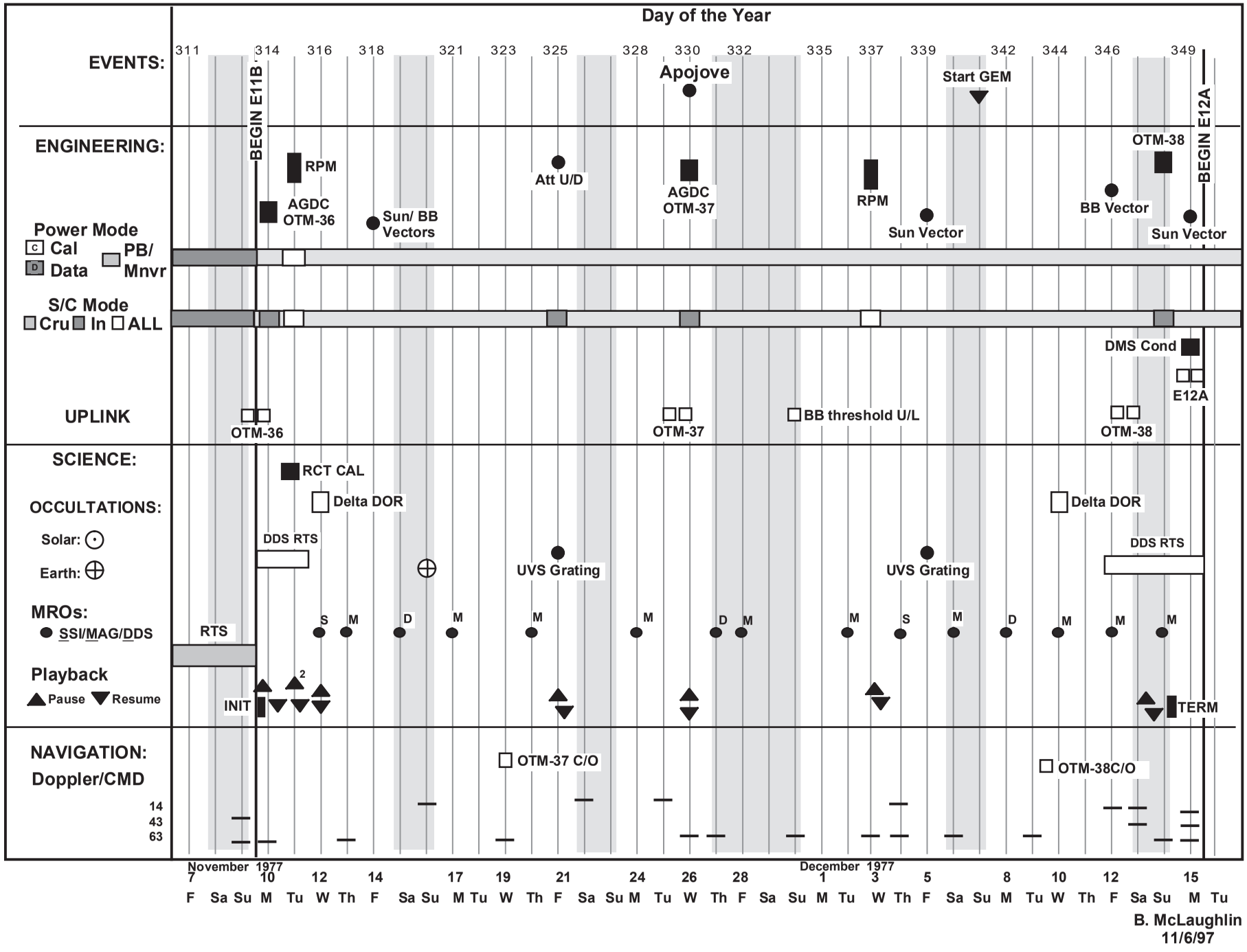
The E11 orbit is divided into 2 sequence loads: one Encounter Load (E11A) and one Orbital Cruise Load (E11B). The E11A load begins on D306 of 1997 (11/02/97) and ends on D313 of 1997 (11/09/97) This load contains the flybys of Jupiter, Europa, Io, Ganymede and Callisto. The Cruise Load E11B runs from D313 to D349. Playback of the recorded data takes place during the Cruise phase, E11B. A high-level overview timeline of the E11 orbit can be found on the following two pages.

E11A Sequence Overview (Version E11A)



P. Fieseler
10/28/97

E11B Overview



B. McLaughlin
11/6/97

Introduction

The following table lists the major events during E11, including NIMS Real Time observations, in UTC.

11/02/97	97-306/16:00:00	E11 Encounter Start
11/05/97	97-309/07:16:18	Callisto Closest Approach
11/05/97	97-309/19:31:23	NIMS RAM Reload 01
11/05/97	97-309/21:13:30	NIMS RAM Reload 02
11/05/97	97-309/23:36:04	NIMS RAM Reload 03
11/06/97	97-310/01:05:03	NIMS RAM Reload 04
11/06/97	97-310/02:14:49	NIMS RAM Reload 05
11/06/97	97-310/13:14:03	NIMS RAM Reload 06
11/06/97	97-310/13:39:20	NIMS R/T Jupiter Brown Barge
11/06/97	97-310/14:13:34	NIMS R/T Jupiter Brown Barge
11/06/97	97-310/17:59:11	NIMS RAM Reload 07
11/06/97	97-310/18:09:18	NIMS R/T Health 01
11/06/97	97-310/19:15:01	NIMS R/T Europa
11/06/97	97-310/20:31:52	Europa Closest Approach
11/06/97	97-310/20:36:55	NIMS R/T Europa
11/07/97	97-311/00:23:25	NIMS R/T Jupiter Brown Barge
11/07/97	97-311/00:41:37	Jupiter Closest Approach
11/07/97	97-311/12:49:37	NIMS RAM Reload 08
11/07/97	97-311/19:19:54	NIMS R/T Health 03
11/07/97	97-311/21:21:14	NIMS RAM Reload 09
11/07/97	97-311/23:45:49	Io Closest Approach
11/07/97	97-311/10:19:58	Ganymede Closest Approach
11/08/97	97-312/03:19:10	NIMS RAM Reload 10
11/08/97	97-312/04:47:08	NIMS RAM Reload 11
11/08/97	97-312/08:13:24	NIMS RAM Reload 12
11/08/97	97-312/18:24:07	NIMS RAM Reload 13
11/08/97	97-312/19:00:31	NIMS R/T Health 04
11/09/97	97-313/16:00:00	Start E11 Playback
11/10/97	97-314/11:59:32	NIMS R/T RCT CAL
11/10/97	97-314/11:59:32	NIMS R/T OPCAL
12/07/97	97-341/16:00:00	END E11 Playback

Chapter 2 - Orbit Overview

Contents

Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the E11 Orbit.

The text on pages 3 and 4 summarizes the NIMS science objectives for E11. The NIMS calibrations are discussed on page 4. Early data return and E11 playback are also discussed on page 4.

The table on pages 5 through 7 is a time-ordered listing of the NIMS Oapels for E11.

The plot on page 8 shows the geometry of the NIMS E11 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 E11 calibrations. The plot on page 12 shows the geometry of the NIMS RAM Reloads and MROs.

The spreadsheet on pages 13 through 14 summarizes the various inputs for the NIMS E11 Observations. The spreadsheet on pages 15 through 18 summarizes the resource usage for the NIMS E11 observations.

The table on pages 19 through 22 lists various NIMS E11 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The tapemap on pages 23 through 27 shows the placement of the E11 observations on the spacecraft's tape recorder. The NIMS observation names are written with a larger type.

The timeline on pages 28 through 33 shows the preliminary E11 playback schedule.

The NIMS E11 mosaic designs are summarized on pages 34 through 41 in time-order.

NIMS E11 SCIENCE OVERVIEW

Jupiter Science

The main thrust for the NIMS atmospheric observation plan in E11 is the Brown Barge feature. NIMS will observe the Brown Barge at various phase angles which include 94, 42, 20, 72, 114, 125 and 135 degrees phase. The Brown Barge's location prediction is 52 degrees West longitude, 14 degrees North latitude. The Brown Barge uncertainty is approximately 40-65 degrees West longitude. Furthermore, two 5 and 3 micron observations will observe the Brown Barge feature. Moreover, one sub-spectra and one full spectral observation are planned in which each will acquire data at 20 degrees phase. In addition, three real-time observations are planned to observe the Brown Barge. Two of the real-time observations will observe the Brown Barge at 42 degrees phase and the last real-time observation will observe the Brown Barge at 20 degrees phase. In addition, six large Cylindrical mosaics of Jupiter at phase angle of nearly 90 degrees are planned. The entire Cylindrical map campaign covers 90-360 degrees West longitude. A separate observation is the North-South stripe which will cover the thermal wavelengths from 4.2786 to 5.2198 microns from pole to pole. Other separate observations include two ride-along observations with UVS in which both instruments will observe the Io footprint.

Io Science

The NIMS Io observation campaign consists of four CHEMIS observations which will search for new chemical species and monitor changes in SO2 distribution. Three VOLCAN observations are planned which will monitor variations in volcanic activity of selected regions (i.e. Loki, Pelee, Kanehekili) using selected wavelengths. INHRSPEC is a high spatial and spectral resolution observation of Io's dayside. INNSPEC is a nightside, high resolution observation which will monitor activity of Io's hotspots at high spatial and spectral resolution. One INTHRMAL observation is planned and is designed to observe the nightside to map hotspots, thermal anomalies and outbursts on Io's surface.

NIMS E11 SCIENCE OVERVIEW

Europa Science

The E11 NIMS Europa observing campaign begins with three distant Europa observations. All three distant observations occur beyond fifteen Jupiter radii (Rj) at 20 hours (M20HR), 17 hours (M17HR) and 15 hours (M15HR) before Europa closest approach. Each distant observation will have two scans. The first scan of each observation will be recorded MPW in gain state 4 and the second scan will be LPU in gain state 3. ENDRKLIT will observe the Pwyll impact crater at -2 degrees South latitude and 225 degrees West longitude. The objective is to observe pull-apart bands and bright and dark plains. This observation has been coordinated with SSI. Also, ENCYCLOD will observe cyclodial and triple bands at 14 degrees North latitude and 225 degrees West longitude. ENCYCLOD has also been coordinated with SSI. ENEURORT is a real-time observation that will observe Europa at 408 wavelengths at closest approach. LEADRT is a ride-along observation with SSI that will study the leading hemisphere targetting the region at 90 degrees West longitude. This observation is unique in that the leading hemisphere has never been observed at 90 degrees West longitude. The ride-along observation will also serve as preparation for Europa observations in the I25 orbit of the Galileo Europa Mission (GEM).

Ganymede Science

No Ganymede observations were planned due to poor resolution.

Callisto Science

No Callisto observations were planned.

Calibration

There are six NIMS calibration observations in E11: four darkcals, one RCT cal and one OPCAL. The darkcal observations (HNDARK) measure dark levels in three gain states. The RCT cal (RCTRLT) calibrates NIMS in the thermal bands. The OPCAL calibrates the NIMS grating.

Early Data Return

There are nine realtime observations in E11: 2 instrument health checks of 3 wavelengths (HEALTH), 3 408 wavelength Jupiter Brown Barge observations (RTBRG), 2 408 wavelength Europa observations (EURORT and RTLEAD), one RCT calibration and one OPCAL.

E11 Playback

E11 playback is split into two passes through the tape.

E11 Time-Ordered Listing

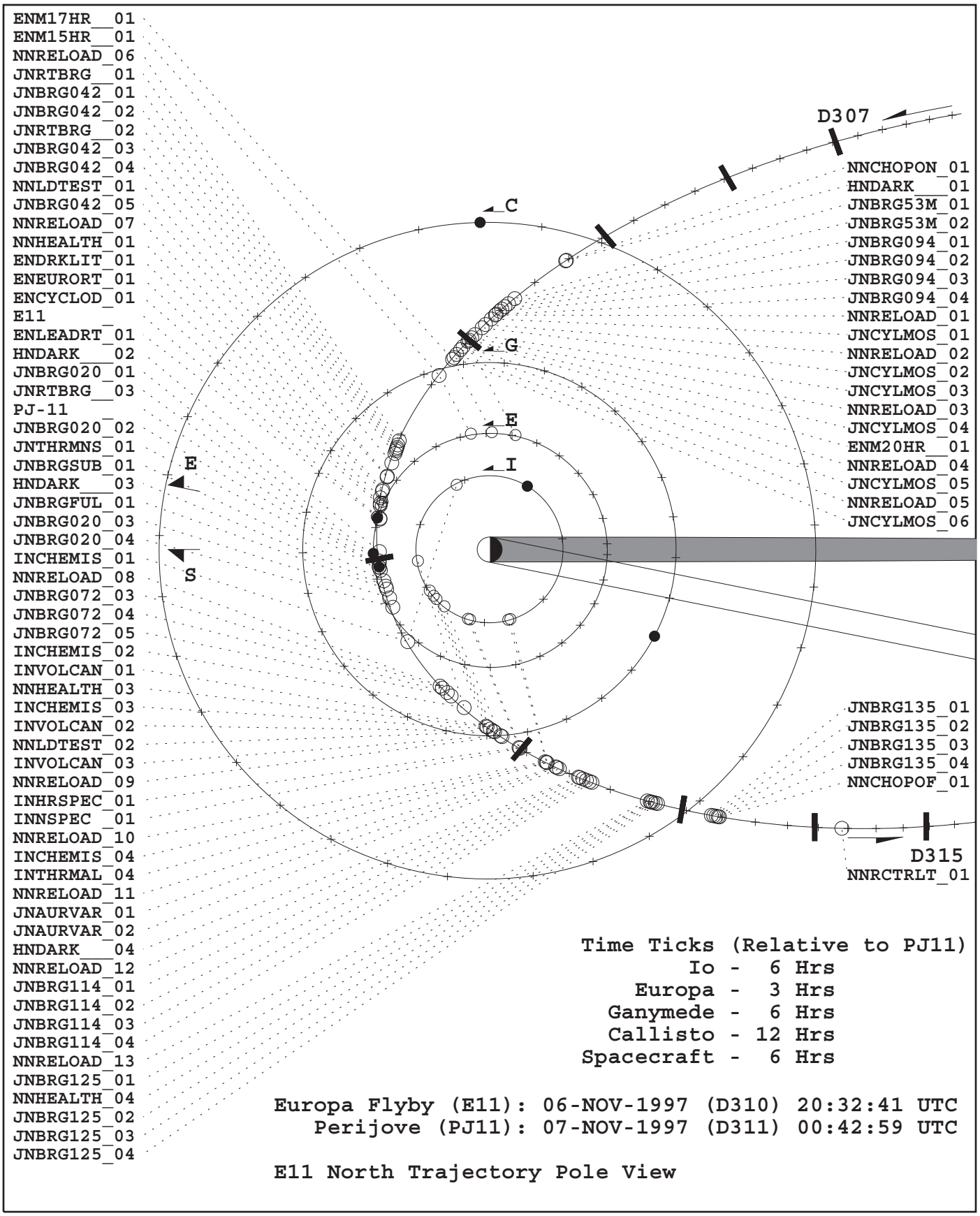
OAPEL	Start (UTC)	End (UTC)	Duration
11NNCHOPON01-	97-309/07:06:11	97-309/07:14:17	0/00:08:05
11HNDARK__01-	97-309/07:15:17	97-309/07:22:22	0/00:07:04
11JNBRG53M01-	97-309/16:10:10	97-309/16:17:15	0/00:07:04
11JNBRG53M02-	97-309/17:15:53	97-309/17:42:11	0/00:26:17
11JNBRG09401-	97-309/17:52:17	97-309/18:00:23	0/00:08:05
11JNBRG09402-	97-309/18:25:39	97-309/18:32:44	0/00:07:04
11JNBRG09403-	97-309/18:49:55	97-309/18:57:00	0/00:07:04
11JNBRG09404-	97-309/19:23:17	97-309/19:29:21	0/00:06:04
11NNRELOAD01-	97-309/19:31:23	97-309/19:41:29	0/00:10:06
11JNCYLMOS01-	97-309/20:14:51	97-309/20:28:00	0/00:13:08
11NNRELOAD02-	97-309/21:13:30	97-309/21:23:37	0/00:10:06
11JNCYLMOS02-	97-309/21:48:53	97-309/22:02:02	0/00:13:08
11JNCYLMOS03-	97-309/23:01:41	97-309/23:16:51	0/00:15:10
11NNRELOAD03-	97-309/23:36:04	97-309/23:46:11	0/00:10:06
11JNCYLMOS04-	97-310/00:01:21	97-310/00:15:30	0/00:14:09
11ENM20HR_01-	97-310/00:15:30	97-310/00:38:45	0/00:23:15
11NNRELOAD04-	97-310/01:05:03	97-310/01:15:09	0/00:10:06
11JNCYLMOS05-	97-310/01:32:21	97-310/01:48:31	0/00:16:10
11NNRELOAD05-	97-310/02:14:49	97-310/02:24:55	0/00:10:06
11JNCYLMOS06-	97-310/02:42:07	97-310/02:57:17	0/00:15:10
11ENM17HR_01-	97-310/02:57:17	97-310/03:22:33	0/00:25:16
11ENM15HR_01-	97-310/05:20:51	97-310/05:47:09	0/00:26:17
11NNRELOAD06-	97-310/13:14:03	97-310/13:24:10	0/00:10:06
11JNRTBRG_01-	97-310/13:39:20	97-310/13:53:29	0/00:14:09
11JNBRG04201-	97-310/13:53:29	97-310/14:02:35	0/00:09:06
11JNBRG04202-	97-310/14:02:35	97-310/14:13:33	0/00:10:58
11JNRTBRG_02-	97-310/14:13:34	97-310/14:23:49	0/00:10:15
11JNBRG04203-	97-310/14:29:53	97-310/14:38:59	0/00:09:06

OAPEL	Start (UTC)	End (UTC)	Duration
11JNBRG04204-	97-310/15:24:29	97-310/15:33:35	0/00:09:06
11NNLDTEST01-	97-310/16:41:20	97-310/16:45:23	0/00:04:02
11JNBRG04205-	97-310/16:46:23	97-310/16:55:29	0/00:09:06
11NNRELOAD07-	97-310/17:59:11	97-310/18:09:18	0/00:10:06
11NNHEALTH01-	97-310/18:09:18	97-310/18:15:22	0/00:06:04
11ENDRKLIT01-	97-310/18:46:43	97-310/19:02:53	0/00:16:10
11ENEURORT01-	97-310/19:15:01	97-310/19:22:06	0/00:07:04
11ENCYCLOD01-	97-310/19:25:08	97-310/19:43:20	0/00:18:12
11ENLEADRT01+	97-310/20:36:55	97-310/20:56:08	0/00:19:12
11HNDARK__02-	97-310/23:23:45	97-310/23:29:49	0/00:06:04
11JNBRG02001-	97-311/00:12:17	97-311/00:22:24	0/00:10:06
11JNRTBRG_03-	97-311/00:23:25	97-311/00:33:31	0/00:10:06
11JNBRG02002-	97-311/00:44:39	97-311/00:53:45	0/00:09:06
11JNTHRMNS01-	97-311/01:01:50	97-311/01:57:27	0/00:55:36
11JNBRGSUB01-	97-311/01:58:27	97-311/02:27:47	0/00:29:19
11HNDARK__03-	97-311/02:27:47	97-311/02:33:51	0/00:06:04
11JNBRGFUL01-	97-311/02:43:57	97-311/03:13:17	0/00:29:19
11JNBRG02003-	97-311/03:31:29	97-311/03:43:37	0/00:12:08
11JNBRG02004-	97-311/04:22:02	97-311/04:32:09	0/00:10:06
11INCHEMIS01-	97-311/07:42:14	97-311/07:49:19	0/00:07:04
11NNRELOAD08-	97-311/12:49:37	97-311/12:59:43	0/00:10:06
11JNBRG07203-	97-311/13:08:49	97-311/13:20:57	0/00:12:08
11JNBRG07204-	97-311/13:49:16	97-311/13:58:22	0/00:09:06
11JNBRG07205-	97-311/14:21:37	97-311/14:33:45	0/00:12:08
11INCHEMIS02-	97-311/16:09:49	97-311/16:15:53	0/00:06:04
11INVOLCAN01-	97-311/19:10:48	97-311/19:19:54	0/00:09:06
11NNHEALTH03-	97-311/19:19:54	97-311/19:24:57	0/00:05:03
11INCHEMIS03-	97-311/19:45:11	97-311/19:49:13	0/00:04:02

E11 Time-Ordered Listing

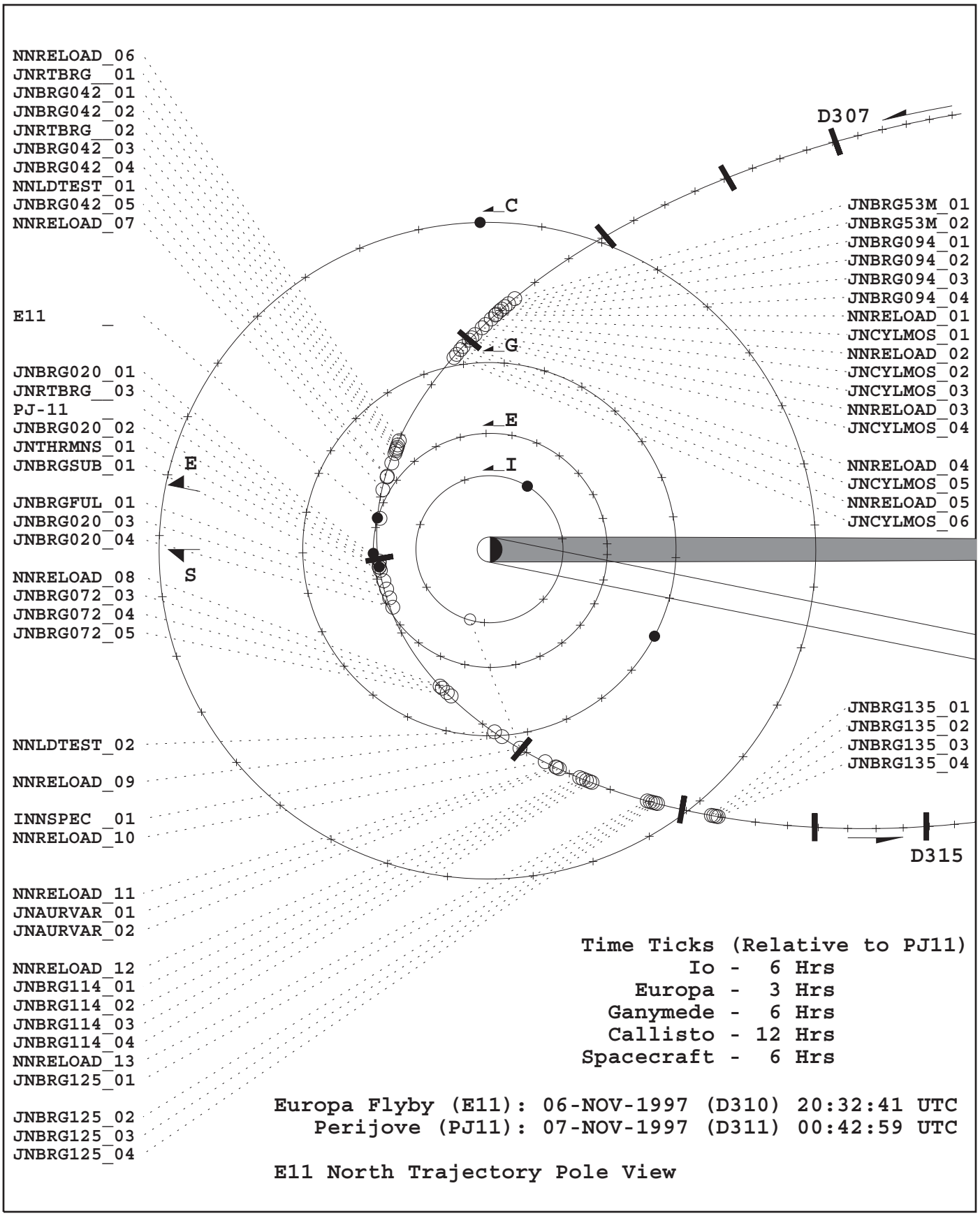
OAPEL	Start (UTC)	End (UTC)	Duration
11INVOLCAN02-	97-311/20:10:27	97-311/20:19:33	0/00:09:06
11NNLDTEST02-	97-311/20:20:34	97-311/20:24:37	0/00:04:02
11INVOLCAN03-	97-311/21:09:06	97-311/21:15:10	0/00:06:04
11NNRELOAD09-	97-311/21:21:14	97-311/21:31:21	0/00:10:06
11INHRSPEC01-	97-311/23:40:46	97-311/23:48:51	0/00:08:05
11INNSPEC 01-	97-311/23:48:51	97-311/23:55:56	0/00:07:04
11NNRELOAD10-	97-312/03:19:10	97-312/03:29:16	0/00:10:06
11INCHEMIS04-	97-312/03:29:16	97-312/03:35:20	0/00:06:04
11INTHRMAL04-	97-312/03:35:20	97-312/03:42:25	0/00:07:04
11NNRELOAD11-	97-312/04:47:08	97-312/04:57:15	0/00:10:06
11JNAURVAR01+	97-312/04:57:15	97-312/05:14:26	0/00:17:11
11JNAURVAR02+	97-312/05:18:29	97-312/05:58:55	0/00:40:26
11HNDARK__04-	97-312/08:02:17	97-312/08:09:21	0/00:07:04
11JNBRG11401-	97-312/08:41:43	97-312/08:50:49	0/00:09:06
11JNBRG11402-	97-312/09:12:03	97-312/09:22:09	0/00:10:06
11JNBRG11403-	97-312/09:41:22	97-312/09:53:30	0/00:12:08
11JNBRG11404-	97-312/10:01:35	97-312/10:13:43	0/00:12:08
11NNRELOAD13-	97-312/18:24:07	97-312/18:34:13	0/00:10:06
11JNBRG12501-	97-312/18:52:25	97-312/19:00:31	0/00:08:05
11JNBRG12502-	97-312/19:16:41	97-312/19:27:49	0/00:11:07
11JNBRG12503-	97-312/19:41:58	97-312/19:51:04	0/00:09:06
11JNBRG12504-	97-312/20:02:11	97-312/20:11:17	0/00:09:06
11JNBRG13501-	97-313/04:57:04	97-313/05:05:09	0/00:08:05
11JNBRG13502-	97-313/05:21:20	97-313/05:29:25	0/00:08:05
11JNBRG13503-	97-313/05:46:37	97-313/05:54:42	0/00:08:05
11JNBRG13504-	97-313/06:06:50	97-313/06:14:55	0/00:08:05
11NNCHOPOF01-	97-313/06:19:59	97-313/06:26:03	0/00:06:04
11NNRCTRLT01-	97-314/10:00:13	97-314/23:22:02	0/13:21:48

NIMS E11 OBSERVATIONS



NIMS - FEL - 09/19/97

NIMS E11 JUPITER OBSERVATIONS



Time Ticks (Relative to PJ11)

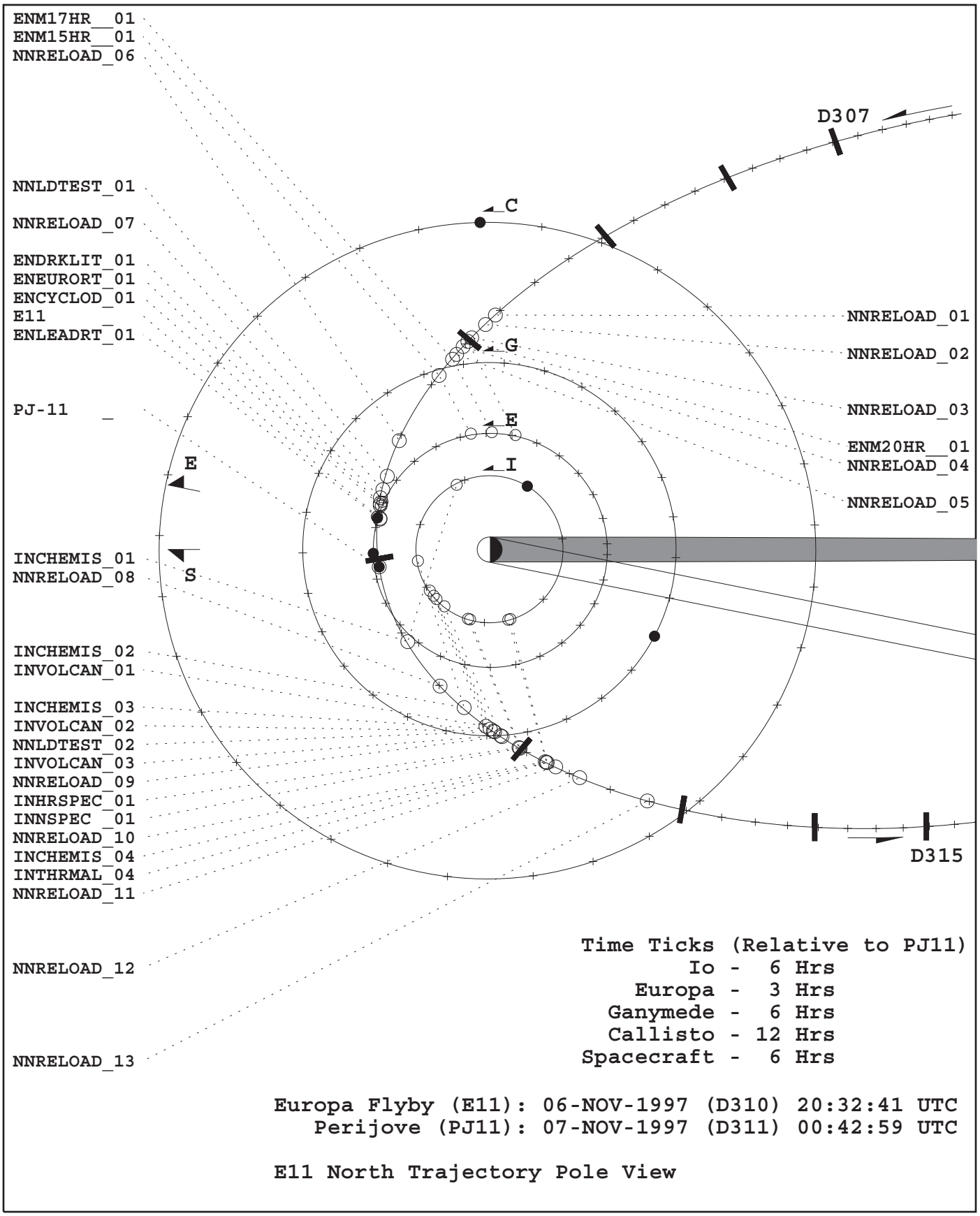
Io -	6 Hrs
Europa -	3 Hrs
Ganymede -	6 Hrs
Callisto -	12 Hrs
Spacecraft -	6 Hrs

Europa Flyby (E11): 06-NOV-1997 (D310) 20:32:41 UTC
Perijove (PJ11): 07-NOV-1997 (D311) 00:42:59 UTC

E11 North Trajectory Pole View

NIMS - FEL - 09/19/97

NIMS E11 SATELLITE OBSERVATIONS

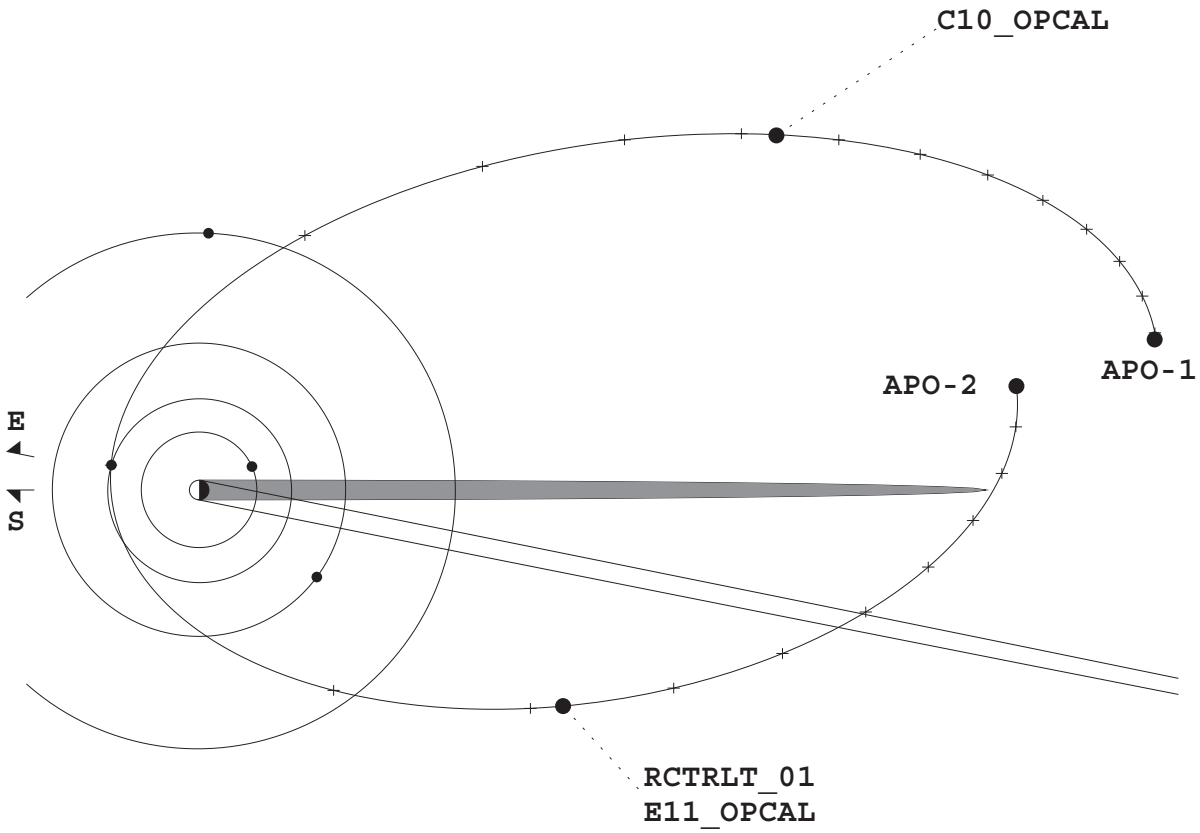


NIMS - FEL - 09/19/97

NIMS E11 CALIBRATIONS

Europa Flyby (E11): 06-NOV-1997 (D310) 20:32:41 UTC
Perijove (PJ11): 07-NOV-1997 (D311) 00:42:59 UTC

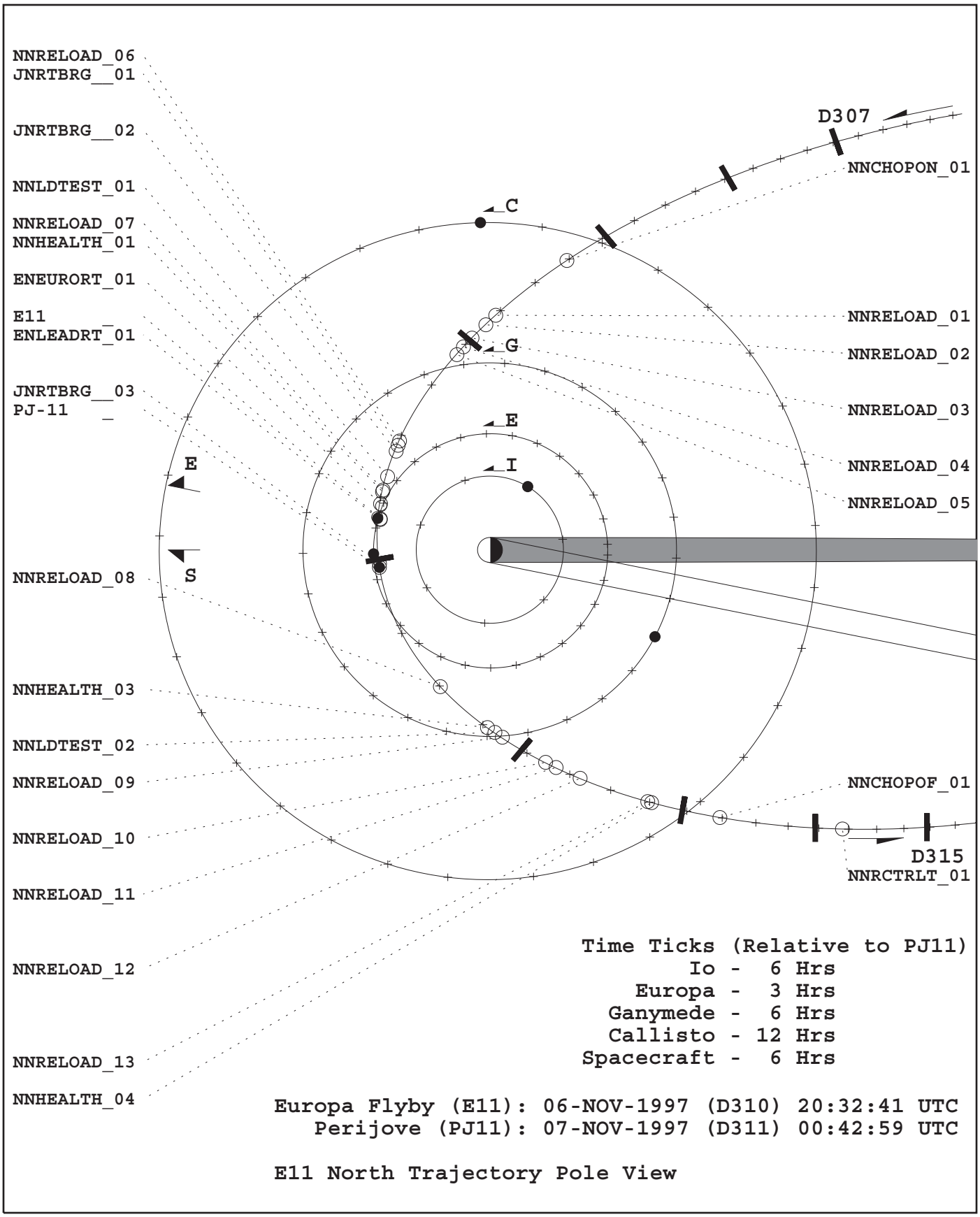
Time Ticks (Relative to E11)
Spacecraft - 2 Days



E11 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS - FEL - 03/20/98

NIMS E11 RAM RELOADS



NIMS - FEL - 09/19/97

E11 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating start	Grating Offset	Record Format	PSID
11NNCHOPON01-	NIMS Chopper On								DA
11HNDARK__01-	NIMS Dark Observation	E11DRK252	E11DRK32	LM	3	0	4	LPU	EF
11JNBRG53M01-	Brown Barge Observation	E11J35157	E11J35157	LM	4	0	4	LPU	DC
11JNBRG53M02-	Brown Barge Observation	E11J35157	E11J35157	LM	4	0	4	LPU	DD
11JNBRG09401-	Brown Barge Observation 94 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	DE
11JNBRG09402-	Brown Barge Observation 94 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	DF
11JNBRG09403-	Brown Barge Observation 94 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	DG
11JNBRG09404-	Brown Barge Observation 94 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	DH
11NNRELOAD01-	NIMS Real-Time Software Reload							R/T	DI
11JNCYLMOS01-	Jupiter Cylindrical Mosaic Part 1	E11JGM10A	E11JGM05A	XM	2	5	4	LPU	DL
11NNRELOAD02-	NIMS Real-Time Software Reload							R/T	DM
11JNCYLMOS02-	Jupiter Cylindrical Mosaic Part 2	E11JGM10A	E11JGM05A	XM	2	5	4	LPU	DN
11JNCYLMOS03-	Jupiter Cylindrical Mosaic Part 3	E11JGM10A	E11JGM05A	XM	2	5	4	LPU	DO
11NNRELOAD03-	NIMS Real-Time Software Reload							R/T	DP
11JNCYLMOS04-	Jupiter Cylindrical Mosaic Part 4	E11JGM10A	E11JGM05A	XM	2	5	4	LPU	DQ
11ENM20HR_01-	Europa Obs Beyond 15 Rj	E11ELM442	E11ELM360	LM	4	0	4	MPW	DS
11ENM20HR_01-	Europa Obs Beyond 15 Rj	E11ELM243C	E11ELM228C	LM	3	0	4	LPU	DT
11NNRELOAD04-	NIMS Real-Time Software Reload							R/T	DR
11JNCYLMOS05-	Jupiter Cylindrical Mosaic Part 5	E11JGM10A	E11JGM05A	XM	2	5	4	LPU	DU
11NNRELOAD05-	NIMS Real-Time Software Reload							R/T	DV
11JNCYLMOS06-	Jupiter Cylindrical Mosaic Part 6	E11JGM10A	E11JGM05A	XM	2	5	4	LPU	DW
11ENM17HR_01-	Europa Obs Beyond 15 Rj	E11ELM442	E11ELM360	LM	4	0	4	MPW	DX
11ENM17HR_01-	Europa Obs Beyond 15 Rj	E11ELM243C	E11ELM228C	LM	3	0	4	LPU	DB
11ENM15HR_01-	Europa Observation at Minus 15 Hours	E11ELM442	E11ELM360	LM	4	0	4	MPW	DY
11ENM15HR_01	Europa Observation at Minus 15 Hours	E11ELM243C	E11ELM228C	LM	3	0	4	LPU	EF
11NNRELOAD06-	NIMS Real-Time Software Reload							R/T	DZ
11JNRTBRG_01-	NIMS Real-Time Brown Barge Obs	E11JLM442/MB	R/T	LM	2	0	4	R/T	KH
11JNBRG04201-	Brown Barge Observation 42 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EA
11JNBRG04202-	Brown Barge Observation 42 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EB
11JNRTBRG_02-	NIMS Real-Time Brown Barge Obs	E11JLM442/MB	R/T	LM	2	0	4	R/T	KI
11JNBRG04203-	Brown Barge Observation 42 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EC
11JNBRG04204-	Brown Barge Observation 42 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	ED
11NNLDTEST01-	NIMS Test Software Reload							R/T	FH
11JNBRG04205-	Brown Barge Observation 42 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EE
11NNRELOAD07-	NIMS Real-Time Software Reload							R/T	EH
11NNHEALTH01-	NIMS Real-Time Health Observation	E11RCVY3	R/T	LM	2	0	4	R/T	KJ
11ENDRKLIT01-	EUROPA Dark Mosaic	E11ELM243C	E11ELM228C	LM	4	0	4	LPU	EJ
11ENEURORT01-	NIMS Europa Real-Time Observation	E11ELM442/MB	R/T	LM	4	0	4	R/T	EI
11ENCYCLOD01-	EUROPA CYCLODIAL OBSERVATION	E11ELM243C	E11ELM228C	LM	4	0	4	LPU	EK
11ENLEADRT01+	Europa Leading Hemisphere Observation	E11ELM442/MB	R/T	LM	4	0	4	R/T	EM
11HNDARK__02-	NIMS Dark Observation	E11DRK252	E11DRK32	LM	2	0	4	LPU	EF
11JNBRG02001-	Brown Barge Obs 20 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EO
11JNRTBRG_03-	NIMS Real-Time Brown Barge Obs	E11JLM442/MB	R/T	LM	2	0	4	R/T	KM
11JNBRG02002-	Brown Barge Obs 20 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EP

E11 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating start	Grating Offset	Record Format	PSID
11JNTHRMNS01-	Jupiter Thermal North-South Stripe	E11J5M253A	E11J5M80A	LM	4	0	4	LPU	EQ
11JNBRGSUB01-	Brown Barge Obs	E11JSB253A	E11JSB80A	LM	4	0	4	LPU	ER
11HNDARK__03-	NIMS Dark Observation	E11DRK252	E11DRK32	LM	4	0	4	LPU	EF
11JNBRGFUL01-	Brown Barge Obs	E11JFE253A	E11JFE253A	LM	2	0	4	LPU	ES
11JNBRG02003-	Brown Barge Obs 20 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	ET
11JNBRG02004-	Brown Barge Obs 20 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EU
11INCHEMIS01-	MONITORING OF IO'S DAYSIDE	E11ILM442	E11ILM360	LM	2	0	4	MPW	EV
11NNRELOAD08-	NIMS Real-Time Software Reload							R/T	EW
11JNBRG07203-	Brown Barge Obs 72 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EZ
11JNBRG07204-	Brown Barge Obs 72 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FA
11JNBRG07205-	Brown Barge Obs 72 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FB
11INCHEMIS02-	MONITORING OF IO'S DAYSIDE	E11ILM243C	E11ILM228C	LM	2	0	4	LPU	FC
11INVOLCAN01-	MONITORING OF SELECTED VOLCANIC REGION:	E11ILMDK243D	E11ILMDK228D	LM	4	0	4	LPU	FD
11NNHEALTH03-	NIMS Real-Time Health Observation	E11RCVY3	R/T	LM	2	0	4	R/T	KJ
11INCHEMIS03-	MONITORING OF IO'S DAYSIDE	E11ILM442	E11ILM360	LM	2	0	4	MPW	FE
11INVOLCAN02-	MONITORING OF SELECTED VOLCANIC REGION:	E11ILMDK243D	E11ILMDK228D	LM	4	0	4	LPU	FF
11NNLDTEST02-	NIMS Test Software Reload							R/T	FH
11INVOLCAN03-	MONITORING OF SELECTED VOLCANIC REGION:	E11ILMDK243D	E11ILMDK228D	LM	4	0	4	LPU	FG
11NNRELOAD09-	NIMS Real-Time Software Reload							R/T	FH
11INHRSPEC01-	MONITORING OF IO'S DAYSIDE	E11ILM442	E11ILM360	LM	2	0	4	MPW	FI
11INNSPEC 01-	NIGHTSIDE SPECTRA AT HIGH RESOLUTION	E11ILM442	E11ILM360	LM	4	0	4	MPW	FJ
11NNRELOAD10-	NIMS Real-Time Software Reload							R/T	FK
11INCHEMIS04-	MONITORING OF IO'S DAYSIDE	E11ILM243C	E11ILM228C	LM	2	0	4	LPU	FL
11INTHRMAL04-	MONITORING OF IO'S NIGHTSIDE	E11ILMDK243D	E11ILMDK228D	LM	4	0	4	LPU	FM
11NNRELOAD11-	NIMS Real-Time Software Reload							R/T	FN
11JNAURVAR01+	NIMS Ride-Along Aurora Obs. with UVS	B_JAU243	B_JAU228	LM	4	0	4	LPU	
11JNAURVAR02+	NIMS Ride-Along Aurora Obs. with UVS	B_JAU243	B_JAU228	LM	4	0	4	LPU	
11HNDARK__04-	NIMS Dark Observation	E11DRK252	E11DRK32	LM	4	0	4	LPU	EF
11JNBRG11401-	Brown Barge Obs 114 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FP
11JNBRG11402-	Brown Barge Obs 114 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FQ
11JNBRG11403-	Brown Barge Obs 114 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FR
11JNBRG11404-	Brown Barge Obs 114 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FS
11NNRELOAD13-	NIMS Real-Time Software Reload							R/T	FT
11JNBRG12501-	Brown Barge Obs 125 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FU
11JNBRG12502-	Brown Barge Obs 125 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FV
11JNBRG12503-	Brown Barge Obs 125 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FW
11JNBRG12504-	Brown Barge Obs 125 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FX
11JNBRG13501-	Brown Barge Obs 135 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FZ
11JNBRG13502-	Brown Barge Obs 135 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	KA
11JNBRG13503-	Brown Barge Obs 135 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	KB
11JNBRG13504-	Brown Barge Obs 135 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	KC
11NNCHOPOF01-	NIMS Chopper Off								KD
11NNRCTRLT01-	NIMS Real-Time RCT Calibration	E11RCT252	R/T	LM	1	0	4	R/T	KE

E11 NIMS RESOURCES

Activity ID	NIMS Mode	Record Mode	Obs. Cost (tracks)	Obs. Cost (ticks)	Number Wavelengths Returned	Observation Record Time (sec.)	Observation Playback Time (sec.)	Selected Bits of Tape sBOT (MBITS)	Bits of Tape BOT (Mbit)	Mode Cycle time (sec)
11NNCHOPON01-										
11HNDARK__01-	LM	LPU	0.0023	16	32	60.67	60.67	0.37	0.37	8.667
11JNBRG53M01-	LM	LPU	0.0064	45	80	182	182	1.12	1.12	8.667
11JNBRG53M02-	LM	LPU	0.0406	283	80	1200	1200	7.40	7.40	8.667
11JNBRG09401-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
11JNBRG09402-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
11JNBRG09403-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
11JNBRG09404-	SM	LPU	0.0070	49	25	200	200	1.23	1.23	2.33
11JNCYLMOS01-	SM	LPU	0.0204	143	5	600	600	3.70	3.70	2.33
11JNCYLMOS02-	SM	LPU	0.0204	143	5	600	600	3.70	3.70	2.33
11JNCYLMOS03-	SM	LPU	0.0204	143	5	600	600	3.70	3.70	2.33
11JNCYLMOS04-	SM	LPU	0.0204	143	5	600	600	3.70	3.70	2.33
11ENM20HR_01-	LM	MPW	0.0522	364	360	411.34	411.34	4.74	4.74	8.667
11ENM20HR_01-	LM	LPU	0.0166	116	228	486	486	3.00	3.00	8.667
11JNCYLMOS05-	SM	LPU	0.0204	143	5	600	600	3.70	3.70	2.33
11JNCYLMOS06-	SM	LPU	0.0204	143	5	600	600	3.70	3.70	2.33
11ENM17HR_01-	LM	MPW	0.0686	479	360	542	529	6.09	6.24	8.667
11ENM17HR_01-	LM	LPU	0.0184	128	228	538	538	3.32	3.32	8.667
11ENM15HR_01-	LM	MPW	0.0764	533	360	604	591	6.81	6.96	8.667
11ENM15HR_01-	LM	LPU	0.0201	141	228	591	591	3.65	3.65	8.667
11JNRTBRG_01-	LM	R/T	0.0000	0						
11JNBRG04201-	SM	LPU	0.0137	96	25	400	200	1.23	2.47	2.33
11JNBRG04202-	SM	LPU	0.0137	96	25	400	400	2.47	2.47	2.33
11JNRTBRG_02-	LM	R/T	0.0000	0						
11JNBRG04203-	SM	LPU	0.0137	96	25	400	400	2.47	2.47	2.33
11JNBRG04204-	SM	LPU	0.0137	96	25	400	400	2.47	2.47	2.33
11JNBRG04205-	SM	LPU	0.0137	96	25	400	400	2.47	2.47	2.33
11NNHEALTH01-	LM	R/T	0.0000	0						
11ENDRKLIT01-	LM	LPU	0.0245	171	228	720	720	4.44	4.44	8.667
11ENEURORT01-	LM	R/T	0.0000	0						
11ENCYCLOD01-	LM	LPU	0.0245	171	10	720	720	4.44	4.44	8.667
11ENLEADRT01+	LM	R/T								
11HNDARK__02	LM	LPU	0.0023	16	32	60.67	60.67	0.37	0.37	8.667
11JNBRG02001-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
11JNRTBRG_03-	LM	R/T	0.0000	0	R/T					
11JNBRG02002-	SM	LPU	0.0137	96	25	400	200	1.23	2.47	2.33
11JNTHRMNS01	LM	LPU	0.0935	652	80	2775	2775	17.12	17.12	8.667
11JNBRGSUB01-	LM	LPU	0.0406	283	80	1200	600	3.70	7.40	8.667
11HNDARK__03	LM	LPU	0.0023	16	32	60.67	60.67	0.37	0.37	8.667
11JNBRGFUL01-	LM	LPU	0.0406	283	253	1200	600	3.70	7.40	8.667
11JNBRG02003-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33

E11 NIMS RESOURCES

Activity ID	NIMS Mode	Record Mode	Obs. Cost (tracks)	Obs. Cost (ticks)	Number Wavelengths Returned	Observation Record Time (sec.)	Observation Playback Time (sec.)	Selected Bits of Tape sBOT (MBITS)	Bits of Tape BOT (Mbit)	Mode Cycle time (sec)
11JNBRG02004-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
11INCHEMIS01-	LM	MPW	0.0197	137	360	153.33	153.33	1.77	1.77	8.667
11JNBRG07203-	SM	LPU	0.0122	85	25	356	356	2.20	2.20	2.33
11JNBRG07204-	SM	LPU	0.0137	96	25	400	400	2.47	2.47	2.33
11JNBRG07205-	SM	LPU	0.0137	96	25	400	400	2.47	2.47	2.33
11INCHEMIS02-	LM	LPU	0.0060	42	228	170.67	170.67	1.05	1.05	8.667
11INVOLCAN01-	LM	LPU	0.0060	42	228	170.67	170.67	1.05	1.05	8.667
11NNHEALTH03-	LM	R/T	0.0000	0						
11INCHEMIS03-	LM	MPW	0.0156	109	360	121	121	1.39	1.39	8.667
11INVOLCAN02-	LM	LPU	0.0060	42	228	170.67	170.67	1.05	1.05	8.667
11INVOLCAN03-	LM	LPU	0.0060	42	228	170.67	170.67	1.05	1.05	8.667
11INHRSPEC01-	LM	MPW	0.0219	153	360	170.67	170.67	1.97	1.97	8.667
11INNSPEC 01-	LM	MPW	0.0219	153	360	170.67	170.67	1.97	1.97	8.667
11INCHEMIS04-	LM	LPU	0.0060	42	228	169.33	169.33	1.04	1.04	8.667
11INTHRMAL04-	LM	LPU	0.0060	42	228	170.67	170.67	1.05	1.05	8.667
11JNAURVAR01+	LM	LPU	0.0210	147	40	616.68	616.68	3.80	3.80	8.667
11JNAURVAR02+	LM	LPU	0.0821	573	40	2436.68	60.667	0.37	15.03	8.667
11HNDARK__04-	LM	LPU	0.0023	16	32	60.67	60.67	0.37	0.37	8.667
11JNBRG11401-	SM	LPU	0.0083	58	25	240	240	1.48	1.48	2.33
11JNBRG11402-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
11JNBRG11403-	SM	LPU	0.0098	69	25	284	284	1.75	1.75	2.33
11JNBRG11404-	SM	LPU	0.0097	68	25	280	280	1.73	1.73	2.33
11JNBRG12501-	SM	LPU	0.0083	58	25	240	240	1.48	1.48	2.33
11JNBRG12502-	SM	LPU	0.0070	49	25	200	200	1.23	1.23	2.33
11JNBRG12503-	SM	LPU	0.0070	49	25	200	200	1.23	1.23	2.33
11JNBRG12504-	SM	LPU	0.0070	49	25	200	200	1.23	1.23	2.33
11JNBRG13501-	SM	LPU	0.0054	38	25	152	152	0.94	0.94	2.33
11JNBRG13502-	SM	LPU	0.0054	38	25	152	152	0.94	0.94	2.33
11JNBRG13503-	SM	LPU	0.0054	38	25	152	152	0.94	0.94	2.33
11JNBRG13504-	SM	LPU	0.0054	38	25	152	152	0.94	0.94	2.33
11NNRCTRLT01-	LM	R/T	0.0000	0						
			0.0000	0						
Total			**1.1513**	**8033**				157.97	182.80	
Allocation			**1.0496**	**7468**						
Overage			**0.1017**	**565**						

E11 NIMS RESOURCES

Activity ID	AACS Mbits Comp 2.5	RT BTG Mbits	Thold	Comp	Total BTG Mbits (4% Ohead)	Total BTG Mbits AWG	Total BTG Mbits SWG	Data Reduct. Factor (sBOT/BTG)	Pass
11NNCHOPON01-									
11HNDARK__01-	0.00		0	1.9	0.0245	0.0245		15.3	1
11JNBRG53M01-	0.01		0	1.3	0.2688	0.2688		4.2	1
11JNBRG53M02-	0.07		0	1.3	1.7722	1.7722		4.2	1
11JNBRG09401-	0.02		0	1.9	0.3524	0.3524		5.3	2
11JNBRG09402-	0.02		0	1.9	0.3524	0.3524		5.3	1
11JNBRG09403-	0.02		0	1.9	0.3524	0.3524		5.3	1
11JNBRG09404-	0.01		0	1.9	0.2349	0.2349		5.3	1
11JNCYLMOS01-	0.03		0	1.9	0.1410	0.1410		26.3	2
11JNCYLMOS02-	0.03		0	1.9	0.1410	0.1410		26.3	2
11JNCYLMOS03-	0.03		0	1.9	0.1410	0.1410		26.3	1
11JNCYLMOS04-	0.03		0	1.9	0.1410	0.1410		26.3	1
11ENM20HR_01-	0.02		0	1.8	1.9744		1.9744	2.4	1
11ENM20HR_01-	0.03		0	1.8	1.4774		1.4774	2.0	2
11JNCYLMOS05-	0.03		0	1.9	0.1410	0.1410		26.3	1
11JNCYLMOS06-	0.03		0	1.9	0.1410	0.1410		26.3	1
11ENM17HR_01-	0.03		0	1.9	2.4055		2.4055	2.5	1
11ENM17HR_01-	0.03		0	1.9	1.5494		1.5494	2.1	1
11ENM15HR_01-	0.03		0	1.9	2.6874		2.6874	2.5	2
11ENM15HR_01-	0.03		0	1.9	1.7020		1.7020	2.1	1
11JNRTBRG_01-		0.080	0						
11JNBRG04201-	0.01		0	1.9	0.2349	0.2349		5.3	2
11JNBRG04202-	0.02		0	1.9	0.4698	0.4698		5.3	1
11JNRTBRG_02-		0.080	0						
11JNBRG04203-	0.02		0	1.9	0.4698	0.4698		5.3	1
11JNBRG04204-	0.02		0	1.9	0.4698	0.4698		5.3	1
11JNBRG04205-	0.02		0	1.9	0.4698	0.4698		5.3	1
11NNHEALTH01-		0.001	0						
11ENDRKLIT01-	0.04		0	1.3	3.0305		3.0305	1.5	2
11ENEURORT01-		0.016	0						
11ENCYCLOD01-	0.04		0	1.3	0.1329		0.1329	33.4	1
11ENLEADRT01+		0.128	0						
11HNDARK__02	0.00		0	1.9	0.0245	0.0245		15.3	1
11JNBRG02001-	0.02		0	1.9	0.3524	0.3524		5.3	2
11JNRTBRG_03-		0.080	0						
11JNBRG02002-	0.01		0	1.9	0.2349	0.2349		5.3	2
11JNTHRMNS01	0.16		0	1.9	2.8041	2.8041		6.1	1
11JNBRGSUB01-	0.03		0	1.9	0.6063	0.6063		6.1	1
11HNDARK__03	0.00		0	1.9	0.0245	0.0245		15.3	1
11JNBRGFUL01-	0.03		0	1.9	1.9174	1.9174		1.9	1
11JNBRG02003-	0.02		0	1.9	0.3524	0.3524		5.3	1

E11 NIMS RESOURCES

Activity ID	AACS Mbits Comp 2.5	RT BTG Mbits	Thold	Comp	Total BTG Mbits (4% Ohead)	Total BTG Mbits AWG	Total BTG Mbits SWG	Data Reduct. Factor (sBOT/BTG)	Pass
11JNBRG02004-	0.02		0	1.9	0.3524	0.3524		5.3	2
11INCHEMIS01-	0.01		0	2.2	0.6021		0.6021	2.9	1
11JNBRG07203-	0.02		0	1.9	0.4182	0.4182		5.3	1
11JNBRG07204-	0.02		0	1.9	0.4698	0.4698		5.3	2
11JNBRG07205-	0.02		0	1.9	0.4698	0.4698		5.3	1
11INCHEMIS02-	0.01		0	1.4	0.6671		0.6671	1.6	1
11INVOLCAN01-	0.01		0	1.4	0.6671		0.6671	1.6	1
11NNHEALTH03-		0.001	0						
11INCHEMIS03-	0.01		0	2.2	0.4752		0.4752	2.9	1
11INVOLCAN02-	0.01		0	1.4	0.6671		0.6671	1.6	1
11INVOLCAN03-	0.01		0	1.4	0.6671		0.6671	1.6	1
11INHRSPEC01-	0.01		0	1.2	1.2288		1.2288	1.6	2
11INNSPEC 01-	0.01		0	1.2	1.2288		1.2288	1.6	1
11INCHEMIS04-	0.01		0	2.2	0.4212		0.4212	2.5	2
11INTHRMAL04-	0.01		0	1.4	0.6671		0.6671	1.6	1
11JNAURVAR01+	0.04		0	2.0	0.2960	0.2960		12.9	1
11JNAURVAR02+	0.00		0	2.0	0.0291	0.0291		12.9	1
11HNDARK__04-	0.00		0	1.9	0.0245	0.0245		15.3	1
11JNBRG11401-	0.01		0	1.9	0.2819	0.2819		5.3	1
11JNBRG11402-	0.02		0	1.9	0.3524	0.3524		5.3	1
11JNBRG11403-	0.02		0	1.4	0.4527	0.4527		3.9	1
11JNBRG11404-	0.02		0	1.4	0.4464	0.4464		3.9	1
11JNBRG12501-	0.01		0	1.9	0.2819	0.2819		5.3	1
11JNBRG12502-	0.01		0	1.9	0.2349	0.2349		5.3	1
11JNBRG12503-	0.01		0	1.9	0.2349	0.2349		5.3	1
11JNBRG12504-	0.01		0	1.9	0.2349	0.2349		5.3	1
11JNBRG13501-	0.01		0	1.9	0.1785	0.1785		5.3	1
11JNBRG13502-	0.01		0	1.9	0.1785	0.1785		5.3	1
11JNBRG13503-	0.01		0	1.9	0.1785	0.1785		5.3	1
11JNBRG13504-	0.01		0	1.9	0.1785	0.1785		5.3	1
11NNRCTRLT01-		0.080			0.0800		0.0800		
Total					40.259	17.928	22.331		
Allocation					40.129	17.830	22.299		
Overage					0.1300	0.098	0.032		

NIMS E11 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
11HNDARK__01	----------	----------	-------	90	----------	----------	----------
11JNBRG53M01	+5 to +20	46 to 59	1408K	97	141 to 153	52 to 65	93
11JNBRG53M02	+5 to +20	46 to 97	1358K	97	92 to 153	14 to 65	93
11JNBRG09401	+5 to +20	14 to 54	1235K	96	50 to 91	13 to 47	95
11JNBRG09402	+5 to +20	33 to 73	1318K	96	50 to 91	13 to 47	94
11JNBRG09403	+5 to +20	30 to 77	1318K	96	34 to 81	18 to 64	94
11JNBRG09404	+5 to +20	23 to 81	1314K	96	14 to 65	31 to 90	93
11JNCYLMOS01	-37 to +35	80 to 151	1270K	99	42 to 97	3 to 66	91
11JNCYLMOS02	-37 to +35	120 to 198	1230K	101	31 to 89	3 to 78	89
11JNCYLMOS03	-20 to +55	151 to 240	1200K	103	29 to 88	3 to 91	86
11JNCYLMOS04	-20 to +55	191 to 283	1160K	105	42 to 94	2 to 84	85
11ENM20HR_01	-90 to +90	53 to 175	600K	127	1 to 95	0 to 90	63
11JNCYLMOS05	-20 to +55	238 to 329	1120K	107	34 to 88	0 to 90	82
11JNCYLMOS06	-20 to +55	320 to 15	1072K	110	39 to 91	1 to 76	80
11ENM17HR_01	-90 to +90	62 to 188	480K	128	2 to 96	0 to 90	62
11ENM15HR_01	-90 to +90	80 to 191	385K	128	1 to 89	0 to 81	61
11JNRTBRG_01	+10 to +20	36 to 44	740K	144	72 to 83	30 to 40	45
11JNBRG04201	+10 to +20	25 to 60	738K	145	55 to 91	18 to 50	45

NIMS E11 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
11JNBRG04202	+10 to +20	31 to 65	732K	145	54 to 91	18 to 50	44
11JNRTBRG_02	+10 to +20	35 to 45	720K	145	52 to 66	16 to 25	45
11JNBRG04203	+10 to +20	39 to 69	718K	147	47 to 80	16 to 40	43
11JNBRG04204	+10 to +20	38 to 67	695K	148	18 to 46	13 to 36	42
11JNBRG04205	+10 to +20	25 to 83	700K	151	10 to 51	28 to 90	38
11ENDRKLIT01	-5 to +10	201 to 224	31.4K	128	43 to 67	4 to 19	62
11ENEURORT01	-1 to +10	218 to 220	23.0K	130	59	1	60
11ENCYCLOD01	+10 to +20	211 to 224	18.8K	144	72 to 83	30 to 40	45
11ENLEADRT01	+30 to +40	86 to 88	3.2K	108	78 to 80	25 to 30	63
11HNDARK__02	----------	----------	-------	90	----------	----------	----------
11JNBRG02001	+10 to +20	13 to 63	610K	158	29 to 80	39 to 93	11
11JNRTBRG_03	+10 to +20	28 to 57	610K	156	35 to 68	48 to 83	13
11JNBRG02002	+10 to +20	19 to 78	610K	155	17 to 77	29 to 93	13
11JNTHRMNS01	-90 to +90	330 to 10	610K	156	18 to 88	5 to 91	13
11JNBRGSUB01	+10 to +20	37 to 70	584K	149	13 to 27	14 to 47	20
11HNDARK__03	----------	----------	-------	90	----------	----------	----------
11JNBRGFUL01	+10 to +20	37 to 66	585K	147	16 to 53	16 to 34	22
11JNBRG02003	+10 to +20	34 to 65	598K	146	40 to 73	21 to 52	24

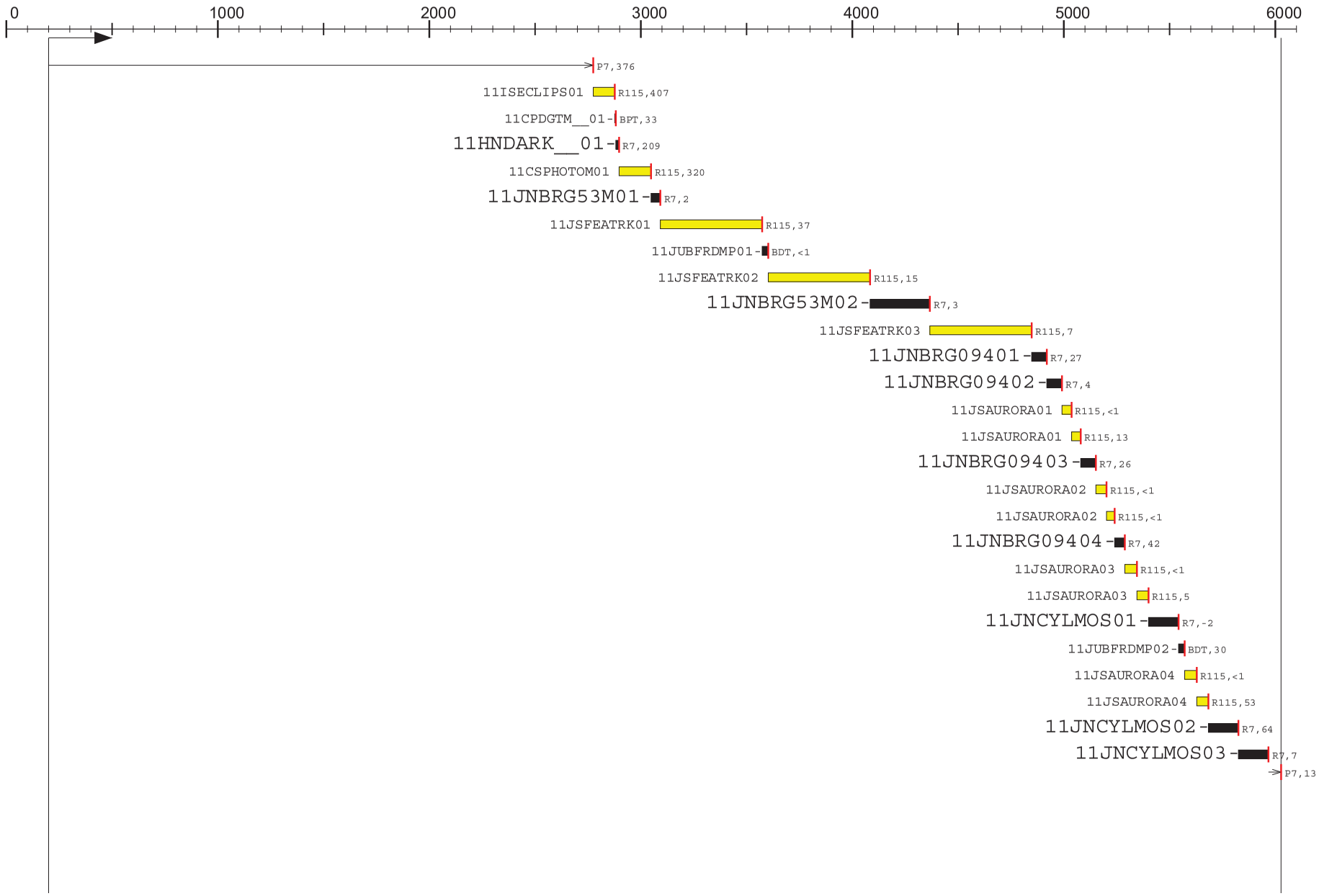
NIMS E11 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
11JNBRG02004	+10 to +20	41 to 73	620K	143	62 to 95	36 to 70	27
11INCHEMIS01	-90 to +90	315 to 135	947K	95	7 to 163	2 to 90	74
11JNBRG07203	+5 to +20	37 to 70	781K	129	28 to 58	18 to 55	74
11JNBRG07204	+5 to +20	37 to 69	798K	128	49 to 82	11 to 35	75
11JNBRG07205	+5 to +20	45 to 76	814K	128	62 to 95	17 to 27	75
11INCHEMIS02	-90 to +90	19 to 172	886K	96	20 to 167	0 to 90	108
11INVOLCAN01	-90 to +90	14 to 194	838K	91	25 to 169	0 to 90	112
11INCHEMIS03	-90 to +90	76 to 196	829K	92	25 to 144	0 to 90	113
11INVOLCAN02	-90 to +90	22 to 201	822K	91	25 to 170	0 to 90	113
11INVOLCAN03	-90 to +90	29 to 209	809K	96	25 to 168	1 to 90	113
11INHRSPEC01	-90 to +90	53 to 233	791K	93	23 to 168	0 to 90	111
11INNSPEC_01	-90 to +90	55 to 235	791K	93	23 to 168	0 to 90	111
11INCHEMIS04	-90 to +90	92 to 272	850K	100	18 to 169	0 to 90	104
11INTHRMAL04	-90 to +90	93 to 273	853K	100	17 to 169	0 to 90	104
11JNAURVAR01	+45 to +70	170 to 190	1276K	97	108 to 112	57 to 60	106
11JNAURVAR02	+32 to +74	121 to 302	1313K	97	75 to 144	60 to 91	106
11HNDARK__04	----------	----------	-------	90	----------	----------	----------
11JNBRG11401	+5 to +20	0 to 60	1395K	90	28 to 85	29 to 90	114

NIMS E11 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
11JNBRG11402	+5 to +20	7 to 74	1410K	89	29 to 95	18 to 90	114
11JNBRG11403	+5 to +20	25 to 91	1430K	89	30 to 95	21 to 90	114
11JNBRG11404	+5 to +20	37 to 103	1430K	89	31 to 95	22 to 90	114
11JNBRG12501	+5 to +20	350 to 55	1695K	80	36 to 101	23 to 90	123
11JNBRG12502	+5 to +20	12 to 70	1698K	80	37 to 95	29 to 90	124
11JNBRG12503	+5 to +20	26 to 85	1710K	80	38 to 95	29 to 90	124
11JNBRG12504	+5 to +20	38 to 97	1719K	80	39 to 96	30 to 90	124
11JNBRG13501	+5 to +20	1 to 55	1935K	38	43 to 96	36 to 90	131
11JNBRG13502	+5 to +20	15 to 69	1970K	38	43 to 96	36 to 90	131
11JNBRG13503	+5 to +20	30 to 84	1980K	38	43 to 96	36 to 90	131
11JNBRG13504	+5 to +20	42 to 96	1990K	38	44 to 97	36 to 90	131

Track 1



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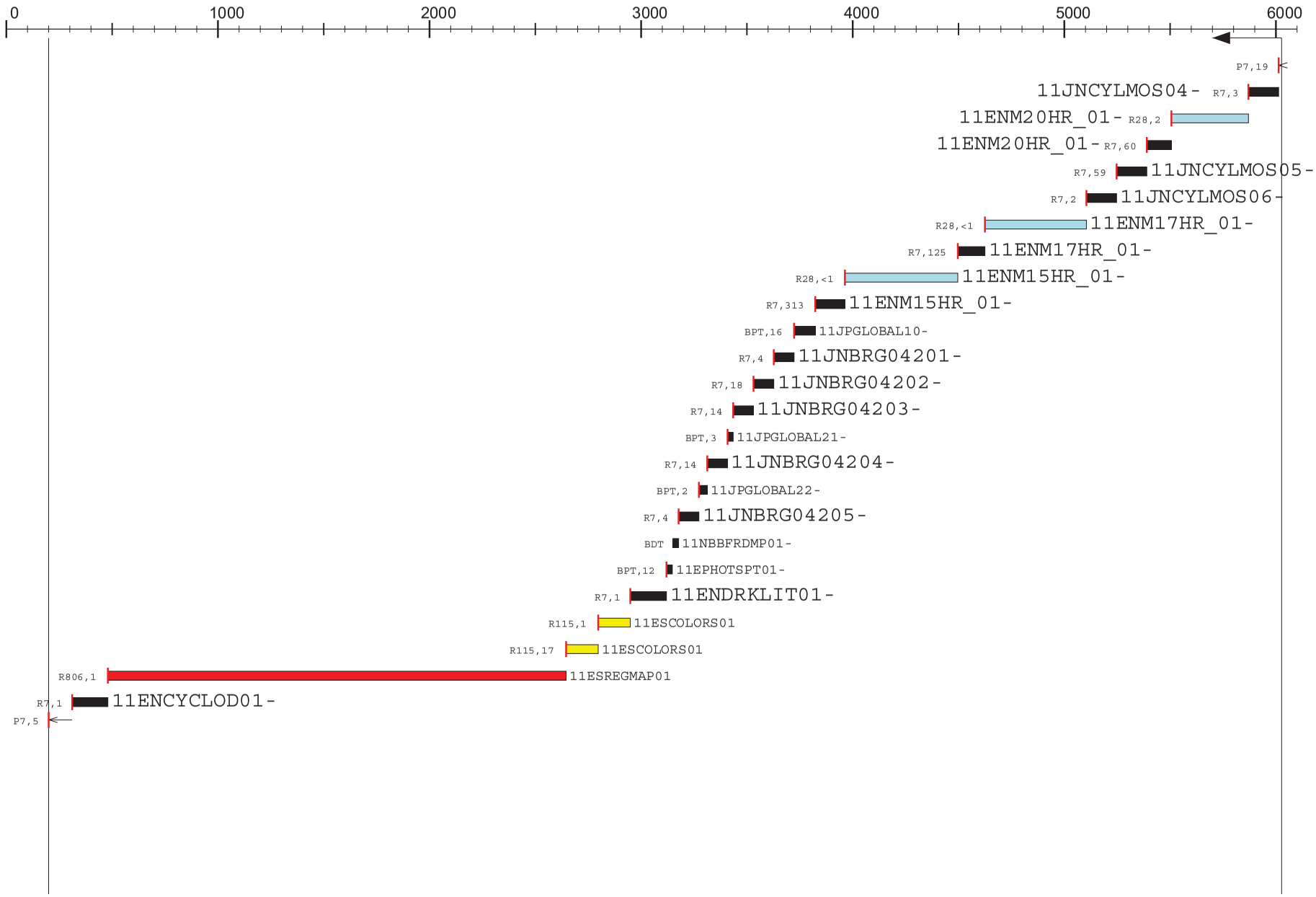

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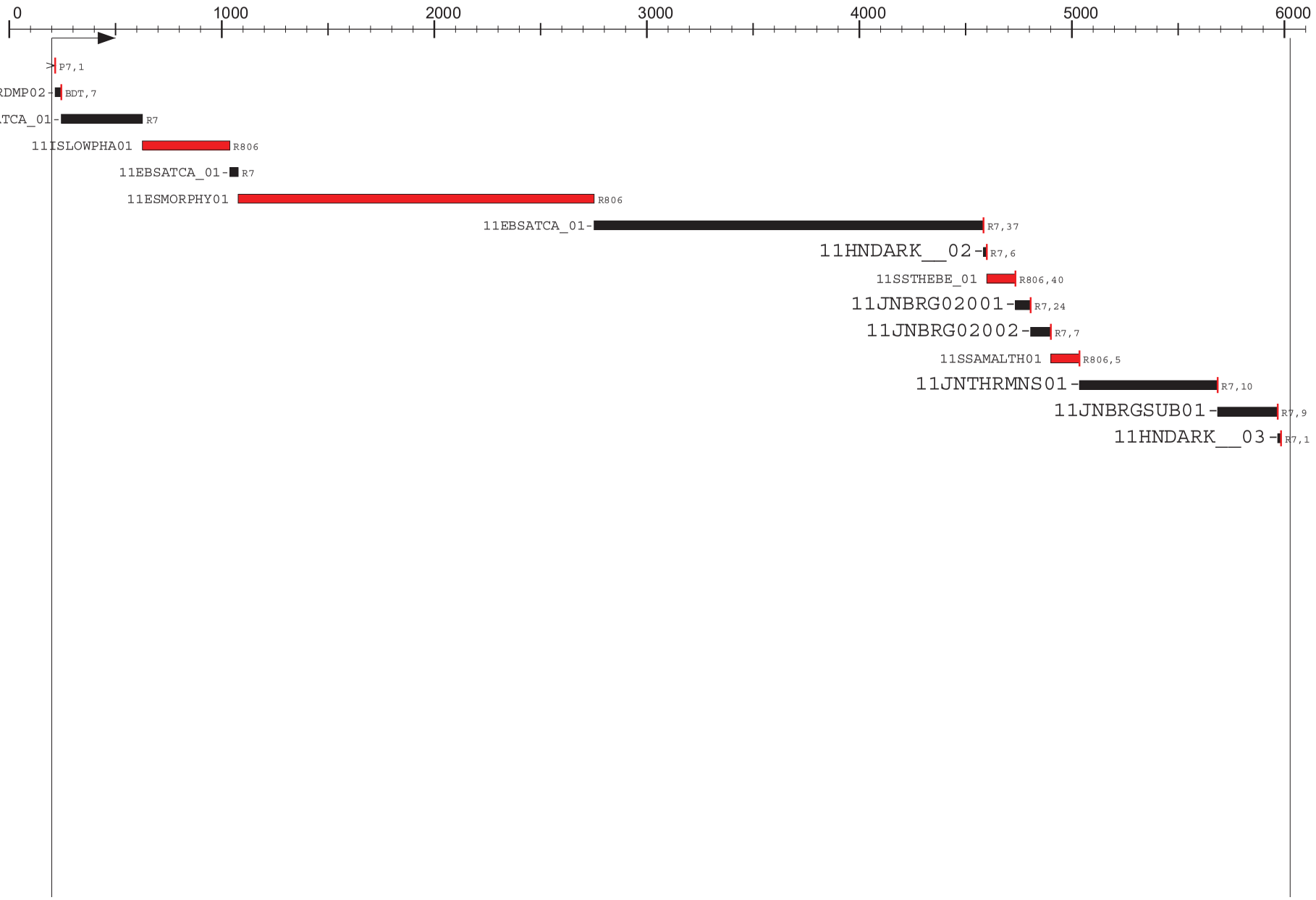

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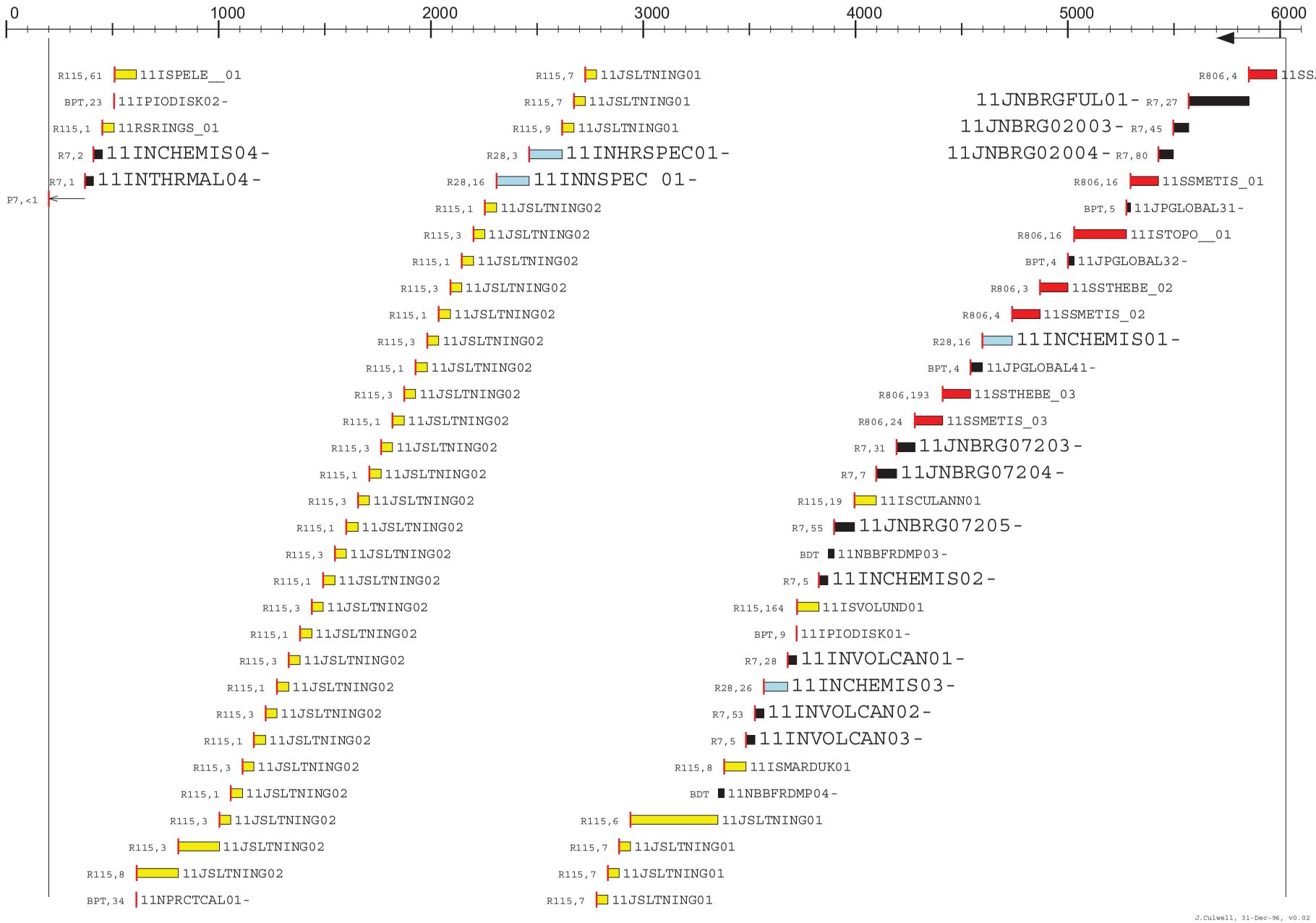

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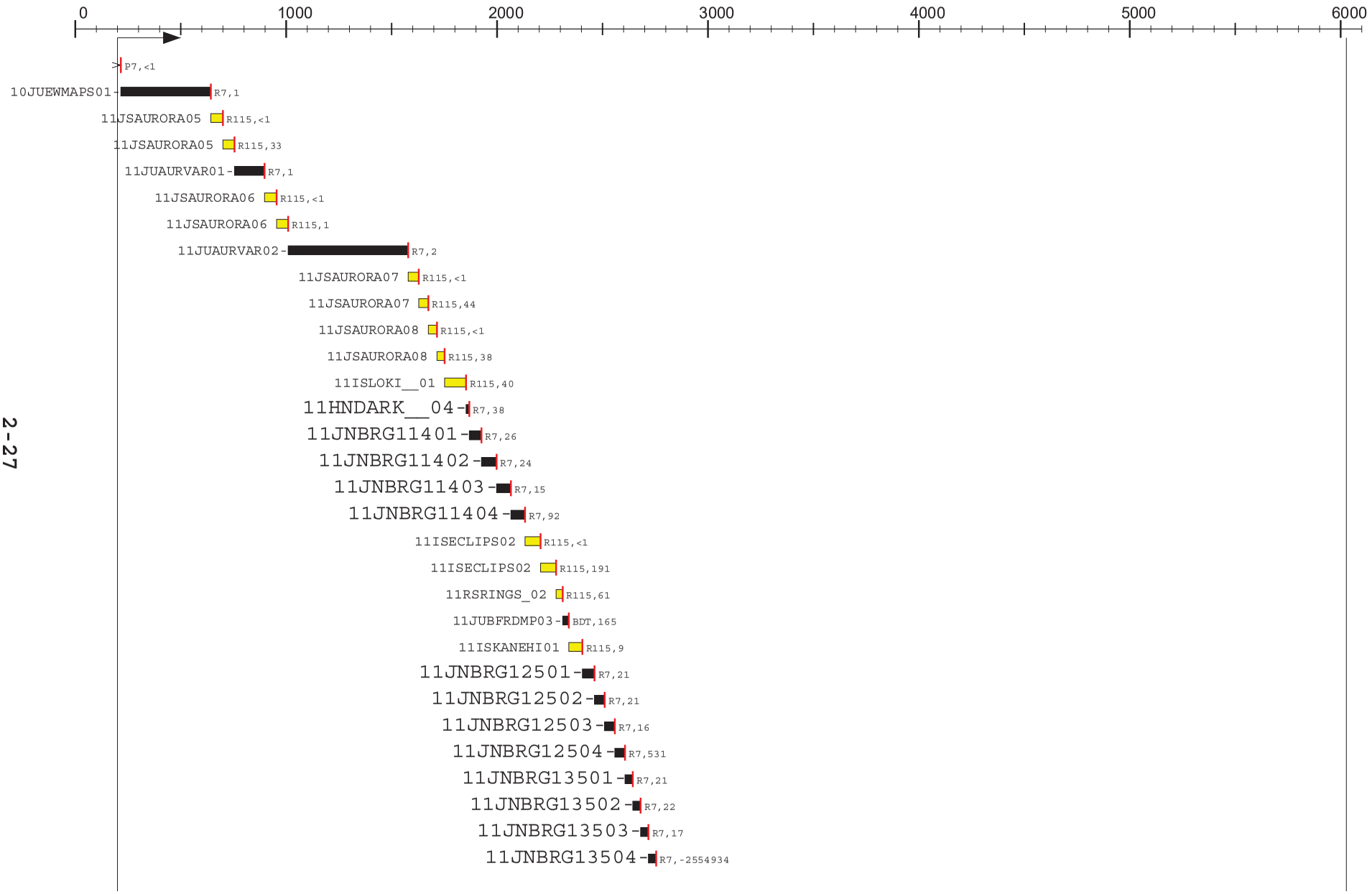

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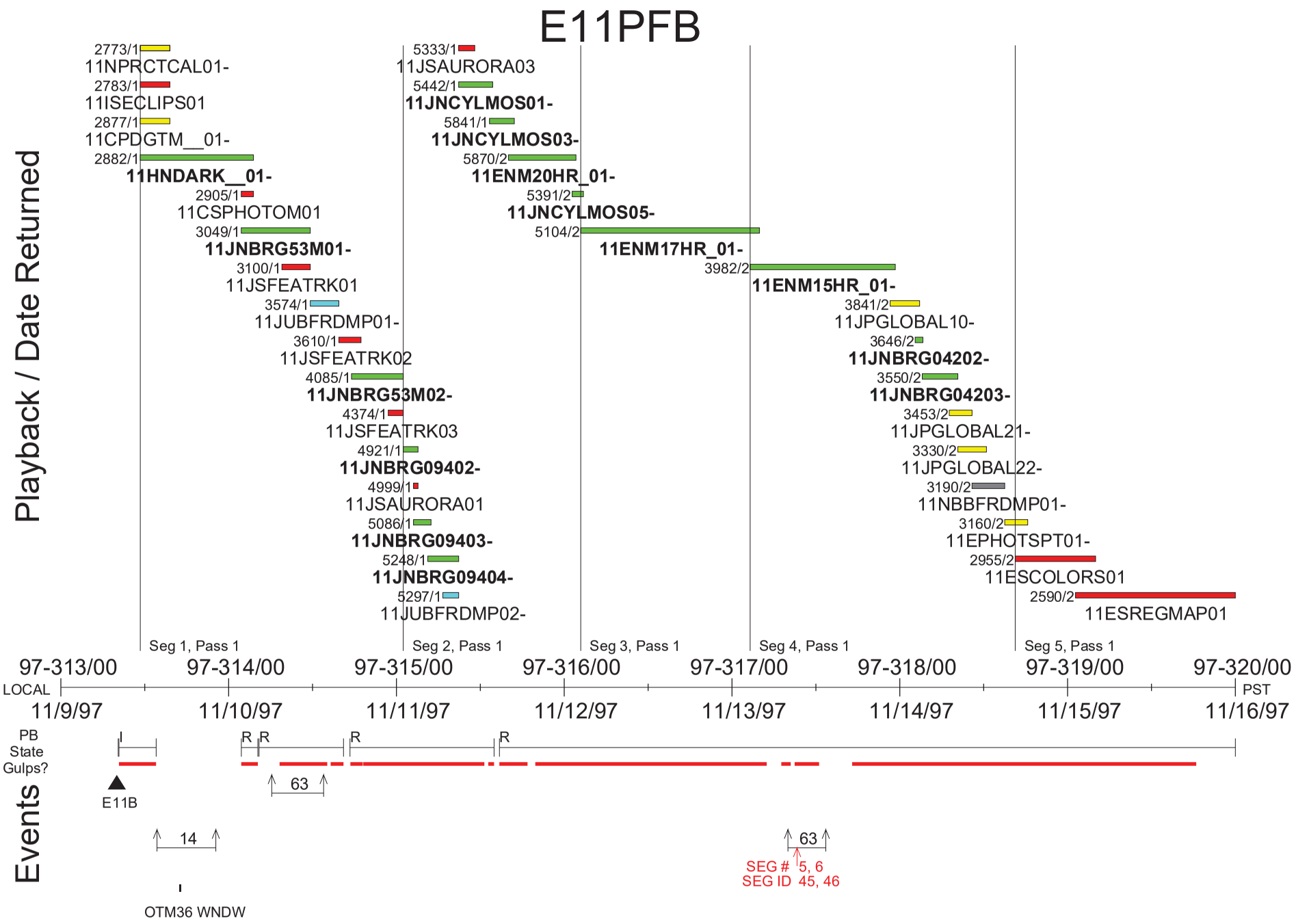
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3646/2
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3453/2
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3160/2
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2590/2
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97-314/00
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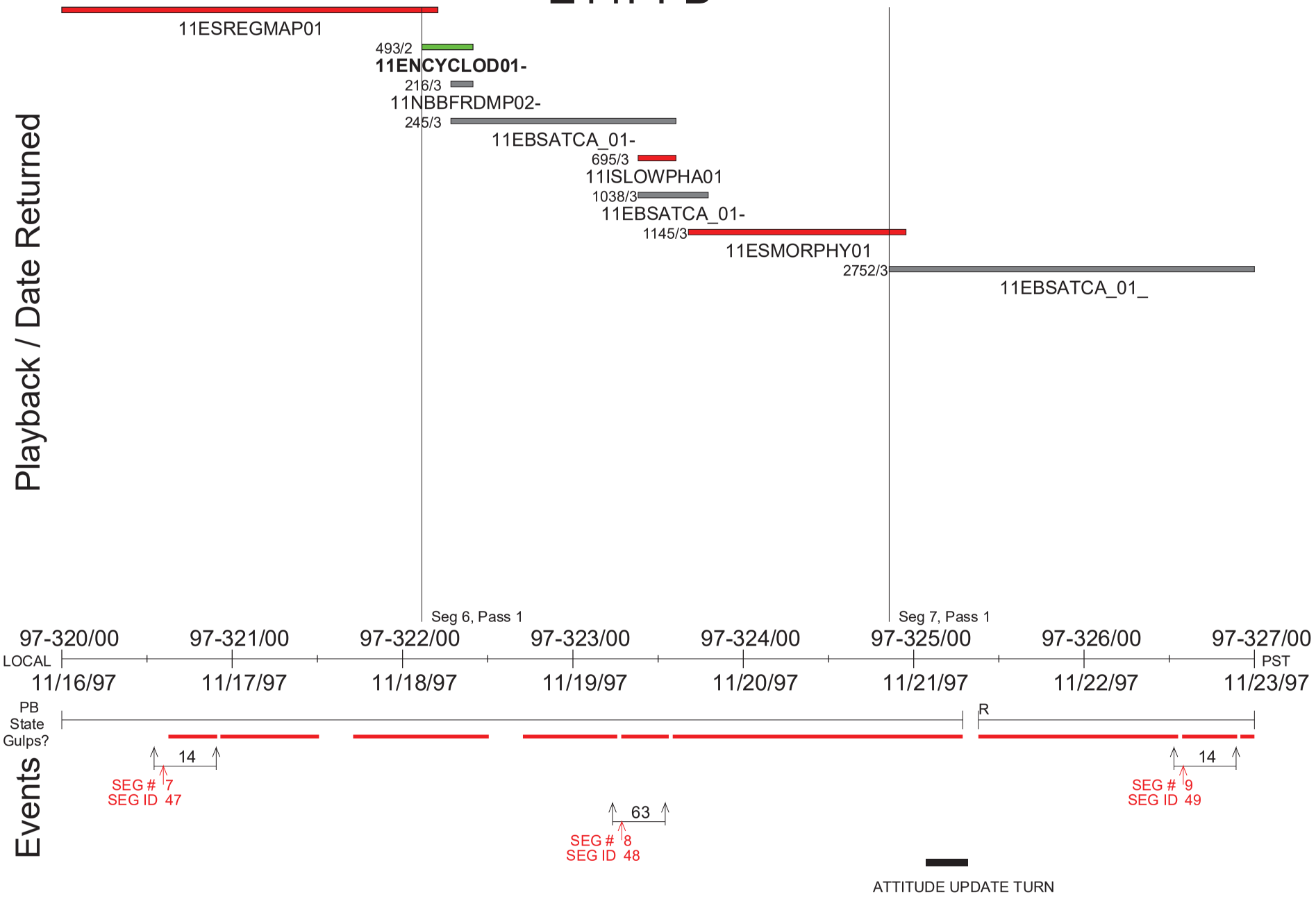
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695/3
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1038/3
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1145/3
11ESMORPHY01
2752/3
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SEG # 9
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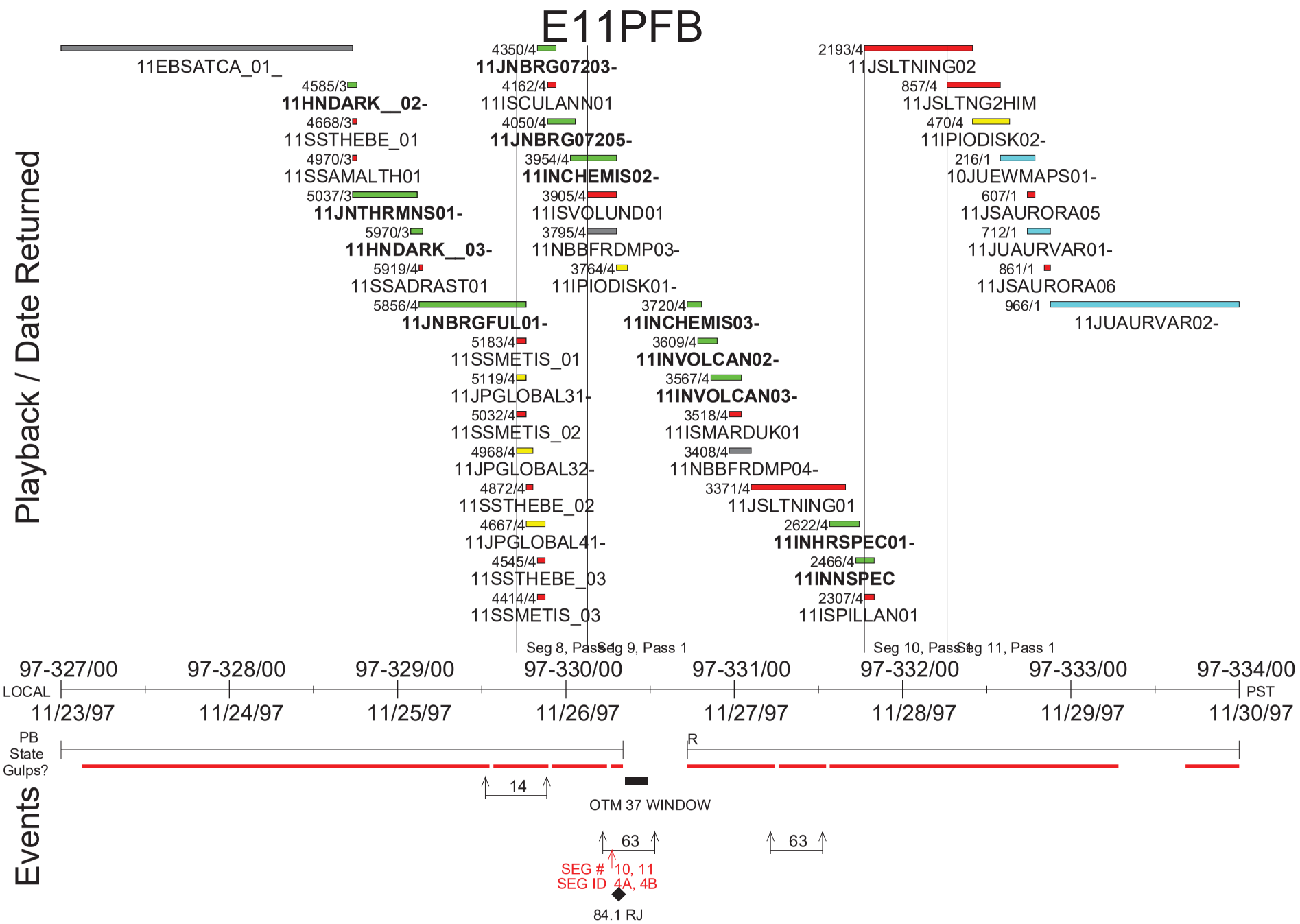
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5037/3
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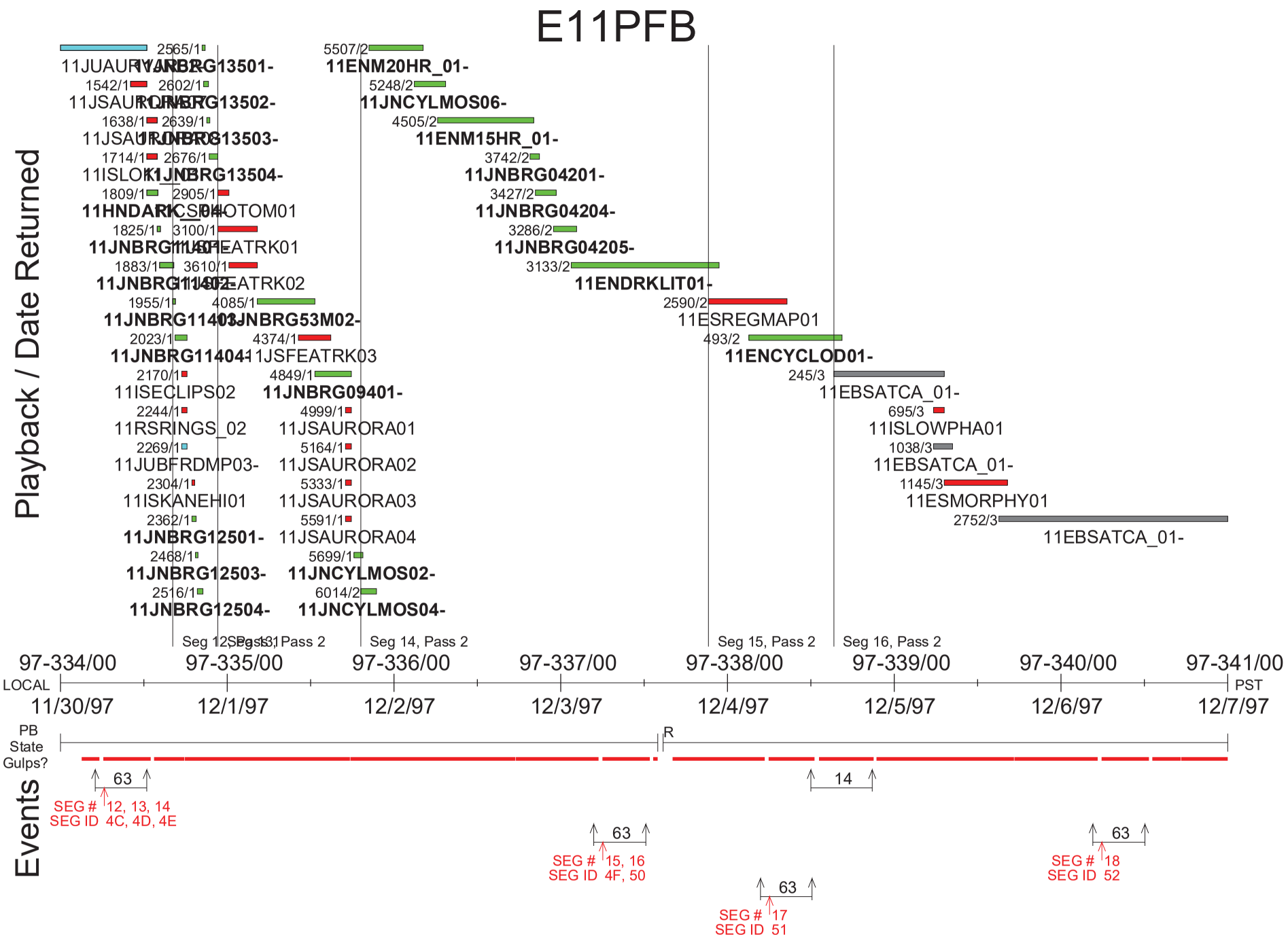
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SEG # 17
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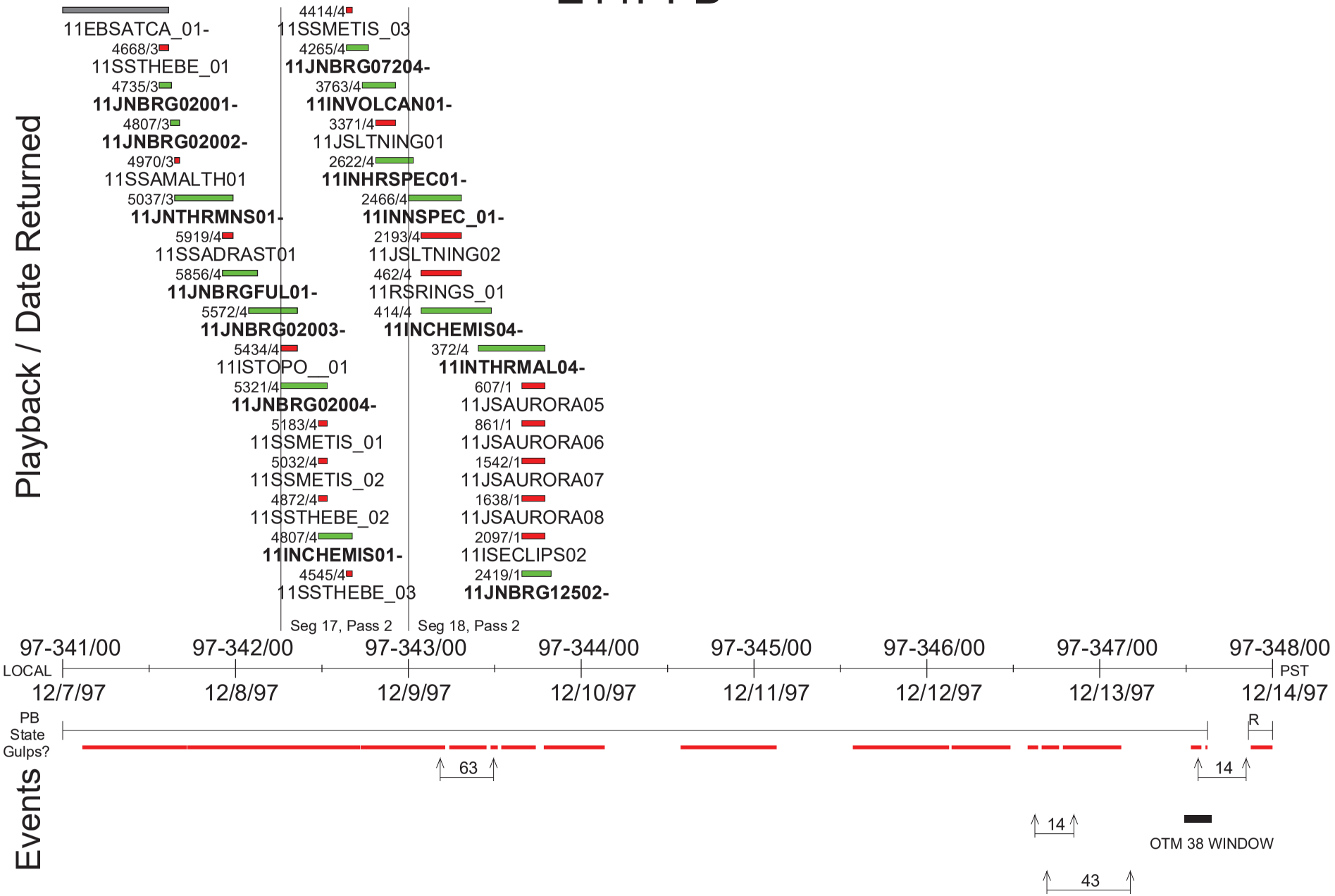
SEG # 18
SEG ID 52

E11PFB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2622/4
11INHRSPEC01-
2466/4
11INNSPEC_01-
2193/4
11JSLTNING02
462/4
11RSRINGS_01
414/4
11INCHEMIS04-
372/4
11INTHRMAL04-
607/1
11JSAURORA05
861/1
11JSAURORA06
1542/1
11JSAURORA07
1638/1
11JSAURORA08
2097/1
11ISECLIPS02
2419/1
11JNBRG12502-
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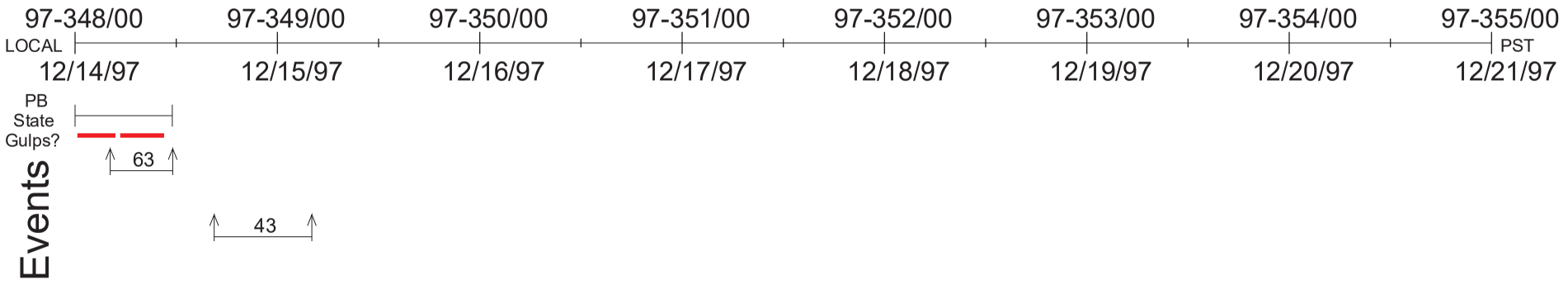
E11PFB

Playback / Date Returned



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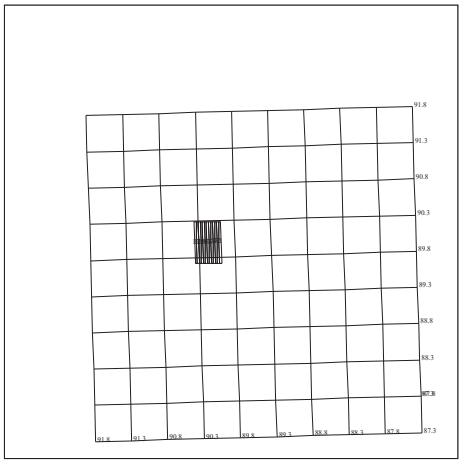
E11 NIMS A



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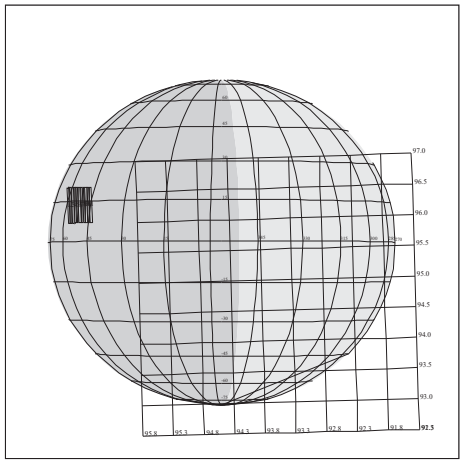

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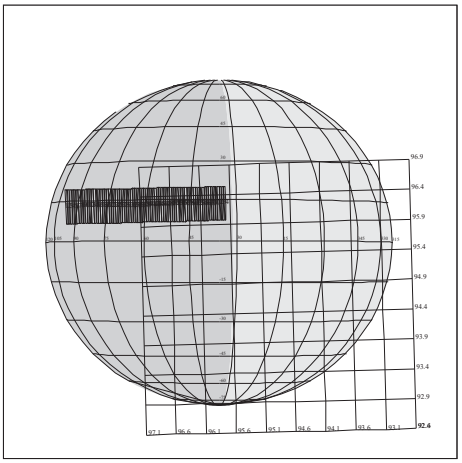

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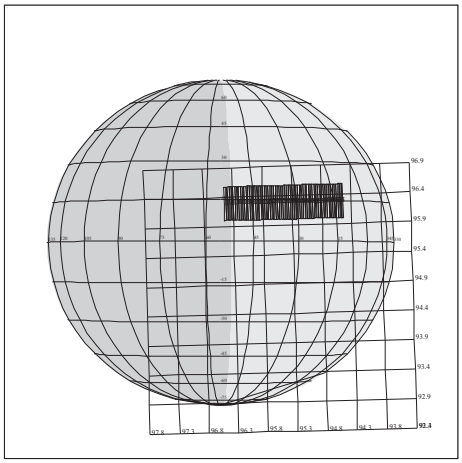

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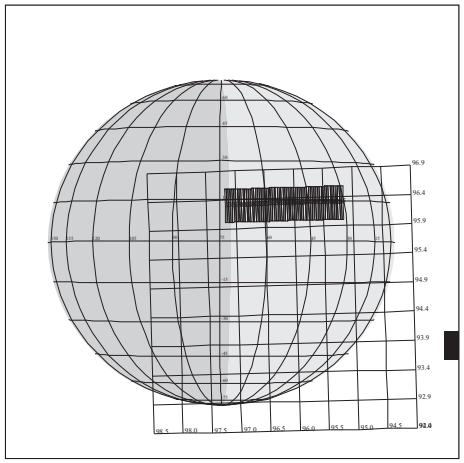

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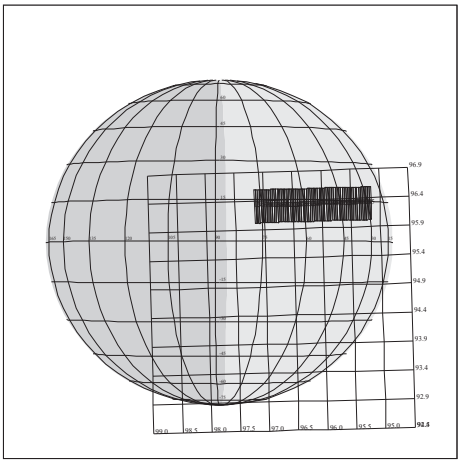

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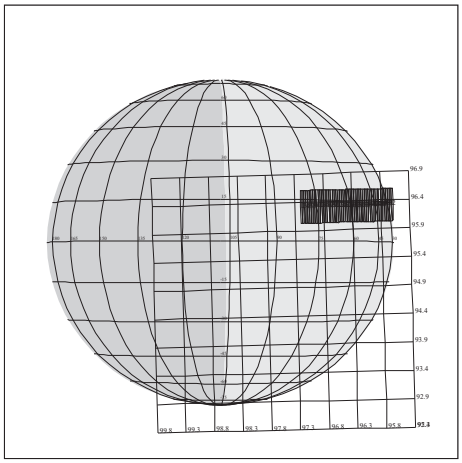

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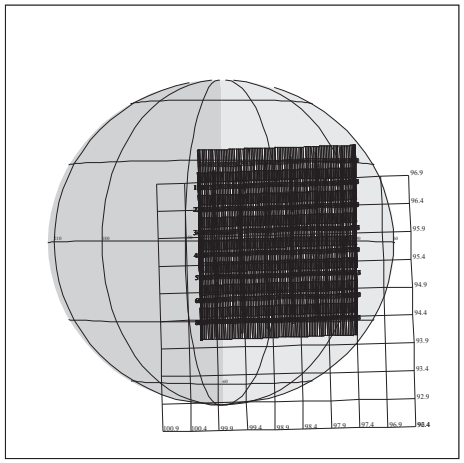

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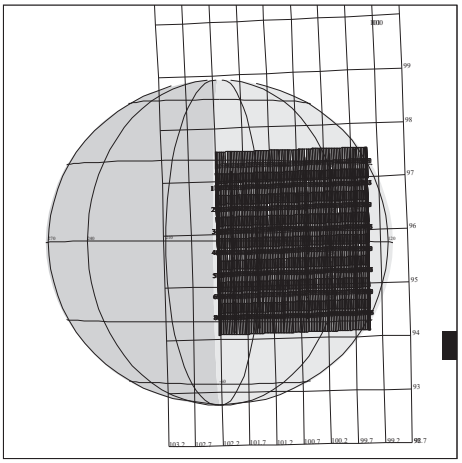

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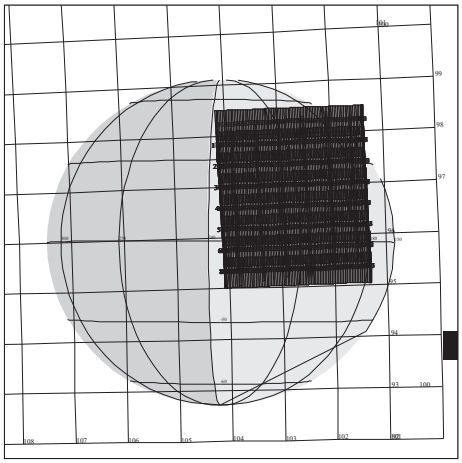
E11 NIMS B



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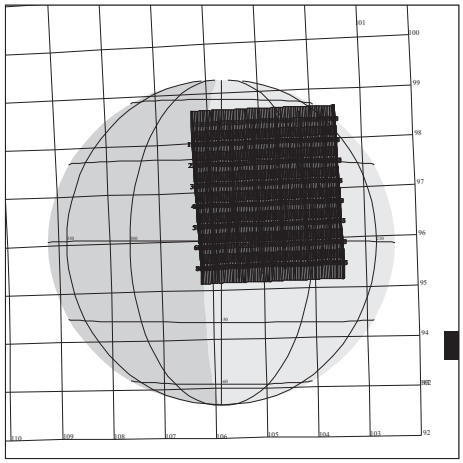

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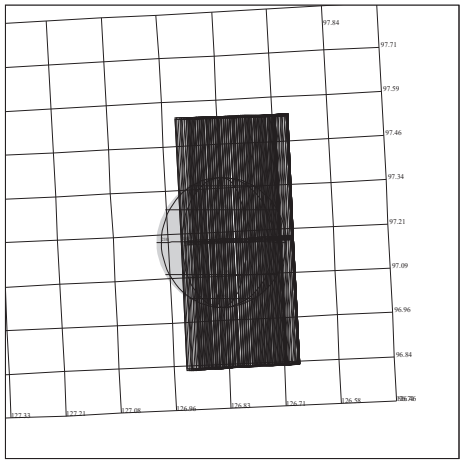

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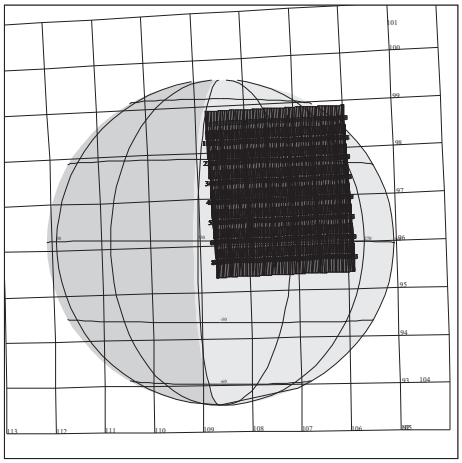

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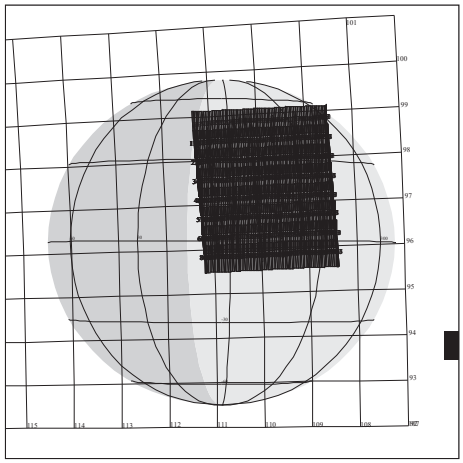

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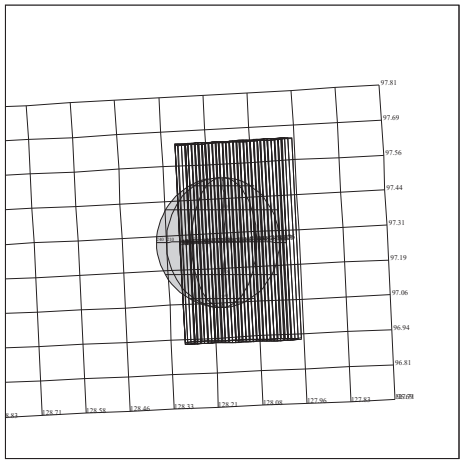

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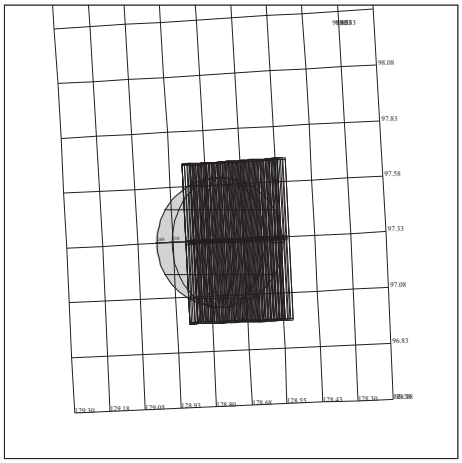

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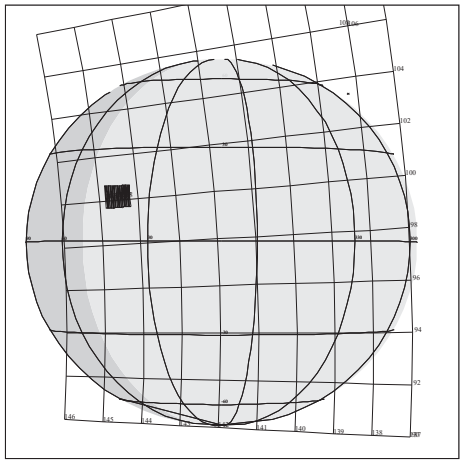

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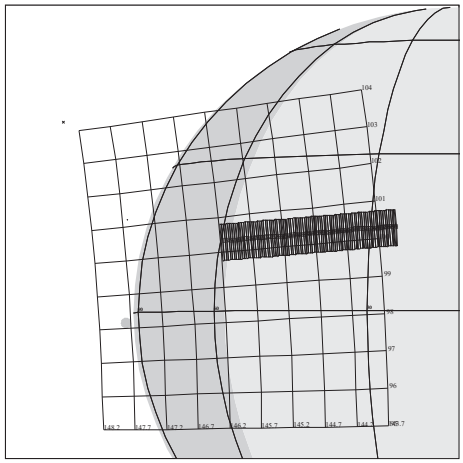

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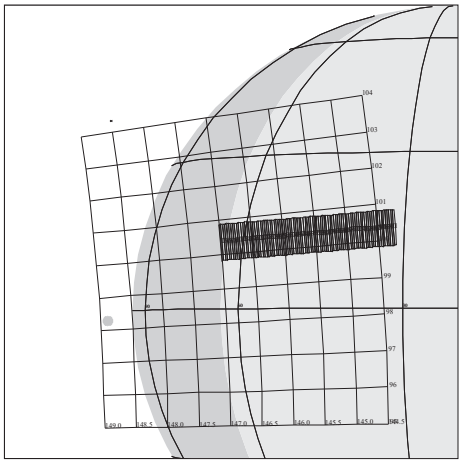

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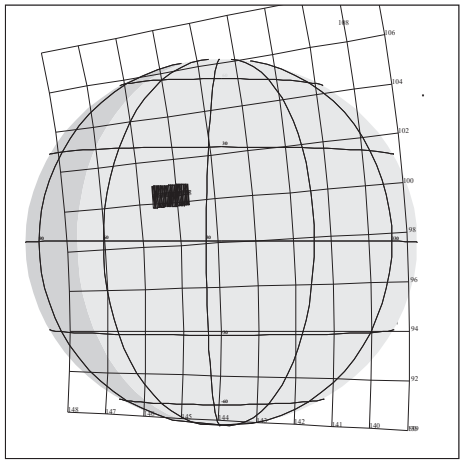

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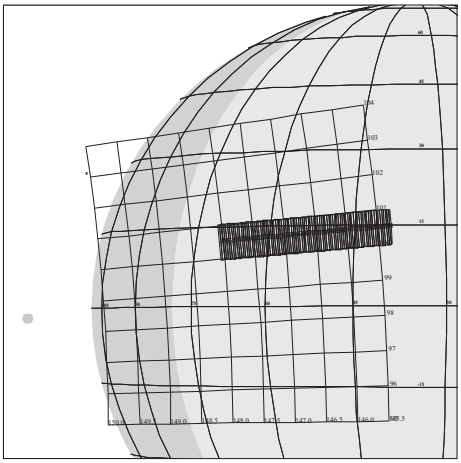

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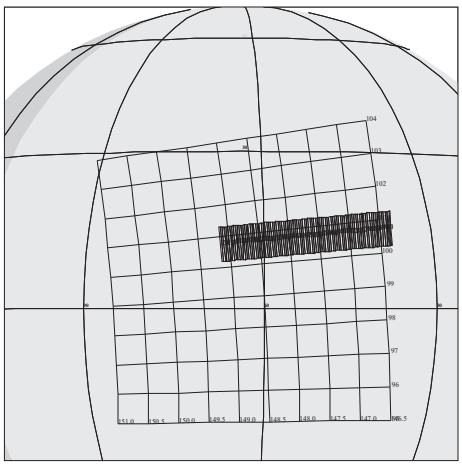

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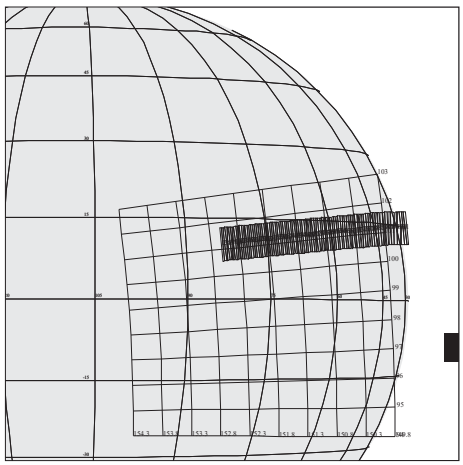

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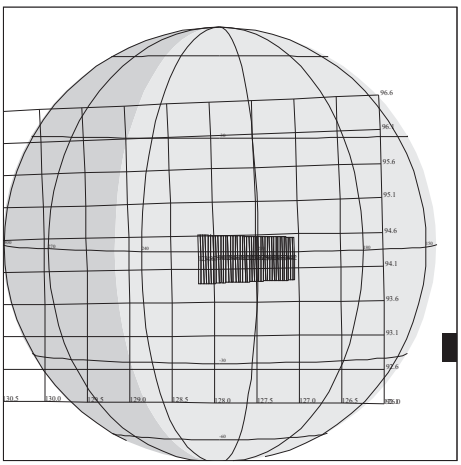

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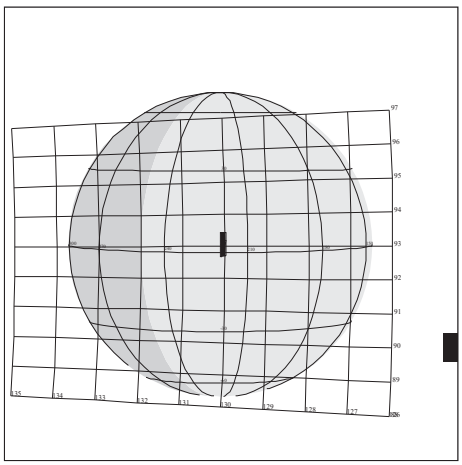

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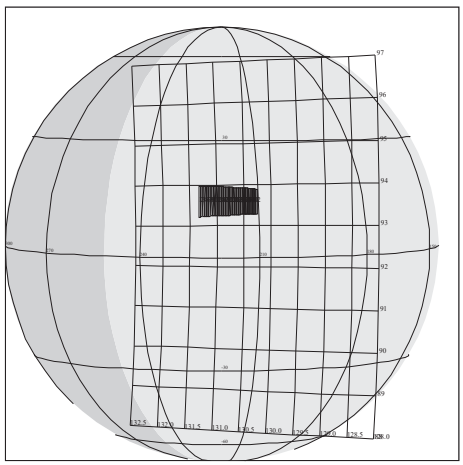

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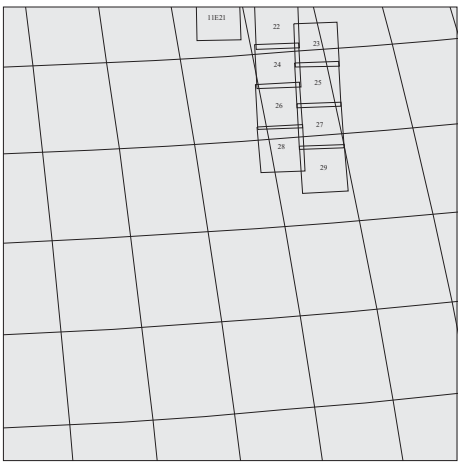

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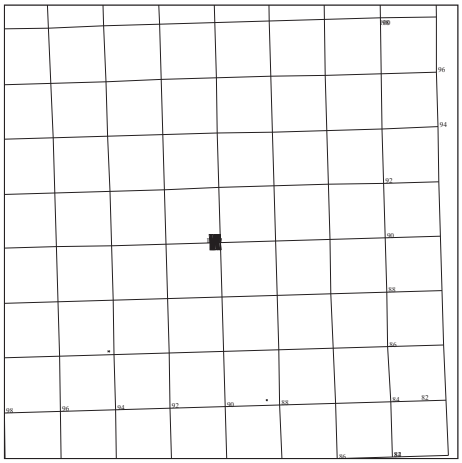
E11 NIMS D



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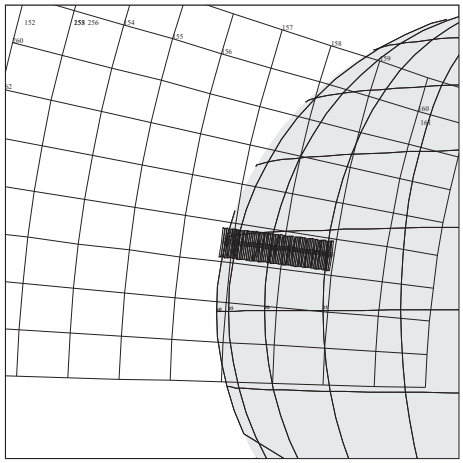

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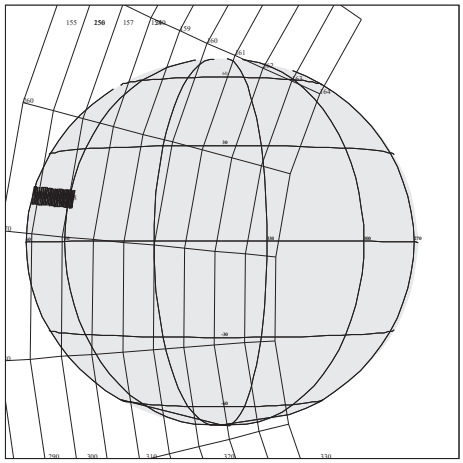

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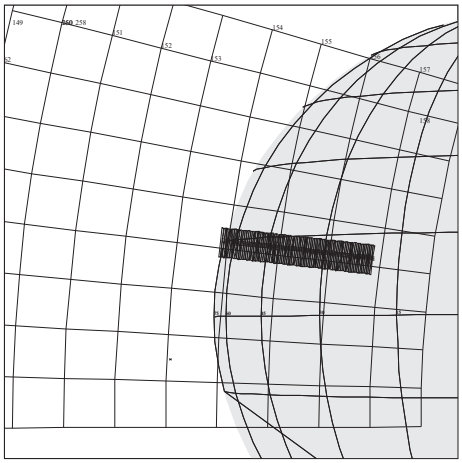

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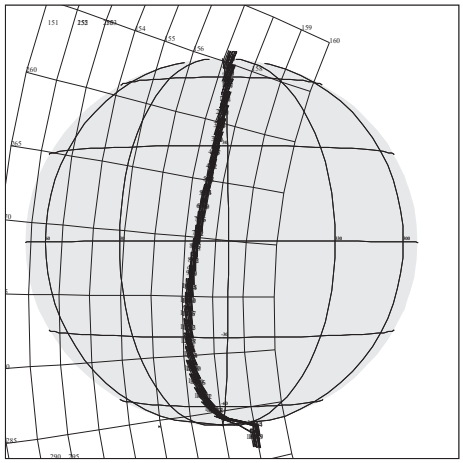

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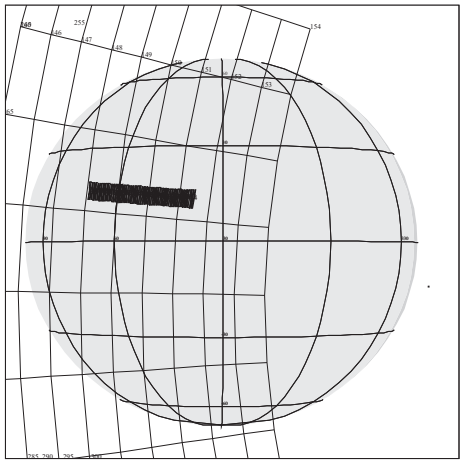

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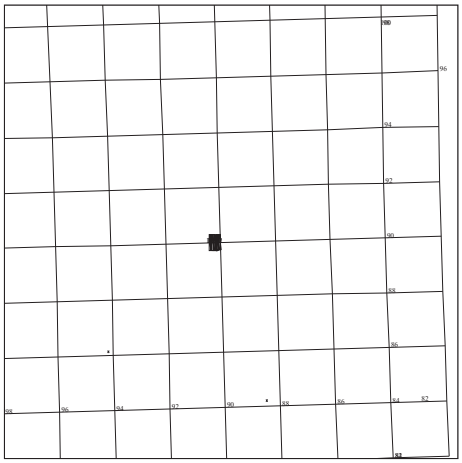

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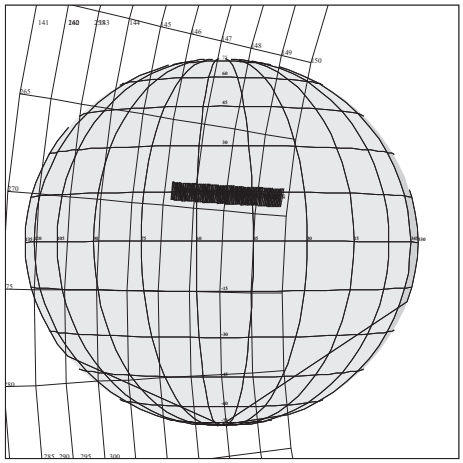

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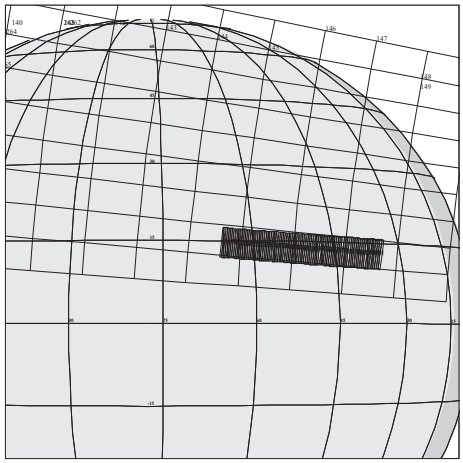

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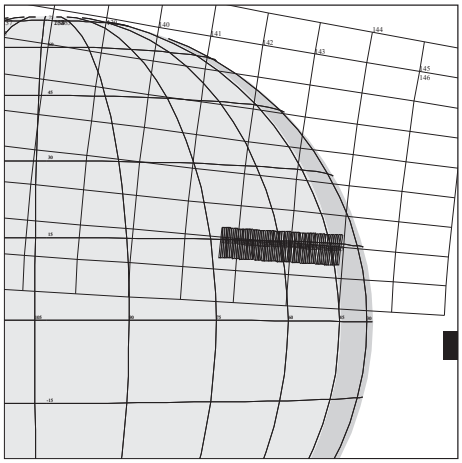

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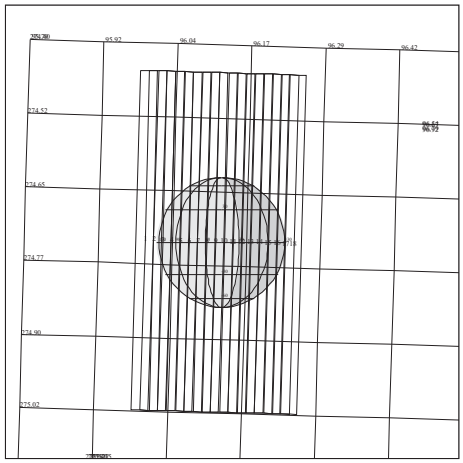

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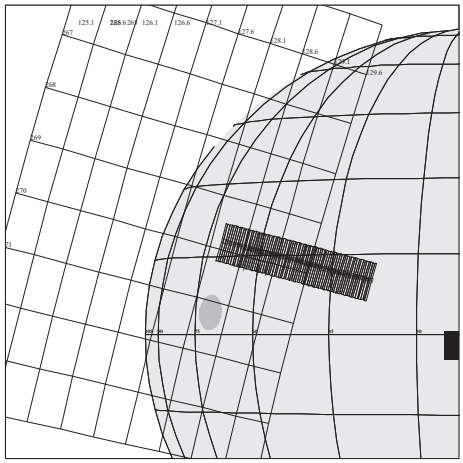

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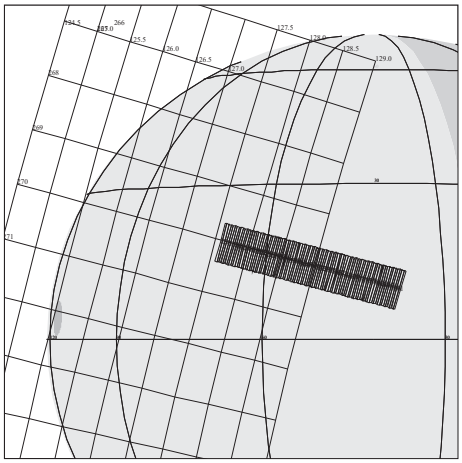

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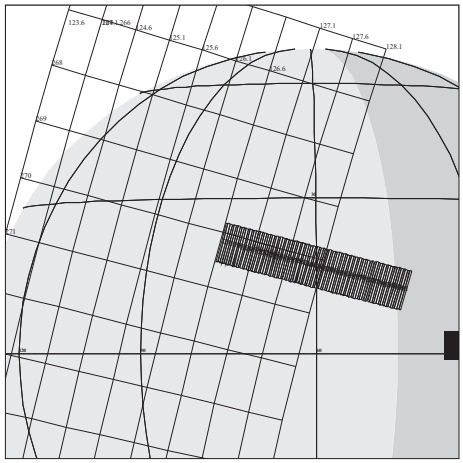

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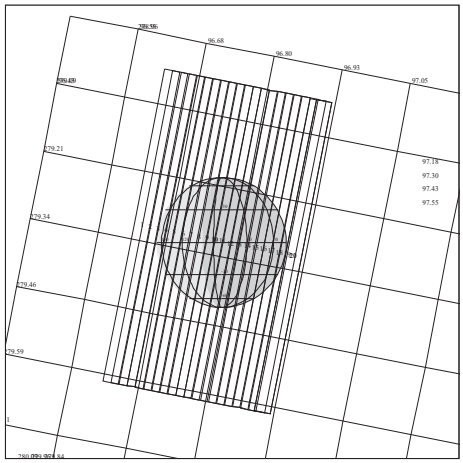

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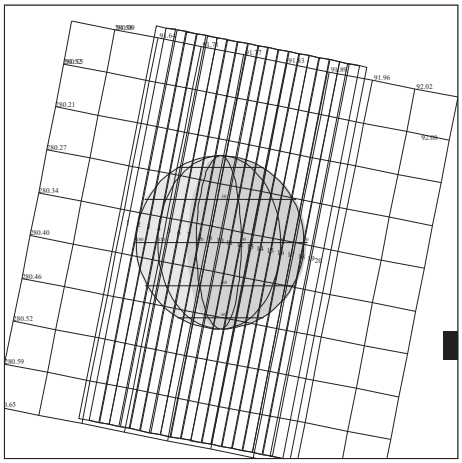

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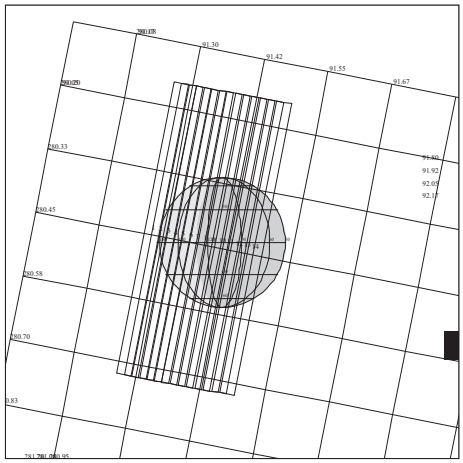

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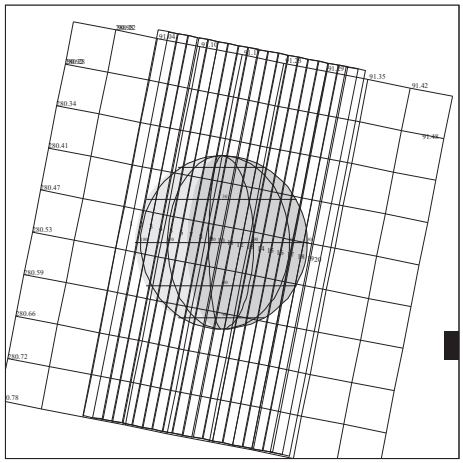

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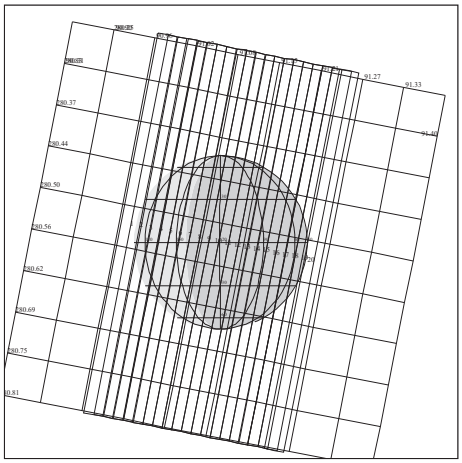
E11 NIMS F



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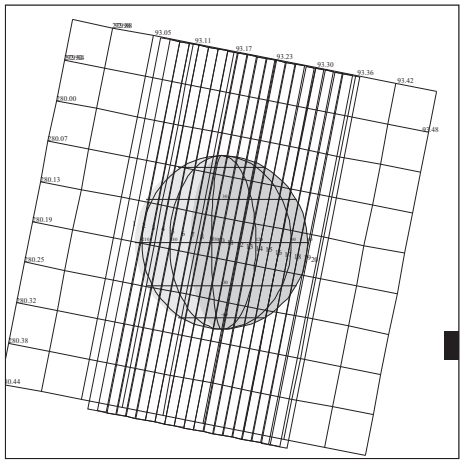

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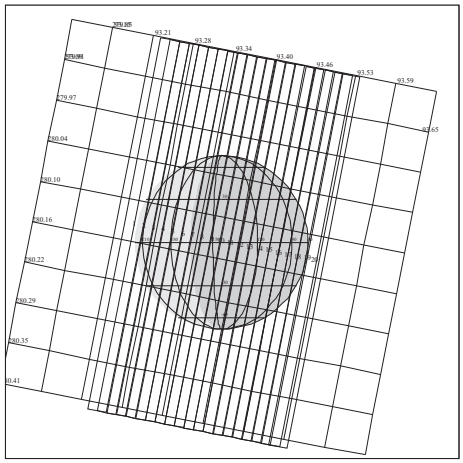

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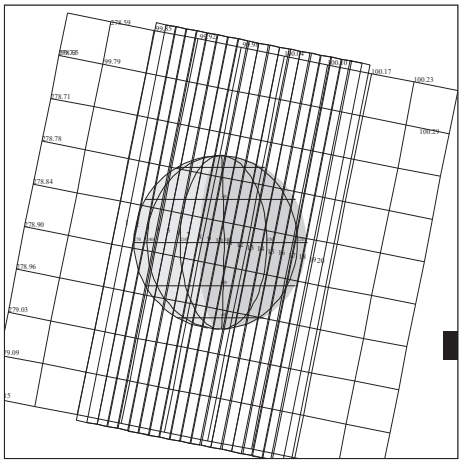

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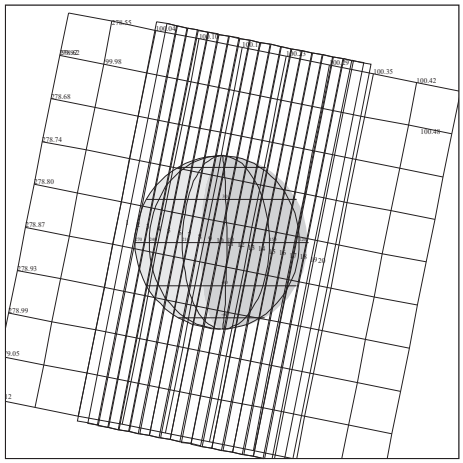

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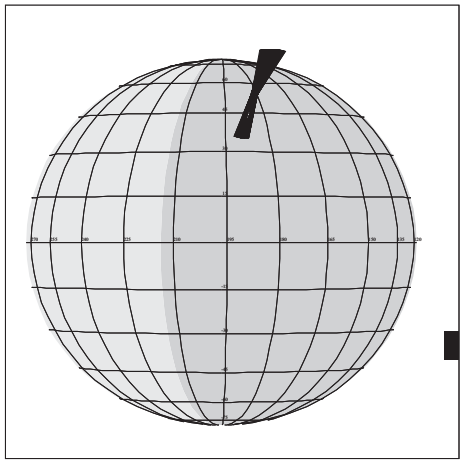

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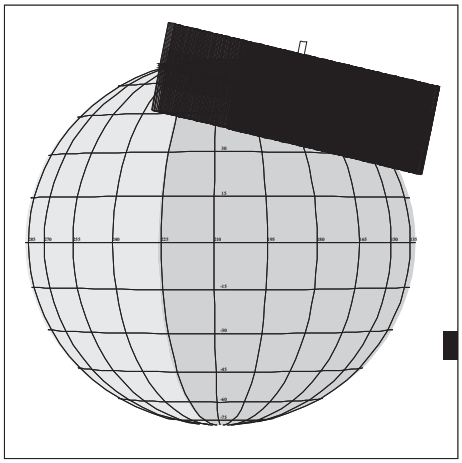

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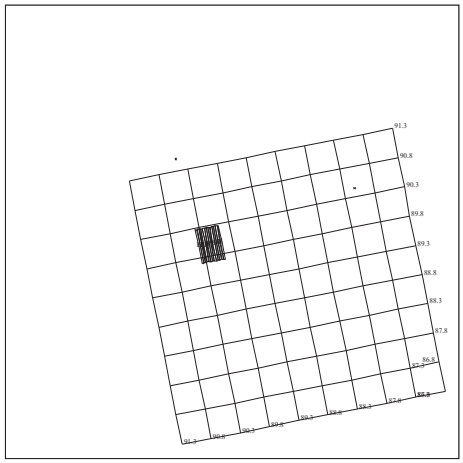

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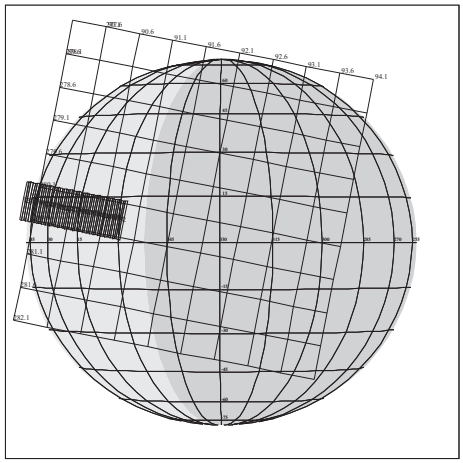

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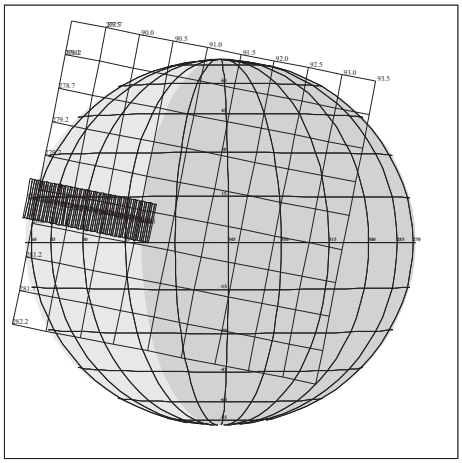
E11 NIMS G



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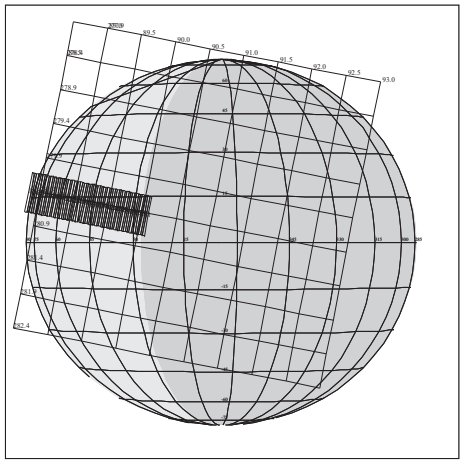

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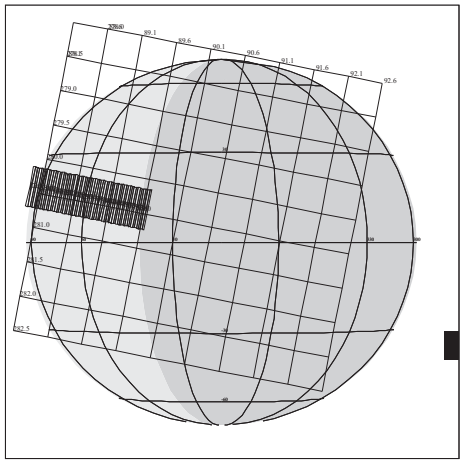

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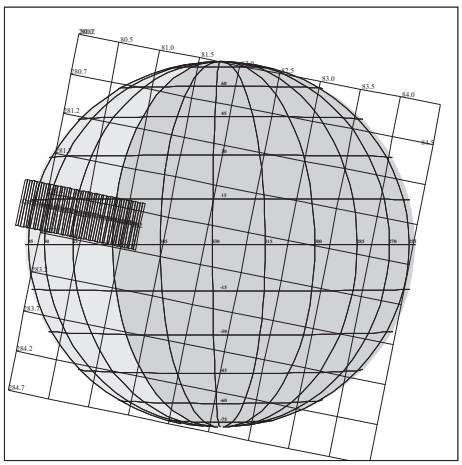

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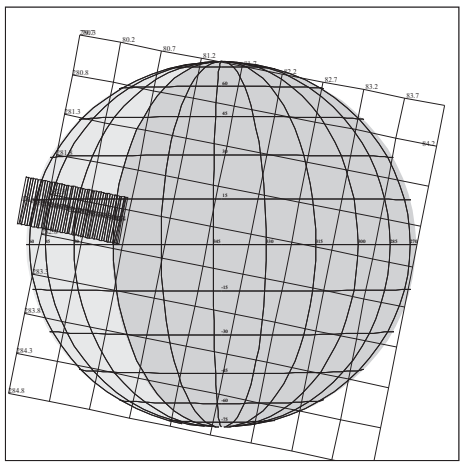

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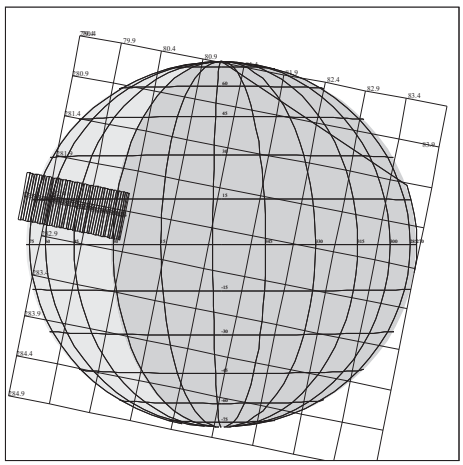

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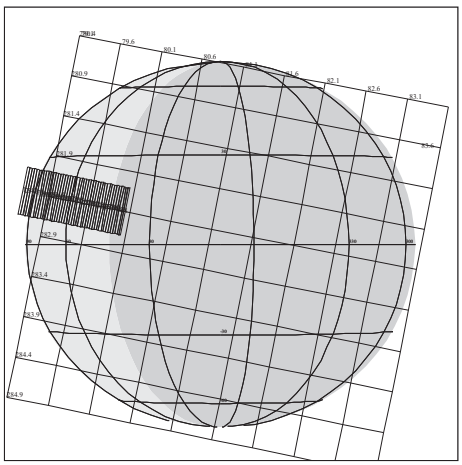

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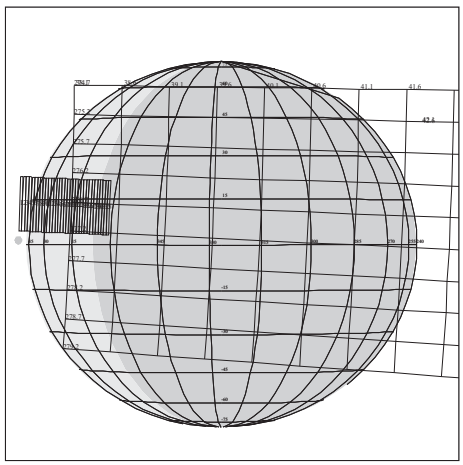

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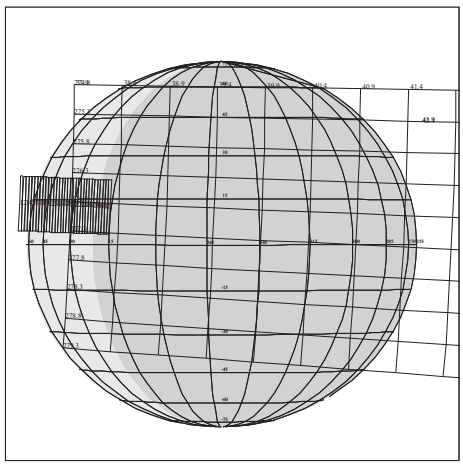

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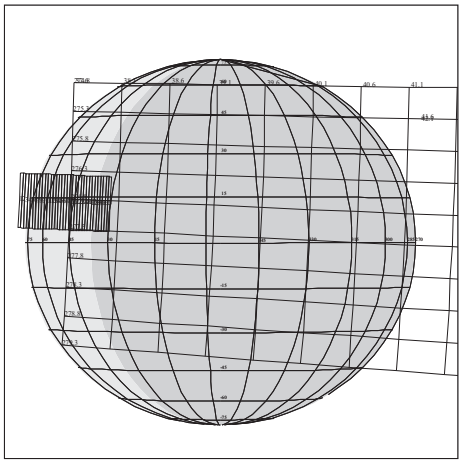
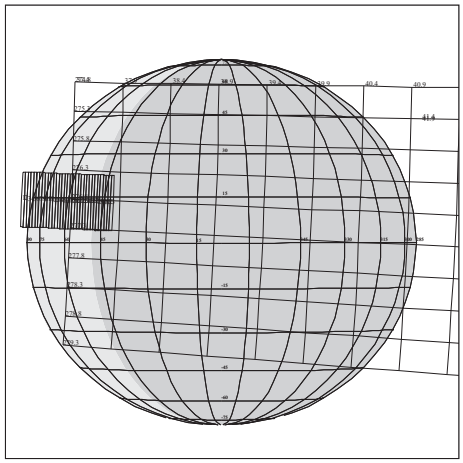
E11 NIMS H





11JNBRG13503
97-313/05:46:37

11JNBRG13504
97-313/06:06:50

Chapter 3 - Orbit Geometries

Contents

Introduction to Chapter 3

This chapter contains diagrams of various aspects of geometry for the E11 Orbit.

The figure on page 3 is a North Trajectory Pole View of the E11 Orbit from apoapsis to apoapsis.

The figure on page 4 is a North Trajectory Pole View of the E11 Orbit from +/- 5 days of Europa closest approach.

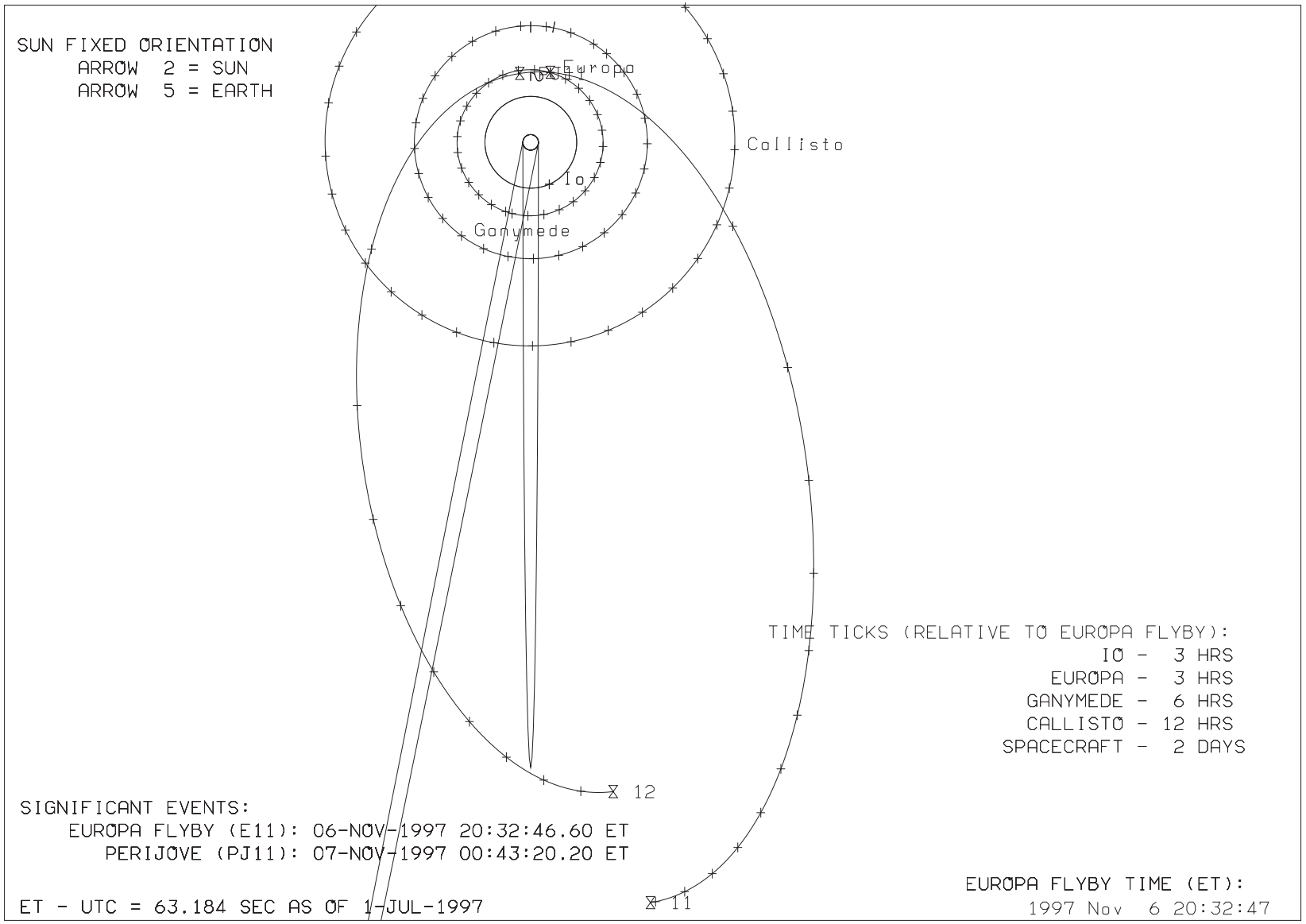
The figure on page 5 is a North Trajectory Pole View of the E11 Orbit from +/- 1 day of Europa closest approach.

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

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

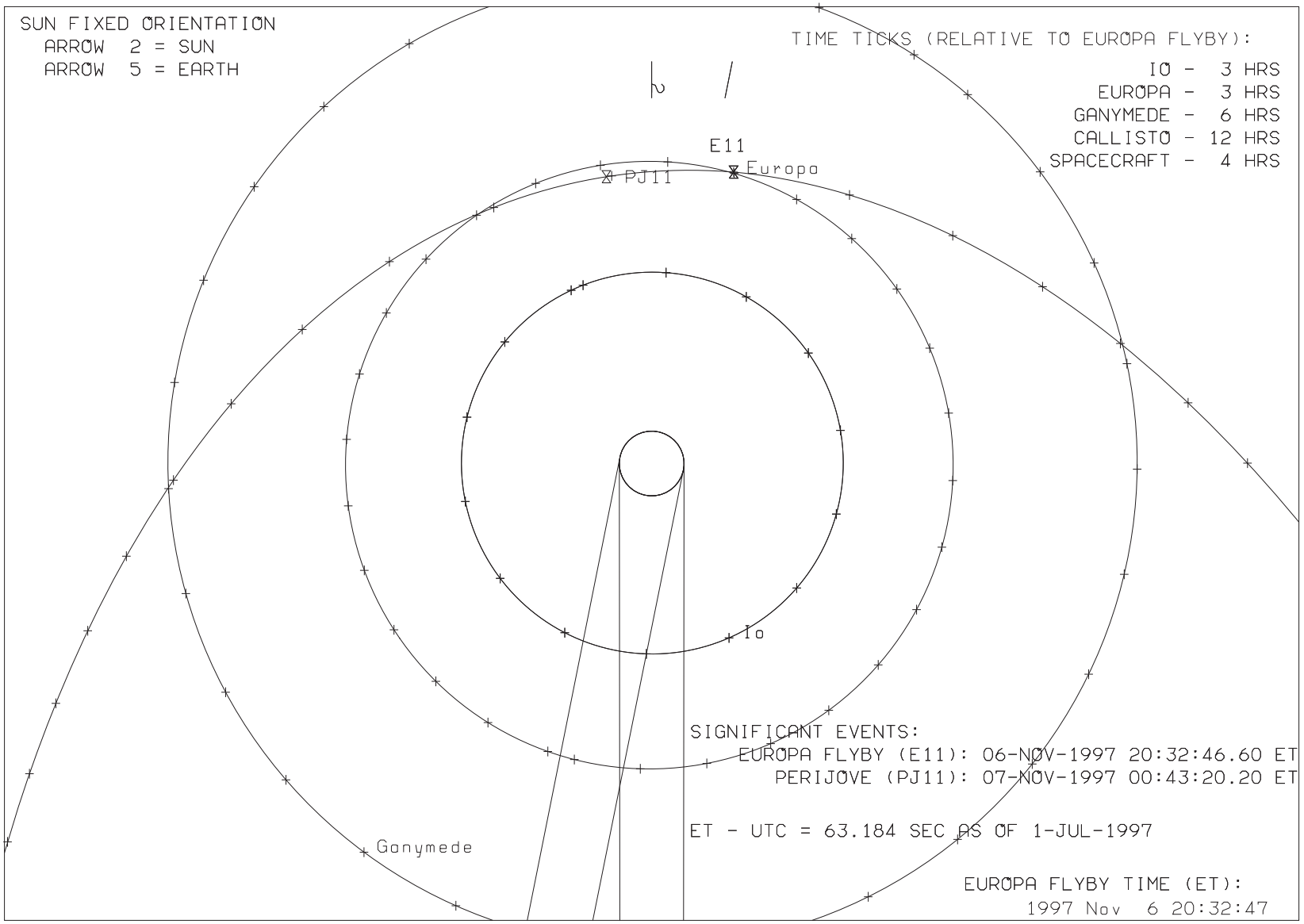
The figure on page 8 is a North Trajectory Pole View of the E11 Orbit from +/- 1 hour of Europa closest approach.

Jupiter 11: North Traj 5 Pole View (E11 Apo to Apo)



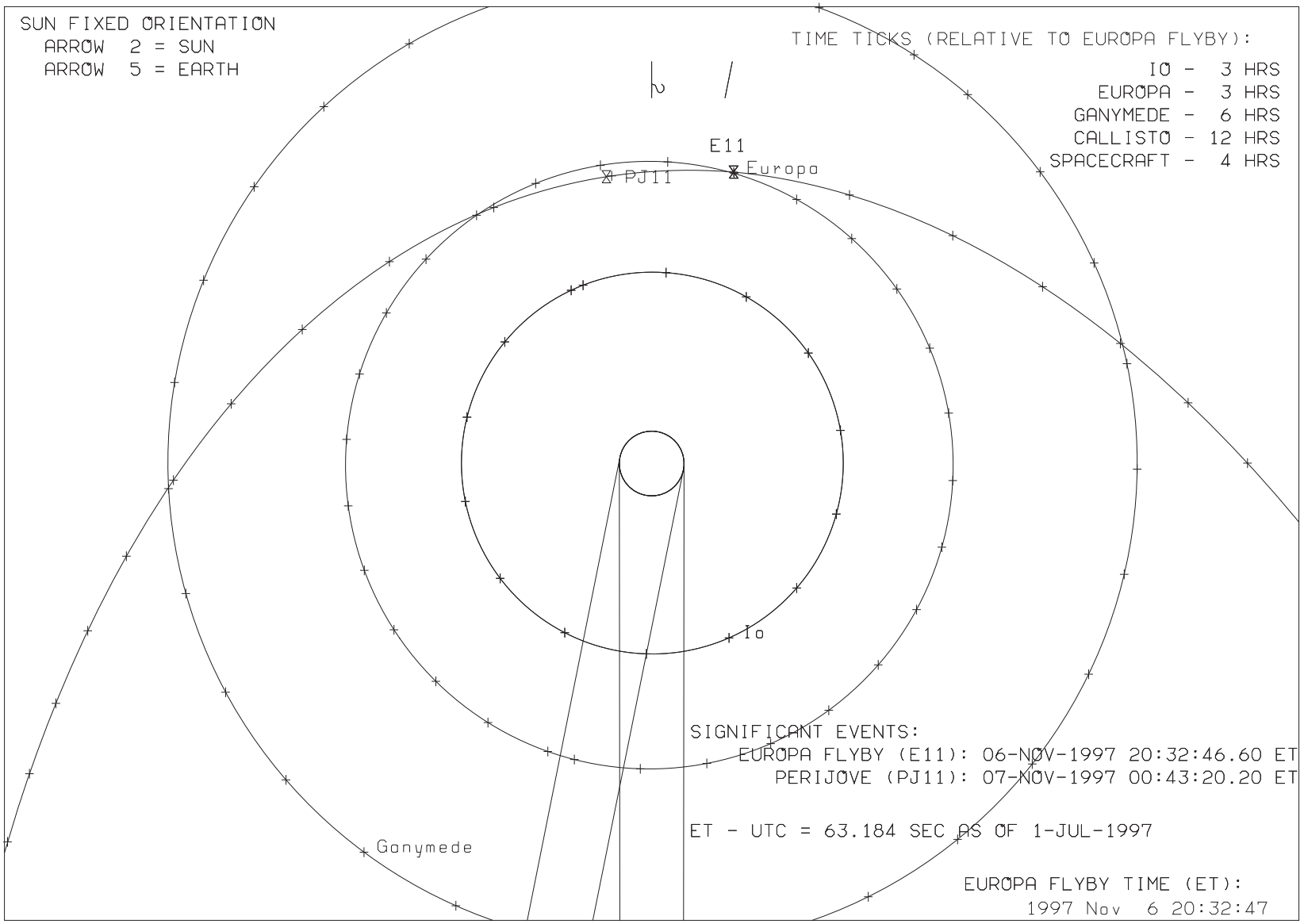
JLB 8/22/97

Jupiter 11: North Traj Pole View (E11 +/- 1 day)



JLB 8/22/97

Jupiter 11: North Traj Pole View (E11 +/- 1 day)



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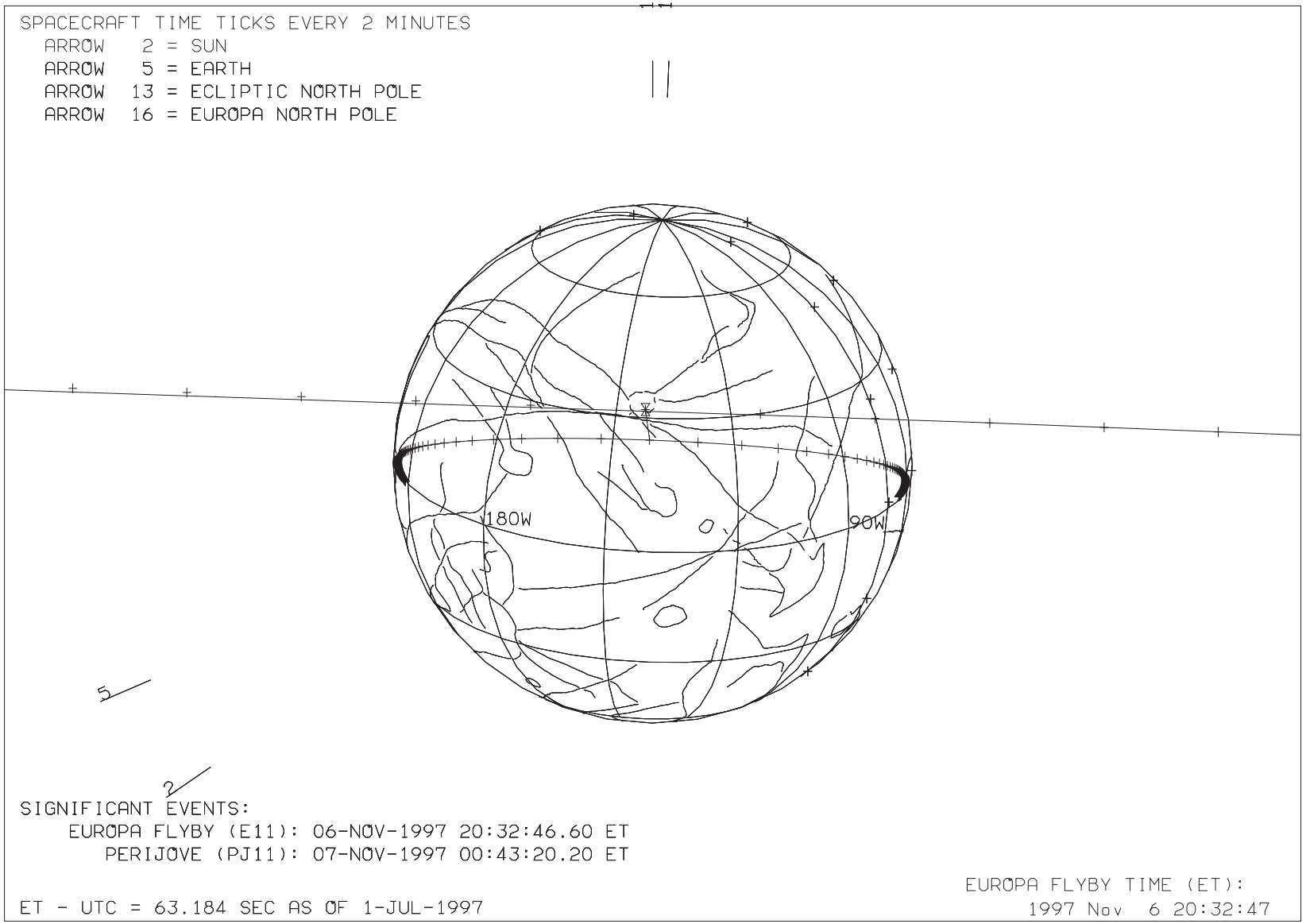
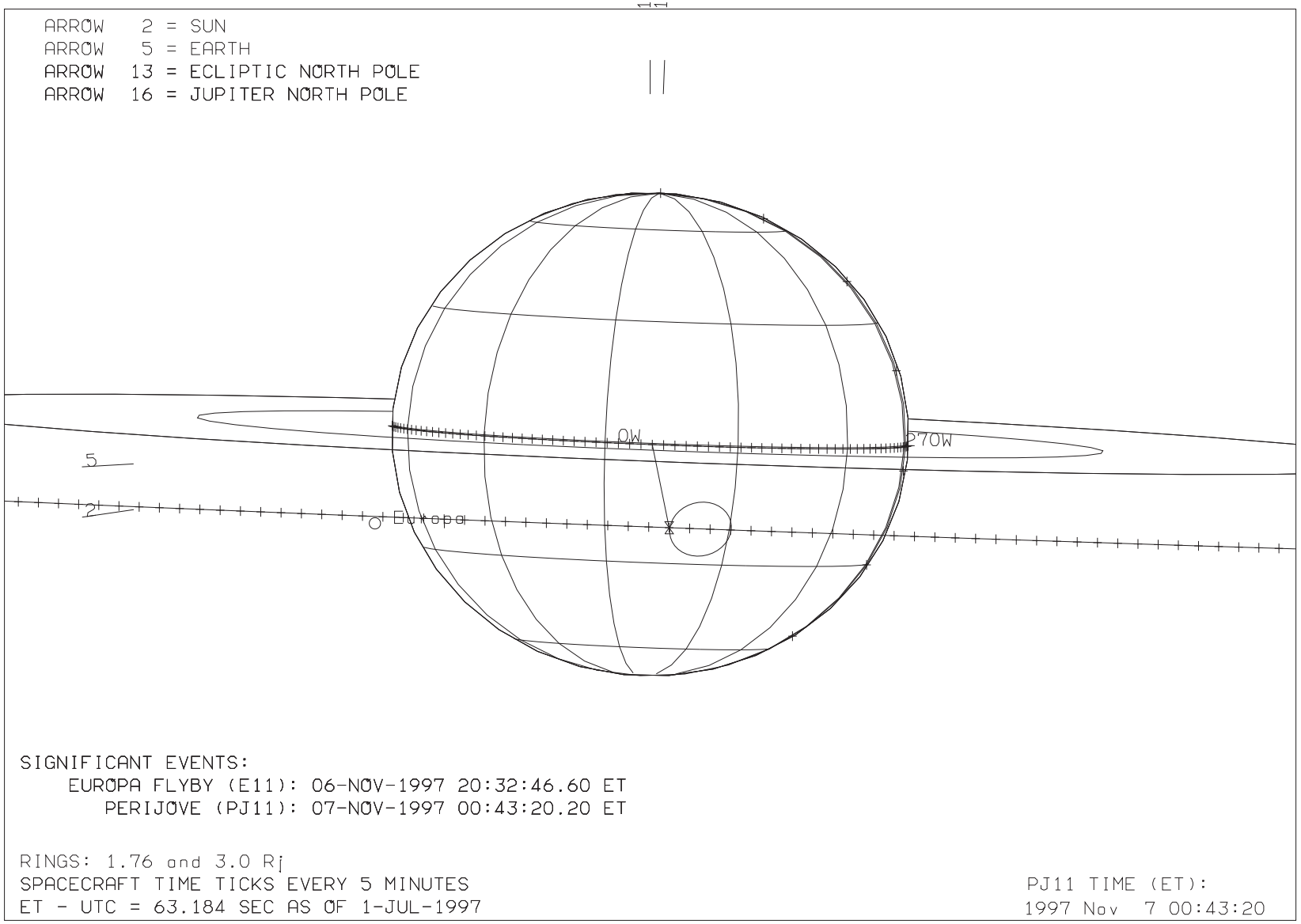
EUROPA 11: GROUNDTRACK AT CLOSEST APPROACH



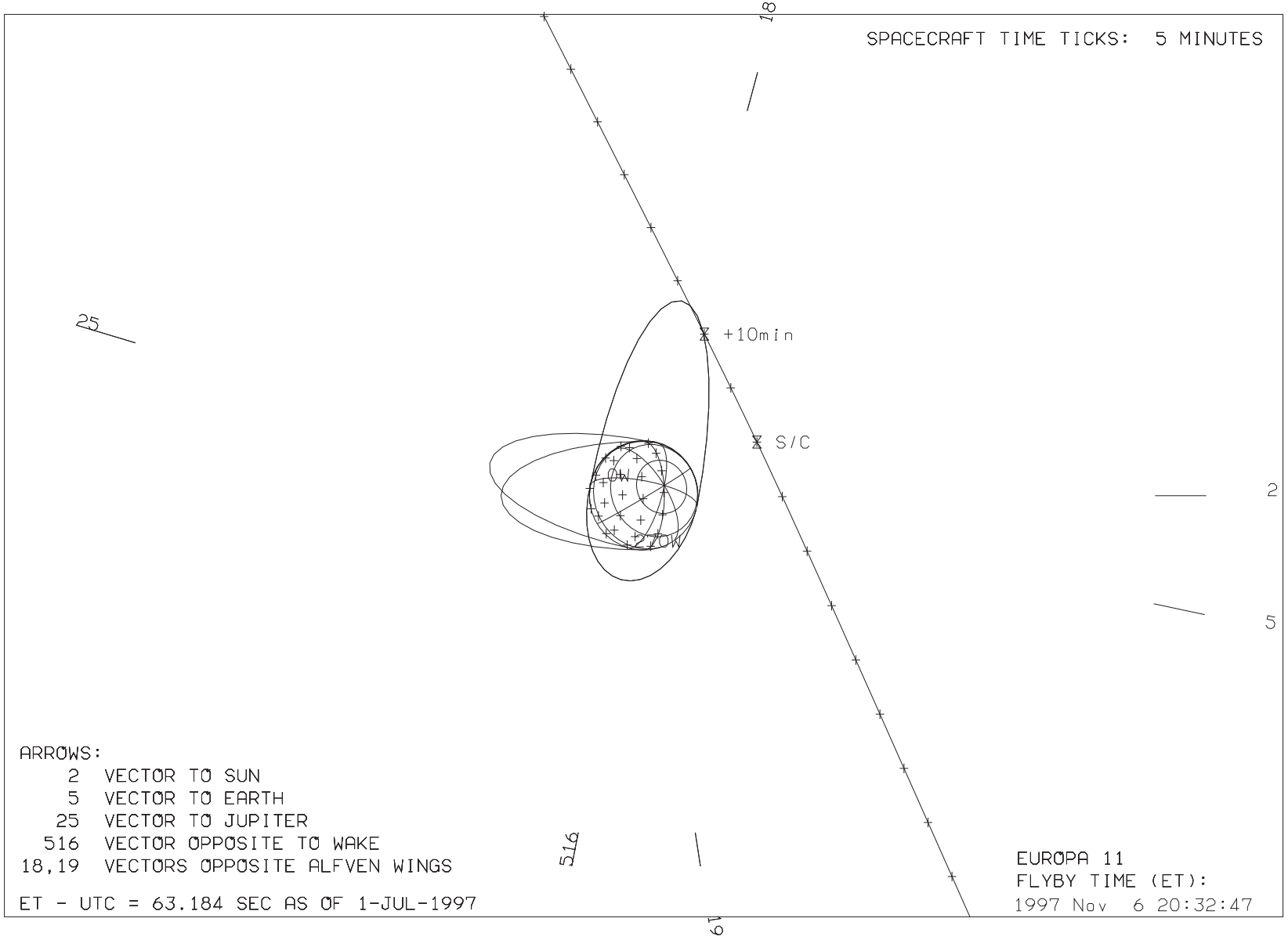
JLB 8/22/97

JUPITER 11: GROUNDTRACK AT CLOSEST APPROACH



JLB 8/22/97

EUROPA 11: CLOSEST APPROACH (N TRAJ POLE VIEW)



JLB 8/22/97

Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS E11 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 E11 Sequence. The information in this summary is derived from the E11 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 E11 data. It is also derived from the E11 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Sequence:	E11AIG	Created: 10/23/97	Begin: 97-306/16:00:00 Finish: 97-313/16:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	**97**	**306**	**16:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**4,200,293:43:0**
2	**97**	**306**	**16:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,200,293:43:0**
3	**97**	**306**	**16:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,200,293:43:0**
4	**97**	**306**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**4,200,293:43:0**
5	**97**	**306**	**16:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,200,293:43:0**
6	**97**	**306**	**16:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,200,293:43:0**
7	**97**	**306**	**16:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,200,293:43:0**
8	**97**	**306**	**16:00:00.000**	**20A3FE**	**40T1P**	**Initial Condition**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,200,293:43:0**
9	**97**	**306**	**16:00:00.000**	**20A3FF**	**40T2**	**Initial Condition**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,200,293:43:0**
10	97	306	16:00:00.000		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,200,293:43:0
11	97	306	16:01:00.000	20OA6A	6HICON			4O0	4	0	4,200,294:42:0
12	**97**	**306**	**16:01:31.333**	**432JA6B**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4O0**	**4**	**0**	**4,200,294:89:0**
13	97	306	16:01:32.000	432JA431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	4,200,294:90:0
14	**97**	**306**	**16:01:32.666**	**432JA6D**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**4O0**	**4**	**0**	**4,200,295:00:0**
15	97	306	16:01:32.666	432JA6C	6RTSL1		R/T Select of DDS and	4O0	4	0	4,200,295:00:0
16	97	306	16:01:36.000	488AA6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	4,200,295:05:0
17	97	306	16:02:00.000	488AA6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	4,200,295:41:0
18	97	306	16:05:00.666	41SF99A	**POWER**	**PWR MODE change**	**Change to Data Taking Mode**	4O0	4	0	4,200,298:39:0
19	**97**	**306**	**16:05:04.666**	**41SF3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,200,298:45:0**
20	**97**	**306**	**16:05:14.666**	**41SF3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,200,298:60:0**
21	**97**	**306**	**16:05:24.666**	**41SF3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,200,298:75:0**
22	**97**	**306**	**16:05:34.666**	**41SF3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,200,298:90:0**
23	97	306	16:06:00.000	432OY6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,200,299:37:0
24	97	306	16:31:00.000	444UA443A4B	**7MODE**	**INT**	**AACS INERTIAL MODE**	4O0	4	0	4,200,324:12:0
25	97	306	16:57:08.666	165CA4A	7SCAN	NORM,222.644999,	Check S/P Position	4O0	4	0	4,200,349:90:0
26	97	306	17:27:28.666	165CB4A	7SCAN	NORM,224.485998,	Check S/P Position	4O0	4	0	4,200,379:90:0
27	97	306	17:31:30.666	165CB4B	7VECT		Inert vect update UTC	4O0	4	0	4,200,383:89:0
28	97	306	19:14:39.266	165CC4A	7SCAN	NORM,225.365,-19	Check S/P Position	4O0	4	0	4,200,485:90:0
29	97	306	19:18:41.266	165CC4B	7VECT		Inert vect update UTC	4O0	4	0	4,200,489:89:0
30	97	306	20:18:21.266	165AA4A	7SCAN	NORM,239.821999,	Check S/P Position	4O0	4	0	4,200,548:90:0
31	97	306	20:22:15.266	117AA	**CSMOS**	GS	***** GROUP START CSMOS	4O0	4	0	4,200,552:77:0
32	97	306	20:22:24.600	117AA105A106A4A	7STRP	-0.016001,0.0,0,	Slew =,0.01	4O0	4	0	4,200,553:00:0
33	97	306	20:50:43.266	117AA105A106A4B	7STRP	0.017002,0.0,0,0	Slew =12.01	4O0	4	0	4,200,581:00:0
34	97	306	20:51:43.933	117AA105A106A4C	7STRP	-0.016001,0.0,0,	Slew =,0.01	4O0	4	0	4,200,582:00:0
35	97	306	21:20:02.600	117AA11A	**CSMOS**	GE	***** GROUP END CSMOS	4O0	4	0	4,200,610:00:0
36	97	306	21:21:02.600	165AZ4A	7SCAN	NORM,279.183998,	Check S/P Position	4O0	4	0	4,200,610:90:0
37	97	306	21:22:55.266	117AZ	**CSMOS**	GS	***** GROUP START CSMOS	4O0	4	0	4,200,612:77:0
38	97	306	21:23:04.600	117AZ105A106A4A	7STRP	-0.016001,0.0,0,	Slew =,0.01	4O0	4	0	4,200,613:00:0
39	97	306	21:45:03.933	488AA6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,200,634:68:0
40	97	306	21:51:23.266	117AZ105A106A4B	7STRP	0.017002,0.0,0,0	Slew =12.01	4O0	4	0	4,200,641:00:0
41	97	306	21:52:23.933	117AZ105A106A4C	7STRP	-0.016001,0.0,0,	Slew =,0.01	4O0	4	0	4,200,642:00:0
42	97	306	22:20:42.600	117AZ11A	**CSMOS**	GE	***** GROUP END CSMOS	4O0	4	0	4,200,670:00:0
43	97	306	22:35:13.266	488AB6A	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,200,684:32:0
44	97	306	23:04:19.933	488AB6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,200,713:13:0
45	97	306	23:55:11.933	488AB6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4O0	4	0	4,200,763:41:0
46	97	307	00:29:59.933	488AB6D	6TMSED	NORM,HL6	Sci, Eng, and D/L Chan	4O0	4	0	4,200,797:79:0
47	97	307	01:50:23.933	488AB6E	6TMSED	NORM,HL7	Sci, Eng, and D/L Chan	4O0	4	0	4,200,877:35:0
48	97	307	02:17:49.933	488AC6A	6TMSED	FILL,HL7	Sci, Eng, and D/L Chan	4O0	4	0	4,200,904:47:0
49	97	307	02:20:15.933	488AC6B	6TMSED	FILL,HL8	Sci, Eng, and D/L Chan	4O0	4	0	4,200,906:84:0
50	97	307	02:21:55.933	488AC6C	6TMSED	NORM,HL8	Sci, Eng, and D/L Chan	4O0	4	0	4,200,908:52:0
51	97	307	02:52:41.933	465WK6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	4,200,939:00:0
52	97	307	02:52:41.933		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,200,939:00:0
53	97	307	02:52:41.933		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,200,939:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	97	307	02:52:41.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,200,939:00:0	
55	97	307	02:52:48.600		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,200,939:10:0	
56	97	307	02:52:50.000		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	4,200,939:12:1	
57	97	307	05:32:26.600	165CD4A	7SCAN	NORM,230.981998,	Check S/P Position	4O0	4	0	4,201,096:90:0	
58	97	307	05:36:28.600	165CD4B	7VECT		Inert vect update UTC	4O0	4	0	4,201,100:89:0	
59	97	307	06:06:49.266	165BA4A	7SCAN	NORM,236.995998,	Check S/P Position	4O0	4	0	4,201,130:90:0	
60	97	307	08:33:50.733		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *4997.94 +/-	4O0	4	0	4,201,276:36:2	
61	97	307	08:33:51.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	4O0	4	0	4,201,276:38:0	
62	97	307	08:46:23.266	465WL6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,201,288:73:0	
63	97	307	08:46:23.266		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	4O0	4	0	4,201,288:73:0	
64	97	307	08:46:24.666		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	4O0	4	0	4,201,288:75:1	
65	97	307	08:46:29.933		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	4O0	4	0	4,201,288:83:0	
66	97	307	08:46:31.133		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	4O0	4	0	4,201,288:84:8	
67	97	307	08:46:35.000		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	4O0	4	0	4,201,288:90:6	
68	97	307	08:46:35.000		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	4O0	4	0	4,201,288:90:6	
69	97	307	09:12:15.266		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 255.79 +/-	4O0	4	0	4,201,314:35:0	
70	97	307	09:12:15.266	465WL6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,201,314:35:0	
71	97	307	09:12:16.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	4O0	4	0	4,201,314:36:8	
72	97	307	10:29:59.933	488AD6A	6TMSED	NORM,EL8	Sci, Eng, and D/L Chan	4O0	4	0	4,201,391:25:0	
73	97	307	10:53:07.266	488AD6B	6TMSED	NORM,EH8	Sci, Eng, and D/L Chan	4O0	4	0	4,201,414:13:0	
74	97	307	11:10:03.266	465WM6A	6DTRN	CMD,6DTRN,465WM6	DMS TRACK TURNAROUND	4O0	4	0	4,201,430:81:0	
75	97	307	11:10:03.266		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	4O0	4	0	4,201,430:81:0	
76	97	307	11:10:03.266		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	4O0	4	0	4,201,430:81:0	
77	97	307	11:10:04.666		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	4O0	4	0	4,201,430:83:1	
78	97	307	11:10:09.933		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	4O0	4	0	4,201,431:00:0	
79	97	307	11:10:11.133		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	4O0	4	0	4,201,431:01:8	
80	97	307	11:10:12.533		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	4O0	4	0	4,201,431:03:9	
81	97	307	11:11:27.933	488AD6C	6TMSED	NORM,EH7	Sci, Eng, and D/L Chan	4O0	4	0	4,201,432:26:0	
82	97	307	11:14:13.200		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,201,435:00:9	
83	97	307	11:14:14.400		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,201,435:02:7	
84	97	307	11:14:14.400		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,201,435:02:7	
85	97	307	11:14:15.800		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,201,435:04:8	
86	97	307	11:14:27.800		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,201,435:22:8	
87	97	307	11:14:29.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,201,435:24:6	
88	97	307	11:21:06.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,201,441:75:0	
89	97	307	11:21:06.600	465WN6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,201,441:75:0	
90	97	307	11:21:13.266		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,201,441:85:0	
91	97	307	11:21:17.133		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	4,201,441:90:8	
92	97	307	11:21:17.133		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	4,201,441:90:8	
93	97	307	11:47:43.933	488AD6D	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	4O0	4	0	4,201,468:14:0	
94	97	307	11:53:00.600	465WN6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	4,201,473:34:0	
95	97	307	11:53:00.600		DMS:	**: *RUNDOWN**	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	4,201,473:34:0	
96	97	307	11:53:01.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	4,201,473:35:8	
97	97	307	12:08:36.600	465WO6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,201,488:73:0	
98	97	307	12:08:36.600		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	4,201,488:73:0	
99	97	307	12:08:38.000		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	4,201,488:75:1	
100	97	307	12:08:43.266		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	4,201,488:83:0	
101	97	307	12:08:44.466		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	4,201,488:84:8	
102	97	307	12:08:48.333		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	4,201,488:90:6	
103	97	307	12:08:48.333		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	4,201,488:90:6	
104	97	307	12:40:44.600	465WP6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,201,520:53:0	
105	97	307	12:40:44.600		DMS:	**: *RUNDOWN**	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	4,201,520:53:0	
106	97	307	12:40:45.800		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	4,201,520:54:8	
107	97	307	12:40:49.666		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	4,201,520:60:6	
108	97	307	12:40:49.666		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	4,201,520:60:6	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	97	307	12:58:07.933	488AD6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	4O0	4	0	4,201,537:71:0	
110	97	307	13:12:45.266	465WP6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,201,552:22:0	
111	97	307	13:12:45.266		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	4,201,552:22:0	
112	97	307	13:12:46.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	4,201,552:23:8	
113	97	307	13:27:28.600	465WQ6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,201,566:73:0	
114	97	307	13:27:28.600		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	4,201,566:73:0	
115	97	307	13:27:30.000		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	4,201,566:75:1	
116	97	307	13:27:35.266		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	4,201,566:83:0	
117	97	307	13:27:36.466		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	4,201,566:84:8	
118	97	307	13:27:40.333		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	4,201,566:90:6	
119	97	307	13:27:40.333		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	4,201,566:90:6	
120	97	307	13:32:15.933	488AE6A	6TMSED	NORM,EH3	Sci, Eng, and D/L Chan	4O0	4	0	4,201,571:49:0	
121	97	307	13:49:19.933	488AE6B	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	4O0	4	0	4,201,588:38:0	
122	97	307	13:59:35.933		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	4,201,598:52:0	
123	97	307	13:59:35.933	465WR6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,201,598:52:0	
124	97	307	13:59:37.133		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	4,201,598:53:8	
125	97	307	13:59:41.000		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	4,201,598:59:6	
126	97	307	13:59:41.000		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	4,201,598:59:6	
127	97	307	14:00:41.933	465WR6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,201,599:60:0	
128	97	307	14:00:41.933		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	4,201,599:60:0	
129	97	307	14:00:43.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	4,201,599:61:8	
130	97	307	14:15:11.933	465WS6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,201,614:00:0	
131	97	307	14:15:11.933		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	4,201,614:00:0	
132	97	307	14:16:05.933	465WT6A	6DTRN	CMD,6DTRN,465WT6	DMS TRACK TURNAROUND	4O0	4	0	4,201,614:81:0	
133	97	307	14:16:05.933		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	4,201,614:81:0	
134	97	307	14:16:05.933		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	4,201,614:81:0	
135	97	307	14:16:07.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	4,201,614:83:1	
136	97	307	14:16:12.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	4,201,615:00:0	
137	97	307	14:16:13.800		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	4,201,615:01:8	
138	97	307	14:16:15.200		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	4,201,615:03:9	
139	97	307	14:27:41.000		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,201,626:31:6	
140	97	307	14:27:42.200		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,201,626:33:4	
141	97	307	14:27:42.200		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,201,626:33:4	
142	97	307	14:27:43.600		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,201,626:35:5	
143	97	307	14:27:55.600		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,201,626:53:5	
144	97	307	14:27:56.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,201,626:55:3	
145	97	307	14:40:08.600	488AE6C	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	4,201,638:61:0	
146	97	307	14:59:43.933	488AE6D	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,201,658:04:0	
147	97	307	19:59:59.933	481UA4A	7VECT	BB1	Inert vect update UTC	4O0	4	0	4,201,955:01:0	
148	97	307	20:25:05.266	20KA4A	**7SAFE**	**UNSTOW**	**S/P TO 153 deg cone**	4O0	4	0	4,201,979:75:0	
149	97	307	20:32:31.933	488AF6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	4,201,987:17:0	
150	97	307	22:22:33.266	488AF6B	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	4O0	4	0	4,202,096:00:0	
151	97	307	22:55:27.933	488AF6C	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,202,128:50:0	
152	97	307	22:56:03.933	488AF6D	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,202,129:13:0	
153	97	307	23:59:59.933	481UB4A	7VECT		Inert vect update UTC	4O0	4	0	4,202,192:34:0	
154	97	308	00:14:59.933	488AF6E	6TMSED	NORM,HL5	Sci, Eng, and D/L Chan	4O0	4	0	4,202,207:19:0	
155	97	308	01:50:23.866	488AG6A	6TMSED	NORM,HL7	Sci, Eng, and D/L Chan	4O0	4	0	4,202,301:51:0	
156	97	308	02:37:01.866	488AG6B	6TMSED	FILL,HL7	Sci, Eng, and D/L Chan	4O0	4	0	4,202,347:62:0	
157	97	308	02:39:27.866	488AG6C	6TMSED	FILL,HL8	Sci, Eng, and D/L Chan	4O0	4	0	4,202,350:08:0	
158	97	308	02:41:07.866	488AG6D	6TMSED	NORM,HL8	Sci, Eng, and D/L Chan	4O0	4	0	4,202,351:67:0	
159	97	308	05:25:11.200	165CE4A	7SCAN	NORM,251.742998,	Check S/P Position	4O0	4	0	4,202,513:90:0	
160	97	308	05:29:13.200	165CE4B	7VECT		Inert vect update UTC	4O0	4	0	4,202,517:89:0	
161	97	308	05:59:59.866	481UC4A	7VECT		Inert vect update UTC	4O0	4	0	4,202,548:38:0	
162	97	308	06:38:49.200	488AG6E	6TMSED	FILL,HL8	Sci, Eng, and D/L Chan	4O0	4	0	4,202,586:74:0	
163	97	308	07:02:13.866	488AH6A	6TMSED	NORM,HL8	Sci, Eng, and D/L Chan	4O0	4	0	4,202,609:88:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	97	308	10:00:12.533	165AB4A	7SCAN	NORM,202.962999,	Check S/P Position	4O0	4	0	4,202,785:90:0	
165	97	308	10:04:06.533	117AB	**CSMOS**	GS	***** GROUP START CSMOS	4O0	4	0	4,202,789:77:0	
166	97	308	10:04:15.866	117AB105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4O0	4	0	4,202,790:00:0	
167	97	308	10:33:35.200	117AB105A106A4B	7STRP	0.005,0.0,0,0,0,	Slew =12.01	4O0	4	0	4,202,819:00:0	
168	97	308	10:34:35.866	117AB105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4O0	4	0	4,202,820:00:0	
169	97	308	11:03:55.200	117AB105A106A4D	7STRP	0.005,0.0,0,0,0,	Slew =12.01	4O0	4	0	4,202,849:00:0	
170	97	308	11:04:55.866	117AB105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	4O0	4	0	4,202,850:00:0	
171	97	308	11:32:47.866	488AH6B	6TMSED	NORM,HL7	Sci, Eng, and D/L Chan	4O0	4	0	4,202,877:51:0	
172	97	308	11:34:15.200	117AB11A	**CSMOS**	GE	***** GROUP END CSMOS	4O0	4	0	4,202,879:00:0	
173	97	308	11:41:19.866	488AH6C	6TMSED	NORM,HL6	Sci, Eng, and D/L Chan	4O0	4	0	4,202,886:00:0	
174	97	308	11:54:27.866	165CG4A	7SCAN	NORM,261.683998,	Check S/P Position	4O0	4	0	4,202,898:90:0	
175	97	308	11:58:29.866	165CG4B	7VECT		Inert vect update UTC	4O0	4	0	4,202,902:89:0	
176	97	308	11:59:59.200	488AH6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4O0	4	0	4,202,904:41:0	
177	97	308	12:13:39.866	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,202,917:89:0	
178	97	308	12:17:47.866	20ZM6A	6EUVON			4O0	4	0	4,202,922:06:0	
179	97	308	12:18:44.533	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	4,202,923:00:0	
180	97	308	12:23:47.200	165BB4A	7SCAN	NORM,220.716999,	Check S/P Position	4O0	4	0	4,202,927:90:0	
181	97	308	13:06:39.866	488AI6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,202,970:36:0	
182	97	308	13:32:15.866	488AI6B	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	4O0	4	0	4,202,995:65:0	
183	97	308	13:59:59.866	488AI6C	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	4,203,023:13:0	
184	97	308	14:39:17.200	465KA6A	6DMST	2775	DMS Slew to TIC	4O0	4	0	4,203,062:00:0	
185	97	308	14:39:17.200		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,203,062:00:0	
186	97	308	14:39:17.200		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,203,062:00:0	
187	97	308	14:39:17.200		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,203,062:00:0	
188	97	308	14:39:23.866		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,203,062:10:0	
189	97	308	14:39:25.266		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	4,203,062:12:1	
190	97	308	15:07:37.200	488AI6D	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	4O0	4	0	4,203,090:02:0	
191	97	308	15:41:16.533	488AI6E	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	4,203,123:28:0	
192	97	308	17:42:12.666		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *2772.94 +/-	4O0	4	0	4,203,242:83:2	
193	97	308	17:42:13.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2773.00 +/-	4O0	4	0	4,203,242:85:0	
194	97	308	21:45:03.866	488AJ6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,203,483:09:0	
195	97	308	22:25:25.200	488AJ6B	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,203,523:01:0	
196	97	308	22:54:31.866	488AJ6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	4,203,551:73:0	
197	97	308	23:38:20.533	20UB4A	7SCAN	NORM,326.843,-14	Check S/P Position	4O0	4	0	4,203,595:12:0	
198	97	308	23:42:15.200	192GJ4A	**7CONE**	**17.4,0.0**	**Check S/P Position**	4O0	4	0	4,203,599:00:0	
199	97	308	23:46:17.866	176GJ6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4O0	4	0	4,203,603:00:0	
200	97	308	23:48:52.533	176GJ6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	4,203,605:50:0	
201	97	308	23:48:54.533	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	4,203,605:53:0	
202	97	308	23:48:54.533		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2773.00 +/-	4O0	4	0	4,203,605:53:0	
203	97	308	23:49:01.200		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2773.00 +/-	4O0	4	0	4,203,605:63:0	
204	97	308	23:49:02.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2773.12 +/-	4O0	4	0	4,203,605:65:1	
205	97	308	23:49:04.533		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2773.57 +/-	4O0	4	0	4,203,605:68:0	
206	97	308	23:49:15.866		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2776.23 +/-	4O0	4	0	4,203,605:85:0	
207	97	308	23:49:15.866	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,203,605:85:0	
208	97	308	23:49:17.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2776.29 +/-	4O0	4	0	4,203,605:86:8	
209	97	308	23:53:52.533	165IA4A	7SCAN	NORM,223.191,-18	Check S/P Position	4O0	4	0	4,203,610:45:0	
210	97	308	23:57:23.866	165IA4B	7VECT		Inert vect update UTC	4O0	4	0	4,203,613:89:0	
211	97	308	23:57:29.200	118IA	**SMOS**	GS		4O0	4	0	4,203,614:06:0	
212	97	308	23:57:53.866	118IA110A111A4A	7STRP	-0.00367,0.0,66,	Slew =2,1.8	4O0	4	0	4,203,614:43:0	
213	97	308	23:58:15.866	118IA110A111A4B	7STRP	0.00183,-0.00144	Slew =,0.86	4O0	4	0	4,203,614:76:0	
214	97	308	23:58:37.866	118IA110A111A4C	7STRP	-0.00367,0.0,66,	Slew =2,1.8	4O0	4	0	4,203,615:18:0	
215	97	308	23:58:49.200		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2776.29 +/-	4O0	4	0	4,203,615:35:0	
216	97	308	23:58:49.200	175IA422A6A	6DMSC	R115,1	DMS Control	4O0	4	0	4,203,615:35:0	
217	97	308	23:58:55.866		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2776.29 +/-	4O0	4	0	4,203,615:45:0	
218	97	308	23:58:59.200	175IA176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4O0	4	0	4,203,615:50:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	97	308	23:58:59.866	118IA11A	**SMOS**	GE		4O0	4	0	4,203,615:51:0	
220	97	308	23:58:59.866		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2782.59 +/-	4O0	4	0	4,203,615:51:0	
221	97	308	23:58:59.866		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2782.59 +/-	4O0	4	0	4,203,615:51:0	
222	97	308	23:59:26.533	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,203,616:00:0	
223	97	308	23:59:26.533		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2876.34 +/-	4O0	4	0	4,203,616:00:0	
224	97	308	23:59:27.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2877.34 +/-	4O0	4	0	4,203,616:01:8	
225	97	309	00:00:26.533	165AE4A	7SCAN	NORM,210.570999,	Check S/P Position	4O0	4	0	4,203,616:90:0	
226	97	309	00:33:48.533	165AF4A	7SCAN	NORM,210.025999,	Check S/P Position	4O0	4	0	4,203,649:90:0	
227	97	309	01:04:08.533	165AG4A	7SCAN	NORM,210.157,-14	Check S/P Position	4O0	4	0	4,203,679:90:0	
228	97	309	01:34:28.533	165AH4A	7SCAN	NORM,210.873999,	Check S/P Position	4O0	4	0	4,203,709:90:0	
229	97	309	01:44:59.866	488AJ6D	6TMSED	NORM,HL5	Sci, Eng, and D/L Chan	4O0	4	0	4,203,720:36:0	
230	97	309	01:46:07.866	488AJ6E	6TMSED	NORM,HL7	Sci, Eng, and D/L Chan	4O0	4	0	4,203,721:47:0	
231	97	309	01:56:43.200	165BC4A	7SCAN	NORM,226.584999,	Check S/P Position	4O0	4	0	4,203,731:90:0	
232	97	309	02:07:09.866	488AK6A	6TMSED	FILL,HL7	Sci, Eng, and D/L Chan	4O0	4	0	4,203,742:29:0	
233	97	309	02:09:35.866	488AK6B	6TMSED	FILL,HL8	Sci, Eng, and D/L Chan	4O0	4	0	4,203,744:66:0	
234	97	309	02:11:15.866	488AK6C	6TMSED	NORM,HL8	Sci, Eng, and D/L Chan	4O0	4	0	4,203,746:34:0	
235	97	309	05:02:45.866	165CF4A	7SCAN	NORM,236.976999,	Check S/P Position	4O0	4	0	4,203,915:90:0	
236	97	309	05:06:47.866	165CF4B	7VECT		Inert vect update UTC	4O0	4	0	4,203,919:89:0	
237	97	309	06:35:47.200	165GA4A	7SCAN	NORM,312.859997,	Check S/P Position	4O0	4	0	4,204,007:90:0	
238	97	309	06:38:49.866	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4O0	4	0	4,204,011:00:0	
239	97	309	06:39:41.200	117GA	**CSMOS**	GS	***** GROUP START CSMOS	4O0	4	0	4,204,011:77:0	
240	97	309	06:39:49.200	165GA4B	7VECT		Inert vect update UTC	4O0	4	0	4,204,011:89:0	
241	97	309	06:39:50.533	117GA105A106A4A	7STRP	-0.006,-0.00125,	Slew =,0.51	4O0	4	0	4,204,012:00:0	
242	97	309	06:40:23.200	117GA105A106A4B	7STRP	0.00615,0.0005,0	Slew =12.01	4O0	4	0	4,204,012:49:0	
243	97	309	06:40:33.866	117GA105A106A4C	7STRP	-0.006,-0.00125,	Slew =,0.51	4O0	4	0	4,204,012:65:0	
244	97	309	06:41:06.533	117GA105A106A4D	7STRP	0.00615,0.0005,0	Slew =12.01	4O0	4	0	4,204,013:23:0	
245	97	309	06:41:17.200	117GA105A106A4E	7STRP	-0.006,-0.00125,	Slew =,0.51	4O0	4	0	4,204,013:39:0	
246	97	309	06:41:49.866	117GA105A106A4F	7STRP	0.00615,0.0005,0	Slew =12.01	4O0	4	0	4,204,013:88:0	
247	97	309	06:42:00.533	117GA105A106A4G	7STRP	-0.006,-0.00125,	Slew =,0.51	4O0	4	0	4,204,014:13:0	
248	97	309	06:42:33.200	117GA105A106A4H	7STRP	0.00615,0.0005,0	Slew =12.01	4O0	4	0	4,204,014:62:0	
249	97	309	06:42:43.866	117GA105A106A4I	7STRP	-0.006,-0.00125,	Slew =,0.51	4O0	4	0	4,204,014:78:0	
250	97	309	06:43:16.533	117GA105A106A4J	7STRP	0.00615,0.0005,0	Slew =12.01	4O0	4	0	4,204,015:36:0	
251	97	309	06:43:27.200	117GA105A106A4K	7STRP	-0.006,-0.00125,	Slew =,0.51	4O0	4	0	4,204,015:52:0	
252	97	309	06:43:59.866	117GA105A106A4L	7STRP	0.00615,0.0005,0	Slew =12.01	4O0	4	0	4,204,016:10:0	
253	97	309	06:44:10.533	117GA105A106A4M	7STRP	-0.006,-0.00125,	Slew =,0.51	4O0	4	0	4,204,016:26:0	
254	97	309	06:44:43.200	117GA105A106A4N	7STRP	0.00615,0.0005,0	Slew =12.01	4O0	4	0	4,204,016:75:0	
255	97	309	06:44:53.866	117GA105A106A4O	7STRP	-0.006,-0.00125,	Slew =,0.51	4O0	4	0	4,204,017:00:0	
256	97	309	06:45:26.533	117GA105A106A4P	7STRP	0.00615,0.0005,0	Slew =12.01	4O0	4	0	4,204,017:49:0	
257	97	309	06:45:37.200	117GA105A106A4Q	7STRP	-0.006,-0.00125,	Slew =,0.51	4O0	4	0	4,204,017:65:0	
258	97	309	06:46:09.866	117GA105A106A4R	7STRP	0.00615,0.0005,0	Slew =12.01	4O0	4	0	4,204,018:23:0	
259	97	309	06:46:20.533	117GA105A106A4S	7STRP	-0.006,-0.00125,	Slew =,0.51	4O0	4	0	4,204,018:39:0	
260	97	309	06:46:53.200	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	4,204,018:88:0	
261	97	309	06:46:53.200	117GA11A	**CSMOS**	GE	***** GROUP END CSMOS	4O0	4	0	4,204,018:88:0	
262	97	309	06:46:55.200	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	4,204,019:00:0	
263	97	309	06:46:55.200		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2877.34 +/-	4O0	4	0	4,204,019:00:0	
264	97	309	06:47:01.866		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2877.34 +/-	4O0	4	0	4,204,019:10:0	
265	97	309	06:47:03.266		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2877.46 +/-	4O0	4	0	4,204,019:12:1	
266	97	309	06:47:05.200		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2877.91 +/-	4O0	4	0	4,204,019:15:0	
267	97	309	06:47:22.533	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,204,019:41:0	
268	97	309	06:47:22.533		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2881.97 +/-	4O0	4	0	4,204,019:41:0	
269	97	309	06:47:23.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2882.03 +/-	4O0	4	0	4,204,019:42:8	
270	97	309	06:51:57.866	165CH4A	7SCAN	NORM,239.550999,	Check S/P Position	4O0	4	0	4,204,023:90:0	
271	97	309	06:55:59.866	165CH4B	7VECT		Inert vect update UTC	4O0	4	0	4,204,027:89:0	
272	**97**	**309**	**07:06:11.734**	**11NNCHOPON01-**		**-----START------**		**4O0**	**4**	**0**	**: :**	
273	**97**	**309**	**07:09:05.200**	**125LA4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,204,040:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	97	309	07:09:05.200	125LA	NIMSINIT	GS	##### GROUP START INIT	460	4	0	4,204,040	84:0
275	**97**	**309**	**07:10:05.866**	**125LA4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**4R0**	**4**	**0**	**4,204,041**	**84:0**
276	97	309	07:11:06.533	125LA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,204,042	84:0
277	**97**	**309**	**07:11:06.533**	**125LA4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,204,042**	**84:0**
278	**97**	**309**	**07:14:17.067**	**11NNCHOPON01-**		**-----STOP-------**		**4R0**	**4**	**0**	**:**	**:**
279	**97**	**309**	**07:15:17.733**	**11HNDARK__01-**		**-----START------**		**4R0**	**4**	**0**	**:**	**:**
280	97	309	07:17:12.533	176DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R0	4	0	4,204,048	87:0
281	97	309	07:17:14.533	165EF4A	7SCAN	NORM,218.969,-22	Check S/P Position	4R0	4	0	4,204,048	90:0
282	**97**	**309**	**07:19:11.866**	**125DA4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R0**	**4**	**0**	**4,204,050**	**84:0**
283	97	309	07:19:11.866	125DA11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	4,204,050	84:0
284	97	309	07:19:11.866	125DA	NIMSINIT	GS	##### GROUP START INIT	3R0	4	0	4,204,050	84:0
285	97	309	07:20:12.533	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	3R0	4	0	4,204,051	84:0
286	**97**	**309**	**07:20:12.533**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**4,204,051**	**84:0**
287	**97**	**309**	**07:20:13.200**	**127DA4B**	**37ETB**	**0A,CA,1D,FF,FF,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**4,204,051**	**85:0**
288	97	309	07:20:21.200	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,204,052	06:0
289	97	309	07:21:06.533		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2882.03 +/-	3R3	4	0	4,204,052	74:0
290	97	309	07:21:06.533	175EF422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	3R3	4	0	4,204,052	74:0
291	97	309	07:21:08.533	117EF	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	4,204,052	77:0
292	97	309	07:21:13.200		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2882.03 +/-	3R3	4	0	4,204,052	84:0
293	97	309	07:21:14.533	175EF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	4,204,052	86:0
294	97	309	07:21:14.600		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2882.15 +/-	3R3	4	0	4,204,052	86:1
295	97	309	07:21:14.600		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2882.15 +/-	3R3	4	0	4,204,052	86:1
296	97	309	07:21:17.866	117EF105A106A4A	7STRP	0.0064,0.0,0,0,0	Slew =,0.11	3R3	4	0	4,204,053	00:0
297	**97**	**309**	**07:21:17.866**	**11HNDARK__01-**	**NIMPBK**	**301DB**	**NIMS DARK OBSERVATION**	**3R3**	**4**	**0**	**:**	**:**
298	97	309	07:22:18.533	117EF11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,204,054	00:0
299	**97**	**309**	**07:22:18.533**	**11HNDARK__01-**	**DESELC**	**300DB**	**NIMS DARK OBSERVATION**	**3R3**	**4**	**0**	**:**	**:**
300	97	309	07:22:20.533	175EF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,204,054	03:0
301	97	309	07:22:20.533		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2897.61 +/-	3R3	4	0	4,204,054	03:0
302	97	309	07:22:20.533	175EF422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,204,054	03:0
303	97	309	07:22:21.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2897.67 +/-	3R3	4	0	4,204,054	04:8
304	**97**	**309**	**07:22:22.400**	**11HNDARK__01-**		**-----STOP-------**		**3R3**	**4**	**0**	**:**	**:**
305	97	309	07:31:23.866	165BD4A	7SCAN	NORM,231.271,-22	Check S/P Position	3R3	4	0	4,204,062	90:0
306	97	309	09:39:48.466	165BE4A	7SCAN	NORM,220.448,-15	Check S/P Position	3R3	4	0	4,204,189	90:0
307	97	309	10:47:48.466	165IB4A	7SCAN	NORM,326.442997,	Check S/P Position	3R3	4	0	4,204,257	22:0
308	97	309	10:47:59.800	488AL6A	6TMSED	NORM,HL7	Sci, Eng, and D/L Chan	3R3	4	0	4,204,257	39:0
309	97	309	10:51:12.466	175IB422A6A	6DMSC	R115,1	DMS Control	3R3	4	0	4,204,260	55:0
310	97	309	10:51:12.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2897.67 +/-	3R3	4	0	4,204,260	55:0
311	97	309	10:51:19.133		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2897.67 +/-	3R3	4	0	4,204,260	65:0
312	97	309	10:51:19.800	165IB4B	7VECT		Inert vect update UTC	3R3	4	0	4,204,260	66:0
313	97	309	10:51:22.466	175IB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	3R3	4	0	4,204,260	70:0
314	97	309	10:51:23.133		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2903.97 +/-	3R3	4	0	4,204,260	71:0
315	97	309	10:51:23.133		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2903.97 +/-	3R3	4	0	4,204,260	71:0
316	97	309	10:52:03.800		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3046.94 +/-	3R3	4	0	4,204,261	41:0
317	97	309	10:52:03.800	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,204,261	41:0
318	97	309	10:52:05.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3047.94 +/-	3R3	4	0	4,204,261	42:8
319	97	309	10:52:36.466	165BF4A	7SCAN	NORM,221.123999,	Check S/P Position	3R3	4	0	4,204,261	90:0
320	97	309	10:56:38.466	165BF4B	7VECT		Inert vect update UTC	3R3	4	0	4,204,265	89:0
321	97	309	11:41:19.800	488AL6B	6TMSED	NORM,HL6	Sci, Eng, and D/L Chan	3R3	4	0	4,204,310	16:0
322	97	309	11:44:59.800	488AL6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	3R3	4	0	4,204,313	73:0
323	97	309	12:58:07.800	488AL6D	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	3R3	4	0	4,204,386	12:0
324	97	309	13:27:59.800	488AL6E	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	3R3	4	0	4,204,415	61:0
325	97	309	13:28:34.466	488AM6A	6TMSED	FILL,EL3	Sci, Eng, and D/L Chan	3R3	4	0	4,204,416	22:0
326	97	309	13:50:38.466	488AM6B	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	3R3	4	0	4,204,438	06:0
327	97	309	13:59:59.800	488AM6C	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	3R3	4	0	4,204,447	29:0
328	97	309	14:00:40.466	165AI4A	7SCAN	NORM,224.755999,	Check S/P Position	3R3	4	0	4,204,447	90:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	97	309	14:04:34.466	117AI	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	4,204,451:77:0	
330	97	309	14:04:43.800	117AI105A106A4A	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	3R3	4	0	4,204,452:00:0	
331	97	309	14:34:03.133	117AI105A106A4B	7STRP	0.011,0.0,0,0,0,	Slew =12.01	3R3	4	0	4,204,481:00:0	
332	97	309	14:35:03.800	117AI105A106A4C	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	3R3	4	0	4,204,482:00:0	
333	97	309	15:04:23.133	117AI105A106A4D	7STRP	0.011,0.0,0,0,0,	Slew =12.01	3R3	4	0	4,204,511:00:0	
334	97	309	15:05:23.800	117AI105A106A4E	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	3R3	4	0	4,204,512:00:0	
335	97	309	15:07:43.133	488AM6D	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	3R3	4	0	4,204,514:27:0	
336	97	309	15:34:43.133	117AI105A106A4F	7STRP	0.011,0.0,0,0,0,	Slew =12.01	3R3	4	0	4,204,541:00:0	
337	97	309	15:35:43.800	117AI105A106A4G	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.01	3R3	4	0	4,204,542:00:0	
338	97	309	15:41:22.466	488AM6E	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	3R3	4	0	4,204,547:53:0	
339	97	309	16:05:03.133	117AI11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,204,571:00:0	
340	**97**	**309**	**16:10:10.400**	**11JNBRG53M01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
341	97	309	16:10:53.133	165DC4A	7SCAN	NORM,228.192999,	Check S/P Position	3R3	4	0	4,204,576:70:0	
342	**97**	**309**	**16:12:03.133**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,204,577:84:0**	
343	97	309	16:12:03.133	125DC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,204,577:84:0	
344	97	309	16:12:03.133	125DC11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,204,577:84:0	
345	97	309	16:13:03.800	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,204,578:84:0	
346	**97**	**309**	**16:13:04.466**	**127DC4A**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,204,578:85:0**	
347	97	309	16:13:12.466	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,204,579:06:0	
348	97	309	16:13:57.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3047.94 +/-	4R3	4	0	4,204,579:74:0	
349	97	309	16:13:57.800	175DC422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,204,579:74:0	
350	97	309	16:13:59.800	117DC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,204,579:77:0	
351	97	309	16:14:04.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3047.94 +/-	4R3	4	0	4,204,579:84:0	
352	97	309	16:14:05.800	175DC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,204,579:86:0	
353	97	309	16:14:05.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3048.06 +/-	4R3	4	0	4,204,579:86:1	
354	97	309	16:14:05.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3048.06 +/-	4R3	4	0	4,204,579:86:1	
355	97	309	16:14:09.133	117DC105A106A4A	7STRP	-0.0054,0.0,0,0,	Slew =,0.03	4R3	4	0	4,204,580:00:0	
356	**97**	**309**	**16:14:09.133**	**11JNBRG53M01-**	**NIMPBK**	**301DC**	**NIMS 5 AND 3 MICRON BROWN BARGE**	**4R3**	**4**	**0**	**: :**	
357	97	309	16:17:11.133	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,204,583:00:0	
358	**97**	**309**	**16:17:11.133**	**11JNBRG53M01-**	**DESELC**	**300DC**	**NIMS 5 AND 3 MICRON BROWN BARGE**	**4R3**	**4**	**0**	**: :**	
359	97	309	16:17:13.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3091.95 +/-	4R3	4	0	4,204,583:03:0	
360	97	309	16:17:13.133	175DC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,204,583:03:0	
361	97	309	16:17:13.133	175DC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,204,583:03:0	
362	97	309	16:17:14.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3092.01 +/-	4R3	4	0	4,204,583:04:8	
363	**97**	**309**	**16:17:15.066**	**11JNBRG53M01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
364	97	309	16:17:15.800	165JA4A	7SCAN	NORM,223.825998,	Check S/P Position	4R3	4	0	4,204,583:07:0	
365	97	309	16:19:16.466	118JA	**SMOS**	GS		4R3	4	0	4,204,585:06:0	
366	97	309	16:19:49.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3092.01 +/-	4R3	4	0	4,204,585:55:0	
367	97	309	16:19:49.133	175JA422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,204,585:55:0	
368	97	309	16:19:55.800		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3092.01 +/-	4R3	4	0	4,204,585:65:0	
369	97	309	16:19:59.133	175JA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,204,585:70:0	
370	97	309	16:19:59.800	118JA110A111A4A	7STRP	0.001,0.00731,46	Slew =,3.71	4R3	4	0	4,204,585:71:0	
371	97	309	16:19:59.800		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3098.31 +/-	4R3	4	0	4,204,585:71:0	
372	97	309	16:19:59.800		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3098.31 +/-	4R3	4	0	4,204,585:71:0	
373	97	309	16:20:30.466	118JA110A111A4B	7STRP	-0.002,-0.014631	Slew =,3.71	4R3	4	0	4,204,586:26:0	
374	97	309	16:20:45.800	118JA110A111A4C	7STRP	0.001,0.00731,46	Slew =,3.71	4R3	4	0	4,204,586:49:0	
375	97	309	16:21:16.466	118JA110A111A4D	7STRP	-0.002,-0.014631	Slew =,3.71	4R3	4	0	4,204,587:04:0	
376	97	309	16:21:31.800	118JA110A111A4E	7STRP	0.001,0.00731,46	Slew =,3.71	4R3	4	0	4,204,587:27:0	
377	97	309	16:22:02.466	118JA11A	**SMOS**	GE		4R3	4	0	4,204,587:73:0	
378	97	309	16:22:13.800	165AJ4A	7SCAN	NORM,223.817999,	Check S/P Position	4R3	4	0	4,204,587:90:0	
379	97	309	16:22:14.466	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,204,588:00:0	
380	97	309	16:22:14.466		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3571.74 +/-	4R3	4	0	4,204,588:00:0	
381	97	309	16:22:15.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3572.74 +/-	4R3	4	0	4,204,588:01:8	
382	97	309	16:23:05.800	117AJ	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,204,588:77:0	
383	97	309	16:23:15.133	117AJ105A106A4A	7STRP	0.001,0.0073,0,0	Slew =,1.01	4R3	4	0	4,204,589:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	97	309	16:24:46.466	117AJ105A106A4B	7STRP	0.0,0.0,0,0,0,0,	Slew =12.01	4R3	4	0	4,204,590:46:0	
385	97	309	16:25:16.466	117AJ105A106A4C	7STRP	0.001,0.0073,0,0	Slew =,1.01	4R3	4	0	4,204,591:00:0	
386	97	309	16:26:47.800	117AJ105A106A4D	7STRP	0.0,0.0,0,0,0,0,	Slew =12.01	4R3	4	0	4,204,592:46:0	
387	97	309	16:27:17.800	117AJ105A106A4E	7STRP	0.001,0.0073,0,0	Slew =,1.01	4R3	4	0	4,204,593:00:0	
388	97	309	16:28:49.133	117AJ11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,204,594:46:0	
389	97	309	16:28:51.800	165AK4A	7SCAN	NORM,223.931,-17	Check S/P Position	4R3	4	0	4,204,594:50:0	
390	97	309	16:43:27.800	165AC4A	7SCAN	NORM,224.654999,	Check S/P Position	4R3	4	0	4,204,608:90:0	
391	97	309	16:50:33.133	411AA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,204,616:00:0	
392	97	309	16:50:33.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3572.74 +/-	4R3	4	0	4,204,616:00:0	
393	97	309	16:50:39.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3572.74 +/-	4R3	4	0	4,204,616:10:0	
394	97	309	16:50:41.200		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3572.86 +/-	4R3	4	0	4,204,616:12:1	
395	97	309	16:50:41.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3572.86 +/-	4R3	4	0	4,204,616:12:1	
396	97	309	16:50:43.133	411AA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R3	4	0	4,204,616:15:0	
397	97	309	16:52:44.466	411AA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,204,618:15:0	
398	97	309	16:52:45.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3601.91 +/-	4R3	4	0	4,204,618:16:0	
399	97	309	16:52:45.133	411AA6D	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,204,618:16:0	
400	97	309	16:52:46.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3601.97 +/-	4R3	4	0	4,204,618:17:8	
401	97	309	16:59:43.800	165JB4A	7SCAN	NORM,223.931,-18	Check S/P Position	4R3	4	0	4,204,625:07:0	
402	97	309	17:01:44.466	118JB	**SMOS**	GS		4R3	4	0	4,204,627:06:0	
403	97	309	17:02:17.133	175JB422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,204,627:55:0	
404	97	309	17:02:17.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3601.97 +/-	4R3	4	0	4,204,627:55:0	
405	97	309	17:02:23.800		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3601.97 +/-	4R3	4	0	4,204,627:65:0	
406	97	309	17:02:27.133	175JB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,204,627:70:0	
407	97	309	17:02:27.800	118JB110A111A4A	7STRP	0.002,0.00731,46	Slew =,3.71	4R3	4	0	4,204,627:71:0	
408	97	309	17:02:27.800		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3608.27 +/-	4R3	4	0	4,204,627:71:0	
409	97	309	17:02:27.800		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3608.27 +/-	4R3	4	0	4,204,627:71:0	
410	97	309	17:02:58.466	118JB110A111A4B	7STRP	-0.004,-0.014631	Slew =,3.71	4R3	4	0	4,204,628:26:0	
411	97	309	17:03:13.800	118JB110A111A4C	7STRP	0.002,0.00731,46	Slew =,3.71	4R3	4	0	4,204,628:49:0	
412	97	309	17:03:44.466	118JB110A111A4D	7STRP	-0.004,-0.014631	Slew =,3.71	4R3	4	0	4,204,629:04:0	
413	97	309	17:03:59.800	118JB110A111A4E	7STRP	0.002,0.00731,46	Slew =,3.71	4R3	4	0	4,204,629:27:0	
414	97	309	17:04:30.466	118JB11A	**SMOS**	GE		4R3	4	0	4,204,629:73:0	
415	97	309	17:04:41.800	165AL4A	7SCAN	NORM,223.960999,	Check S/P Position	4R3	4	0	4,204,629:90:0	
416	97	309	17:04:42.466	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,204,630:00:0	
417	97	309	17:04:42.466		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4081.71 +/-	4R3	4	0	4,204,630:00:0	
418	97	309	17:04:43.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4082.71 +/-	4R3	4	0	4,204,630:01:8	
419	97	309	17:05:33.800	117AL	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,204,630:77:0	
420	97	309	17:05:43.133	117AL105A106A4A	7STRP	0.0023,0.0073,0,	Slew =,1.01	4R3	4	0	4,204,631:00:0	
421	97	309	17:07:14.466	117AL105A106A4B	7STRP	0.0,0.0,0,0,0,0,	Slew =12.01	4R3	4	0	4,204,632:46:0	
422	97	309	17:07:44.466	117AL105A106A4C	7STRP	0.0023,0.0073,0,	Slew =,1.01	4R3	4	0	4,204,633:00:0	
423	97	309	17:09:15.800	117AL105A106A4D	7STRP	0.0,0.0,0,0,0,0,	Slew =12.01	4R3	4	0	4,204,634:46:0	
424	97	309	17:09:45.800	117AL105A106A4E	7STRP	0.0023,0.0073,0,	Slew =,1.01	4R3	4	0	4,204,635:00:0	
425	97	309	17:11:17.133	117AL11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,204,636:46:0	
426	97	309	17:11:19.800	165AM4A	7SCAN	NORM,224.183998,	Check S/P Position	4R3	4	0	4,204,636:50:0	
427	**97**	**309**	**17:15:53.733**	**11JNBRG53M02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
428	97	309	17:16:49.800	165DD4A	7SCAN	NORM,229.65,-19.	Check S/P Position	4R3	4	0	4,204,641:90:0	
429	97	309	17:20:41.800	175DD422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,204,645:74:0	
430	97	309	17:20:41.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4082.71 +/-	4R3	4	0	4,204,645:74:0	
431	97	309	17:20:43.800	117DD	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,204,645:77:0	
432	97	309	17:20:48.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4082.71 +/-	4R3	4	0	4,204,645:84:0	
433	97	309	17:20:49.800	175DD176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,204,645:86:0	
434	97	309	17:20:49.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4082.83 +/-	4R3	4	0	4,204,645:86:1	
435	97	309	17:20:49.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4082.83 +/-	4R3	4	0	4,204,645:86:1	
436	97	309	17:20:53.133	117DD105A106A4A	7STRP	-0.038118,0.0,0,	Slew =,0.03	4R3	4	0	4,204,646:00:0	
437	**97**	**309**	**17:20:53.133**	**11JNBRG53M02-**	**NIMPBK**	**301DD**	**NIMS 5 AND 3 MICRON BROWN BARGE**	**4R3**	**4**	**0**	**: :**	
438	**97**	**309**	**17:27:44.466**	**11JNBRG53M02-**	**NIMPBK**	**301EF**	**NIMS 5 AND 3 MICRON BROWN BARGE**	**4R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	**97**	**309**	**17:27:53.133**	**11JNBRG53M02-**	**DESELC**	**300DD**	**NIMS 5 AND 3 MICRON BROWN BARGE**	**4R3**	**4**	**0**	**: :**	
440	**97**	**309**	**17:34:35.133**	**11JNBRG53M02-**	**NIMPBK**	**301FT**	**NIMS 5 AND 3 MICRON BROWN BARGE**	**4R3**	**4**	**0**	**: :**	
441	**97**	**309**	**17:34:44.466**	**11JNBRG53M02-**	**DESELC**	**300EF**	**NIMS 5 AND 3 MICRON BROWN BARGE**	**4R3**	**4**	**0**	**: :**	
442	**97**	**309**	**17:40:53.133**	**11JNBRG53M02-**	**DESELC**	**300FT**	**NIMS 5 AND 3 MICRON BROWN BARGE**	**4R3**	**4**	**0**	**: :**	
443	97	309	17:40:55.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4365.31 +/-	4R3	4	0	4,204,665:74:0	
444	97	309	17:40:55.133	175DD6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,204,665:74:0	
445	97	309	17:40:55.133	175DD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,204,665:74:0	
446	97	309	17:40:56.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4365.37 +/-	4R3	4	0	4,204,665:75:8	
447	97	309	17:42:07.133	117DD11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,204,667:00:0	
448	**97**	**309**	**17:42:11.066**	**11JNBRG53M02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
449	97	309	17:42:11.800	165JC4A	7SCAN	NORM,224.764,-18	Check S/P Position	4R3	4	0	4,204,667:07:0	
450	97	309	17:44:12.466	118JC	**SMOS**	GS		4R3	4	0	4,204,669:06:0	
451	97	309	17:44:45.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4365.37 +/-	4R3	4	0	4,204,669:55:0	
452	97	309	17:44:45.133	175JC422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,204,669:55:0	
453	97	309	17:44:51.800		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4365.37 +/-	4R3	4	0	4,204,669:65:0	
454	97	309	17:44:55.133	175JC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,204,669:70:0	
455	97	309	17:44:55.800		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4371.67 +/-	4R3	4	0	4,204,669:71:0	
456	97	309	17:44:55.800		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4371.67 +/-	4R3	4	0	4,204,669:71:0	
457	97	309	17:44:55.800	118JC110A111A4A	7STRP	0.002,0.00731,46	Slew =,3.71	4R3	4	0	4,204,669:71:0	
458	97	309	17:45:26.466	118JC110A111A4B	7STRP	-0.004,-0.014631	Slew =,3.71	4R3	4	0	4,204,670:26:0	
459	97	309	17:45:41.800	118JC110A111A4C	7STRP	0.002,0.00731,46	Slew =,3.71	4R3	4	0	4,204,670:49:0	
460	97	309	17:46:12.466	118JC110A111A4D	7STRP	-0.004,-0.014631	Slew =,3.71	4R3	4	0	4,204,671:04:0	
461	97	309	17:46:27.800	118JC110A111A4E	7STRP	0.002,0.00731,46	Slew =,3.71	4R3	4	0	4,204,671:27:0	
462	97	309	17:46:58.466	118JC11A	**SMOS**	GE		4R3	4	0	4,204,671:73:0	
463	97	309	17:47:09.800	165AN4A	7SCAN	NORM,224.799,-18	Check S/P Position	4R3	4	0	4,204,671:90:0	
464	97	309	17:47:10.466		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4845.11 +/-	4R3	4	0	4,204,672:00:0	
465	97	309	17:47:10.466	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,204,672:00:0	
466	97	309	17:47:11.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4846.11 +/-	4R3	4	0	4,204,672:01:8	
467	97	309	17:48:01.800	117AN	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,204,672:77:0	
468	97	309	17:48:11.133	117AN105A106A4A	7STRP	0.0023,0.0074,0,	Slew =,1.01	4R3	4	0	4,204,673:00:0	
469	97	309	17:49:42.466	117AN105A106A4B	7STRP	0.0,0.0,0,0,0,0,	Slew =12.01	4R3	4	0	4,204,674:46:0	
470	97	309	17:50:12.466	117AN105A106A4C	7STRP	0.0023,0.0074,0,	Slew =,1.01	4R3	4	0	4,204,675:00:0	
471	97	309	17:51:43.800	117AN105A106B4A	7STRP	0.003,0.0,0,0,0,	Slew =12.01	4R3	4	0	4,204,676:46:0	
472	97	309	17:52:13.800	117AN105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	4R3	4	0	4,204,677:00:0	
473	**97**	**309**	**17:52:17.733**	**11JNBRG09401-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
474	97	309	17:53:09.800	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,204,677:84:0	
475	97	309	17:53:09.800	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,204,677:84:0	
476	**97**	**309**	**17:53:09.800**	**125DE4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,204,677:84:0**	
477	97	309	17:53:45.133	117AN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,204,678:46:0	
478	97	309	17:54:10.466	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,204,678:84:0	
479	**97**	**309**	**17:54:10.466**	**127DE4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,204,678:84:0**	
480	**97**	**309**	**17:54:11.133**	**127DE4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,204,678:85:0**	
481	97	309	17:54:14.466	165DE4A	7SCAN	NORM,227.733999,	Check S/P Position	2R5	4	1	4,204,678:90:0	
482	97	309	17:54:19.133	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	4,204,679:06:0	
483	97	309	17:55:04.466	175DE422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,204,679:74:0	
484	97	309	17:55:04.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4846.11 +/-	2R5	4	1	4,204,679:74:0	
485	97	309	17:55:06.466	117DE	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,204,679:77:0	
486	97	309	17:55:11.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4846.11 +/-	2R5	4	1	4,204,679:84:0	
487	97	309	17:55:12.466	175DE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,204,679:86:0	
488	97	309	17:55:12.533		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4846.23 +/-	2R5	4	1	4,204,679:86:1	
489	97	309	17:55:12.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4846.23 +/-	2R5	4	1	4,204,679:86:1	
490	**97**	**309**	**17:55:15.800**	**11JNBRG09401-**	**NIMPBK**	**301DE**	**BROWN BARGE OBSERVATION 94 DEG P**	**2R5**	**4**	**1**	**: :**	
491	97	309	17:55:15.800	117DE105A106A4A	7STRP	-0.032712,0.0,0,	Slew =,0.11	2R5	4	1	4,204,680:00:0	
492	**97**	**309**	**17:57:45.800**	**11JNBRG09401-**	**DESELC**	**300DE**	**BROWN BARGE OBSERVATION 94 DEG P**	**2R5**	**4**	**1**	**: :**	
493	97	309	18:00:16.466	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,204,684:87:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	97	309	18:00:17.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4917.78 +/-	2R5	4	1	4,204,684:89:0	
495	97	309	18:00:17.800	175DE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,204,684:89:0	
496	97	309	18:00:17.800	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,204,684:89:0	
497	97	309	18:00:18.466	165AO4A	7SCAN	NORM,225.632,-18	Check S/P Position	2R5	4	1	4,204,684:90:0	
498	97	309	18:00:19.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4917.84 +/-	2R5	4	1	4,204,684:90:8	
499	**97**	**309**	**18:00:23.066**	**11JNBRG09401-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
500	**97**	**309**	**18:25:39.733**	**11JNBRG09402-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
501	97	309	18:26:35.800	165DF4A	7SCAN	NORM,228.448,-19	Check S/P Position	2R5	4	1	4,204,710:90:0	
502	97	309	18:27:25.800	175DF422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,204,711:74:0	
503	97	309	18:27:25.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4917.84 +/-	2R5	4	1	4,204,711:74:0	
504	97	309	18:27:27.800	117DF	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,204,711:77:0	
505	97	309	18:27:32.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4917.84 +/-	2R5	4	1	4,204,711:84:0	
506	97	309	18:27:33.800	175DF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,204,711:86:0	
507	97	309	18:27:33.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4917.96 +/-	2R5	4	1	4,204,711:86:1	
508	97	309	18:27:33.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4917.96 +/-	2R5	4	1	4,204,711:86:1	
509	**97**	**309**	**18:27:37.133**	**11JNBRG09402-**	**NIMPBK**	**301DF**	**BROWN BARGE OBSERVATION 94 DEG P**	**2R5**	**4**	**1**	**: :**	
510	97	309	18:27:37.133	117DF105A106A4A	7STRP	-0.033012,0.0,0,	Slew =,0.11	2R5	4	1	4,204,712:00:0	
511	**97**	**309**	**18:32:37.133**	**11JNBRG09402-**	**DESELC**	**300DF**	**BROWN BARGE OBSERVATION 94 DEG P**	**2R5**	**4**	**1**	**: :**	
512	97	309	18:32:39.133	175DF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,204,716:89:0	
513	97	309	18:32:39.133	175DF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,204,716:89:0	
514	97	309	18:32:39.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4989.50 +/-	2R5	4	1	4,204,716:89:0	
515	97	309	18:32:40.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4989.56 +/-	2R5	4	1	4,204,716:90:8	
516	97	309	18:32:40.466	117DF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,204,717:00:0	
517	**97**	**309**	**18:32:44.400**	**11JNBRG09402-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
518	97	309	18:33:10.466	165JD4A	7SCAN	NORM,230.397999,	Check S/P Position	2R5	4	1	4,204,717:45:0	
519	97	309	18:36:41.800	165JD4B	7VECT		Inert vect update UTC	2R5	4	1	4,204,720:89:0	
520	97	309	18:36:47.133	118JD	**SMOS**	GS		2R5	4	1	4,204,721:06:0	
521	97	309	18:36:49.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4989.56 +/-	2R5	4	1	4,204,721:09:0	
522	97	309	18:36:49.133	175JD422A6A	6DMSC	R115,1	DMS Control	2R5	4	1	4,204,721:09:0	
523	97	309	18:36:55.800		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4989.56 +/-	2R5	4	1	4,204,721:19:0	
524	97	309	18:36:59.133	175JD176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	4,204,721:24:0	
525	97	309	18:36:59.800	118JD110A111A4A	7STRP	0.00731,-0.0025,	Slew =,3.51	2R5	4	1	4,204,721:25:0	
526	97	309	18:36:59.800		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4995.86 +/-	2R5	4	1	4,204,721:25:0	
527	97	309	18:36:59.800		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4995.86 +/-	2R5	4	1	4,204,721:25:0	
528	97	309	18:37:10.466	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,204,721:41:0	
529	97	309	18:37:10.466		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5033.36 +/-	2R5	4	1	4,204,721:41:0	
530	97	309	18:37:11.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5034.36 +/-	2R5	4	1	4,204,721:42:8	
531	97	309	18:37:19.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5034.36 +/-	2R5	4	1	4,204,721:55:0	
532	97	309	18:37:19.800	175JE422A6A	6DMSC	R115,1	DMS Control	2R5	4	1	4,204,721:55:0	
533	97	309	18:37:26.466		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5034.36 +/-	2R5	4	1	4,204,721:65:0	
534	97	309	18:37:29.800	175JE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	4,204,721:70:0	
535	97	309	18:37:30.466	118JD11A	**SMOS**	GE		2R5	4	1	4,204,721:71:0	
536	97	309	18:37:30.466		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5040.66 +/-	2R5	4	1	4,204,721:71:0	
537	97	309	18:37:30.466		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5040.66 +/-	2R5	4	1	4,204,721:71:0	
538	97	309	18:37:40.466		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5075.82 +/-	2R5	4	1	4,204,721:86:0	
539	97	309	18:37:40.466	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,204,721:86:0	
540	97	309	18:37:41.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5076.82 +/-	2R5	4	1	4,204,721:87:8	
541	**97**	**309**	**18:49:55.733**	**11JNBRG09403-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
542	97	309	18:50:51.800	165DG4A	7SCAN	NORM,228.446999,	Check S/P Position	2R5	4	1	4,204,734:90:0	
543	97	309	18:51:41.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5076.82 +/-	2R5	4	1	4,204,735:74:0	
544	97	309	18:51:41.800	175DG422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,204,735:74:0	
545	97	309	18:51:43.800	117DG	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,204,735:77:0	
546	97	309	18:51:48.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5076.82 +/-	2R5	4	1	4,204,735:84:0	
547	97	309	18:51:49.800	175DG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,204,735:86:0	
548	97	309	18:51:49.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5076.94 +/-	2R5	4	1	4,204,735:86:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	97	309	18:51:49.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5076.94 +/-	2R5	4	1	4,204,735:86:1	
550	**97**	**309**	**18:51:53.133**	**11JNBRG09403-**	**NIMPBK**	**301DG**	**BROWN BARGE OBSERVATION 94 DEG P**	**2R5**	**4**	**1**	**: :**	
551	97	309	18:51:53.133	117DG105A106A4A	7STRP	-0.033012,0.0,0,	Slew =,0.11	2R5	4	1	4,204,736:00:0	
552	**97**	**309**	**18:56:53.133**	**11JNBRG09403-**	**DESELC**	**300DG**	**BROWN BARGE OBSERVATION 94 DEG P**	**2R5**	**4**	**1**	**: :**	
553	97	309	18:56:55.133	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,204,740:89:0	
554	97	309	18:56:55.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5148.49 +/-	2R5	4	1	4,204,740:89:0	
555	97	309	18:56:55.133	175DG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,204,740:89:0	
556	97	309	18:56:56.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5148.55 +/-	2R5	4	1	4,204,740:90:8	
557	97	309	18:56:56.466	117DG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,204,741:00:0	
558	**97**	**309**	**18:57:00.400**	**11JNBRG09403-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
559	97	309	18:57:56.466	165AP4A	7SCAN	NORM,231.011,-20	Check S/P Position	2R5	4	1	4,204,741:90:0	
560	97	309	19:19:41.133	165JF4A	7SCAN	NORM,231.469999,	Check S/P Position	2R5	4	1	4,204,763:45:0	
561	97	309	19:23:12.466	165JF4B	7VECT		Inert vect update UTC	2R5	4	1	4,204,766:89:0	
562	**97**	**309**	**19:23:17.733**	**11JNBRG09404-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
563	97	309	19:23:17.800	118JF	**SMOS**	GS		2R5	4	1	4,204,767:06:0	
564	97	309	19:23:19.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5148.55 +/-	2R5	4	1	4,204,767:09:0	
565	97	309	19:23:19.800	175JF422A6A	6DMSC	R115,1	DMS Control	2R5	4	1	4,204,767:09:0	
566	97	309	19:23:26.466		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5148.55 +/-	2R5	4	1	4,204,767:19:0	
567	97	309	19:23:29.800	175JF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	4,204,767:24:0	
568	97	309	19:23:30.466		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5154.85 +/-	2R5	4	1	4,204,767:25:0	
569	97	309	19:23:30.466		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5154.85 +/-	2R5	4	1	4,204,767:25:0	
570	97	309	19:23:30.466	118JF110A111A4A	7STRP	0.00731,-0.001,9	Slew =,3.51	2R5	4	1	4,204,767:25:0	
571	97	309	19:23:42.466		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5197.04 +/-	2R5	4	1	4,204,767:43:0	
572	97	309	19:23:42.466	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,204,767:43:0	
573	97	309	19:23:43.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5198.04 +/-	2R5	4	1	4,204,767:44:8	
574	97	309	19:23:50.466	175JG422A6A	6DMSC	R115,1	DMS Control	2R5	4	1	4,204,767:55:0	
575	97	309	19:23:50.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5198.04 +/-	2R5	4	1	4,204,767:55:0	
576	97	309	19:23:57.133		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5198.04 +/-	2R5	4	1	4,204,767:65:0	
577	97	309	19:24:00.466	175JG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	4,204,767:70:0	
578	97	309	19:24:01.133		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5204.34 +/-	2R5	4	1	4,204,767:71:0	
579	97	309	19:24:01.133	118JF11A	**SMOS**	GE		2R5	4	1	4,204,767:71:0	
580	97	309	19:24:01.133		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5204.34 +/-	2R5	4	1	4,204,767:71:0	
581	97	309	19:24:09.800	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,204,767:84:0	
582	97	309	19:24:09.800		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5234.80 +/-	2R5	4	1	4,204,767:84:0	
583	97	309	19:24:11.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5235.80 +/-	2R5	4	1	4,204,767:85:8	
584	97	309	19:24:13.800	165DH4A	7SCAN	NORM,228.410999,	Check S/P Position	2R5	4	1	4,204,767:90:0	
585	97	309	19:25:03.800	175DH422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,204,768:74:0	
586	97	309	19:25:03.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5235.80 +/-	2R5	4	1	4,204,768:74:0	
587	97	309	19:25:05.800	117DH	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,204,768:77:0	
588	97	309	19:25:10.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5235.80 +/-	2R5	4	1	4,204,768:84:0	
589	97	309	19:25:11.800	175DH176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,204,768:86:0	
590	97	309	19:25:11.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5235.92 +/-	2R5	4	1	4,204,768:86:1	
591	97	309	19:25:11.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5235.92 +/-	2R5	4	1	4,204,768:86:1	
592	97	309	19:25:15.133	117DH105A106A4A	7STRP	-0.026506,0.0,0,	Slew =,0.11	2R5	4	1	4,204,769:00:0	
593	**97**	**309**	**19:25:15.133**	**11JNBRG09404-**	**NIMPBK**	**301DH**	**BROWN BARGE OBSERVATION 94 DEG P**	**2R5**	**4**	**1**	**: :**	
594	**97**	**309**	**19:28:35.133**	**11JNBRG09404-**	**DESELC**	**300DH**	**BROWN BARGE OBSERVATION 94 DEG P**	**2R5**	**4**	**1**	**: :**	
595	97	309	19:28:37.133	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,204,772:30:0	
596	97	309	19:28:37.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5284.03 +/-	2R5	4	1	4,204,772:30:0	
597	97	309	19:28:37.133	175DH6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,204,772:30:0	
598	97	309	19:28:38.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5284.09 +/-	2R5	4	1	4,204,772:31:8	
599	97	309	19:29:17.800	117DH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,204,773:00:0	
600	97	309	19:29:19.800	165AQ4A	7SCAN	NORM,231.768,-20	Check S/P Position	2R5	4	1	4,204,773:03:0	
601	**97**	**309**	**19:29:21.733**	**11JNBRG09404-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
602	**97**	**309**	**19:31:23.066**	**11NNRELOAD01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
603	97	309	19:32:23.800	20EB6A	6CKSUM	NIMS	NIMS,1000,14BC	2R5	4	1	4,204,776:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
604	**97**	**309**	**19:33:24.466**	**20EB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R5**	**4**	**1**	**4,204,777:06:0**
605	**97**	**309**	**19:34:25.133**	**20EB5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R5**	**4**	**1**	**4,204,778:06:0**
606	**97**	**309**	**19:35:25.800**	**20EB6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R5**	**4**	**1**	**4,204,779:06:0**
607	**97**	**309**	**19:36:26.466**	**20EB6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R5**	**4**	**1**	**4,204,780:06:0**
608	**97**	**309**	**19:37:27.133**	**20EB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,204,781:06:0**
609	**97**	**309**	**19:38:27.800**	**20EB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,204,782:06:0**
610	**97**	**309**	**19:39:28.466**	**20EB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,204,783:06:0**
611	**97**	**309**	**19:40:29.133**	**20EB4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,204,784:06:0**
612	**97**	**309**	**19:41:29.733**	**11NNRELOAD01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
613	97	309	19:55:35.133	411AB6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,204,799:00:0
614	97	309	19:55:35.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5284.09 +/-	2R3	4	0	4,204,799:00:0
615	97	309	19:55:41.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5284.09 +/-	2R3	4	0	4,204,799:10:0
616	97	309	19:55:43.200		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5284.21 +/-	2R3	4	0	4,204,799:12:1
617	97	309	19:55:43.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5284.21 +/-	2R3	4	0	4,204,799:12:1
618	97	309	19:55:45.133	411AB6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	4,204,799:15:0
619	97	309	19:57:46.466	411AB6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,204,801:15:0
620	97	309	19:57:47.133	411AB6D	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,204,801:16:0
621	97	309	19:57:47.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5313.26 +/-	2R3	4	0	4,204,801:16:0
622	97	309	19:57:48.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5313.32 +/-	2R3	4	0	4,204,801:17:8
623	97	309	20:07:12.466	165JH4A	7SCAN	NORM,232.346998,	Check S/P Position	2R3	4	0	4,204,810:45:0
624	97	309	20:10:43.800	165JH4B	7VECT		Inert vect update UTC	2R3	4	0	4,204,813:89:0
625	97	309	20:10:49.133	118JH	**SMOS**	GS		2R3	4	0	4,204,814:06:0
626	97	309	20:10:51.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5313.32 +/-	2R3	4	0	4,204,814:09:0
627	97	309	20:10:51.133	175JH422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,204,814:09:0
628	97	309	20:10:57.800		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5313.32 +/-	2R3	4	0	4,204,814:19:0
629	97	309	20:11:01.133	175JH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,204,814:24:0
630	97	309	20:11:01.800	118JH110A111A4A	7STRP	0.00731,-0.0005,	Slew =,3.51	2R3	4	0	4,204,814:25:0
631	97	309	20:11:01.800		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5319.62 +/-	2R3	4	0	4,204,814:25:0
632	97	309	20:11:01.800		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5319.62 +/-	2R3	4	0	4,204,814:25:0
633	97	309	20:11:15.800		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5368.84 +/-	2R3	4	0	4,204,814:46:0
634	97	309	20:11:15.800	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,204,814:46:0
635	97	309	20:11:17.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5369.84 +/-	2R3	4	0	4,204,814:47:8
636	97	309	20:11:21.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5369.84 +/-	2R3	4	0	4,204,814:55:0
637	97	309	20:11:21.800	175JI422A6A	6DMSC	R115,1	DMS Control	2R3	4	0	4,204,814:55:0
638	97	309	20:11:28.466		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5369.84 +/-	2R3	4	0	4,204,814:65:0
639	97	309	20:11:31.800	175JI176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,204,814:70:0
640	97	309	20:11:32.466		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5376.14 +/-	2R3	4	0	4,204,814:71:0
641	97	309	20:11:32.466		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5376.14 +/-	2R3	4	0	4,204,814:71:0
642	97	309	20:11:32.466	118JH11A	**SMOS**	GE		2R3	4	0	4,204,814:71:0
643	97	309	20:11:45.800		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5423.01 +/-	2R3	4	0	4,204,815:00:0
644	97	309	20:11:45.800	175JI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,204,815:00:0
645	97	309	20:11:47.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5424.01 +/-	2R3	4	0	4,204,815:01:8
646	**97**	**309**	**20:14:51.733**	**11JNCYLMOS01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
647	**97**	**309**	**20:16:44.466**	**127DL4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**4,204,819:84:0**
648	97	309	20:16:44.466	127DL	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	5	4,204,819:84:0
649	**97**	**309**	**20:16:45.133**	**127DL4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**4,204,819:85:0**
650	97	309	20:16:53.133	127DL11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	4,204,820:06:0
651	97	309	20:16:55.133	165DL4A	7SCAN	NORM,231.73,-19.	Check S/P Position	2R7	4	5	4,204,820:09:0
652	97	309	20:17:38.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5424.01 +/-	2R7	4	5	4,204,820:74:0
653	97	309	20:17:38.466	175DL422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R7	4	5	4,204,820:74:0
654	97	309	20:17:40.466	117DL	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	4,204,820:77:0
655	97	309	20:17:45.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5424.01 +/-	2R7	4	5	4,204,820:84:0
656	97	309	20:17:46.466	175DL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	4,204,820:86:0
657	97	309	20:17:46.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5424.13 +/-	2R7	4	5	4,204,820:86:1
658	97	309	20:17:46.533		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5424.13 +/-	2R7	4	5	4,204,820:86:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	**97**	**309**	**20:17:49.800**	**11JNCYLMOS01-**	**NIMPBK**	**301DK**	**JUPITER CYLINDRICAL MOSAIC PART**	**2R7**	**4**	**5**	**: :**	
660	97	309	20:17:49.800	117DL105A106A4A	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,821:00:0	
661	97	309	20:18:57.133	117DL105A106A4B	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,822:10:0	
662	97	309	20:19:06.466	117DL105A106A4C	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,822:24:0	
663	97	309	20:20:13.800	117DL105A106A4D	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,823:34:0	
664	97	309	20:20:23.133	117DL105A106A4E	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,823:48:0	
665	97	309	20:21:30.466	117DL105A106A4F	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,824:58:0	
666	97	309	20:21:39.800	117DL105A106A4G	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,824:72:0	
667	97	309	20:22:47.133	117DL105A106A4H	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,825:82:0	
668	97	309	20:22:56.466	117DL105A106A4I	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,826:05:0	
669	97	309	20:24:03.800	117DL105A106A4J	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,827:15:0	
670	97	309	20:24:13.133	117DL105A106A4K	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,827:29:0	
671	97	309	20:25:20.466	117DL105A106A4L	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,828:39:0	
672	97	309	20:25:29.800	117DL105A106A4M	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,828:53:0	
673	97	309	20:26:37.133	117DL105A106A4N	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,829:63:0	
674	97	309	20:26:46.466	117DL105A106A4O	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,829:77:0	
675	**97**	**309**	**20:27:49.800**	**11JNCYLMOS01-**	**DESELC**	**300DK**	**JUPITER CYLINDRICAL MOSAIC PART**	**2R7**	**4**	**5**	**: :**	
676	97	309	20:27:51.800	175DL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	4,204,830:84:0	
677	97	309	20:27:51.800	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	4,204,830:84:0	
678	97	309	20:27:51.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5565.99 +/-	2R7	4	5	4,204,830:84:0	
679	97	309	20:27:53.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5566.05 +/-	2R7	4	5	4,204,830:85:8	
680	97	309	20:27:53.800	117DL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	4,204,830:87:0	
681	97	309	20:27:55.800	165AR4A	7SCAN	NORM,233.342999,	Check S/P Position	2R7	4	5	4,204,830:90:0	
682	**97**	**309**	**20:28:00.400**	**11JNCYLMOS01-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
683	97	309	20:53:43.133	165JJ4A	7SCAN	NORM,232.911999,	Check S/P Position	2R7	4	5	4,204,856:45:0	
684	97	309	20:57:14.466	165JJ4B	7VECT		Inert vect update UTC	2R7	4	5	4,204,859:89:0	
685	97	309	20:57:19.800	118JJ	**SMOS**	GS		2R7	4	5	4,204,860:06:0	
686	97	309	20:57:21.800	175JJ422A6A	6DMSC	R115,1	DMS Control	2R7	4	5	4,204,860:09:0	
687	97	309	20:57:21.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5566.05 +/-	2R7	4	5	4,204,860:09:0	
688	97	309	20:57:28.466		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5566.05 +/-	2R7	4	5	4,204,860:19:0	
689	97	309	20:57:31.800	175JJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R7	4	5	4,204,860:24:0	
690	97	309	20:57:32.466		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5572.35 +/-	2R7	4	5	4,204,860:25:0	
691	97	309	20:57:32.466		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5572.35 +/-	2R7	4	5	4,204,860:25:0	
692	97	309	20:57:32.466	118JJ110A111A4A	7STRP	0.00731,0.0005,9	Slew =,3.51	2R7	4	5	4,204,860:25:0	
693	97	309	20:57:46.466		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5621.57 +/-	2R7	4	5	4,204,860:46:0	
694	97	309	20:57:46.466	175JJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	4,204,860:46:0	
695	97	309	20:57:47.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5622.57 +/-	2R7	4	5	4,204,860:47:8	
696	97	309	20:57:52.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5622.57 +/-	2R7	4	5	4,204,860:55:0	
697	97	309	20:57:52.466	175JK422A6A	6DMSC	R115,1	DMS Control	2R7	4	5	4,204,860:55:0	
698	97	309	20:57:59.133		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 5622.57 +/-	2R7	4	5	4,204,860:65:0	
699	97	309	20:58:02.466	175JK176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R7	4	5	4,204,860:70:0	
700	97	309	20:58:03.133		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5628.87 +/-	2R7	4	5	4,204,860:71:0	
701	97	309	20:58:03.133		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5628.87 +/-	2R7	4	5	4,204,860:71:0	
702	97	309	20:58:03.133	118JJ11A	**SMOS**	GE		2R7	4	5	4,204,860:71:0	
703	97	309	20:58:15.800	165AS4A	7SCAN	NORM,234.162998,	Check S/P Position	2R7	4	5	4,204,860:90:0	
704	97	309	20:58:16.466		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5675.75 +/-	2R7	4	5	4,204,861:00:0	
705	97	309	20:58:16.466	175JK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	4,204,861:00:0	
706	97	309	20:58:17.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5676.75 +/-	2R7	4	5	4,204,861:01:8	
707	**97**	**309**	**21:13:30.400**	**11NNRELOAD02-**		**-----START------**		**2R7**	**4**	**5**	**: :**	
708	97	309	21:14:31.133	20EC6A	6CKSUM	NIMS	NIMS,1000,14BC	2R7	4	5	4,204,877:06:0	
709	**97**	**309**	**21:15:31.800**	**20EC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R7**	**4**	**5**	**4,204,878:06:0**	
710	**97**	**309**	**21:16:32.466**	**20EC5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R7**	**4**	**5**	**4,204,879:06:0**	
711	**97**	**309**	**21:17:33.133**	**20EC6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R7**	**4**	**5**	**4,204,880:06:0**	
712	**97**	**309**	**21:18:33.800**	**20EC6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R7**	**4**	**5**	**4,204,881:06:0**	
713	**97**	**309**	**21:19:34.466**	**20EC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,204,882:06:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	**97**	**309**	**21:20:35.133**	**20EC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,204,883:06:0**	
715	**97**	**309**	**21:21:35.800**	**20EC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,204,884:06:0**	
716	**97**	**309**	**21:22:36.466**	**20EC4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,204,885:06:0**	
717	**97**	**309**	**21:23:37.066**	**11NNRELOAD02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
718	97	309	21:28:35.800	165AT4A	7SCAN	NORM,235.049999,	Check S/P Position	2R3	4	0	4,204,890:90:0	
719	**97**	**309**	**21:48:53.733**	**11JNCYLMOS02-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
720	97	309	21:50:46.466	127DN	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,204,912:84:0	
721	**97**	**309**	**21:50:46.466**	**127DN4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**4,204,912:84:0**	
722	**97**	**309**	**21:50:47.133**	**127DN4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**4,204,912:85:0**	
723	97	309	21:50:50.466	165DM4A	7SCAN	NORM,233.792,-19	Check S/P Position	2R7	4	5	4,204,912:90:0	
724	97	309	21:50:55.133	127DN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	4,204,913:06:0	
725	97	309	21:51:40.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5676.75 +/-	2R7	4	5	4,204,913:74:0	
726	97	309	21:51:40.466	175DN422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R7	4	5	4,204,913:74:0	
727	97	309	21:51:42.466	117DM	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	4,204,913:77:0	
728	97	309	21:51:47.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5676.75 +/-	2R7	4	5	4,204,913:84:0	
729	97	309	21:51:48.466	175DN176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	4,204,913:86:0	
730	97	309	21:51:48.533		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5676.87 +/-	2R7	4	5	4,204,913:86:1	
731	97	309	21:51:48.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5676.87 +/-	2R7	4	5	4,204,913:86:1	
732	97	309	21:51:51.800	117DM105A106A4A	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,914:00:0	
733	**97**	**309**	**21:51:51.800**	**11JNCYLMOS02-**	**NIMPBK**	**301DL**	**JUPITER CYLINDRICAL MOSAIC PART**	**2R7**	**4**	**5**	**: :**	
734	97	309	21:52:59.133	117DM105A106A4B	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,915:10:0	
735	97	309	21:53:08.466	117DM105A106A4C	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,915:24:0	
736	97	309	21:54:15.800	117DM105A106A4D	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,916:34:0	
737	97	309	21:54:25.133	117DM105A106A4E	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,916:48:0	
738	97	309	21:55:32.466	117DM105A106A4F	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,917:58:0	
739	97	309	21:55:41.800	117DM105A106A4G	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,917:72:0	
740	97	309	21:56:49.133	117DM105A106A4H	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,918:82:0	
741	97	309	21:56:58.466	117DM105A106A4I	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,919:05:0	
742	97	309	21:58:05.800	117DM105A106A4J	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,920:15:0	
743	97	309	21:58:15.133	117DM105A106A4K	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,920:29:0	
744	97	309	21:59:22.466	117DM105A106A4L	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,921:39:0	
745	97	309	21:59:31.800	117DM105A106A4M	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,921:53:0	
746	97	309	22:00:39.133	117DM105A106A4N	7STRP	0.048739,-0.007,	Slew =12.01	2R7	4	5	4,204,922:63:0	
747	97	309	22:00:48.466	117DM105A106A4O	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,922:77:0	
748	**97**	**309**	**22:01:51.800**	**11JNCYLMOS02-**	**DESELC**	**300DL**	**JUPITER CYLINDRICAL MOSAIC PART**	**2R7**	**4**	**5**	**: :**	
749	97	309	22:01:53.800	175DN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	4,204,923:84:0	
750	97	309	22:01:53.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5818.73 +/-	2R7	4	5	4,204,923:84:0	
751	97	309	22:01:53.800	175DN6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	4,204,923:84:0	
752	97	309	22:01:55.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5818.79 +/-	2R7	4	5	4,204,923:85:8	
753	97	309	22:01:55.800	117DM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	4,204,923:87:0	
754	**97**	**309**	**22:02:02.400**	**11JNCYLMOS02-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
755	97	309	22:11:03.800	165CI4A	7SCAN	NORM,258.309998,	Check S/P Position	2R7	4	5	4,204,932:90:0	
756	97	309	22:12:44.466	488AN6A	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	2R7	4	5	4,204,934:59:0	
757	97	309	22:15:05.800	165CI4B	7VECT		Inert vect update UTC	2R7	4	5	4,204,936:89:0	
758	97	309	22:51:23.133	488AN6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R7	4	5	4,204,972:79:0	
759	**97**	**309**	**23:01:41.733**	**11JNCYLMOS03-**		**-----START------**		**2R7**	**4**	**5**	**: :**	
760	97	309	23:02:37.800	165DO4A	7SCAN	NORM,236.084,-19	Check S/P Position	2R7	4	5	4,204,983:90:0	
761	97	309	23:06:29.800	175DO422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R7	4	5	4,204,987:74:0	
762	97	309	23:06:29.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5818.79 +/-	2R7	4	5	4,204,987:74:0	
763	97	309	23:06:31.800	117DO	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	4,204,987:77:0	
764	97	309	23:06:36.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5818.79 +/-	2R7	4	5	4,204,987:84:0	
765	97	309	23:06:37.800	175DO176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	4,204,987:86:0	
766	97	309	23:06:37.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5818.91 +/-	2R7	4	5	4,204,987:86:1	
767	97	309	23:06:37.866		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5818.91 +/-	2R7	4	5	4,204,987:86:1	
768	97	309	23:06:41.133	117DO105A106A4A	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,988:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	**97**	**309**	**23:06:41.133**	**11JNCYLMOS03-**	**NIMPBK**	**301DM**	**JUPITER CYLINDRICAL MOSAIC PART**	**2R7**	**4**	**5**	**: :**	
770	97	309	23:07:48.466	117DO105A106A4B	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,204,989:10:0	
771	97	309	23:07:57.800	117DO105A106A4C	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,989:24:0	
772	97	309	23:09:05.133	117DO105A106A4D	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,204,990:34:0	
773	97	309	23:09:14.466	117DO105A106A4E	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,990:48:0	
774	97	309	23:10:21.800	117DO105A106A4F	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,204,991:58:0	
775	97	309	23:10:31.133	117DO105A106A4G	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,991:72:0	
776	97	309	23:11:38.466	117DO105A106A4H	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,204,992:82:0	
777	97	309	23:11:47.800	117DO105A106A4I	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,993:05:0	
778	97	309	23:12:55.133	117DO105A106A4J	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,204,994:15:0	
779	97	309	23:13:04.466	117DO105A106A4K	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,994:29:0	
780	97	309	23:14:11.800	117DO105A106A4L	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,204,995:39:0	
781	97	309	23:14:21.133	117DO105A106A4M	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,995:53:0	
782	97	309	23:15:28.466	117DO105A106A4N	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,204,996:63:0	
783	97	309	23:15:37.800	117DO105A106A4O	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,204,996:77:0	
784	**97**	**309**	**23:16:41.133**	**11JNCYLMOS03-**	**DESELC**	**300DM**	**JUPITER CYLINDRICAL MOSAIC PART**	**2R7**	**4**	**5**	**: :**	
785	97	309	23:16:43.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5960.77 +/-	2R7	4	5	4,204,997:84:0	
786	97	309	23:16:43.133	175DO6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	4,204,997:84:0	
787	97	309	23:16:43.133	175DO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	4,204,997:84:0	
788	97	309	23:16:44.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5960.83 +/-	2R7	4	5	4,204,997:85:8	
789	97	309	23:16:45.133	117DO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	4,204,997:87:0	
790	97	309	23:16:47.133	165CJ4A	7SCAN	NORM,259.207996,	Check S/P Position	2R7	4	5	4,204,997:90:0	
791	**97**	**309**	**23:16:51.733**	**11JNCYLMOS03-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
792	97	309	23:20:49.133	165CJ4B	7VECT		Inert vect update UTC	2R7	4	5	4,205,001:89:0	
793	97	309	23:24:46.466	465KB6A	6DTRN	CMD,6DTRN,465KB6	DMS TRACK TURNAROUND	2R7	4	5	4,205,005:81:0	
794	97	309	23:24:46.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5960.83 +/-	2R7	4	5	4,205,005:81:0	
795	97	309	23:24:46.466		DMS:	: *DMS-TURN	P7, TRACK 1, FWD, TIC 5960.83 +/-	2R7	4	5	4,205,005:81:0	
796	97	309	23:24:53.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 5960.83 +/-	2R7	4	5	4,205,006:00:0	
797	97	309	23:24:54.533		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC *5960.95 +/-	2R7	4	5	4,205,006:02:1	
798	97	309	23:29:39.000		DMS:	: *REVERSE	P7, TRACK 1, FWD, TIC *6027.63 +/-	2R7	4	5	4,205,010:64:8	
799	97	309	23:29:40.200		DMS:	: *TURNARND	P7, TRACK *2, *REV, TIC *6027.69 +/-	2R7	4	5	4,205,010:66:6	
800	97	309	23:29:40.200		DMS:	: *RUNUP	P7, TRACK 2, REV, TIC 6027.69 +/-	2R7	4	5	4,205,010:66:6	
801	97	309	23:29:41.600		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC *6027.57 +/-	2R7	4	5	4,205,010:68:7	
802	97	309	23:29:53.600		DMS:	: *AUTOSTOP	P7, TRACK 2, REV, TIC *6025.44 +/-	2R7	4	5	4,205,010:86:7	
803	97	309	23:29:54.800		DMS:	: *READY	RDY, TRACK 2, REV, TIC *6025.38 +/-	2R7	4	5	4,205,010:88:5	
804	**97**	**309**	**23:36:04.400**	**11NNRELOAD03-**		**-----START------**		**2R7**	**4**	**5**	**: :**	
805	97	309	23:37:05.133	20ED6A	6CKSUM	NIMS	NIMS,1000,14BC	2R7	4	5	4,205,018:06:0	
806	**97**	**309**	**23:38:05.800**	**20ED5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R7**	**4**	**5**	**4,205,019:06:0**	
807	**97**	**309**	**23:39:06.466**	**20ED5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R7**	**4**	**5**	**4,205,020:06:0**	
808	97	309	23:40:01.800	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R7	4	5	4,205,020:89:0	
809	**97**	**309**	**23:40:07.133**	**20ED6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R7**	**4**	**5**	**4,205,021:06:0**	
810	**97**	**309**	**23:41:07.800**	**20ED6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R7**	**4**	**5**	**4,205,022:06:0**	
811	**97**	**309**	**23:42:08.466**	**20ED5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,205,023:06:0**	
812	**97**	**309**	**23:43:09.133**	**20ED5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,205,024:06:0**	
813	97	309	23:43:11.800	20YC6A	6HICON			260	4	0	4,205,024:10:0	
814	97	309	23:43:56.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 6025.38 +/-	260	4	0	4,205,024:77:0	
815	97	309	23:43:56.466	465KC6A	6DMSC	P7,2	DMS Control Tape P/B 7.68kbps	260	4	0	4,205,024:77:0	
816	97	309	23:43:57.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6025.50 +/-	260	4	0	4,205,024:79:1	
817	97	309	23:44:03.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6026.73 +/-	260	4	0	4,205,024:87:0	
818	97	309	23:44:04.333		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC *6026.79 +/-	260	4	0	4,205,024:88:8	
819	97	309	23:44:05.733		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC 6026.67 +/-	260	4	0	4,205,024:90:9	
820	97	309	23:44:05.733		DMS:	: *P_SLEW	P7, TRACK 2, REV, TIC *6026.67 +/-	260	4	0	4,205,024:90:9	
821	97	309	23:44:05.800	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	260	4	0	4,205,025:00:0	
822	**97**	**309**	**23:44:09.800**	**20ED4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,205,025:06:0**	
823	**97**	**309**	**23:45:10.466**	**20ED4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,205,026:06:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
824	97	309	23:45:13.133		DMS:	**: *RUNDOWN**	P7, TRACK 2, REV, TIC *6010.87 +/-	2R3	4	0	4,205,026:10:0
825	97	309	23:45:13.133	465KC6B	6DMSC	RDY,2	DMS Control Tape stop	2R3	4	0	4,205,026:10:0
826	97	309	23:45:14.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *6010.81 +/-	2R3	4	0	4,205,026:11:8
827	**97**	**309**	**23:46:11.066**	**11NNRELOAD03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
828	97	309	23:57:59.800	20OB6A	6HICON			2R3	4	0	4,205,038:68:0
829	**97**	**310**	**00:01:21.066**	**11JNCYLMOS04-**		**-----START------**		**2R3**	**4**	**0**	**: :**
830	97	310	00:02:17.133	165DQ4A	7SCAN	NORM,238.328999,	Check S/P Position	2R3	4	0	4,205,042:90:0
831	97	310	00:02:59.800	432OZ6A	6RTSL1		R/T Select of DDS and	2R3	4	0	4,205,043:63:0
832	**97**	**310**	**00:03:13.800**	**125DQ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,205,043:84:0**
833	97	310	00:03:13.800	125DQ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,205,043:84:0
834	97	310	00:03:13.800	125DQ11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,205,043:84:0
835	97	310	00:04:14.466	127DQ	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,205,044:84:0
836	**97**	**310**	**00:04:14.466**	**127DQ4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**4,205,044:84:0**
837	**97**	**310**	**00:04:15.133**	**127DQ4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**4,205,044:85:0**
838	97	310	00:04:23.133	127DQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	4,205,045:06:0
839	97	310	00:05:07.800	175DQ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	4,205,045:73:0
840	97	310	00:05:07.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 6010.81 +/-	2R7	4	5	4,205,045:73:0
841	97	310	00:05:09.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6010.93 +/-	2R7	4	5	4,205,045:75:1
842	97	310	00:05:10.466	117DQ	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	4,205,045:77:0
843	97	310	00:05:14.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6012.17 +/-	2R7	4	5	4,205,045:83:0
844	97	310	00:05:15.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *6012.23 +/-	2R7	4	5	4,205,045:84:8
845	97	310	00:05:16.466	175DQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	4,205,045:86:0
846	97	310	00:05:17.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *6012.11 +/-	2R7	4	5	4,205,045:86:9
847	97	310	00:05:17.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 6012.11 +/-	2R7	4	5	4,205,045:86:9
848	97	310	00:05:19.800	117DQ105A106A4A	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,046:00:0
849	97	310	00:06:27.133	117DQ105A106A4B	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,047:10:0
850	97	310	00:06:36.466	117DQ105A106A4C	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,047:24:0
851	97	310	00:07:43.800	117DQ105A106A4D	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,048:34:0
852	97	310	00:07:53.133	117DQ105A106A4E	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,048:48:0
853	97	310	00:09:00.466	117DQ105A106A4F	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,049:58:0
854	97	310	00:09:09.800	117DQ105A106A4G	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,049:72:0
855	97	310	00:10:17.133	117DQ105A106A4H	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,050:82:0
856	97	310	00:10:26.466	117DQ105A106A4I	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,051:05:0
857	97	310	00:11:33.800	117DQ105A106A4J	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,052:15:0
858	97	310	00:11:43.133	117DQ105A106A4K	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,052:29:0
859	97	310	00:12:50.466	117DQ105A106A4L	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,053:39:0
860	97	310	00:12:59.800	117DQ105A106A4M	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,053:53:0
861	97	310	00:14:07.133	117DQ105A106A4N	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,054:63:0
862	97	310	00:14:16.466	117DQ105A106A4O	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,054:77:0
863	97	310	00:15:23.800	117DQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	4,205,055:87:0
864	**97**	**310**	**00:15:30.400**	**11ENM20HR_01-**		**-----START------**		**2R7**	**4**	**5**	**: :**
865	**97**	**310**	**00:15:30.400**	**11JNCYLMOS04-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**
866	97	310	00:15:31.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5868.03 +/-	2R7	4	5	4,205,056:08:0
867	97	310	00:15:31.800	175DQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	4,205,056:08:0
868	97	310	00:15:31.800	175DQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	4,205,056:08:0
869	97	310	00:15:33.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5867.97 +/-	2R7	4	5	4,205,056:09:8
870	97	310	00:16:26.466	165ME4A	7SCAN	NORM,260.009998,	Check S/P Position	2R7	4	5	4,205,056:90:0
871	97	310	00:17:23.133	125DS11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	5	4,205,057:84:0
872	**97**	**310**	**00:17:23.133**	**125DS4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R7**	**4**	**5**	**4,205,057:84:0**
873	97	310	00:17:23.133	125DS	NIMSINIT	GS	##### GROUP START INIT	4R7	4	5	4,205,057:84:0
874	**97**	**310**	**00:18:23.800**	**127DS4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,205,058:84:0**
875	97	310	00:18:23.800	127DS	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,205,058:84:0
876	**97**	**310**	**00:18:24.466**	**127DS4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,205,058:85:0**
877	97	310	00:18:32.466	127DS11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,205,059:06:0
878	97	310	00:19:14.466	175DS422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	4,205,059:69:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	97	310	00:19:14.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5867.97 +/-	4R3	4	0	4,205,059:69:0	
880	97	310	00:19:15.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5868.09 +/-	4R3	4	0	4,205,059:71:1	
881	97	310	00:19:19.800	117ME	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,205,059:77:0	
882	97	310	00:19:21.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5869.33 +/-	4R3	4	0	4,205,059:79:0	
883	97	310	00:19:22.333		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *5869.39 +/-	4R3	4	0	4,205,059:80:8	
884	97	310	00:19:25.800	175DS176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,205,059:86:0	
885	97	310	00:19:26.333		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *5867.89 +/-	4R3	4	0	4,205,059:86:8	
886	97	310	00:19:26.333		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 5867.89 +/-	4R3	4	0	4,205,059:86:8	
887	97	310	00:19:27.800	165ME4B	7VECT		Inert vect update UTC	4R3	4	0	4,205,059:89:0	
888	**97**	**310**	**00:19:29.133**	**11ENM20HR_01-**	**NIMPBK**	**301DO**	**EUROPA OBS BEYOND 15 RJ**	**4R3**	**4**	**0**	**: :**	
889	97	310	00:19:29.133	117ME105A106A4A	7STRP	-0.004,0.0,0,0,0	Slew =,0.01	4R3	4	0	4,205,060:00:0	
890	**97**	**310**	**00:26:10.466**	**11ENM20HR_01-**	**DESELC**	**300DO**	**EUROPA OBS BEYOND 15 RJ**	**4R3**	**4**	**0**	**: :**	
891	97	310	00:26:20.466		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *5503.90 +/-	4R3	4	0	4,205,066:71:0	
892	97	310	00:26:20.466	175DS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,205,066:71:0	
893	97	310	00:26:21.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5503.60 +/-	4R3	4	0	4,205,066:72:8	
894	97	310	00:26:29.133	125FY11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,205,066:84:0	
895	97	310	00:26:29.133	125FY	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,205,066:84:0	
896	**97**	**310**	**00:26:29.133**	**125FY4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,205,066:84:0**	
897	97	310	00:27:22.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5503.60 +/-	3R3	4	0	4,205,067:73:0	
898	97	310	00:27:22.466	175FY422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,067:73:0	
899	97	310	00:27:23.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5503.72 +/-	3R3	4	0	4,205,067:75:1	
900	97	310	00:27:29.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5504.96 +/-	3R3	4	0	4,205,067:83:0	
901	97	310	00:27:29.800	127FY	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,205,067:84:0	
902	97	310	00:27:30.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5505.02 +/-	3R3	4	0	4,205,067:84:8	
903	**97**	**310**	**00:27:30.466**	**127FY4A**	**37ETB**	**07,C7,02,3C,00,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**4,205,067:85:0**	
904	97	310	00:27:31.133	175FY176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	4,205,067:86:0	
905	97	310	00:27:31.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5504.90 +/-	3R3	4	0	4,205,067:86:9	
906	97	310	00:27:31.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5504.90 +/-	3R3	4	0	4,205,067:86:9	
907	97	310	00:27:34.466	117ME105A106A4B	7STRP	0.004,0.0,0,0,0,	Slew =17.01	3R3	4	0	4,205,068:00:0	
908	97	310	00:27:38.466	127FY11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,205,068:06:0	
909	97	310	00:27:43.800	117ME105A106A4C	7STRP	-0.004,0.0,0,0,0	Slew =,0.01	3R3	4	0	4,205,068:14:0	
910	**97**	**310**	**00:27:43.800**	**11ENM20HR_01-**	**NIMPBK**	**301FX**	**EUROPA OBS BEYOND 15 RJ**	**3R3**	**4**	**0**	**: :**	
911	**97**	**310**	**00:35:42.466**	**11ENM20HR_01-**	**DESELC**	**300FX**	**EUROPA OBS BEYOND 15 RJ**	**3R3**	**4**	**0**	**: :**	
912	97	310	00:35:49.133	117ME11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,205,076:14:0	
913	97	310	00:35:52.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5387.54 +/-	3R3	4	0	4,205,076:19:0	
914	97	310	00:35:52.466	175FY422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,076:19:0	
915	97	310	00:35:52.466	175FY6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,205,076:19:0	
916	97	310	00:35:53.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5387.48 +/-	3R3	4	0	4,205,076:20:8	
917	97	310	00:37:40.466	165BH4A	7SCAN	NORM,223.220999,	Check S/P Position	3R3	4	0	4,205,077:90:0	
918	**97**	**310**	**00:38:45.734**	**11ENM20HR_01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
919	**97**	**310**	**01:05:03.066**	**11NNRELOAD04-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
920	97	310	01:06:03.800	20EE6A	6CKSUM	NIMS	NIMS,1000,14BC	3R3	4	0	4,205,106:06:0	
921	**97**	**310**	**01:07:04.466**	**20EE5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**4,205,107:06:0**	
922	**97**	**310**	**01:08:05.133**	**20EE5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**4,205,108:06:0**	
923	**97**	**310**	**01:09:05.800**	**20EE6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**4,205,109:06:0**	
924	**97**	**310**	**01:10:06.466**	**20EE6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**4,205,110:06:0**	
925	**97**	**310**	**01:11:07.133**	**20EE5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,205,111:06:0**	
926	**97**	**310**	**01:12:07.800**	**20EE5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,205,112:06:0**	
927	**97**	**310**	**01:13:08.466**	**20EE4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,205,113:06:0**	
928	**97**	**310**	**01:14:09.133**	**20EE4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,205,114:06:0**	
929	**97**	**310**	**01:15:09.733**	**11NNRELOAD04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
930	**97**	**310**	**01:32:21.066**	**11JNCYLMOS05-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
931	97	310	01:33:17.133	165DU4A	7SCAN	NORM,240.928999,	Check S/P Position	2R3	4	0	4,205,132:90:0	
932	**97**	**310**	**01:35:14.466**	**125DU4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,205,134:84:0**	
933	97	310	01:35:14.466	125DU	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,205,134:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	97	310	01:35:14.466	125DU11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,205,134:84:0	
935	**97**	**310**	**01:36:15.133**	**127DU4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**4,205,135:84:0**	
936	97	310	01:36:15.133	127DU	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	5	4,205,135:84:0	
937	**97**	**310**	**01:36:15.800**	**127DU4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**4,205,135:85:0**	
938	97	310	01:36:23.800	127DU11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	4,205,136:06:0	
939	97	310	01:37:08.466	175DU422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	4,205,136:73:0	
940	97	310	01:37:08.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5387.48 +/-	2R7	4	5	4,205,136:73:0	
941	97	310	01:37:09.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5387.60 +/-	2R7	4	5	4,205,136:75:1	
942	97	310	01:37:11.133	117DU	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	4,205,136:77:0	
943	97	310	01:37:15.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5388.83 +/-	2R7	4	5	4,205,136:83:0	
944	97	310	01:37:16.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5388.89 +/-	2R7	4	5	4,205,136:84:8	
945	97	310	01:37:17.133	175DU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	4,205,136:86:0	
946	97	310	01:37:17.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5388.77 +/-	2R7	4	5	4,205,136:86:9	
947	97	310	01:37:17.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5388.77 +/-	2R7	4	5	4,205,136:86:9	
948	97	310	01:37:20.466	117DU105A106A4A	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,137:00:0	
949	**97**	**310**	**01:37:20.466**	**11JNCYLMOS05-**	**NIMPBK**	**301DP**	**JUPITER CYLINDRICAL MOSAIC PART**	**2R7**	**4**	**5**	**: :**	
950	97	310	01:38:27.800	117DU105A106A4B	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,138:10:0	
951	97	310	01:38:37.133	117DU105A106A4C	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,138:24:0	
952	97	310	01:39:44.466	117DU105A106A4D	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,139:34:0	
953	97	310	01:39:53.800	117DU105A106A4E	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,139:48:0	
954	97	310	01:41:01.133	117DU105A106A4F	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,140:58:0	
955	97	310	01:41:10.466	117DU105A106A4G	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,140:72:0	
956	97	310	01:42:17.800	117DU105A106A4H	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,141:82:0	
957	97	310	01:42:27.133	117DU105A106A4I	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,142:05:0	
958	97	310	01:43:34.466	117DU105A106A4J	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,143:15:0	
959	97	310	01:43:43.800	117DU105A106A4K	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,143:29:0	
960	97	310	01:44:51.133	117DU105A106A4L	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,144:39:0	
961	97	310	01:45:00.466	117DU105A106A4M	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,144:53:0	
962	97	310	01:46:07.800	117DU105A106A4N	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,145:63:0	
963	97	310	01:46:17.133	117DU105A106A4O	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,145:77:0	
964	**97**	**310**	**01:47:20.466**	**11JNCYLMOS05-**	**DESELC**	**300DP**	**JUPITER CYLINDRICAL MOSAIC PART**	**2R7**	**4**	**5**	**: :**	
965	97	310	01:47:24.466	117DU11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	4,205,146:87:0	
966	97	310	01:47:26.466	165BI4A	7SCAN	NORM,223.220999,	Check S/P Position	2R7	4	5	4,205,146:90:0	
967	97	310	01:47:32.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5244.69 +/-	2R7	4	5	4,205,147:08:0	
968	97	310	01:47:32.466	175DU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	4,205,147:08:0	
969	97	310	01:47:32.466	175DU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	4,205,147:08:0	
970	97	310	01:47:33.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5244.63 +/-	2R7	4	5	4,205,147:09:8	
971	**97**	**310**	**01:48:31.733**	**11JNCYLMOS05-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
972	97	310	01:54:39.800	488AN6C	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R7	4	5	4,205,154:12:0	
973	97	310	02:09:35.800	488AN6D	6TMSED	NORM,EL7	Sci, Eng, and D/L Chan	2R7	4	5	4,205,168:82:0	
974	**97**	**310**	**02:14:49.066**	**11NNRELOAD05-**		**-----START------**		**2R7**	**4**	**5**	**: :**	
975	97	310	02:14:59.800	488AN6E	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	2R7	4	5	4,205,174:22:0	
976	97	310	02:15:49.800	20EF6A	6CKSUM	NIMS	NIMS,1000,14BC	2R7	4	5	4,205,175:06:0	
977	**97**	**310**	**02:16:50.466**	**20EF5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R7**	**4**	**5**	**4,205,176:06:0**	
978	**97**	**310**	**02:17:51.133**	**20EF5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R7**	**4**	**5**	**4,205,177:06:0**	
979	**97**	**310**	**02:18:51.800**	**20EF6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R7**	**4**	**5**	**4,205,178:06:0**	
980	**97**	**310**	**02:19:52.466**	**20EF6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R7**	**4**	**5**	**4,205,179:06:0**	
981	**97**	**310**	**02:20:53.133**	**20EF5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,205,180:06:0**	
982	**97**	**310**	**02:21:53.800**	**20EF5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,205,181:06:0**	
983	**97**	**310**	**02:22:54.466**	**20EF4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,205,182:06:0**	
984	**97**	**310**	**02:23:55.133**	**20EF4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,205,183:06:0**	
985	**97**	**310**	**02:24:55.733**	**11NNRELOAD05-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
986	**97**	**310**	**02:42:07.066**	**11JNCYLMOS06-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
987	97	310	02:43:03.133	165DW4A	7SCAN	NORM,243.622999,	Check S/P Position	2R3	4	0	4,205,201:90:0	
988	**97**	**310**	**02:46:01.133**	**127DW4A**	**37IOP**	**7,5**	**Fixed Map, Grating Start Position =05**	**2R7**	**4**	**5**	**4,205,204:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	97	310	02:46:01.133	127DW	NIMSTAB	GS	%%%%% GROUP START TAB	2R7	4	5	4,205,204:84:0	
990	**97**	**310**	**02:46:01.800**	**127DW4B**	**37ETB**	**07,C7,19,1F,E1,0**	**Loads wavelength edit table**	**2R7**	**4**	**5**	**4,205,204:85:0**	
991	97	310	02:46:09.800	127DW11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R7	4	5	4,205,205:06:0	
992	97	310	02:46:54.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5244.63 +/-	2R7	4	5	4,205,205:73:0	
993	97	310	02:46:54.466	175DW422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	4	5	4,205,205:73:0	
994	97	310	02:46:55.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5244.75 +/-	2R7	4	5	4,205,205:75:1	
995	97	310	02:46:57.133	117DW	**CSMOS**	GS	***** GROUP START CSMOS	2R7	4	5	4,205,205:77:0	
996	97	310	02:47:01.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5245.99 +/-	2R7	4	5	4,205,205:83:0	
997	97	310	02:47:02.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5246.05 +/-	2R7	4	5	4,205,205:84:8	
998	97	310	02:47:03.133	175DW176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R7	4	5	4,205,205:86:0	
999	97	310	02:47:03.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5245.93 +/-	2R7	4	5	4,205,205:86:9	
1000	97	310	02:47:03.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5245.93 +/-	2R7	4	5	4,205,205:86:9	
1001	97	310	02:47:06.466	117DW105A106A4A	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,206:00:0	
1002	97	310	02:48:13.800	117DW105A106A4B	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,207:10:0	
1003	97	310	02:48:23.133	117DW105A106A4C	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,207:24:0	
1004	97	310	02:49:30.466	117DW105A106A4D	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,208:34:0	
1005	97	310	02:49:39.800	117DW105A106A4E	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,208:48:0	
1006	97	310	02:50:47.133	117DW105A106A4F	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,209:58:0	
1007	97	310	02:50:56.466	117DW105A106A4G	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,209:72:0	
1008	97	310	02:52:03.800	117DW105A106A4H	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,210:82:0	
1009	97	310	02:52:13.133	117DW105A106A4I	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,211:05:0	
1010	97	310	02:53:20.466	117DW105A106A4J	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,212:15:0	
1011	97	310	02:53:29.800	117DW105A106A4K	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,212:29:0	
1012	97	310	02:54:37.133	117DW105A106A4L	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,213:39:0	
1013	97	310	02:54:46.466	117DW105A106A4M	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,213:53:0	
1014	97	310	02:55:53.800	117DW105A106A4N	7STRP	0.048538,-0.007,	Slew =12.01	2R7	4	5	4,205,214:63:0	
1015	97	310	02:56:03.133	117DW105A106A4O	7STRP	-0.048037,0.0,0,	Slew =,0.76	2R7	4	5	4,205,214:77:0	
1016	97	310	02:57:10.466	117DW11A	**CSMOS**	GE	***** GROUP END CSMOS	2R7	4	5	4,205,215:87:0	
1017	**97**	**310**	**02:57:17.066**	**11JNCYLMOS06-**		**-----STOP-------**		**2R7**	**4**	**5**	**: :**	
1018	**97**	**310**	**02:57:17.067**	**11ENM17HR_01-**		**-----START------**		**2R7**	**4**	**5**	**: :**	
1019	97	310	02:57:18.466	175DW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	4	5	4,205,216:08:0	
1020	97	310	02:57:18.466	175DW6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R7	4	5	4,205,216:08:0	
1021	97	310	02:57:18.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5101.85 +/-	2R7	4	5	4,205,216:08:0	
1022	97	310	02:57:19.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5101.79 +/-	2R7	4	5	4,205,216:09:8	
1023	97	310	02:58:09.133	125DX11A	NIMSINIT	GE	##### GROUP END INIT	2R7	4	5	4,205,216:84:0	
1024	**97**	**310**	**02:58:09.133**	**125DX4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R7**	**4**	**5**	**4,205,216:84:0**	
1025	97	310	02:58:09.133	125DX	NIMSINIT	GS	##### GROUP START INIT	4R7	4	5	4,205,216:84:0	
1026	97	310	02:58:13.133	165DX4A	7SCAN	NORM,261.179996,	Check S/P Position	4R7	4	5	4,205,216:90:0	
1027	**97**	**310**	**02:59:09.800**	**127DX4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,205,217:84:0**	
1028	97	310	02:59:09.800	127DX	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,205,217:84:0	
1029	**97**	**310**	**02:59:10.466**	**127DX4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,205,217:85:0**	
1030	97	310	02:59:18.466	127DX11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,205,218:06:0	
1031	97	310	03:00:00.466	175DX422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	4,205,218:69:0	
1032	97	310	03:00:00.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5101.79 +/-	4R3	4	0	4,205,218:69:0	
1033	97	310	03:00:01.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5101.91 +/-	4R3	4	0	4,205,218:71:1	
1034	97	310	03:00:05.800	117DX	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,205,218:77:0	
1035	97	310	03:00:07.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5103.14 +/-	4R3	4	0	4,205,218:79:0	
1036	97	310	03:00:08.333		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *5103.20 +/-	4R3	4	0	4,205,218:80:8	
1037	97	310	03:00:11.800	175DX176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,205,218:86:0	
1038	97	310	03:00:12.333		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *5101.70 +/-	4R3	4	0	4,205,218:86:8	
1039	97	310	03:00:12.333		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 5101.70 +/-	4R3	4	0	4,205,218:86:8	
1040	97	310	03:00:13.800	165DX4B	7VECT		Inert vect update UTC	4R3	4	0	4,205,218:89:0	
1041	**97**	**310**	**03:00:15.133**	**11ENM17HR_01-**	**NIMPBK**	**301DR**	**EUROPA OBS BEYOND 15 RJ**	**4R3**	**4**	**0**	**: :**	
1042	97	310	03:00:15.133	117DX105A106A4A	7STRP	0.00536,0.0,0,0,	Slew =,0.01	4R3	4	0	4,205,219:00:0	
1043	97	310	03:03:17.800	488AO6A	6TMSED	FILL,GL7	Sci, Eng, and D/L Chan	4R3	4	0	4,205,222:01:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	**97**	**310**	**03:06:09.800**	**11ENM17HR_01-**	**NIMPBK**	**301DA**	**EUROPA OBS BEYOND 15 RJ**	**4R3**	**4**	**0**	**: :**	
1045	**97**	**310**	**03:06:23.133**	**11ENM17HR_01-**	**DESELC**	**300DA**	**EUROPA OBS BEYOND 15 RJ**	**4R3**	**4**	**0**	**: :**	
1046	**97**	**310**	**03:09:03.800**	**11ENM17HR_01-**	**DESELC**	**300DR**	**EUROPA OBS BEYOND 15 RJ**	**4R3**	**4**	**0**	**: :**	
1047	97	310	03:09:07.800	175DX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,205,227:71:0	
1048	97	310	03:09:07.800		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *4631.08 +/-	4R3	4	0	4,205,227:71:0	
1049	97	310	03:09:09.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4630.78 +/-	4R3	4	0	4,205,227:72:8	
1050	**97**	**310**	**03:09:16.466**	**125LZ4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,205,227:84:0**	
1051	97	310	03:09:16.466	125LZ	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,205,227:84:0	
1052	97	310	03:09:16.466	125LZ11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,205,227:84:0	
1053	97	310	03:10:09.800	175DB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,228:73:0	
1054	97	310	03:10:09.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4630.78 +/-	3R3	4	0	4,205,228:73:0	
1055	97	310	03:10:11.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4630.90 +/-	3R3	4	0	4,205,228:75:1	
1056	97	310	03:10:15.133	117DX105A106B4A	7STRP	-0.00536,0.0,0,0	Slew =17.01	3R3	4	0	4,205,228:81:0	
1057	97	310	03:10:16.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4632.13 +/-	3R3	4	0	4,205,228:83:0	
1058	97	310	03:10:17.133	127LZ	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,205,228:84:0	
1059	97	310	03:10:17.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *4632.19 +/-	3R3	4	0	4,205,228:84:8	
1060	**97**	**310**	**03:10:17.800**	**127LZ4A**	**37ETB**	**07,C7,02,3C,00,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**4,205,228:85:0**	
1061	97	310	03:10:18.466	175DB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	4,205,228:86:0	
1062	97	310	03:10:19.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *4632.07 +/-	3R3	4	0	4,205,228:86:9	
1063	97	310	03:10:19.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 4632.07 +/-	3R3	4	0	4,205,228:86:9	
1064	**97**	**310**	**03:10:21.800**	**11ENM17HR_01-**	**NIMPBK**	**301FY**	**EUROPA OBS BEYOND 15 RJ**	**3R3**	**4**	**0**	**: :**	
1065	97	310	03:10:24.466	117DX105A106B4B	7STRP	0.00536,0.0,0,0,	Slew =,0.01	3R3	4	0	4,205,229:04:0	
1066	97	310	03:10:25.800	127LZ11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,205,229:06:0	
1067	**97**	**310**	**03:13:57.800**	**11ENM17HR_01-**	**NIMPBK**	**301FO**	**EUROPA OBS BEYOND 15 RJ**	**3R3**	**4**	**0**	**: :**	
1068	**97**	**310**	**03:14:11.800**	**11ENM17HR_01-**	**DESELC**	**300FO**	**EUROPA OBS BEYOND 15 RJ**	**3R3**	**4**	**0**	**: :**	
1069	**97**	**310**	**03:19:19.800**	**11ENM17HR_01-**	**DESELC**	**300FY**	**EUROPA OBS BEYOND 15 RJ**	**3R3**	**4**	**0**	**: :**	
1070	97	310	03:19:23.800	117DX11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,205,237:85:0	
1071	97	310	03:19:27.133	165BJ4A	7SCAN	NORM,223.220999,	Check S/P Position	3R3	4	0	4,205,237:90:0	
1072	97	310	03:19:31.800	175DB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,205,238:06:0	
1073	97	310	03:19:31.800	175DB422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,238:06:0	
1074	97	310	03:19:31.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *4502.53 +/-	3R3	4	0	4,205,238:06:0	
1075	97	310	03:19:33.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4502.47 +/-	3R3	4	0	4,205,238:07:8	
1076	**97**	**310**	**03:22:33.734**	**11ENM17HR_01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
1077	97	310	03:37:03.800	488AO6B	6TMSED	FILL,GL8	Sci, Eng, and D/L Chan	3R3	4	0	4,205,255:37:0	
1078	97	310	03:38:43.800	488AO6C	6TMSED	NORM,GL8	Sci, Eng, and D/L Chan	3R3	4	0	4,205,257:05:0	
1079	**97**	**310**	**05:20:51.734**	**11ENM15HR_01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1080	97	310	05:21:47.800	165DY4A	7SCAN	NORM,261.789997,	Check S/P Position	3R3	4	0	4,205,358:90:0	
1081	97	310	05:22:44.466	125DY11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,205,359:84:0	
1082	97	310	05:22:44.466	125DY	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,205,359:84:0	
1083	**97**	**310**	**05:22:44.466**	**125DY4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,205,359:84:0**	
1084	97	310	05:23:45.133	127DY	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,205,360:84:0	
1085	**97**	**310**	**05:23:45.800**	**127DY4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,205,360:85:0**	
1086	97	310	05:23:53.800	127DY11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,205,361:06:0	
1087	97	310	05:24:35.800	175DY422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	4,205,361:69:0	
1088	97	310	05:24:35.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4502.47 +/-	4R3	4	0	4,205,361:69:0	
1089	97	310	05:24:37.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4502.59 +/-	4R3	4	0	4,205,361:71:1	
1090	97	310	05:24:41.133	117DY	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,205,361:77:0	
1091	97	310	05:24:42.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4503.82 +/-	4R3	4	0	4,205,361:79:0	
1092	97	310	05:24:43.666		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *4503.88 +/-	4R3	4	0	4,205,361:80:8	
1093	97	310	05:24:47.133	175DY176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,205,361:86:0	
1094	97	310	05:24:47.666		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 4502.38 +/-	4R3	4	0	4,205,361:86:8	
1095	97	310	05:24:47.666		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *4502.38 +/-	4R3	4	0	4,205,361:86:8	
1096	97	310	05:24:49.133	165DY4B	7VECT		Inert vect update UTC	4R3	4	0	4,205,361:89:0	
1097	97	310	05:24:50.466	117DY105A106A4A	7STRP	0.00595,0.0,0,0,	Slew =,0.01	4R3	4	0	4,205,362:00:0	
1098	**97**	**310**	**05:24:50.466**	**11ENM15HR_01-**	**NIMPBK**	**301DS**	**EUROPA OBSERVATION AT MINUS 15 H**	**4R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	97	310	05:32:15.800	488AO6D	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	4R3	4	0	4,205,369:31:0	
1100	**97**	**310**	**05:34:41.133**	**11ENM15HR_01-**	**DESELC**	**300DS**	**EUROPA OBSERVATION AT MINUS 15 H**	**4R3**	**4**	**0**	**: :**	
1101	97	310	05:34:43.800	175DY422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,205,371:71:0	
1102	97	310	05:34:43.800		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *3978.43 +/-	4R3	4	0	4,205,371:71:0	
1103	97	310	05:34:45.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3978.13 +/-	4R3	4	0	4,205,371:72:8	
1104	97	310	05:34:52.466	125FT	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,205,371:84:0	
1105	97	310	05:34:52.466	125FT11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,205,371:84:0	
1106	**97**	**310**	**05:34:52.466**	**125FT4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,205,371:84:0**	
1107	97	310	05:35:45.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3978.13 +/-	3R3	4	0	4,205,372:73:0	
1108	97	310	05:35:45.800	175FT422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,372:73:0	
1109	97	310	05:35:47.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3978.25 +/-	3R3	4	0	4,205,372:75:1	
1110	97	310	05:35:50.466	117DY105A106B4A	7STRP	-0.00595,0.0,0,0	Slew =17.01	3R3	4	0	4,205,372:80:0	
1111	97	310	05:35:52.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3979.49 +/-	3R3	4	0	4,205,372:83:0	
1112	97	310	05:35:53.133	127FT	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,205,372:84:0	
1113	97	310	05:35:53.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3979.55 +/-	3R3	4	0	4,205,372:84:8	
1114	**97**	**310**	**05:35:53.800**	**127FT4A**	**37ETB**	**07,C7,02,3C,00,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**4,205,372:85:0**	
1115	97	310	05:35:54.466	175FT176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	4,205,372:86:0	
1116	97	310	05:35:55.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3979.43 +/-	3R3	4	0	4,205,372:86:9	
1117	97	310	05:35:55.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 3979.43 +/-	3R3	4	0	4,205,372:86:9	
1118	**97**	**310**	**05:35:57.800**	**11ENM15HR_01-**	**NIMPBK**	**301FZ**	**EUROPA OBSERVATION AT MINUS 15 H**	**3R3**	**4**	**0**	**: :**	
1119	97	310	05:35:59.800	117DY105A106B4B	7STRP	0.00595,0.0,0,0,	Slew =,0.01	3R3	4	0	4,205,373:03:0	
1120	97	310	05:36:01.800	127FT11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,205,373:06:0	
1121	**97**	**310**	**05:38:07.133**	**11ENM15HR_01-**	**NIMPBK**	**301FN**	**EUROPA OBSERVATION AT MINUS 15 H**	**3R3**	**4**	**0**	**: :**	
1122	**97**	**310**	**05:39:04.466**	**11ENM15HR_01-**	**DESELC**	**300FN**	**EUROPA OBSERVATION AT MINUS 15 H**	**3R3**	**4**	**0**	**: :**	
1123	**97**	**310**	**05:39:51.133**	**11ENM15HR_01-**	**NIMPBK**	**301EA**	**EUROPA OBSERVATION AT MINUS 15 H**	**3R3**	**4**	**0**	**: :**	
1124	**97**	**310**	**05:40:11.133**	**11ENM15HR_01-**	**DESELC**	**300EA**	**EUROPA OBSERVATION AT MINUS 15 H**	**3R3**	**4**	**0**	**: :**	
1125	**97**	**310**	**05:45:48.466**	**11ENM15HR_01-**	**DESELC**	**300FZ**	**EUROPA OBSERVATION AT MINUS 15 H**	**3R3**	**4**	**0**	**: :**	
1126	97	310	05:45:58.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3838.01 +/-	3R3	4	0	4,205,382:82:0	
1127	97	310	05:45:58.466	175FT422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,382:82:0	
1128	97	310	05:45:58.466	175FT6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,205,382:82:0	
1129	97	310	05:45:59.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3837.95 +/-	3R3	4	0	4,205,382:83:8	
1130	97	310	05:46:01.800	117DY11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,205,382:87:0	
1131	97	310	05:46:03.800	165BK4A	7SCAN	NORM,223.220999,	Check S/P Position	3R3	4	0	4,205,382:90:0	
1132	**97**	**310**	**05:47:09.067**	**11ENM15HR_01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
1133	97	310	10:01:03.800	488DA6A	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	3R3	4	0	4,205,635:17:0	
1134	97	310	10:33:03.800	488DA6B	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	3R3	4	0	4,205,666:76:0	
1135	97	310	10:42:19.133	165GB4A	7SCAN	NORM,265.522999,	Check S/P Position	3R3	4	0	4,205,675:90:0	
1136	97	310	10:45:21.800	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	4,205,679:00:0	
1137	97	310	10:46:13.133	117GB	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	4,205,679:77:0	
1138	97	310	10:46:22.466	117GB105A106A4A	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,680:00:0	
1139	97	310	10:47:11.133	117GB105A106A4B	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,680:73:0	
1140	97	310	10:47:27.133	117GB105A106A4C	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,681:06:0	
1141	97	310	10:48:15.800	117GB105A106A4D	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,681:79:0	
1142	97	310	10:48:31.800	117GB105A106A4E	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,682:12:0	
1143	97	310	10:49:20.466	117GB105A106A4F	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,682:85:0	
1144	97	310	10:49:36.466	117GB105A106A4G	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,683:18:0	
1145	97	310	10:50:25.133	117GB105A106A4H	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,684:00:0	
1146	97	310	10:50:41.133	117GB105A106A4I	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,684:24:0	
1147	97	310	10:51:29.800	117GB105A106A4J	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,685:06:0	
1148	97	310	10:51:45.800	117GB105A106A4K	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,685:30:0	
1149	97	310	10:52:34.466	117GB105A106A4L	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,686:12:0	
1150	97	310	10:52:50.466	117GB105A106A4M	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,686:36:0	
1151	97	310	10:53:39.133	117GB105A106A4N	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,687:18:0	
1152	97	310	10:53:55.133	117GB105A106A4O	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,687:42:0	
1153	97	310	10:54:43.800	117GB105A106A4P	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,688:24:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	97	310	10:54:59.800	117GB105A106A4Q	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,688:48:0	
1155	97	310	10:55:48.466	117GB105A106A4R	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,689:30:0	
1156	97	310	10:56:04.466	117GB105A106A4S	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,689:54:0	
1157	97	310	10:56:53.133	117GB105A106A4T	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,690:36:0	
1158	97	310	10:57:09.133	117GB105A106A4U	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,690:60:0	
1159	97	310	10:57:57.800	117GB105A106A4V	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,691:42:0	
1160	97	310	10:58:13.800	117GB105A106A4W	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,691:66:0	
1161	97	310	10:59:02.466	117GB105A106A4X	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,692:48:0	
1162	97	310	10:59:15.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,692:68:0	
1163	97	310	10:59:15.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3837.95 +/-	3R3	4	0	4,205,692:68:0	
1164	97	310	10:59:17.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3838.07 +/-	3R3	4	0	4,205,692:70:1	
1165	97	310	10:59:18.466	117GB105A106A4Y	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,692:72:0	
1166	97	310	10:59:22.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3839.30 +/-	3R3	4	0	4,205,692:78:0	
1167	97	310	10:59:23.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3839.36 +/-	3R3	4	0	4,205,692:79:8	
1168	97	310	10:59:25.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3839.24 +/-	3R3	4	0	4,205,692:81:9	
1169	97	310	10:59:43.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3834.85 +/-	3R3	4	0	4,205,693:19:0	
1170	97	310	11:00:06.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,693:53:0	
1171	97	310	11:00:06.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3829.54 +/-	3R3	4	0	4,205,693:53:0	
1172	97	310	11:00:07.133	117GB105A106A4Z	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,693:54:0	
1173	97	310	11:00:07.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3829.48 +/-	3R3	4	0	4,205,693:54:8	
1174	97	310	11:00:23.133	117GB105A106A4AA	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,693:78:0	
1175	97	310	11:01:11.800	117GB105A106A4AB	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,694:60:0	
1176	97	310	11:01:27.800	117GB105A106A4AC	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,694:84:0	
1177	97	310	11:02:16.466	117GB105A106A4AD	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,695:66:0	
1178	97	310	11:02:32.466	117GB105A106A4AE	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,695:90:0	
1179	97	310	11:03:21.133	117GB105A106A4AF	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,696:72:0	
1180	97	310	11:03:37.133	117GB105A106A4AG	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,697:05:0	
1181	97	310	11:04:25.800	117GB105A106A4AH	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,697:78:0	
1182	97	310	11:04:41.800	117GB105A106A4AI	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,698:11:0	
1183	97	310	11:05:30.466	117GB105A106A4AJ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,698:84:0	
1184	97	310	11:05:46.466	117GB105A106A4AK	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,699:17:0	
1185	97	310	11:06:35.133	117GB105A106A4AL	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,699:90:0	
1186	97	310	11:06:51.133	117GB105A106A4AM	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,700:23:0	
1187	97	310	11:07:39.800	117GB105A106A4AN	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,701:05:0	
1188	97	310	11:07:55.800	117GB105A106A4AO	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,701:29:0	
1189	97	310	11:08:44.466	117GB105A106A4AP	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,702:11:0	
1190	97	310	11:09:00.466	117GB105A106A4AQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,702:35:0	
1191	97	310	11:09:49.133	117GB105A106A4AR	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,703:17:0	
1192	97	310	11:10:05.133	117GB105A106A4AS	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,703:41:0	
1193	97	310	11:10:53.800	117GB105A106A4AT	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,704:23:0	
1194	97	310	11:11:09.800	117GB105A106A4AU	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,704:47:0	
1195	97	310	11:11:58.466	117GB105A106A4AV	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,705:29:0	
1196	97	310	11:12:14.466	117GB105A106A4AW	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,705:53:0	
1197	97	310	11:13:03.133	117GB105A106A4AX	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,706:35:0	
1198	97	310	11:13:19.133	117GB105A106A4AY	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,706:59:0	
1199	97	310	11:13:39.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3829.48 +/-	3R3	4	0	4,205,706:90:0	
1200	97	310	11:13:39.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,706:90:0	
1201	97	310	11:13:41.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3829.60 +/-	3R3	4	0	4,205,707:01:1	
1202	97	310	11:13:46.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3830.83 +/-	3R3	4	0	4,205,707:09:0	
1203	97	310	11:13:47.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3830.89 +/-	3R3	4	0	4,205,707:10:8	
1204	97	310	11:13:49.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3830.77 +/-	3R3	4	0	4,205,707:12:9	
1205	97	310	11:14:07.800	117GB105A106A4AZ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,707:41:0	
1206	97	310	11:14:07.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3826.38 +/-	3R3	4	0	4,205,707:41:0	
1207	97	310	11:14:23.800	117GB105A106A4BA	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,707:65:0	
1208	97	310	11:14:30.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,707:75:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	97	310	11:14:30.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3821.07 +/-	3R3	4	0	4,205,707	75:0
1210	97	310	11:14:31.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3821.01 +/-	3R3	4	0	4,205,707	76:8
1211	97	310	11:15:12.466	117GB105A106A4BB	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,708	47:0
1212	97	310	11:15:28.466	117GB105A106A4BC	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,708	71:0
1213	97	310	11:16:17.133	117GB105A106A4BD	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,709	53:0
1214	97	310	11:16:33.133	117GB105A106A4BE	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,709	77:0
1215	97	310	11:17:21.800	117GB105A106A4BF	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,710	59:0
1216	97	310	11:17:37.800	117GB105A106A4BG	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,710	83:0
1217	97	310	11:18:26.466	117GB105A106A4BH	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,711	65:0
1218	97	310	11:18:42.466	117GB105A106A4BI	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,711	89:0
1219	97	310	11:19:31.133	117GB105A106A4BJ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,712	71:0
1220	97	310	11:19:47.133	117GB105A106A4BK	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,713	04:0
1221	97	310	11:20:35.800	117GB105A106A4BL	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,713	77:0
1222	97	310	11:20:51.800	117GB105A106A4BM	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,714	10:0
1223	97	310	11:21:40.466	117GB105A106A4BN	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,714	83:0
1224	97	310	11:21:56.466	117GB105A106A4BO	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,715	16:0
1225	97	310	11:22:45.133	117GB105A106A4BP	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,715	89:0
1226	97	310	11:23:01.133	117GB105A106A4BQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,716	22:0
1227	97	310	11:23:49.800	117GB105A106A4BR	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,717	04:0
1228	97	310	11:24:05.800	117GB105A106A4BS	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,717	28:0
1229	97	310	11:24:54.466	117GB105A106A4BT	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,718	10:0
1230	97	310	11:25:10.466	117GB105A106A4BU	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,718	34:0
1231	97	310	11:25:59.133	117GB105A106A4BV	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,719	16:0
1232	97	310	11:26:15.133	117GB105A106A4BW	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,719	40:0
1233	97	310	11:27:03.800	117GB105A106A4BX	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,720	22:0
1234	97	310	11:27:19.800	117GB105A106A4BY	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,720	46:0
1235	97	310	11:28:04.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3821.01 +/-	3R3	4	0	4,205,721	22:0
1236	97	310	11:28:04.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,721	22:0
1237	97	310	11:28:05.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3821.13 +/-	3R3	4	0	4,205,721	24:1
1238	97	310	11:28:08.466	117GB105A106A4BZ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,721	28:0
1239	97	310	11:28:11.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3822.36 +/-	3R3	4	0	4,205,721	32:0
1240	97	310	11:28:12.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3822.42 +/-	3R3	4	0	4,205,721	33:8
1241	97	310	11:28:13.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3822.30 +/-	3R3	4	0	4,205,721	35:9
1242	97	310	11:28:24.466	117GB105A106A4CA	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,721	52:0
1243	97	310	11:28:32.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3817.91 +/-	3R3	4	0	4,205,721	64:0
1244	97	310	11:28:55.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3812.60 +/-	3R3	4	0	4,205,722	07:0
1245	97	310	11:28:55.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,722	07:0
1246	97	310	11:28:56.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3812.54 +/-	3R3	4	0	4,205,722	08:8
1247	97	310	11:29:13.133	117GB105A106A4CB	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,722	34:0
1248	97	310	11:29:29.133	117GB105A106A4CC	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,722	58:0
1249	97	310	11:30:17.800	117GB105A106A4CD	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,723	40:0
1250	97	310	11:30:33.800	117GB105A106A4CE	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,723	64:0
1251	97	310	11:31:22.466	117GB105A106A4CF	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,724	46:0
1252	97	310	11:31:38.466	117GB105A106A4CG	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,724	70:0
1253	97	310	11:32:27.133	117GB105A106A4CH	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,725	52:0
1254	97	310	11:32:43.133	117GB105A106A4CI	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,725	76:0
1255	97	310	11:33:31.800	117GB105A106A4CJ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,726	58:0
1256	97	310	11:33:47.800	117GB105A106A4CK	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,726	82:0
1257	97	310	11:34:36.466	117GB105A106A4CL	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,727	64:0
1258	97	310	11:34:52.466	117GB105A106A4CM	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,727	88:0
1259	97	310	11:35:41.133	117GB105A106A4CN	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,728	70:0
1260	97	310	11:35:57.133	117GB105A106A4CO	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,729	03:0
1261	97	310	11:36:45.800	117GB105A106A4CP	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,729	76:0
1262	97	310	11:37:01.800	117GB105A106A4CQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,730	09:0
1263	97	310	11:37:03.800	488DA6C	6TMSED	NORM,GL5	Sci, Eng, and D/L Chan	3R3	4	0	4,205,730	12:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	97	310	11:37:50.466	117GB105A106A4CR	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,730	82:0
1265	97	310	11:38:06.466	117GB105A106A4CS	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,731	15:0
1266	97	310	11:38:55.133	117GB105A106A4CT	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,731	88:0
1267	97	310	11:39:11.133	117GB105A106A4CU	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,732	21:0
1268	97	310	11:39:59.800	117GB105A106A4CV	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,733	03:0
1269	97	310	11:40:15.800	117GB105A106A4CW	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,733	27:0
1270	97	310	11:41:04.466	117GB105A106A4CX	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,734	09:0
1271	97	310	11:41:20.466	117GB105A106A4CY	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,734	33:0
1272	97	310	11:42:09.133	117GB105A106A4CZ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,735	15:0
1273	97	310	11:42:25.133	117GB105A106A4DA	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,735	39:0
1274	97	310	11:42:29.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3812.54 +/-	3R3	4	0	4,205,735	45:0
1275	97	310	11:42:29.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,735	45:0
1276	97	310	11:42:30.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3812.66 +/-	3R3	4	0	4,205,735	47:1
1277	97	310	11:42:35.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3813.90 +/-	3R3	4	0	4,205,735	55:0
1278	97	310	11:42:37.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3813.96 +/-	3R3	4	0	4,205,735	56:8
1279	97	310	11:42:38.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3813.84 +/-	3R3	4	0	4,205,735	58:9
1280	97	310	11:42:57.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3809.44 +/-	3R3	4	0	4,205,735	87:0
1281	97	310	11:43:13.800	117GB105A106A4DB	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,736	21:0
1282	97	310	11:43:19.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3804.13 +/-	3R3	4	0	4,205,736	30:0
1283	97	310	11:43:19.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,736	30:0
1284	97	310	11:43:21.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3804.07 +/-	3R3	4	0	4,205,736	31:8
1285	97	310	11:43:29.800	117GB105A106A4DC	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,736	45:0
1286	97	310	11:44:18.466	117GB105A106A4DD	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,737	27:0
1287	97	310	11:44:34.466	117GB105A106A4DE	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,737	51:0
1288	97	310	11:44:59.800	488DA6D	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	3R3	4	0	4,205,737	89:0
1289	97	310	11:45:23.133	117GB105A106A4DF	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,738	33:0
1290	97	310	11:45:39.133	117GB105A106A4DG	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,738	57:0
1291	97	310	11:46:27.800	117GB105A106A4DH	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,739	39:0
1292	97	310	11:46:43.800	117GB105A106A4DI	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,739	63:0
1293	97	310	11:47:32.466	117GB105A106A4DJ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,740	45:0
1294	97	310	11:47:48.466	117GB105A106A4DK	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,740	69:0
1295	97	310	11:48:37.133	117GB105A106A4DL	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,741	51:0
1296	97	310	11:48:53.133	117GB105A106A4DM	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,741	75:0
1297	97	310	11:49:41.800	117GB105A106A4DN	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,742	57:0
1298	97	310	11:49:57.800	117GB105A106A4DO	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,742	81:0
1299	97	310	11:50:46.466	117GB105A106A4DP	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,743	63:0
1300	97	310	11:51:02.466	117GB105A106A4DQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,743	87:0
1301	97	310	11:51:51.133	117GB105A106A4DR	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,744	69:0
1302	97	310	11:52:07.133	117GB105A106A4DS	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,745	02:0
1303	97	310	11:52:55.800	117GB105A106A4DT	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,745	75:0
1304	97	310	11:53:11.800	117GB105A106A4DU	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,746	08:0
1305	97	310	11:54:00.466	117GB105A106A4DV	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,746	81:0
1306	97	310	11:54:16.466	117GB105A106A4DW	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,747	14:0
1307	97	310	11:55:05.133	117GB105A106A4DX	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,747	87:0
1308	97	310	11:55:21.133	117GB105A106A4DY	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,748	20:0
1309	97	310	11:56:09.800	117GB105A106A4DZ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,749	02:0
1310	97	310	11:56:25.800	117GB105A106A4EA	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,749	26:0
1311	97	310	11:56:53.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3804.07 +/-	3R3	4	0	4,205,749	68:0
1312	97	310	11:56:53.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,749	68:0
1313	97	310	11:56:55.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3804.19 +/-	3R3	4	0	4,205,749	70:1
1314	97	310	11:57:00.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3805.43 +/-	3R3	4	0	4,205,749	78:0
1315	97	310	11:57:01.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3805.49 +/-	3R3	4	0	4,205,749	79:8
1316	97	310	11:57:03.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3805.37 +/-	3R3	4	0	4,205,749	81:9
1317	97	310	11:57:14.466	117GB105A106A4EB	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,750	08:0
1318	97	310	11:57:21.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3800.98 +/-	3R3	4	0	4,205,750	19:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	97	310	11:57:30.466	117GB105A106A4EC	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,750:32:0	
1320	97	310	11:57:44.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3795.66 +/-	3R3	4	0	4,205,750:53:0	
1321	97	310	11:57:44.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,750:53:0	
1322	97	310	11:57:45.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3795.60 +/-	3R3	4	0	4,205,750:54:8	
1323	97	310	11:58:19.133	117GB105A106A4ED	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,751:14:0	
1324	97	310	11:58:35.133	117GB105A106A4EE	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,751:38:0	
1325	97	310	11:59:23.800	117GB105A106A4EF	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,752:20:0	
1326	97	310	11:59:39.800	117GB105A106A4EG	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,752:44:0	
1327	97	310	12:00:28.466	117GB105A106A4EH	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,753:26:0	
1328	97	310	12:00:44.466	117GB105A106A4EI	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,753:50:0	
1329	97	310	12:01:33.133	117GB105A106A4EJ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,754:32:0	
1330	97	310	12:01:49.133	117GB105A106A4EK	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,754:56:0	
1331	97	310	12:02:37.800	117GB105A106A4EL	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,755:38:0	
1332	97	310	12:02:53.800	117GB105A106A4EM	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,755:62:0	
1333	97	310	12:03:42.466	117GB105A106A4EN	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,756:44:0	
1334	97	310	12:03:58.466	117GB105A106A4EO	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,756:68:0	
1335	97	310	12:04:47.133	117GB105A106A4EP	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,757:50:0	
1336	97	310	12:05:03.133	117GB105A106A4EQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,757:74:0	
1337	97	310	12:05:51.800	117GB105A106A4ER	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,758:56:0	
1338	97	310	12:06:07.800	117GB105A106A4ES	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,758:80:0	
1339	97	310	12:06:56.466	117GB105A106A4ET	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,759:62:0	
1340	97	310	12:07:12.466	117GB105A106A4EU	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,759:86:0	
1341	97	310	12:08:01.133	117GB105A106A4EV	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,760:68:0	
1342	97	310	12:08:17.133	117GB105A106A4EW	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,761:01:0	
1343	97	310	12:09:05.800	117GB105A106A4EX	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,761:74:0	
1344	97	310	12:09:21.800	117GB105A106A4EY	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,762:07:0	
1345	97	310	12:10:10.466	117GB105A106A4EZ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,762:80:0	
1346	97	310	12:10:26.466	117GB105A106A4FA	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,763:13:0	
1347	97	310	12:11:15.133	117GB105A106A4FB	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,763:86:0	
1348	97	310	12:11:18.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3795.60 +/-	3R3	4	0	4,205,764:00:0	
1349	97	310	12:11:18.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,764:00:0	
1350	97	310	12:11:19.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3795.72 +/-	3R3	4	0	4,205,764:02:1	
1351	97	310	12:11:25.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3796.96 +/-	3R3	4	0	4,205,764:10:0	
1352	97	310	12:11:26.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3797.02 +/-	3R3	4	0	4,205,764:11:8	
1353	97	310	12:11:27.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3796.90 +/-	3R3	4	0	4,205,764:13:9	
1354	97	310	12:11:31.133	117GB105A106A4FC	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,764:19:0	
1355	97	310	12:11:46.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3792.51 +/-	3R3	4	0	4,205,764:42:0	
1356	97	310	12:12:09.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3787.19 +/-	3R3	4	0	4,205,764:76:0	
1357	97	310	12:12:09.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,764:76:0	
1358	97	310	12:12:10.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3787.13 +/-	3R3	4	0	4,205,764:77:8	
1359	97	310	12:12:19.800	117GB105A106A4FD	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,765:01:0	
1360	97	310	12:12:35.800	117GB105A106A4FE	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,765:25:0	
1361	97	310	12:13:24.466	117GB105A106A4FF	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,766:07:0	
1362	97	310	12:13:40.466	117GB105A106A4FG	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,766:31:0	
1363	97	310	12:14:29.133	117GB105A106A4FH	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,767:13:0	
1364	97	310	12:14:45.133	117GB105A106A4FI	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,767:37:0	
1365	97	310	12:15:33.800	117GB105A106A4FJ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,768:19:0	
1366	97	310	12:15:49.800	117GB105A106A4FK	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,768:43:0	
1367	97	310	12:16:38.466	117GB105A106A4FL	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,769:25:0	
1368	97	310	12:16:54.466	117GB105A106A4FM	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,769:49:0	
1369	97	310	12:17:43.133	117GB105A106A4FN	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,770:31:0	
1370	97	310	12:17:59.133	117GB105A106A4FO	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,770:55:0	
1371	97	310	12:18:47.800	117GB105A106A4FP	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,771:37:0	
1372	97	310	12:19:03.800	117GB105A106A4FQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,771:61:0	
1373	97	310	12:19:52.466	117GB105A106A4FR	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,772:43:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	97	310	12:20:08.466	117GB105A106A4FS	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,772	67:0
1375	97	310	12:20:57.133	117GB105A106A4FT	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,773	49:0
1376	97	310	12:21:13.133	117GB105A106A4FU	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,773	73:0
1377	97	310	12:22:01.800	117GB105A106A4FV	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,774	55:0
1378	97	310	12:22:17.800	117GB105A106A4FW	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,774	79:0
1379	97	310	12:23:06.466	117GB105A106A4FX	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,775	61:0
1380	97	310	12:23:22.466	117GB105A106A4FY	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,775	85:0
1381	97	310	12:24:11.133	117GB105A106A4FZ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,776	67:0
1382	97	310	12:24:27.133	117GB105A106A4GA	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,777	00:0
1383	97	310	12:25:15.800	117GB105A106A4GB	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,777	73:0
1384	97	310	12:25:31.800	117GB105A106A4GC	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,778	06:0
1385	97	310	12:25:42.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,778	22:0
1386	97	310	12:25:42.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3787.13 +/-	3R3	4	0	4,205,778	22:0
1387	97	310	12:25:43.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3787.25 +/-	3R3	4	0	4,205,778	24:1
1388	97	310	12:25:49.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3788.49 +/-	3R3	4	0	4,205,778	32:0
1389	97	310	12:25:50.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3788.55 +/-	3R3	4	0	4,205,778	33:8
1390	97	310	12:25:51.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3788.43 +/-	3R3	4	0	4,205,778	35:9
1391	97	310	12:26:10.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3784.04 +/-	3R3	4	0	4,205,778	64:0
1392	97	310	12:26:20.466	117GB105A106A4GD	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,778	79:0
1393	97	310	12:26:33.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,779	07:0
1394	97	310	12:26:33.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3778.73 +/-	3R3	4	0	4,205,779	07:0
1395	97	310	12:26:34.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3778.67 +/-	3R3	4	0	4,205,779	08:8
1396	97	310	12:26:36.466	117GB105A106A4GE	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,779	12:0
1397	97	310	12:27:25.133	117GB105A106A4GF	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,779	85:0
1398	97	310	12:27:41.133	117GB105A106A4GG	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,780	18:0
1399	97	310	12:28:29.800	117GB105A106A4GH	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,781	00:0
1400	97	310	12:28:45.800	117GB105A106A4GI	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,781	24:0
1401	97	310	12:29:34.466	117GB105A106A4GJ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,782	06:0
1402	97	310	12:29:50.466	117GB105A106A4GK	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,782	30:0
1403	97	310	12:30:39.133	117GB105A106A4GL	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,783	12:0
1404	97	310	12:30:55.133	117GB105A106A4GM	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,783	36:0
1405	97	310	12:31:43.800	117GB105A106A4GN	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,784	18:0
1406	97	310	12:31:59.800	117GB105A106A4GO	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,784	42:0
1407	97	310	12:32:48.466	117GB105A106A4GP	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,785	24:0
1408	97	310	12:33:04.466	117GB105A106A4GQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,785	48:0
1409	97	310	12:33:53.133	117GB105A106A4GR	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,786	30:0
1410	97	310	12:34:09.133	117GB105A106A4GS	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,786	54:0
1411	97	310	12:34:57.800	117GB105A106A4GT	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,787	36:0
1412	97	310	12:35:13.800	117GB105A106A4GU	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,787	60:0
1413	97	310	12:36:02.466	117GB105A106A4GV	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,788	42:0
1414	97	310	12:36:18.466	117GB105A106A4GW	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,788	66:0
1415	97	310	12:37:07.133	117GB105A106A4GX	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,789	48:0
1416	97	310	12:37:23.133	117GB105A106A4GY	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,789	72:0
1417	97	310	12:38:11.800	117GB105A106A4GZ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,790	54:0
1418	97	310	12:38:27.800	117GB105A106A4HA	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,790	78:0
1419	97	310	12:39:16.466	117GB105A106A4HB	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,791	60:0
1420	97	310	12:39:32.466	117GB105A106A4HC	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,791	84:0
1421	97	310	12:40:07.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,792	45:0
1422	97	310	12:40:07.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3778.67 +/-	3R3	4	0	4,205,792	45:0
1423	97	310	12:40:08.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3778.79 +/-	3R3	4	0	4,205,792	47:1
1424	97	310	12:40:13.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3780.02 +/-	3R3	4	0	4,205,792	55:0
1425	97	310	12:40:15.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3780.08 +/-	3R3	4	0	4,205,792	56:8
1426	97	310	12:40:16.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3779.96 +/-	3R3	4	0	4,205,792	58:9
1427	97	310	12:40:21.133	117GB105A106A4HD	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,792	66:0
1428	97	310	12:40:35.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3775.57 +/-	3R3	4	0	4,205,792	87:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	97	310	12:40:37.133	117GB105A106A4HE	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,792:90:0	
1430	97	310	12:40:57.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,793:30:0	
1431	97	310	12:40:57.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3770.26 +/-	3R3	4	0	4,205,793:30:0	
1432	97	310	12:40:59.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3770.20 +/-	3R3	4	0	4,205,793:31:8	
1433	97	310	12:41:25.800	117GB105A106A4HF	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,793:72:0	
1434	97	310	12:41:41.800	117GB105A106A4HG	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,794:05:0	
1435	97	310	12:42:30.466	117GB105A106A4HH	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,794:78:0	
1436	97	310	12:42:46.466	117GB105A106A4HI	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,795:11:0	
1437	97	310	12:43:35.133	117GB105A106A4HJ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,795:84:0	
1438	97	310	12:43:51.133	117GB105A106A4HK	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,796:17:0	
1439	97	310	12:44:39.800	117GB105A106A4HL	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,796:90:0	
1440	97	310	12:44:55.800	117GB105A106A4HM	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,797:23:0	
1441	97	310	12:45:44.466	117GB105A106A4HN	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,798:05:0	
1442	97	310	12:46:00.466	117GB105A106A4HO	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,798:29:0	
1443	97	310	12:46:49.133	117GB105A106A4HP	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,799:11:0	
1444	97	310	12:47:05.133	117GB105A106A4HQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,799:35:0	
1445	97	310	12:47:27.800	488DA6E	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	3R3	4	0	4,205,799:69:0	
1446	97	310	12:47:53.800	117GB105A106A4HR	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,800:17:0	
1447	97	310	12:48:09.800	117GB105A106A4HS	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,800:41:0	
1448	97	310	12:48:58.466	117GB105A106A4HT	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,801:23:0	
1449	97	310	12:49:14.466	117GB105A106A4HU	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,801:47:0	
1450	97	310	12:50:03.133	117GB105A106A4HV	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,802:29:0	
1451	97	310	12:50:19.133	117GB105A106A4HW	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,802:53:0	
1452	97	310	12:51:07.800	117GB105A106A4HX	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,803:35:0	
1453	97	310	12:51:23.800	117GB105A106A4HY	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,803:59:0	
1454	97	310	12:52:12.466	117GB105A106A4HZ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,804:41:0	
1455	97	310	12:52:28.466	117GB105A106A4IA	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,804:65:0	
1456	97	310	12:53:17.133	117GB105A106A4IB	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,805:47:0	
1457	97	310	12:53:33.133	117GB105A106A4IC	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,805:71:0	
1458	97	310	12:54:21.800	117GB105A106A4ID	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,806:53:0	
1459	97	310	12:54:31.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,806:68:0	
1460	97	310	12:54:31.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3770.20 +/-	3R3	4	0	4,205,806:68:0	
1461	97	310	12:54:33.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3770.32 +/-	3R3	4	0	4,205,806:70:1	
1462	97	310	12:54:37.800	117GB105A106A4IE	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,806:77:0	
1463	97	310	12:54:38.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3771.55 +/-	3R3	4	0	4,205,806:78:0	
1464	97	310	12:54:39.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3771.61 +/-	3R3	4	0	4,205,806:79:8	
1465	97	310	12:54:41.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3771.49 +/-	3R3	4	0	4,205,806:81:9	
1466	97	310	12:54:59.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3767.10 +/-	3R3	4	0	4,205,807:19:0	
1467	97	310	12:55:22.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,807:53:0	
1468	97	310	12:55:22.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3761.79 +/-	3R3	4	0	4,205,807:53:0	
1469	97	310	12:55:23.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3761.73 +/-	3R3	4	0	4,205,807:54:8	
1470	97	310	12:55:26.466	117GB105A106A4IF	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,807:59:0	
1471	97	310	12:55:42.466	117GB105A106A4IG	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,807:83:0	
1472	97	310	12:56:31.133	117GB105A106A4IH	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,808:65:0	
1473	97	310	12:56:47.133	117GB105A106A4II	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,808:89:0	
1474	97	310	12:57:35.800	117GB105A106A4IJ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,809:71:0	
1475	97	310	12:57:51.800	117GB105A106A4IK	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,810:04:0	
1476	97	310	12:58:40.466	117GB105A106A4IL	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,810:77:0	
1477	97	310	12:58:56.466	117GB105A106A4IM	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,811:10:0	
1478	97	310	12:59:45.133	117GB105A106A4IN	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,811:83:0	
1479	97	310	13:00:01.133	117GB105A106A4IO	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,812:16:0	
1480	97	310	13:00:49.800	117GB105A106A4IP	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,812:89:0	
1481	97	310	13:01:05.800	117GB105A106A4IQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,813:22:0	
1482	97	310	13:01:54.466	117GB105A106A4IR	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,814:04:0	
1483	97	310	13:02:10.466	117GB105A106A4IS	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,814:28:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	97	310	13:02:59.133	117GB105A106A4IT	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,815:10:0	
1485	97	310	13:03:15.133	117GB105A106A4IU	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,815:34:0	
1486	97	310	13:04:03.800	117GB105A106A4IV	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,816:16:0	
1487	97	310	13:04:19.800	117GB105A106A4IW	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,816:40:0	
1488	97	310	13:05:08.466	117GB105A106A4IX	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,817:22:0	
1489	97	310	13:05:24.466	117GB105A106A4IY	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,817:46:0	
1490	97	310	13:06:13.133	117GB105A106A4IZ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,818:28:0	
1491	97	310	13:06:29.133	117GB105A106A4JA	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,818:52:0	
1492	97	310	13:07:17.800	117GB105A106A4JB	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,819:34:0	
1493	97	310	13:07:33.800	117GB105A106A4JC	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,819:58:0	
1494	97	310	13:08:22.466	117GB105A106A4JD	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,820:40:0	
1495	97	310	13:08:38.466	117GB105A106A4JE	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,820:64:0	
1496	97	310	13:08:56.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3761.73 +/-	3R3	4	0	4,205,821:00:0	
1497	97	310	13:08:56.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,205,821:00:0	
1498	97	310	13:08:57.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3761.85 +/-	3R3	4	0	4,205,821:02:1	
1499	97	310	13:09:03.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3763.08 +/-	3R3	4	0	4,205,821:10:0	
1500	97	310	13:09:04.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3763.14 +/-	3R3	4	0	4,205,821:11:8	
1501	97	310	13:09:05.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3763.02 +/-	3R3	4	0	4,205,821:13:9	
1502	97	310	13:09:24.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3758.63 +/-	3R3	4	0	4,205,821:42:0	
1503	97	310	13:09:27.133	117GB105A106A4JF	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,821:46:0	
1504	97	310	13:09:43.133	117GB105A106A4JG	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,821:70:0	
1505	97	310	13:09:47.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3753.32 +/-	3R3	4	0	4,205,821:76:0	
1506	97	310	13:09:47.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,205,821:76:0	
1507	97	310	13:09:48.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3753.26 +/-	3R3	4	0	4,205,821:77:8	
1508	97	310	13:10:31.800	117GB105A106A4JH	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,822:52:0	
1509	97	310	13:10:47.800	117GB105A106A4JI	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,822:76:0	
1510	97	310	13:11:36.466	117GB105A106A4JJ	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,823:58:0	
1511	97	310	13:11:52.466	117GB105A106A4JK	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,823:82:0	
1512	97	310	13:12:41.133	117GB105A106A4JL	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,824:64:0	
1513	97	310	13:12:57.133	117GB105A106A4JM	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,824:88:0	
1514	97	310	13:13:45.800	117GB105A106A4JN	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,825:70:0	
1515	97	310	13:14:01.800	117GB105A106A4JO	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,826:03:0	
1516	**97**	**310**	**13:14:03.733**	**11NNRELOAD06-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1517	97	310	13:14:50.466	117GB105A106A4JP	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,826:76:0	
1518	97	310	13:15:04.466	20EG6A	6CKSUM	NIMS	NIMS,1000,14BC	3R3	4	0	4,205,827:06:0	
1519	97	310	13:15:06.466	117GB105A106A4JQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,827:09:0	
1520	97	310	13:15:55.133	117GB105A106A4JR	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,827:82:0	
1521	**97**	**310**	**13:16:05.133**	**20EG5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**4,205,828:06:0**	
1522	97	310	13:16:11.133	117GB105A106A4JS	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,828:15:0	
1523	97	310	13:16:59.800	117GB105A106A4JT	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,828:88:0	
1524	**97**	**310**	**13:17:05.800**	**20EG5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**4,205,829:06:0**	
1525	97	310	13:17:15.800	117GB105A106A4JU	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,829:21:0	
1526	97	310	13:18:04.466	117GB105A106A4JV	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,830:03:0	
1527	**97**	**310**	**13:18:06.466**	**20EG6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**4,205,830:06:0**	
1528	97	310	13:18:20.466	117GB105A106A4JW	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,830:27:0	
1529	**97**	**310**	**13:19:07.133**	**20EG6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**4,205,831:06:0**	
1530	97	310	13:19:09.133	117GB105A106A4JX	7STRP	0.00145,0.010101	Slew =17.01	3R3	4	0	4,205,831:09:0	
1531	97	310	13:19:25.133	117GB105A106A4JY	7STRP	0.0,-0.010001,0,	Slew =,0.41	3R3	4	0	4,205,831:33:0	
1532	**97**	**310**	**13:20:07.800**	**20EG5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,205,832:06:0**	
1533	97	310	13:20:13.800	117GB105A106A4JZ	7STRP	0.00145,0.010101	Slew =17.01	260	4	0	4,205,832:15:0	
1534	97	310	13:20:29.800	117GB105A106A4KA	7STRP	0.0,-0.010001,0,	Slew =,0.41	260	4	0	4,205,832:39:0	
1535	**97**	**310**	**13:21:08.466**	**20EG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,205,833:06:0**	
1536	97	310	13:21:18.466	117GB105A106A4KB	7STRP	0.00145,0.010101	Slew =17.01	260	4	0	4,205,833:21:0	
1537	97	310	13:21:34.466	117GB105A106A4KC	7STRP	0.0,-0.010001,0,	Slew =,0.41	260	4	0	4,205,833:45:0	
1538	**97**	**310**	**13:22:09.133**	**20EG4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,205,834:06:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	97	310	13:22:23.133	117GB105A106A4KD	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,834	27:0
1540	97	310	13:22:39.133	117GB105A106A4KE	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,834	51:0
1541	97	310	13:23:21.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3753.26 +/-	2R0	4	0	4,205,835	23:0
1542	97	310	13:23:21.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	4,205,835	23:0
1543	97	310	13:23:22.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3753.38 +/-	2R0	4	0	4,205,835	25:1
1544	97	310	13:23:27.800	117GB105A106A4KF	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,835	33:0
1545	97	310	13:23:27.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3754.61 +/-	2R0	4	0	4,205,835	33:0
1546	97	310	13:23:29.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3754.67 +/-	2R0	4	0	4,205,835	34:8
1547	97	310	13:23:30.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3754.55 +/-	2R0	4	0	4,205,835	36:9
1548	97	310	13:23:43.800	117GB105A106A4KG	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,835	57:0
1549	97	310	13:23:49.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3750.16 +/-	2R0	4	0	4,205,835	65:0
1550	**97**	**310**	**13:24:10.400**	**11NNRELOAD06-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1551	97	310	13:24:11.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3744.85 +/-	2R0	4	0	4,205,836	08:0
1552	97	310	13:24:11.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	4,205,836	08:0
1553	97	310	13:24:13.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3744.79 +/-	2R0	4	0	4,205,836	09:8
1554	97	310	13:24:32.466	117GB105A106A4KH	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,836	39:0
1555	97	310	13:24:48.466	117GB105A106A4KI	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,836	63:0
1556	97	310	13:25:37.133	117GB105A106A4KJ	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,837	45:0
1557	97	310	13:25:53.133	117GB105A106A4KK	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,837	69:0
1558	97	310	13:26:41.800	117GB105A106A4KL	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,838	51:0
1559	97	310	13:26:57.800	117GB105A106A4KM	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,838	75:0
1560	97	310	13:27:46.466	117GB105A106A4KN	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,839	57:0
1561	97	310	13:27:59.800	488DB6A	6TMSED	NORM,EL2	Sci, Eng, and D/L Chan	2R0	4	0	4,205,839	77:0
1562	97	310	13:28:02.466	117GB105A106A4KO	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,839	81:0
1563	97	310	13:28:51.133	117GB105A106A4KP	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,840	63:0
1564	97	310	13:29:07.133	117GB105A106A4KQ	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,840	87:0
1565	97	310	13:29:55.800	117GB105A106A4KR	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,841	69:0
1566	97	310	13:30:11.800	117GB105A106A4KS	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,842	02:0
1567	97	310	13:31:00.466	117GB105A106A4KT	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,842	75:0
1568	97	310	13:31:16.466	117GB105A106A4KU	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,843	08:0
1569	97	310	13:32:05.133	117GB105A106A4KV	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,843	81:0
1570	97	310	13:32:21.133	117GB105A106A4KW	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,844	14:0
1571	97	310	13:33:09.800	117GB105A106A4KX	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,844	87:0
1572	97	310	13:33:25.800	117GB105A106A4KY	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,845	20:0
1573	97	310	13:34:14.466	117GB105A106A4KZ	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,846	02:0
1574	97	310	13:34:30.466	117GB105A106A4LA	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,846	26:0
1575	97	310	13:35:19.133	117GB105A106A4LB	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,847	08:0
1576	97	310	13:35:35.133	117GB105A106A4LC	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,847	32:0
1577	97	310	13:36:23.800	117GB105A106A4LD	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,848	14:0
1578	97	310	13:36:39.800	117GB105A106A4LE	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,848	38:0
1579	97	310	13:37:28.466	117GB105A106A4LF	7STRP	0.00145,0.010101	Slew =17.01	2R0	4	0	4,205,849	20:0
1580	97	310	13:37:44.466	117GB105A106A4LG	7STRP	0.0,-0.010001,0,	Slew =,0.41	2R0	4	0	4,205,849	44:0
1581	97	310	13:37:45.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3744.79 +/-	2R0	4	0	4,205,849	45:0
1582	97	310	13:37:45.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	4,205,849	45:0
1583	97	310	13:37:46.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3744.91 +/-	2R0	4	0	4,205,849	47:1
1584	97	310	13:37:51.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3746.15 +/-	2R0	4	0	4,205,849	55:0
1585	97	310	13:37:53.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3746.21 +/-	2R0	4	0	4,205,849	56:8
1586	97	310	13:37:54.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3746.09 +/-	2R0	4	0	4,205,849	58:9
1587	97	310	13:38:13.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3741.69 +/-	2R0	4	0	4,205,849	87:0
1588	97	310	13:38:33.133	117GB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R0	4	0	4,205,850	26:0
1589	97	310	13:38:35.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	4,205,850	30:0
1590	97	310	13:38:35.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3736.38 +/-	2R0	4	0	4,205,850	30:0
1591	97	310	13:38:37.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3736.32 +/-	2R0	4	0	4,205,850	31:8
1592	97	310	13:38:42.466	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R0	4	0	4,205,850	40:0
1593	97	310	13:38:44.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	4	0	4,205,850	43:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	97	310	13:38:44.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3736.32 +/-	2R0	4	0	4,205,850:43:0	
1595	97	310	13:38:45.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3736.44 +/-	2R0	4	0	4,205,850:45:1	
1596	97	310	13:38:51.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3737.68 +/-	2R0	4	0	4,205,850:53:0	
1597	97	310	13:38:52.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3737.74 +/-	2R0	4	0	4,205,850:54:8	
1598	97	310	13:38:53.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3737.62 +/-	2R0	4	0	4,205,850:56:9	
1599	97	310	13:38:54.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3737.44 +/-	2R0	4	0	4,205,850:58:0	
1600	97	310	13:39:04.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	4,205,850:73:0	
1601	97	310	13:39:04.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3735.10 +/-	2R0	4	0	4,205,850:73:0	
1602	97	310	13:39:05.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3735.04 +/-	2R0	4	0	4,205,850:74:8	
1603	**97**	**310**	**13:39:20.400**	**11JNRTBRG_01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1604	97	310	13:41:17.133	165KH4A	7SCAN	NORM,279.727997,	Check S/P Position	2R0	4	0	4,205,852:90:0	
1605	97	310	13:45:03.800	488DB6B	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	2R0	4	0	4,205,856:66:0	
1606	97	310	13:45:11.133	117KH	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	4,205,856:77:0	
1607	**97**	**310**	**13:45:15.800**	**125KZ4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,205,856:84:0**	
1608	97	310	13:45:15.800	125KZ	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,205,856:84:0	
1609	97	310	13:45:20.466	117KH105A106A4A	7STRP	-0.009,0.0,0,0,0	Slew =,0.03	2R0	4	0	4,205,857:00:0	
1610	97	310	13:46:16.466	125KZ11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,205,857:84:0	
1611	**97**	**310**	**13:46:16.466**	**125KZ4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**4,205,857:84:0**	
1612	**97**	**310**	**13:47:17.133**	**127KZ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,205,858:84:0**	
1613	97	310	13:47:17.133	127KZ	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,205,858:84:0	
1614	**97**	**310**	**13:47:17.800**	**127KZ4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,205,858:85:0**	
1615	97	310	13:47:25.800	127KZ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,205,859:06:0	
1616	97	310	13:47:41.800	432EA6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	4,205,859:30:0	
1617	97	310	13:50:23.800	117KH11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,205,862:00:0	
1618	**97**	**310**	**13:52:43.800**	**432EB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,205,864:28:0**	
1619	**97**	**310**	**13:53:21.133**	**125LS4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**4,205,864:84:0**	
1620	97	310	13:53:21.133	125LS11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,205,864:84:0	
1621	97	310	13:53:21.133	125LS	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,205,864:84:0	
1622	**97**	**310**	**13:53:29.733**	**11JNRTBRG_01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1623	**97**	**310**	**13:53:29.733**	**11JNBRG04201-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1624	97	310	13:54:21.800	127EA	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,205,865:84:0	
1625	**97**	**310**	**13:54:21.800**	**127EA4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,205,865:84:0**	
1626	**97**	**310**	**13:54:22.466**	**127EA4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,205,865:85:0**	
1627	97	310	13:54:25.800	165EA4A	7SCAN	NORM,281.231998,	Check S/P Position	2R5	4	1	4,205,865:90:0	
1628	97	310	13:54:30.466	127EA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	4,205,866:06:0	
1629	97	310	13:55:15.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3735.04 +/-	2R5	4	1	4,205,866:73:0	
1630	97	310	13:55:15.133	175EA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,205,866:73:0	
1631	97	310	13:55:16.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3735.16 +/-	2R5	4	1	4,205,866:75:1	
1632	97	310	13:55:17.800	117EA	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,205,866:77:0	
1633	97	310	13:55:21.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3736.40 +/-	2R5	4	1	4,205,866:83:0	
1634	97	310	13:55:23.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3736.46 +/-	2R5	4	1	4,205,866:84:8	
1635	97	310	13:55:23.800	175EA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,205,866:86:0	
1636	97	310	13:55:24.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 3736.34 +/-	2R5	4	1	4,205,866:86:9	
1637	97	310	13:55:24.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3736.34 +/-	2R5	4	1	4,205,866:86:9	
1638	97	310	13:55:27.133	117EA105A106A4A	7STRP	-0.046032,0.0,0,	Slew =,0.11	2R5	4	1	4,205,867:00:0	
1639	97	310	14:02:19.133	175EA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,205,873:72:0	
1640	97	310	14:02:19.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3639.13 +/-	2R5	4	1	4,205,873:72:0	
1641	97	310	14:02:19.133	175EA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,205,873:72:0	
1642	97	310	14:02:20.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3639.07 +/-	2R5	4	1	4,205,873:73:8	
1643	97	310	14:02:30.466	117EA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,205,873:89:0	
1644	97	310	14:02:31.133	165EB4A	7SCAN	NORM,282.061996,	Check S/P Position	2R5	4	1	4,205,873:90:0	
1645	**97**	**310**	**14:02:35.733**	**11JNBRG04201-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1646	**97**	**310**	**14:02:35.733**	**11JNBRG04202-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1647	97	310	14:06:22.466	175EB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,205,877:73:0	
1648	97	310	14:06:22.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3639.07 +/-	2R5	4	1	4,205,877:73:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	97	310	14:06:23.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3639.19 +/-	2R5	4	1	4,205,877:75:1	
1650	97	310	14:06:25.133	117EB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,205,877:77:0	
1651	97	310	14:06:29.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3640.43 +/-	2R5	4	1	4,205,877:83:0	
1652	97	310	14:06:30.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3640.49 +/-	2R5	4	1	4,205,877:84:8	
1653	97	310	14:06:31.133	175EB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,205,877:86:0	
1654	97	310	14:06:31.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 3640.37 +/-	2R5	4	1	4,205,877:86:9	
1655	97	310	14:06:31.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3640.37 +/-	2R5	4	1	4,205,877:86:9	
1656	97	310	14:06:34.466	117EB105A106A4A	7STRP	-0.046534,0.0,0,	Slew =,0.11	2R5	4	1	4,205,878:00:0	
1657	**97**	**310**	**14:06:34.466**	**11JNBRG04202-**	**NIMPBK**	**301DU**	**BROWN BARGE OBSERVATION 42 DEG P**	**2R5**	**4**	**1**	**: :**	
1658	**97**	**310**	**14:13:14.466**	**11JNBRG04202-**	**DESELC**	**300DU**	**BROWN BARGE OBSERVATION 42 DEG P**	**2R5**	**4**	**1**	**: :**	
1659	97	310	14:13:26.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3543.16 +/-	2R5	4	1	4,205,884:72:0	
1660	97	310	14:13:26.466	175EB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,205,884:72:0	
1661	97	310	14:13:26.466	175EB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,205,884:72:0	
1662	97	310	14:13:27.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3543.10 +/-	2R5	4	1	4,205,884:73:8	
1663	**97**	**310**	**14:13:33.733**	**11JNBRG04202-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1664	**97**	**310**	**14:13:34.400**	**11JNRTBRG_02-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1665	**97**	**310**	**14:13:34.466**	**125KY4A**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R5**	**4**	**1**	**4,205,884:84:0**	
1666	97	310	14:13:34.466	125KY	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	4,205,884:84:0	
1667	97	310	14:13:34.466	125KY11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	4,205,884:84:0	
1668	97	310	14:13:39.133	117EB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,205,885:00:0	
1669	**97**	**310**	**14:14:35.133**	**127KY4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,205,885:84:0**	
1670	97	310	14:14:35.133	127KY	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,205,885:84:0	
1671	**97**	**310**	**14:14:35.800**	**127KY4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,205,885:85:0**	
1672	97	310	14:14:39.133	165KI4A	7SCAN	NORM,280.608997,	Check S/P Position	2R3	4	0	4,205,885:90:0	
1673	97	310	14:14:43.800	127KY11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,205,886:06:0	
1674	97	310	14:14:55.800	488DB6C	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	4,205,886:24:0	
1675	97	310	14:14:59.800	432EC6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	4,205,886:30:0	
1676	97	310	14:15:31.133	117KI	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,205,886:77:0	
1677	97	310	14:15:40.466	117KI105A106A4A	7STRP	-0.014401,0.0,0,	Slew =,0.03	2R3	4	0	4,205,887:00:0	
1678	**97**	**310**	**14:20:01.800**	**432ED6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,205,891:28:0**	
1679	97	310	14:21:39.800	125LB11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,205,892:84:0	
1680	97	310	14:21:39.800	125LB	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,205,892:84:0	
1681	**97**	**310**	**14:21:39.800**	**125LB4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**4,205,892:84:0**	
1682	97	310	14:23:45.800	117KI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,205,895:00:0	
1683	**97**	**310**	**14:23:49.733**	**11JNRTBRG_02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
1684	97	310	14:27:48.466	488DB6D	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	2R3	4	0	4,205,899:00:0	
1685	**97**	**310**	**14:29:53.733**	**11JNBRG04203-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
1686	97	310	14:30:45.800	127EC	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,205,901:84:0	
1687	**97**	**310**	**14:30:45.800**	**127EC4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,205,901:84:0**	
1688	**97**	**310**	**14:30:46.466**	**127EC4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,205,901:85:0**	
1689	97	310	14:30:49.800	165EC4A	7SCAN	NORM,283.278999,	Check S/P Position	2R5	4	1	4,205,901:90:0	
1690	97	310	14:30:54.466	127EC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	4,205,902:06:0	
1691	97	310	14:31:39.133	175EC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,205,902:73:0	
1692	97	310	14:31:39.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3543.10 +/-	2R5	4	1	4,205,902:73:0	
1693	97	310	14:31:40.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3543.22 +/-	2R5	4	1	4,205,902:75:1	
1694	97	310	14:31:41.800	117EC	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,205,902:77:0	
1695	97	310	14:31:45.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3544.46 +/-	2R5	4	1	4,205,902:83:0	
1696	97	310	14:31:47.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3544.52 +/-	2R5	4	1	4,205,902:84:8	
1697	97	310	14:31:47.800	175EC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,205,902:86:0	
1698	97	310	14:31:48.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3544.40 +/-	2R5	4	1	4,205,902:86:9	
1699	97	310	14:31:48.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 3544.40 +/-	2R5	4	1	4,205,902:86:9	
1700	97	310	14:31:51.133	117EC105A106A4A	7STRP	-0.046032,0.0,0,	Slew =,0.11	2R5	4	1	4,205,903:00:0	
1701	**97**	**310**	**14:31:51.133**	**11JNBRG04203-**	**NIMPBK**	**301DV**	**BROWN BARGE OBSERVATION 42 DEG P**	**2R5**	**4**	**1**	**: :**	
1702	**97**	**310**	**14:38:31.133**	**11JNBRG04203-**	**DESELC**	**300DV**	**BROWN BARGE OBSERVATION 42 DEG P**	**2R5**	**4**	**1**	**: :**	
1703	97	310	14:38:43.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3447.19 +/-	2R5	4	1	4,205,909:72:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	97	310	14:38:43.133	175EC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,205,909:72:0	
1705	97	310	14:38:43.133	175EC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,205,909:72:0	
1706	97	310	14:38:44.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3447.13 +/-	2R5	4	1	4,205,909:73:8	
1707	97	310	14:38:54.466	117EC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,205,909:89:0	
1708	97	310	14:38:55.133	165GC4A	7SCAN	NORM,280.839996,	Check S/P Position	2R5	4	1	4,205,909:90:0	
1709	97	310	14:38:55.800	176GC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	4,205,910:00:0	
1710	**97**	**310**	**14:38:59.733**	**11JNBRG04203-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1711	97	310	14:39:47.133	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,205,910:77:0	
1712	97	310	14:39:56.466	117GC105A106A4A	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,911:00:0	
1713	97	310	14:40:29.800	117GC105A106A4B	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,911:50:0	
1714	97	310	14:40:46.466	117GC105A106A4C	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,911:75:0	
1715	97	310	14:41:19.800	117GC105A106A4D	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,912:34:0	
1716	97	310	14:41:36.466	117GC105A106A4E	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,912:59:0	
1717	97	310	14:42:09.800	117GC105A106A4F	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,913:18:0	
1718	97	310	14:42:26.466	117GC105A106A4G	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,913:43:0	
1719	97	310	14:42:59.800	117GC105A106A4H	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,914:02:0	
1720	97	310	14:43:16.466	117GC105A106A4I	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,914:27:0	
1721	97	310	14:43:49.800	117GC105A106A4J	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,914:77:0	
1722	97	310	14:44:06.466	117GC105A106A4K	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,915:11:0	
1723	97	310	14:44:39.800	117GC105A106A4L	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,915:61:0	
1724	97	310	14:44:56.466	117GC105A106A4M	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,915:86:0	
1725	97	310	14:45:29.800	117GC105A106A4N	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,916:45:0	
1726	97	310	14:45:46.466	117GC105A106A4O	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,916:70:0	
1727	97	310	14:46:19.800	117GC105A106A4P	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,917:29:0	
1728	97	310	14:46:36.466	117GC105A106A4Q	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,917:54:0	
1729	97	310	14:47:09.800	117GC105A106A4R	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,918:13:0	
1730	97	310	14:47:26.466	117GC105A106A4S	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,918:38:0	
1731	97	310	14:47:59.800	117GC105A106A4T	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,918:88:0	
1732	97	310	14:48:16.466	117GC105A106A4U	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,919:22:0	
1733	97	310	14:48:49.800	117GC105A106A4V	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,919:72:0	
1734	97	310	14:49:06.466	117GC105A106A4W	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,920:06:0	
1735	97	310	14:49:39.800	117GC105A106A4X	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,920:56:0	
1736	97	310	14:49:56.466	117GC105A106A4Y	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,920:81:0	
1737	97	310	14:50:29.800	117GC105A106A4Z	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,921:40:0	
1738	97	310	14:50:46.466	117GC105A106A4AA	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,921:65:0	
1739	97	310	14:51:19.800	117GC105A106A4AB	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,922:24:0	
1740	97	310	14:51:36.466	117GC105A106A4AC	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,922:49:0	
1741	97	310	14:52:09.800	117GC105A106A4AD	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,923:08:0	
1742	97	310	14:52:26.466	117GC105A106A4AE	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,923:33:0	
1743	97	310	14:52:49.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3447.13 +/-	2R5	4	1	4,205,923:68:0	
1744	97	310	14:52:49.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,205,923:68:0	
1745	97	310	14:52:51.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3447.25 +/-	2R5	4	1	4,205,923:70:1	
1746	97	310	14:52:56.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3448.49 +/-	2R5	4	1	4,205,923:78:0	
1747	97	310	14:52:57.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3448.55 +/-	2R5	4	1	4,205,923:79:8	
1748	97	310	14:52:59.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3448.43 +/-	2R5	4	1	4,205,923:81:9	
1749	97	310	14:52:59.800	117GC105A106A4AF	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,923:83:0	
1750	97	310	14:53:16.466	117GC105A106A4AG	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,924:17:0	
1751	97	310	14:53:17.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3444.04 +/-	2R5	4	1	4,205,924:19:0	
1752	97	310	14:53:40.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3438.73 +/-	2R5	4	1	4,205,924:53:0	
1753	97	310	14:53:40.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,205,924:53:0	
1754	97	310	14:53:41.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3438.67 +/-	2R5	4	1	4,205,924:54:8	
1755	97	310	14:53:49.800	117GC105A106A4AH	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,924:67:0	
1756	97	310	14:54:06.466	117GC105A106A4AI	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,925:01:0	
1757	97	310	14:54:39.800	117GC105A106A4AJ	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,925:51:0	
1758	97	310	14:54:56.466	117GC105A106A4AK	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,925:76:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	97	310	14:55:29.800	117GC105A106A4AL	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,926	35:0
1760	97	310	14:55:46.466	117GC105A106A4AM	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,926	60:0
1761	97	310	14:56:19.800	117GC105A106A4AN	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,927	19:0
1762	97	310	14:56:36.466	117GC105A106A4AO	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,927	44:0
1763	97	310	14:57:09.800	117GC105A106A4AP	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,928	03:0
1764	97	310	14:57:26.466	117GC105A106A4AQ	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,928	28:0
1765	97	310	14:57:59.800	117GC105A106A4AR	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,928	78:0
1766	97	310	14:58:16.466	117GC105A106A4AS	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,929	12:0
1767	97	310	14:58:49.800	117GC105A106A4AT	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,929	62:0
1768	97	310	14:59:06.466	117GC105A106A4AU	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,929	87:0
1769	97	310	14:59:39.800	117GC105A106A4AV	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,930	46:0
1770	97	310	14:59:56.466	117GC105A106A4AW	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,930	71:0
1771	97	310	15:00:29.800	117GC105A106A4AX	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,931	30:0
1772	97	310	15:00:46.466	117GC105A106A4AY	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,931	55:0
1773	97	310	15:01:19.800	117GC105A106A4AZ	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,932	14:0
1774	97	310	15:01:36.466	117GC105A106A4BA	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,932	39:0
1775	97	310	15:02:09.800	117GC105A106A4BB	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,932	89:0
1776	97	310	15:02:26.466	117GC105A106A4BC	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,933	23:0
1777	97	310	15:02:59.800	117GC105A106A4BD	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,933	73:0
1778	97	310	15:03:16.466	117GC105A106A4BE	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,934	07:0
1779	97	310	15:03:49.800	117GC105A106A4BF	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,934	57:0
1780	97	310	15:04:06.466	117GC105A106A4BG	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,934	82:0
1781	97	310	15:04:39.800	117GC105A106A4BH	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,935	41:0
1782	97	310	15:04:56.466	117GC105A106A4BI	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,935	66:0
1783	97	310	15:05:29.800	117GC105A106A4BJ	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,936	25:0
1784	97	310	15:05:46.466	117GC105A106A4BK	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,936	50:0
1785	97	310	15:06:19.800	117GC105A106A4BL	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,937	09:0
1786	97	310	15:06:36.466	117GC105A106A4BM	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,937	34:0
1787	97	310	15:07:09.800	117GC105A106A4BN	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,937	84:0
1788	97	310	15:07:13.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3438.67 +/-	2R5	4	1	4,205,937	90:0
1789	97	310	15:07:13.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,205,937	90:0
1790	97	310	15:07:15.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3438.79 +/-	2R5	4	1	4,205,938	01:1
1791	97	310	15:07:20.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3440.02 +/-	2R5	4	1	4,205,938	09:0
1792	97	310	15:07:21.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3440.08 +/-	2R5	4	1	4,205,938	10:8
1793	97	310	15:07:23.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3439.96 +/-	2R5	4	1	4,205,938	12:9
1794	97	310	15:07:26.466	117GC105A106A4BO	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,938	18:0
1795	97	310	15:07:41.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3435.57 +/-	2R5	4	1	4,205,938	41:0
1796	97	310	15:07:59.800	117GC105A106A4BP	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,938	68:0
1797	97	310	15:08:04.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,205,938	75:0
1798	97	310	15:08:04.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3430.26 +/-	2R5	4	1	4,205,938	75:0
1799	97	310	15:08:05.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3430.20 +/-	2R5	4	1	4,205,938	76:8
1800	97	310	15:08:16.466	117GC105A106A4BQ	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,939	02:0
1801	97	310	15:08:49.800	117GC105A106A4BR	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,939	52:0
1802	97	310	15:09:06.466	117GC105A106A4BS	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,939	77:0
1803	97	310	15:09:39.800	117GC105A106A4BT	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,940	36:0
1804	97	310	15:09:56.466	117GC105A106A4BU	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,940	61:0
1805	97	310	15:10:29.800	117GC105A106A4BV	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,941	20:0
1806	97	310	15:10:46.466	117GC105A106A4BW	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,941	45:0
1807	97	310	15:11:19.800	117GC105A106A4BX	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,942	04:0
1808	97	310	15:11:36.466	117GC105A106A4BY	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,942	29:0
1809	97	310	15:12:09.800	117GC105A106A4BZ	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,942	79:0
1810	97	310	15:12:26.466	117GC105A106A4CA	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,943	13:0
1811	97	310	15:12:59.800	117GC105A106A4CB	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,943	63:0
1812	97	310	15:13:16.466	117GC105A106A4CC	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,943	88:0
1813	97	310	15:13:49.800	117GC105A106A4CD	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,944	47:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1814	97	310	15:14:06.466	117GC105A106A4CE	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,944:72:0	
1815	97	310	15:14:39.800	117GC105A106A4CF	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,945:31:0	
1816	97	310	15:14:56.466	117GC105A106A4CG	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,945:56:0	
1817	97	310	15:15:29.800	117GC105A106A4CH	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,946:15:0	
1818	97	310	15:15:46.466	117GC105A106A4CI	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,946:40:0	
1819	97	310	15:16:19.800	117GC105A106A4CJ	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,946:90:0	
1820	97	310	15:16:36.466	117GC105A106A4CK	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,947:24:0	
1821	97	310	15:17:09.800	117GC105A106A4CL	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,947:74:0	
1822	97	310	15:17:26.466	117GC105A106A4CM	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,948:08:0	
1823	97	310	15:17:59.800	117GC105A106A4CN	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,948:58:0	
1824	97	310	15:18:16.466	117GC105A106A4CO	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,948:83:0	
1825	97	310	15:18:49.800	117GC105A106A4CP	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,949:42:0	
1826	97	310	15:19:06.466	117GC105A106A4CQ	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,949:67:0	
1827	97	310	15:19:39.800	117GC105A106A4CR	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,950:26:0	
1828	97	310	15:19:56.466	117GC105A106A4CS	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,950:51:0	
1829	97	310	15:20:29.800	117GC105A106A4CT	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,951:10:0	
1830	97	310	15:20:46.466	117GC105A106A4CU	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,951:35:0	
1831	97	310	15:21:19.800	117GC105A106A4CV	7STRP	0.0015,0.00464,0	Slew =17.01	2R5	4	1	4,205,951:85:0	
1832	97	310	15:21:36.466	117GC105A106A4CW	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,952:19:0	
1833	97	310	15:21:38.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3430.20 +/-	2R5	4	1	4,205,952:22:0	
1834	97	310	15:21:38.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,205,952:22:0	
1835	97	310	15:21:39.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3430.32 +/-	2R5	4	1	4,205,952:24:1	
1836	97	310	15:21:45.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3431.55 +/-	2R5	4	1	4,205,952:32:0	
1837	97	310	15:21:46.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3431.61 +/-	2R5	4	1	4,205,952:33:8	
1838	97	310	15:21:47.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3431.49 +/-	2R5	4	1	4,205,952:35:9	
1839	97	310	15:22:06.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3427.10 +/-	2R5	4	1	4,205,952:64:0	
1840	97	310	15:22:09.800	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,205,952:69:0	
1841	97	310	15:22:29.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,205,953:07:0	
1842	97	310	15:22:29.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3421.79 +/-	2R5	4	1	4,205,953:07:0	
1843	97	310	15:22:30.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3421.73 +/-	2R5	4	1	4,205,953:08:8	
1844	97	310	15:22:33.133	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,205,953:13:0	
1845	97	310	15:22:35.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3421.73 +/-	2R5	4	1	4,205,953:16:0	
1846	97	310	15:22:35.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,205,953:16:0	
1847	97	310	15:22:36.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3421.85 +/-	2R5	4	1	4,205,953:18:1	
1848	97	310	15:22:41.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3423.08 +/-	2R5	4	1	4,205,953:26:0	
1849	97	310	15:22:43.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3423.14 +/-	2R5	4	1	4,205,953:27:8	
1850	97	310	15:22:44.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3423.02 +/-	2R5	4	1	4,205,953:29:9	
1851	97	310	15:22:45.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3422.85 +/-	2R5	4	1	4,205,953:31:0	
1852	97	310	15:22:55.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3420.51 +/-	2R5	4	1	4,205,953:46:0	
1853	97	310	15:22:55.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,205,953:46:0	
1854	97	310	15:22:56.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3420.45 +/-	2R5	4	1	4,205,953:47:8	
1855	**97**	**310**	**15:24:29.733**	**11JNBRG04204-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
1856	97	310	15:25:25.800	165ED4A	7SCAN	NORM,284.371998,	Check S/P Position	2R5	4	1	4,205,955:90:0	
1857	97	310	15:26:15.133	175ED422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,205,956:73:0	
1858	97	310	15:26:15.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3420.45 +/-	2R5	4	1	4,205,956:73:0	
1859	97	310	15:26:16.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3420.57 +/-	2R5	4	1	4,205,956:75:1	
1860	97	310	15:26:17.800	117ED	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,205,956:77:0	
1861	97	310	15:26:21.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3421.80 +/-	2R5	4	1	4,205,956:83:0	
1862	97	310	15:26:23.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3421.86 +/-	2R5	4	1	4,205,956:84:8	
1863	97	310	15:26:23.800	175ED176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,205,956:86:0	
1864	97	310	15:26:24.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 3421.74 +/-	2R5	4	1	4,205,956:86:9	
1865	97	310	15:26:24.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3421.74 +/-	2R5	4	1	4,205,956:86:9	
1866	**97**	**310**	**15:26:27.133**	**11JNBRG04204-**	**NIMPBK**	**301DW**	**BROWN BARGE OBSERVATION 42 DEG P**	**2R5**	**4**	**1**	**: :**	
1867	97	310	15:26:27.133	117ED105A106A4A	7STRP	-0.046032,0.0,0,	Slew =,0.11	2R5	4	1	4,205,957:00:0	
1868	97	310	15:31:27.133	488DB6E	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R5	4	1	4,205,961:86:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	**97**	**310**	**15:33:07.133**	**11JNBRG04204-**	**DESELC**	**300DW**	**BROWN BARGE OBSERVATION 42 DEG P**	**2R5**	**4**	**1**	**: :**	
1870	97	310	15:33:19.133	175ED6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,205,963:72:0	
1871	97	310	15:33:19.133	175ED422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,205,963:72:0	
1872	97	310	15:33:19.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3324.54 +/-	2R5	4	1	4,205,963:72:0	
1873	97	310	15:33:20.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3324.48 +/-	2R5	4	1	4,205,963:73:8	
1874	97	310	15:33:30.466	117ED11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,205,963:89:0	
1875	97	310	15:33:31.133	165GK4A	7SCAN	NORM,285.782997,	Check S/P Position	2R5	4	1	4,205,963:90:0	
1876	97	310	15:33:31.800	176GK6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	4,205,964:00:0	
1877	**97**	**310**	**15:33:35.733**	**11JNBRG04204-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
1878	97	310	15:34:23.066	117GK	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,205,964:77:0	
1879	97	310	15:34:32.400	117GK105A106A4A	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,965:00:0	
1880	97	310	15:35:05.733	117GK105A106A4B	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,965:50:0	
1881	97	310	15:35:22.400	117GK105A106A4C	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,965:75:0	
1882	97	310	15:35:55.733	117GK105A106A4D	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,966:34:0	
1883	97	310	15:36:12.400	117GK105A106A4E	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,966:59:0	
1884	97	310	15:36:45.733	117GK105A106A4F	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,967:18:0	
1885	97	310	15:37:02.400	117GK105A106A4G	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,967:43:0	
1886	97	310	15:37:35.733	117GK105A106A4H	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,968:02:0	
1887	97	310	15:37:52.400	117GK105A106A4I	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,968:27:0	
1888	97	310	15:38:25.733	117GK105A106A4J	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,968:77:0	
1889	97	310	15:38:42.400	117GK105A106A4K	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,969:11:0	
1890	97	310	15:39:15.733	117GK105A106A4L	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,969:61:0	
1891	97	310	15:39:32.400	117GK105A106A4M	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,969:86:0	
1892	97	310	15:40:05.733	117GK105A106A4N	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,970:45:0	
1893	97	310	15:40:22.400	117GK105A106A4O	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,970:70:0	
1894	97	310	15:40:55.733	117GK105A106A4P	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,971:29:0	
1895	97	310	15:41:12.400	117GK105A106A4Q	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,971:54:0	
1896	97	310	15:41:45.733	117GK105A106A4R	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,972:13:0	
1897	97	310	15:42:02.400	117GK105A106A4S	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,972:38:0	
1898	97	310	15:42:35.733	117GK105A106A4T	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,972:88:0	
1899	97	310	15:42:52.400	117GK105A106A4U	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,973:22:0	
1900	97	310	15:43:25.733	117GK105A106A4V	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,973:72:0	
1901	97	310	15:43:42.400	117GK105A106A4W	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,974:06:0	
1902	97	310	15:44:15.733	117GK105A106A4X	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,974:56:0	
1903	97	310	15:44:32.400	117GK105A106A4Y	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,974:81:0	
1904	97	310	15:45:05.733	117GK105A106A4Z	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,975:40:0	
1905	97	310	15:45:22.400	117GK105A106A4AA	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,975:65:0	
1906	97	310	15:45:55.733	117GK105A106A4AB	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,976:24:0	
1907	97	310	15:46:12.400	117GK105A106A4AC	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,976:49:0	
1908	97	310	15:46:45.733	117GK105A106A4AD	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,977:08:0	
1909	97	310	15:47:02.400	117GK105A106A4AE	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,977:33:0	
1910	97	310	15:47:25.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,205,977:68:0	
1911	97	310	15:47:25.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3324.48 +/-	2R5	4	1	4,205,977:68:0	
1912	97	310	15:47:27.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3324.60 +/-	2R5	4	1	4,205,977:70:1	
1913	97	310	15:47:32.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3325.83 +/-	2R5	4	1	4,205,977:78:0	
1914	97	310	15:47:33.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3325.89 +/-	2R5	4	1	4,205,977:79:8	
1915	97	310	15:47:35.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3325.77 +/-	2R5	4	1	4,205,977:81:9	
1916	97	310	15:47:35.733	117GK105A106A4AF	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,977:83:0	
1917	97	310	15:47:52.400	117GK105A106A4AG	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,978:17:0	
1918	97	310	15:47:53.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3321.38 +/-	2R5	4	1	4,205,978:19:0	
1919	97	310	15:48:16.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3316.07 +/-	2R5	4	1	4,205,978:53:0	
1920	97	310	15:48:16.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,205,978:53:0	
1921	97	310	15:48:17.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3316.01 +/-	2R5	4	1	4,205,978:54:8	
1922	97	310	15:48:25.733	117GK105A106A4AH	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,978:67:0	
1923	97	310	15:48:42.400	117GK105A106A4AI	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,979:01:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1924	97	310	15:49:15.733	117GK105A106A4AJ	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,979	51:0
1925	97	310	15:49:32.400	117GK105A106A4AK	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,979	76:0
1926	97	310	15:50:05.733	117GK105A106A4AL	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,980	35:0
1927	97	310	15:50:22.400	117GK105A106A4AM	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,980	60:0
1928	97	310	15:50:55.733	117GK105A106A4AN	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,981	19:0
1929	97	310	15:51:12.400	117GK105A106A4AO	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,981	44:0
1930	97	310	15:51:45.733	117GK105A106A4AP	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,982	03:0
1931	97	310	15:52:02.400	117GK105A106A4AQ	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,982	28:0
1932	97	310	15:52:35.733	117GK105A106A4AR	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,982	78:0
1933	97	310	15:52:52.400	117GK105A106A4AS	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,983	12:0
1934	97	310	15:53:25.733	117GK105A106A4AT	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,983	62:0
1935	97	310	15:53:42.400	117GK105A106A4AU	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,983	87:0
1936	97	310	15:54:15.733	117GK105A106A4AV	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,984	46:0
1937	97	310	15:54:32.400	117GK105A106A4AW	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,984	71:0
1938	97	310	15:55:05.733	117GK105A106A4AX	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,985	30:0
1939	97	310	15:55:22.400	117GK105A106A4AY	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,985	55:0
1940	97	310	15:55:55.733	117GK105A106A4AZ	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,986	14:0
1941	97	310	15:56:12.400	117GK105A106A4BA	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,986	39:0
1942	97	310	15:56:45.733	117GK105A106A4BB	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,986	89:0
1943	97	310	15:57:02.400	117GK105A106A4BC	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,987	23:0
1944	97	310	15:57:35.733	117GK105A106A4BD	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,987	73:0
1945	97	310	15:57:52.400	117GK105A106A4BE	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,988	07:0
1946	97	310	15:58:25.733	117GK105A106A4BF	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,988	57:0
1947	97	310	15:58:42.400	117GK105A106A4BG	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,988	82:0
1948	97	310	15:59:15.733	117GK105A106A4BH	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,989	41:0
1949	97	310	15:59:32.400	117GK105A106A4BI	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,989	66:0
1950	97	310	16:00:05.733	117GK105A106A4BJ	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,990	25:0
1951	97	310	16:00:22.400	117GK105A106A4BK	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,990	50:0
1952	97	310	16:00:55.733	117GK105A106A4BL	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,991	09:0
1953	97	310	16:01:12.400	117GK105A106A4BM	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,991	34:0
1954	97	310	16:01:45.733	117GK105A106A4BN	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,991	84:0
1955	97	310	16:01:49.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3316.01 +/-	2R5	4	1	4,205,991	90:0
1956	97	310	16:01:49.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,205,991	90:0
1957	97	310	16:01:51.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3316.13 +/-	2R5	4	1	4,205,992	01:1
1958	97	310	16:01:56.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3317.36 +/-	2R5	4	1	4,205,992	09:0
1959	97	310	16:01:57.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3317.42 +/-	2R5	4	1	4,205,992	10:8
1960	97	310	16:01:59.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3317.30 +/-	2R5	4	1	4,205,992	12:9
1961	97	310	16:02:02.400	117GK105A106A4BO	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,992	18:0
1962	97	310	16:02:17.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3312.91 +/-	2R5	4	1	4,205,992	41:0
1963	97	310	16:02:35.733	117GK105A106A4BP	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,992	68:0
1964	97	310	16:02:40.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3307.60 +/-	2R5	4	1	4,205,992	75:0
1965	97	310	16:02:40.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,205,992	75:0
1966	97	310	16:02:41.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3307.54 +/-	2R5	4	1	4,205,992	76:8
1967	97	310	16:02:52.400	117GK105A106A4BQ	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,993	02:0
1968	97	310	16:03:25.733	117GK105A106A4BR	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,993	52:0
1969	97	310	16:03:42.400	117GK105A106A4BS	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,993	77:0
1970	97	310	16:04:15.733	117GK105A106A4BT	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,994	36:0
1971	97	310	16:04:32.400	117GK105A106A4BU	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,994	61:0
1972	97	310	16:05:05.733	117GK105A106A4BV	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,995	20:0
1973	97	310	16:05:22.400	117GK105A106A4BW	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,995	45:0
1974	97	310	16:05:55.733	117GK105A106A4BX	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,996	04:0
1975	97	310	16:06:12.400	117GK105A106A4BY	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,996	29:0
1976	97	310	16:06:45.733	117GK105A106A4BZ	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,996	79:0
1977	97	310	16:07:02.400	117GK105A106A4CA	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,997	13:0
1978	97	310	16:07:35.733	117GK105A106A4CB	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,997	63:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1979	97	310	16:07:52.400	117GK105A106A4CC	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,997	88:0
1980	97	310	16:08:25.733	117GK105A106A4CD	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,998	47:0
1981	97	310	16:08:42.400	117GK105A106A4CE	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,998	72:0
1982	97	310	16:09:15.733	117GK105A106A4CF	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,205,999	31:0
1983	97	310	16:09:32.400	117GK105A106A4CG	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,205,999	56:0
1984	97	310	16:10:05.733	117GK105A106A4CH	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,000	15:0
1985	97	310	16:10:22.400	117GK105A106A4CI	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,000	40:0
1986	97	310	16:10:55.733	117GK105A106A4CJ	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,000	90:0
1987	97	310	16:11:12.400	117GK105A106A4CK	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,001	24:0
1988	97	310	16:11:45.733	117GK105A106A4CL	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,001	74:0
1989	97	310	16:12:02.400	117GK105A106A4CM	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,002	08:0
1990	97	310	16:12:35.733	117GK105A106A4CN	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,002	58:0
1991	97	310	16:12:52.400	117GK105A106A4CO	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,002	83:0
1992	97	310	16:13:25.733	117GK105A106A4CP	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,003	42:0
1993	97	310	16:13:42.400	117GK105A106A4CQ	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,003	67:0
1994	97	310	16:14:15.733	117GK105A106A4CR	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,004	26:0
1995	97	310	16:14:32.400	117GK105A106A4CS	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,004	51:0
1996	97	310	16:15:05.733	117GK105A106A4CT	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,005	10:0
1997	97	310	16:15:22.400	117GK105A106A4CU	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,005	35:0
1998	97	310	16:15:55.733	117GK105A106A4CV	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,005	85:0
1999	97	310	16:16:12.400	117GK105A106A4CW	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,006	19:0
2000	97	310	16:16:14.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,006	22:0
2001	97	310	16:16:14.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3307.54 +/-	2R5	4	1	4,206,006	22:0
2002	97	310	16:16:15.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3307.66 +/-	2R5	4	1	4,206,006	24:1
2003	97	310	16:16:21.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3308.90 +/-	2R5	4	1	4,206,006	32:0
2004	97	310	16:16:22.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3308.96 +/-	2R5	4	1	4,206,006	33:8
2005	97	310	16:16:23.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3308.84 +/-	2R5	4	1	4,206,006	35:9
2006	97	310	16:16:42.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3304.44 +/-	2R5	4	1	4,206,006	64:0
2007	97	310	16:16:45.733	117GK105A106A4CX	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,006	69:0
2008	97	310	16:17:02.400	117GK105A106A4CY	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,007	03:0
2009	97	310	16:17:05.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3299.13 +/-	2R5	4	1	4,206,007	07:0
2010	97	310	16:17:05.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,007	07:0
2011	97	310	16:17:06.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3299.07 +/-	2R5	4	1	4,206,007	08:8
2012	97	310	16:17:35.733	117GK105A106A4CZ	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,007	53:0
2013	97	310	16:17:52.400	117GK105A106A4DA	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,007	78:0
2014	97	310	16:18:25.733	117GK105A106A4DB	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,008	37:0
2015	97	310	16:18:42.400	117GK105A106A4DC	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,008	62:0
2016	97	310	16:19:15.733	117GK105A106A4DD	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,009	21:0
2017	97	310	16:19:32.400	117GK105A106A4DE	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,009	46:0
2018	97	310	16:20:05.733	117GK105A106A4DF	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,010	05:0
2019	97	310	16:20:22.400	117GK105A106A4DG	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,010	30:0
2020	97	310	16:20:55.733	117GK105A106A4DH	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,010	80:0
2021	97	310	16:21:12.400	117GK105A106A4DI	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,011	14:0
2022	97	310	16:21:45.733	117GK105A106A4DJ	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,011	64:0
2023	97	310	16:22:02.400	117GK105A106A4DK	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,011	89:0
2024	97	310	16:22:35.733	117GK105A106A4DL	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,012	48:0
2025	97	310	16:22:52.400	117GK105A106A4DM	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,012	73:0
2026	97	310	16:23:25.733	117GK105A106A4DN	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,013	32:0
2027	97	310	16:23:42.400	117GK105A106A4DO	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,013	57:0
2028	97	310	16:24:15.733	117GK105A106A4DP	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,014	16:0
2029	97	310	16:24:32.400	117GK105A106A4DQ	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,014	41:0
2030	97	310	16:25:05.733	117GK105A106A4DR	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,015	00:0
2031	97	310	16:25:22.400	117GK105A106A4DS	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,015	25:0
2032	97	310	16:25:55.733	117GK105A106A4DT	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,015	75:0
2033	97	310	16:26:12.400	117GK105A106A4DU	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,016	09:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2034	97	310	16:26:45.733	117GK105A106A4DV	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,016:59:0	
2035	97	310	16:27:02.400	117GK105A106A4DW	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,016:84:0	
2036	97	310	16:27:35.733	117GK105A106A4DX	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,017:43:0	
2037	97	310	16:27:52.400	117GK105A106A4DY	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,017:68:0	
2038	97	310	16:28:25.733	117GK105A106A4DZ	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,018:27:0	
2039	97	310	16:28:42.400	117GK105A106A4EA	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,018:52:0	
2040	97	310	16:29:15.733	117GK105A106A4EB	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,019:11:0	
2041	97	310	16:29:32.400	117GK105A106A4EC	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,019:36:0	
2042	97	310	16:30:05.733	117GK105A106A4ED	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,019:86:0	
2043	97	310	16:30:22.400	117GK105A106A4EE	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,020:20:0	
2044	97	310	16:30:39.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,020:45:0	
2045	97	310	16:30:39.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3299.07 +/-	2R5	4	1	4,206,020:45:0	
2046	97	310	16:30:40.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3299.19 +/-	2R5	4	1	4,206,020:47:1	
2047	97	310	16:30:45.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3300.43 +/-	2R5	4	1	4,206,020:55:0	
2048	97	310	16:30:46.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3300.49 +/-	2R5	4	1	4,206,020:56:8	
2049	97	310	16:30:48.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3300.37 +/-	2R5	4	1	4,206,020:58:9	
2050	97	310	16:30:55.733	117GK105A106A4EF	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,020:70:0	
2051	97	310	16:31:07.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3295.98 +/-	2R5	4	1	4,206,020:87:0	
2052	97	310	16:31:12.400	117GK105A106A4EG	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,021:04:0	
2053	97	310	16:31:29.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,021:30:0	
2054	97	310	16:31:29.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3290.66 +/-	2R5	4	1	4,206,021:30:0	
2055	97	310	16:31:30.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3290.60 +/-	2R5	4	1	4,206,021:31:8	
2056	97	310	16:31:45.733	117GK105A106A4EH	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,021:54:0	
2057	97	310	16:32:02.400	117GK105A106A4EI	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,021:79:0	
2058	97	310	16:32:35.733	117GK105A106A4EJ	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,022:38:0	
2059	97	310	16:32:52.400	117GK105A106A4EK	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,022:63:0	
2060	97	310	16:33:25.733	117GK105A106A4EL	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,023:22:0	
2061	97	310	16:33:42.400	117GK105A106A4EM	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,023:47:0	
2062	97	310	16:34:15.733	117GK105A106A4EN	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,024:06:0	
2063	97	310	16:34:32.400	117GK105A106A4EO	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,024:31:0	
2064	97	310	16:35:05.733	117GK105A106A4EP	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,024:81:0	
2065	97	310	16:35:22.400	117GK105A106A4EQ	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,025:15:0	
2066	97	310	16:35:55.733	117GK105A106A4ER	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,025:65:0	
2067	97	310	16:36:12.400	117GK105A106A4ES	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,025:90:0	
2068	97	310	16:36:45.733	117GK105A106A4ET	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,026:49:0	
2069	97	310	16:37:02.400	117GK105A106A4EU	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,026:74:0	
2070	97	310	16:37:35.733	117GK105A106A4EV	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,027:33:0	
2071	97	310	16:37:52.400	117GK105A106A4EW	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,027:58:0	
2072	97	310	16:38:25.733	117GK105A106A4EX	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,028:17:0	
2073	97	310	16:38:42.400	117GK105A106A4EY	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,028:42:0	
2074	97	310	16:39:15.733	117GK105A106A4EZ	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,029:01:0	
2075	97	310	16:39:32.400	117GK105A106A4FA	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,029:26:0	
2076	97	310	16:40:05.733	117GK105A106A4FB	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,029:76:0	
2077	97	310	16:40:22.400	117GK105A106A4FC	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,030:10:0	
2078	97	310	16:40:55.733	117GK105A106A4FD	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,030:60:0	
2079	97	310	16:41:12.400	117GK105A106A4FE	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,030:85:0	
2080	**97**	**310**	**16:41:20.400**	**11NNLDTEST01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2081	97	310	16:41:45.733	117GK105A106A4FF	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,031:44:0	
2082	97	310	16:42:02.400	117GK105A106A4FG	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R5	4	1	4,206,031:69:0	
2083	**97**	**310**	**16:42:21.066**	**20EY5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R5**	**4**	**1**	**4,206,032:06:0**	
2084	**97**	**310**	**16:42:22.400**	**20EY5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R5**	**4**	**1**	**4,206,032:08:0**	
2085	**97**	**310**	**16:42:23.733**	**20EY6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R5**	**4**	**1**	**4,206,032:10:0**	
2086	**97**	**310**	**16:42:33.733**	**20EY6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R5**	**4**	**1**	**4,206,032:25:0**	
2087	97	310	16:42:35.733	117GK105A106A4FH	7STRP	0.0015,0.00468,0	Slew =17.01	2R5	4	1	4,206,032:28:0	
2088	**97**	**310**	**16:42:43.733**	**20EY5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,206,032:40:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2089	97	310	16:42:52.400	117GK105A106A4FI	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	260	4	0	4,206,032:53:0	
2090	**97**	**310**	**16:43:03.733**	**20EY5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,206,032:70:0**	
2091	97	310	16:43:25.733	117GK105A106A4FJ	7STRP	0.0015,0.00468,0	Slew =17.01	260	4	0	4,206,033:12:0	
2092	**97**	**310**	**16:43:26.400**	**20EY4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,206,033:13:0**	
2093	97	310	16:43:42.400	117GK105A106A4FK	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R0	4	0	4,206,033:37:0	
2094	97	310	16:44:15.733	117GK105A106A4FL	7STRP	0.0015,0.00468,0	Slew =17.01	2R0	4	0	4,206,033:87:0	
2095	**97**	**310**	**16:44:27.066**	**20EY4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,206,034:13:0**	
2096	97	310	16:44:32.400	117GK105A106A4FM	7STRP	0.0,-0.0045,0,0,	Slew =,0.41	2R3	4	0	4,206,034:21:0	
2097	97	310	16:45:03.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,206,034:68:0	
2098	97	310	16:45:03.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3290.60 +/-	2R3	4	0	4,206,034:68:0	
2099	97	310	16:45:05.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3290.72 +/-	2R3	4	0	4,206,034:70:1	
2100	97	310	16:45:05.733	117GK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,206,034:71:0	
2101	97	310	16:45:10.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3291.96 +/-	2R3	4	0	4,206,034:78:0	
2102	97	310	16:45:11.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3292.02 +/-	2R3	4	0	4,206,034:79:8	
2103	97	310	16:45:13.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3291.90 +/-	2R3	4	0	4,206,034:81:9	
2104	**97**	**310**	**16:45:23.066**	**11NNLDTEST01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2105	97	310	16:45:31.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3287.51 +/-	2R3	4	0	4,206,035:19:0	
2106	97	310	16:45:54.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,035:53:0	
2107	97	310	16:45:54.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3282.19 +/-	2R3	4	0	4,206,035:53:0	
2108	97	310	16:45:55.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3282.13 +/-	2R3	4	0	4,206,035:54:8	
2109	97	310	16:46:06.400	176GK6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,206,035:71:0	
2110	97	310	16:46:08.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3282.13 +/-	2R3	4	0	4,206,035:74:0	
2111	97	310	16:46:08.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,206,035:74:0	
2112	97	310	16:46:09.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3282.25 +/-	2R3	4	0	4,206,035:76:1	
2113	97	310	16:46:15.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3283.49 +/-	2R3	4	0	4,206,035:84:0	
2114	97	310	16:46:16.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3283.55 +/-	2R3	4	0	4,206,035:85:8	
2115	97	310	16:46:17.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3283.43 +/-	2R3	4	0	4,206,035:87:9	
2116	97	310	16:46:18.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3283.26 +/-	2R3	4	0	4,206,035:89:0	
2117	**97**	**310**	**16:46:23.733**	**11JNBRG04205-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2118	97	310	16:46:28.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3280.91 +/-	2R3	4	0	4,206,036:13:0	
2119	97	310	16:46:28.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,036:13:0	
2120	97	310	16:46:29.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3280.85 +/-	2R3	4	0	4,206,036:14:8	
2121	**97**	**310**	**16:47:15.066**	**11NNIMSDAC01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2122	**97**	**310**	**16:47:15.733**	**127EE4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,206,036:84:0**	
2123	**97**	**310**	**16:47:16.400**	**127EE4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,206,036:85:0**	
2124	97	310	16:47:19.733	165EE4A	7SCAN	NORM,288.125,-22	Check S/P Position	2R5	4	1	4,206,036:90:0	
2125	**97**	**310**	**16:47:19.733**	**11NNIMSDAC01-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2126	97	310	16:48:09.066	175EE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,037:73:0	
2127	97	310	16:48:09.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3280.85 +/-	2R5	4	1	4,206,037:73:0	
2128	97	310	16:48:10.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3280.97 +/-	2R5	4	1	4,206,037:75:1	
2129	97	310	16:48:11.733	117EE	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,206,037:77:0	
2130	97	310	16:48:15.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3282.21 +/-	2R5	4	1	4,206,037:83:0	
2131	97	310	16:48:16.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3282.27 +/-	2R5	4	1	4,206,037:84:8	
2132	97	310	16:48:17.733	175EE176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,206,037:86:0	
2133	97	310	16:48:18.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3282.15 +/-	2R5	4	1	4,206,037:86:9	
2134	97	310	16:48:18.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 3282.15 +/-	2R5	4	1	4,206,037:86:9	
2135	97	310	16:48:21.066	117EE105A106A4A	7STRP	-0.046534,0.0,0,	Slew =,0.11	2R5	4	1	4,206,038:00:0	
2136	**97**	**310**	**16:48:21.733**	**11JNBRG04205-**	**NIMPBK**	**301DX**	**BROWN BARGE OBSERVATION 42 DEG P**	**2R5**	**4**	**1**	**: :**	
2137	**97**	**310**	**16:55:01.733**	**11JNBRG04205-**	**DESELC**	**300DX**	**BROWN BARGE OBSERVATION 42 DEG P**	**2R5**	**4**	**1**	**: :**	
2138	97	310	16:55:13.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3184.94 +/-	2R5	4	1	4,206,044:72:0	
2139	97	310	16:55:13.066	175EE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,044:72:0	
2140	97	310	16:55:13.066	175EE6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,206,044:72:0	
2141	97	310	16:55:14.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3184.88 +/-	2R5	4	1	4,206,044:73:8	
2142	97	310	16:55:25.733	117EE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,206,045:00:0	
2143	**97**	**310**	**16:55:29.733**	**11JNBRG04205-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2144	97	310	16:57:26.400	165CL4A	7SCAN	NORM,258.848999,	Check S/P Position	2R5	4	1	4,206,046:90:0	
2145	97	310	16:59:28.400	411JA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,049:00:0	
2146	97	310	16:59:28.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3184.88 +/-	2R5	4	1	4,206,049:00:0	
2147	97	310	16:59:29.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3185.00 +/-	2R5	4	1	4,206,049:02:1	
2148	97	310	16:59:35.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3186.24 +/-	2R5	4	1	4,206,049:10:0	
2149	97	310	16:59:36.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3186.30 +/-	2R5	4	1	4,206,049:11:8	
2150	97	310	16:59:37.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 3186.18 +/-	2R5	4	1	4,206,049:13:9	
2151	97	310	16:59:37.666		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3186.18 +/-	2R5	4	1	4,206,049:13:9	
2152	97	310	16:59:38.400	411JA6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	4,206,049:15:0	
2153	97	310	17:01:28.400	165CL4B	7VECT		Inert vect update UTC	2R5	4	1	4,206,050:89:0	
2154	97	310	17:01:39.733	411JA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,206,051:15:0	
2155	97	310	17:01:42.400	175TD176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R5	4	1	4,206,051:19:0	
2156	97	310	17:01:43.066	175TD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,051:20:0	
2157	97	310	17:01:49.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3155.23 +/-	2R5	4	1	4,206,051:30:0	
2158	97	310	17:01:49.733	175TD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,051:30:0	
2159	97	310	17:01:50.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3155.17 +/-	2R5	4	1	4,206,051:31:8	
2160	97	310	17:04:31.733	116CP4A	7STRP	-0.005,0.0,0,0,0	Slew =17.01	2R5	4	1	4,206,054:00:0	
2161	97	310	17:08:34.400	116CQ4A	7STRP	-0.005,0.0,0,0,0	Slew =17.01	2R5	4	1	4,206,058:00:0	
2162	97	310	17:12:37.066	116CR4A	7STRP	0.01,-0.008,0,0,	Slew =17.01	2R5	4	1	4,206,062:00:0	
2163	97	310	17:16:39.733	116CS4A	7STRP	0.005,-0.009,0,0	Slew =17.01	2R5	4	1	4,206,066:00:0	
2164	97	310	17:20:42.400	116CT4A	7STRP	-0.027007,0.0,0,	Slew =17.01	2R5	4	1	4,206,070:00:0	
2165	97	310	17:24:45.066	116CV4A	7STRP	0.026006,-0.0140	Slew =,1.01	2R5	4	1	4,206,074:00:0	
2166	97	310	17:28:47.733	116CW4A	7STRP	-0.023004,0.0,0,	Slew =17.01	2R5	4	1	4,206,078:00:0	
2167	97	310	17:32:50.400	116CU4A	7STRP	0.018002,-0.008,	Slew =17.01	2R5	4	1	4,206,082:00:0	
2168	97	310	17:36:53.066	116CX4A	7STRP	-0.009,0.0,0,0,0	Slew =17.01	2R5	4	1	4,206,086:00:0	
2169	97	310	17:50:01.066	165GD4A	7SCAN	NORM,261.030998,	Check S/P Position	2R5	4	1	4,206,098:90:0	
2170	97	310	17:50:01.733	176GD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	4,206,099:00:0	
2171	97	310	17:53:55.066	117GD	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,206,102:77:0	
2172	97	310	17:54:03.066	165GD4B	7VECT		Inert vect update UTC	2R5	4	1	4,206,102:89:0	
2173	97	310	17:54:04.400	117GD105A106A4A	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,103:00:0	
2174	97	310	17:55:01.733	117GD105A106A4B	7STRP	0.016101,-0.001,	Slew =12.01	2R5	4	1	4,206,103:86:0	
2175	97	310	17:55:11.066	117GD105A106A4C	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,104:09:0	
2176	97	310	17:56:08.400	117GD105A106A4D	7STRP	0.016101,-0.001,	Slew =12.01	2R5	4	1	4,206,105:04:0	
2177	97	310	17:56:17.733	117GD105A106A4E	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,105:18:0	
2178	97	310	17:57:15.066	117GD105A106A4F	7STRP	0.016101,-0.001,	Slew =12.01	2R5	4	1	4,206,106:13:0	
2179	97	310	17:57:24.400	117GD105A106A4G	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,106:27:0	
2180	97	310	17:58:21.733	117GD105A106A4H	7STRP	0.016101,-0.001,	Slew =12.01	2R5	4	1	4,206,107:22:0	
2181	97	310	17:58:31.066	117GD105A106A4I	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,107:36:0	
2182	**97**	**310**	**17:59:11.734**	**11NNRELOAD07-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2183	97	310	17:59:28.400	117GD105A106A4J	7STRP	0.016101,-0.001,	Slew =12.01	2R5	4	1	4,206,108:31:0	
2184	97	310	17:59:37.733	117GD105A106A4K	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,108:45:0	
2185	97	310	18:00:12.400	20EH6A	6CKSUM	NIMS	NIMS,1000,14BC	2R5	4	1	4,206,109:06:0	
2186	97	310	18:00:35.066	117GD105A106A4L	7STRP	0.016101,-0.001,	Slew =12.01	2R5	4	1	4,206,109:40:0	
2187	97	310	18:00:44.400	117GD105A106A4M	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,109:54:0	
2188	**97**	**310**	**18:01:13.066**	**20EH5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R5**	**4**	**1**	**4,206,110:06:0**	
2189	97	310	18:01:41.733	117GD105A106A4N	7STRP	0.016101,-0.001,	Slew =12.01	2R5	4	1	4,206,110:49:0	
2190	97	310	18:01:51.066	117GD105A106A4O	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,110:63:0	
2191	**97**	**310**	**18:02:13.733**	**20EH5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R5**	**4**	**1**	**4,206,111:06:0**	
2192	97	310	18:02:48.400	117GD105A106A4P	7STRP	0.016101,-0.001,	Slew =12.01	2R5	4	1	4,206,111:58:0	
2193	97	310	18:02:57.733	117GD105A106A4Q	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,111:72:0	
2194	**97**	**310**	**18:03:14.400**	**20EH6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R5**	**4**	**1**	**4,206,112:06:0**	
2195	97	310	18:03:55.066	117GD105A106A4R	7STRP	0.016101,-0.001,	Slew =12.01	2R5	4	1	4,206,112:67:0	
2196	97	310	18:03:55.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,112:68:0	
2197	97	310	18:03:55.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3155.17 +/-	2R5	4	1	4,206,112:68:0	
2198	97	310	18:03:57.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3155.29 +/-	2R5	4	1	4,206,112:70:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2199	97	310	18:04:02.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3156.52 +/-	2R5	4	1	4,206,112:78:0	
2200	97	310	18:04:03.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3156.58 +/-	2R5	4	1	4,206,112:79:8	
2201	97	310	18:04:04.400	117GD105A106A4S	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,112:81:0	
2202	97	310	18:04:05.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3156.46 +/-	2R5	4	1	4,206,112:81:9	
2203	**97**	**310**	**18:04:15.066**	**20EH6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R5**	**4**	**1**	**4,206,113:06:0**	
2204	97	310	18:04:23.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3152.07 +/-	2R5	4	1	4,206,113:19:0	
2205	97	310	18:04:46.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,113:53:0	
2206	97	310	18:04:46.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3146.76 +/-	2R5	4	1	4,206,113:53:0	
2207	97	310	18:04:47.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3146.70 +/-	2R5	4	1	4,206,113:54:8	
2208	97	310	18:05:01.733	117GD105A106A4T	7STRP	0.016101,-0.001,	Slew =12.01	2R5	4	1	4,206,113:76:0	
2209	97	310	18:05:11.066	117GD105A106A4U	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R5	4	1	4,206,113:90:0	
2210	**97**	**310**	**18:05:15.733**	**20EH5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,206,114:06:0**	
2211	97	310	18:06:08.400	117GD105A106A4V	7STRP	0.016101,-0.001,	Slew =12.01	260	4	0	4,206,114:85:0	
2212	**97**	**310**	**18:06:16.400**	**20EH5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,206,115:06:0**	
2213	97	310	18:06:17.733	117GD105A106A4W	7STRP	-0.016001,0.0,0,	Slew =,0.31	260	4	0	4,206,115:08:0	
2214	97	310	18:07:15.066	117GD105A106A4X	7STRP	0.016101,-0.001,	Slew =12.01	260	4	0	4,206,116:03:0	
2215	**97**	**310**	**18:07:17.066**	**20EH4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,206,116:06:0**	
2216	97	310	18:07:24.400	117GD105A106A4Y	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R0	4	0	4,206,116:17:0	
2217	97	310	18:08:21.733	117GD105A106A4Z	7STRP	0.016101,-0.001,	Slew =12.01	2R0	4	0	4,206,117:12:0	
2218	97	310	18:08:31.066	117GD105A106A4AA	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R0	4	0	4,206,117:26:0	
2219	**97**	**310**	**18:09:18.400**	**11NNHEALTH01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
2220	**97**	**310**	**18:09:18.400**	**11NNRELOAD07-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
2221	97	310	18:09:28.400	117GD105A106A4AB	7STRP	0.016101,-0.001,	Slew =12.01	2R0	4	0	4,206,118:21:0	
2222	97	310	18:09:37.733	117GD105A106A4AC	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R0	4	0	4,206,118:35:0	
2223	97	310	18:10:10.400	125KA11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,206,118:84:0	
2224	**97**	**310**	**18:10:10.400**	**125KA4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,206,118:84:0**	
2225	97	310	18:10:10.400	125KA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,206,118:84:0	
2226	97	310	18:10:35.066	117GD105A106A4AD	7STRP	0.016101,-0.001,	Slew =12.01	2R0	4	0	4,206,119:30:0	
2227	97	310	18:10:44.400	117GD105A106A4AE	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R0	4	0	4,206,119:44:0	
2228	**97**	**310**	**18:11:11.066**	**127KA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,206,119:84:0**	
2229	97	310	18:11:11.066	127KA	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,206,119:84:0	
2230	**97**	**310**	**18:11:11.733**	**127KA4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,206,119:85:0**	
2231	97	310	18:11:19.733	127KA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,206,120:06:0	
2232	97	310	18:11:35.733	432DA6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	4,206,120:30:0	
2233	97	310	18:11:41.733	117GD105A106A4AF	7STRP	0.016101,-0.001,	Slew =12.01	2R3	4	0	4,206,120:39:0	
2234	97	310	18:11:51.066	117GD105A106A4AG	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R3	4	0	4,206,120:53:0	
2235	**97**	**310**	**18:12:35.066**	**432DB6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,206,121:28:0**	
2236	97	310	18:12:48.400	117GD105A106A4AH	7STRP	0.016101,-0.001,	Slew =12.01	2R3	4	0	4,206,121:48:0	
2237	97	310	18:12:57.733	117GD105A106A4AI	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R3	4	0	4,206,121:62:0	
2238	97	310	18:13:55.066	117GD105A106A4AJ	7STRP	0.016101,-0.001,	Slew =12.01	2R3	4	0	4,206,122:57:0	
2239	97	310	18:14:04.400	117GD105A106A4AK	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R3	4	0	4,206,122:71:0	
2240	97	310	18:15:01.733	117GD105A106A4AL	7STRP	0.016101,-0.001,	Slew =12.01	2R3	4	0	4,206,123:66:0	
2241	97	310	18:15:11.066	117GD105A106A4AM	7STRP	-0.016001,0.0,0,	Slew =,0.31	2R3	4	0	4,206,123:80:0	
2242	**97**	**310**	**18:15:22.400**	**11NNHEALTH01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2243	97	310	18:16:08.400	117GD105A106B4A	7STRP	0.018002,-0.0200	Slew =12.01	2R3	4	0	4,206,124:75:0	
2244	97	310	18:16:19.066	117GD105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.31	2R3	4	0	4,206,125:00:0	
2245	97	310	18:16:24.400	117GD105A106C4A	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,125:08:0	
2246	97	310	18:16:34.400	117GD105A106C4B	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,125:23:0	
2247	97	310	18:17:47.066	117GD105A106C4C	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,126:41:0	
2248	97	310	18:17:57.066	117GD105A106C4D	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,126:56:0	
2249	97	310	18:18:19.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3146.70 +/-	2R3	4	0	4,206,126:90:0	
2250	97	310	18:18:19.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,206,126:90:0	
2251	97	310	18:18:21.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3146.82 +/-	2R3	4	0	4,206,127:01:1	
2252	97	310	18:18:26.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3148.05 +/-	2R3	4	0	4,206,127:09:0	
2253	97	310	18:18:27.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3148.11 +/-	2R3	4	0	4,206,127:10:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2254	97	310	18:18:29.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3147.99 +/-	2R3	4	0	4,206,127:12:9	
2255	97	310	18:18:47.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3143.60 +/-	2R3	4	0	4,206,127:41:0	
2256	97	310	18:19:09.733	117GD105A106C4E	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,127:74:0	
2257	97	310	18:19:10.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3138.29 +/-	2R3	4	0	4,206,127:75:0	
2258	97	310	18:19:10.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,127:75:0	
2259	97	310	18:19:11.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3138.23 +/-	2R3	4	0	4,206,127:76:8	
2260	97	310	18:19:19.733	117GD105A106C4F	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,127:89:0	
2261	97	310	18:20:32.400	117GD105A106C4G	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,129:16:0	
2262	97	310	18:20:42.400	117GD105A106C4H	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,129:31:0	
2263	97	310	18:21:55.066	117GD105A106C4I	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,130:49:0	
2264	97	310	18:22:05.066	117GD105A106C4J	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,130:64:0	
2265	97	310	18:23:17.733	117GD105A106C4K	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,131:82:0	
2266	97	310	18:23:27.733	117GD105A106C4L	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,132:06:0	
2267	97	310	18:24:40.400	117GD105A106C4M	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,133:24:0	
2268	97	310	18:24:50.400	117GD105A106C4N	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,133:39:0	
2269	97	310	18:26:03.066	117GD105A106C4O	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,134:57:0	
2270	97	310	18:26:13.066	117GD105A106C4P	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,134:72:0	
2271	97	310	18:27:25.733	117GD105A106C4Q	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,135:90:0	
2272	97	310	18:27:35.733	117GD105A106C4R	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,136:14:0	
2273	97	310	18:28:48.400	117GD105A106C4S	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,137:32:0	
2274	97	310	18:28:58.400	117GD105A106C4T	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,137:47:0	
2275	97	310	18:30:11.066	117GD105A106C4U	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,138:65:0	
2276	97	310	18:30:21.066	117GD105A106C4V	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,138:80:0	
2277	97	310	18:31:33.733	117GD105A106C4W	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,140:07:0	
2278	97	310	18:31:43.733	117GD105A106C4X	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,140:22:0	
2279	97	310	18:32:44.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3138.23 +/-	2R3	4	0	4,206,141:22:0	
2280	97	310	18:32:44.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,206,141:22:0	
2281	97	310	18:32:45.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3138.35 +/-	2R3	4	0	4,206,141:24:1	
2282	97	310	18:32:51.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3139.58 +/-	2R3	4	0	4,206,141:32:0	
2283	97	310	18:32:52.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3139.64 +/-	2R3	4	0	4,206,141:33:8	
2284	97	310	18:32:53.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3139.52 +/-	2R3	4	0	4,206,141:35:9	
2285	97	310	18:32:56.400	117GD105A106C4Y	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,141:40:0	
2286	97	310	18:33:06.400	117GD105A106C4Z	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,141:55:0	
2287	97	310	18:33:12.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3135.13 +/-	2R3	4	0	4,206,141:64:0	
2288	97	310	18:33:35.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,142:07:0	
2289	97	310	18:33:35.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3129.82 +/-	2R3	4	0	4,206,142:07:0	
2290	97	310	18:33:36.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3129.76 +/-	2R3	4	0	4,206,142:08:8	
2291	97	310	18:34:19.066	117GD105A106C4AA	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,142:73:0	
2292	97	310	18:34:29.066	117GD105A106C4AB	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,142:88:0	
2293	97	310	18:35:41.733	117GD105A106C4AC	7STRP	-0.021003,0.001,	Slew =12.01	2R3	4	0	4,206,144:15:0	
2294	97	310	18:35:51.733	117GD105A106C4AD	7STRP	0.021003,0.0,0,0	Slew =,0.31	2R3	4	0	4,206,144:30:0	
2295	97	310	18:37:04.400	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,206,145:48:0	
2296	97	310	18:37:04.400	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,206,145:48:0	
2297	97	310	18:37:06.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,206,145:51:0	
2298	97	310	18:37:06.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3129.76 +/-	2R3	4	0	4,206,145:51:0	
2299	97	310	18:37:07.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3129.88 +/-	2R3	4	0	4,206,145:53:1	
2300	97	310	18:37:13.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3131.11 +/-	2R3	4	0	4,206,145:61:0	
2301	97	310	18:37:14.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3131.17 +/-	2R3	4	0	4,206,145:62:8	
2302	97	310	18:37:15.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3131.05 +/-	2R3	4	0	4,206,145:64:9	
2303	97	310	18:37:16.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3130.88 +/-	2R3	4	0	4,206,145:66:0	
2304	97	310	18:37:29.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *3127.91 +/-	2R3	4	0	4,206,145:85:0	
2305	97	310	18:37:29.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,145:85:0	
2306	97	310	18:37:30.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3127.85 +/-	2R3	4	0	4,206,145:86:8	
2307	**97**	**310**	**18:46:43.067**	**11ENDRKLIT01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2308	97	310	18:47:35.066	125EJ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,206,155:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2309	**97**	**310**	**18:47:35.066**	**125EJ4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,206,155:84:0**	
2310	97	310	18:47:35.066	125EJ11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,206,155:84:0	
2311	97	310	18:48:35.733	127EJ	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,206,156:84:0	
2312	**97**	**310**	**18:48:36.400**	**127EJ4A**	**37ETB**	**07,C7,02,3C,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,206,156:85:0**	
2313	97	310	18:48:39.733	165EJ4A	7SCAN	NORM,261.171997,	Check S/P Position	4R3	4	0	4,206,156:90:0	
2314	97	310	18:48:44.400	127EJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,206,157:06:0	
2315	97	310	18:49:29.066	175EJ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,206,157:73:0	
2316	97	310	18:49:29.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3127.85 +/-	4R3	4	0	4,206,157:73:0	
2317	97	310	18:49:30.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3127.97 +/-	4R3	4	0	4,206,157:75:1	
2318	97	310	18:49:31.733	117EJ	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,206,157:77:0	
2319	97	310	18:49:35.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3129.21 +/-	4R3	4	0	4,206,157:83:0	
2320	97	310	18:49:36.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3129.27 +/-	4R3	4	0	4,206,157:84:8	
2321	97	310	18:49:37.733	175EJ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,206,157:86:0	
2322	97	310	18:49:38.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 3129.15 +/-	4R3	4	0	4,206,157:86:9	
2323	97	310	18:49:38.333		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3129.15 +/-	4R3	4	0	4,206,157:86:9	
2324	97	310	18:49:39.733	165EJ4B	7VECT		Inert vect update UTC	4R3	4	0	4,206,157:89:0	
2325	97	310	18:49:41.066	117EJ105A106A4A	7STRP	-0.021703,0.0,0,	Slew =,0.03	4R3	4	0	4,206,158:00:0	
2326	**97**	**310**	**18:49:41.733**	**11ENDRKLIT01-**	**NIMPBK**	**301DY**	**EUROPA DARK MOSAIC**	**4R3**	**4**	**0**	**: :**	
2327	**97**	**310**	**18:55:45.733**	**11ENDRKLIT01-**	**DESELC**	**300DY**	**EUROPA DARK MOSAIC**	**4R3**	**4**	**0**	**: :**	
2328	97	310	19:01:49.066	117EJ11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,206,170:00:0	
2329	97	310	19:01:53.066	175EJ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,206,170:06:0	
2330	97	310	19:01:53.066	175EJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,170:06:0	
2331	97	310	19:01:53.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2956.94 +/-	4R3	4	0	4,206,170:06:0	
2332	97	310	19:01:54.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2956.88 +/-	4R3	4	0	4,206,170:07:8	
2333	97	310	19:02:53.733	165IC4A	7SCAN	NORM,262.110996,	Check S/P Position	4R3	4	0	4,206,171:06:0	
2334	**97**	**310**	**19:02:53.734**	**11ENDRKLIT01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2335	97	310	19:03:40.400	175IC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,206,171:76:0	
2336	97	310	19:03:40.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2956.88 +/-	4R3	4	0	4,206,171:76:0	
2337	97	310	19:03:41.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2957.00 +/-	4R3	4	0	4,206,171:78:1	
2338	97	310	19:03:47.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2958.24 +/-	4R3	4	0	4,206,171:86:0	
2339	97	310	19:03:48.266		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *2958.30 +/-	4R3	4	0	4,206,171:87:8	
2340	97	310	19:03:49.066	165IC4B	7VECT		Inert vect update UTC	4R3	4	0	4,206,171:89:0	
2341	97	310	19:03:51.733	175IC176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	4R3	4	0	4,206,172:02:0	
2342	97	310	19:03:52.266		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 2952.00 +/-	4R3	4	0	4,206,172:02:8	
2343	97	310	19:03:52.266		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2952.00 +/-	4R3	4	0	4,206,172:02:8	
2344	97	310	19:03:54.400	118IC	**SMOS**	GS		4R3	4	0	4,206,172:06:0	
2345	97	310	19:04:27.066	118IC110A111A4A	7STRP	-0.0003,0.015502	Slew =2,5.0	4R3	4	0	4,206,172:55:0	
2346	97	310	19:04:33.733		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2806.22 +/-	4R3	4	0	4,206,172:65:0	
2347	97	310	19:04:33.733	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,172:65:0	
2348	97	310	19:04:34.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2805.22 +/-	4R3	4	0	4,206,172:66:8	
2349	97	310	19:05:41.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2805.22 +/-	4R3	4	0	4,206,173:76:0	
2350	97	310	19:05:41.733	175ID422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,206,173:76:0	
2351	97	310	19:05:43.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2805.34 +/-	4R3	4	0	4,206,173:78:1	
2352	97	310	19:05:48.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2806.57 +/-	4R3	4	0	4,206,173:86:0	
2353	97	310	19:05:49.600		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *2806.63 +/-	4R3	4	0	4,206,173:87:8	
2354	97	310	19:05:53.066	175ID176A6A	6TMREC	HCA	115.2 KBPS IMAGE(1-200) RECORD Record Mod	4R3	4	0	4,206,174:02:0	
2355	97	310	19:05:53.600		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *2800.33 +/-	4R3	4	0	4,206,174:02:8	
2356	97	310	19:05:53.600		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 2800.33 +/-	4R3	4	0	4,206,174:02:8	
2357	97	310	19:06:29.066	118IC11A	**SMOS**	GE		4R3	4	0	4,206,174:56:0	
2358	97	310	19:06:35.066		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *2654.55 +/-	4R3	4	0	4,206,174:65:0	
2359	97	310	19:06:35.066	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,174:65:0	
2360	97	310	19:06:36.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2653.55 +/-	4R3	4	0	4,206,174:66:8	
2361	**97**	**310**	**19:15:01.734**	**11ENEURORT01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2362	97	310	19:15:57.733	165EI4A	7SCAN	NORM,263.302998,	Check S/P Position	4R3	4	0	4,206,183:90:0	
2363	97	310	19:16:54.400	125KI	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,206,184:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2364	**97**	**310**	**19:16:54.400**	**125KI4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,206,184:84:0**	
2365	97	310	19:17:55.066	125KI11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,206,185:84:0	
2366	**97**	**310**	**19:17:55.066**	**125KI4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**4,206,185:84:0**	
2367	**97**	**310**	**19:18:55.733**	**127KI4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,206,186:84:0**	
2368	97	310	19:18:55.733	127KI	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,206,186:84:0	
2369	**97**	**310**	**19:18:56.400**	**127KI4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,206,186:85:0**	
2370	97	310	19:19:04.400	127KI11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,206,187:06:0	
2371	97	310	19:19:20.400	432DQ6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	4,206,187:30:0	
2372	97	310	19:19:51.733	117EI	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,206,187:77:0	
2373	97	310	19:19:59.733	165EI4B	7VECT		Inert vect update UTC	4R3	4	0	4,206,187:89:0	
2374	97	310	19:20:01.066	117EI105A106A4A	7STRP	-0.00175,0.0,0,0	Slew =,0.03	4R3	4	0	4,206,188:00:0	
2375	**97**	**310**	**19:20:19.733**	**432DR6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,206,188:28:0**	
2376	97	310	19:21:01.733	117EI11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,206,189:00:0	
2377	97	310	19:21:31.733	165IE4A	7SCAN	NORM,264.976997,	Check S/P Position	4R3	4	0	4,206,189:45:0	
2378	97	310	19:21:57.733	125LT11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,206,189:84:0	
2379	97	310	19:21:57.733	125LT	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,206,189:84:0	
2380	**97**	**310**	**19:21:57.733**	**125LT4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**4,206,189:84:0**	
2381	**97**	**310**	**19:22:06.400**	**11ENEURORT01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2382	97	310	19:23:52.400	175IE422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R3	4	0	4,206,191:74:0	
2383	97	310	19:23:52.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2653.55 +/-	4R3	4	0	4,206,191:74:0	
2384	97	310	19:23:53.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2653.67 +/-	4R3	4	0	4,206,191:76:1	
2385	97	310	19:23:55.733	118IE	**SMOS**	GS		4R3	4	0	4,206,191:79:0	
2386	97	310	19:23:59.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2654.91 +/-	4R3	4	0	4,206,191:84:0	
2387	97	310	19:24:00.266		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *2654.97 +/-	4R3	4	0	4,206,191:85:8	
2388	97	310	19:24:02.400	165IE4B	7VECT		Inert vect update UTC	4R3	4	0	4,206,191:89:0	
2389	97	310	19:24:05.066	175IE176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,206,192:02:0	
2390	97	310	19:24:05.533		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 2588.97 +/-	4R3	4	0	4,206,192:02:7	
2391	97	310	19:24:05.533		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *2588.97 +/-	4R3	4	0	4,206,192:02:7	
2392	97	310	19:24:05.733	118IE110A111A4A	7STRP	0.00732,0.0,26,0	Slew =,3.66	4R3	4	0	4,206,192:03:0	
2393	97	310	19:24:14.400	118IE110A111A4B	7STRP	-0.0076,-0.00732	Slew =0,4.5	4R3	4	0	4,206,192:16:0	
2394	97	310	19:24:23.066	118IE110A111A4C	7STRP	0.00732,0.0,26,0	Slew =,3.66	4R3	4	0	4,206,192:29:0	
2395	97	310	19:24:31.733	118IE110A111A4D	7STRP	-0.0076,-0.00732	Slew =0,4.5	4R3	4	0	4,206,192:42:0	
2396	97	310	19:24:40.400	118IE110A111A4E	7STRP	0.00732,0.0,26,0	Slew =,3.66	4R3	4	0	4,206,192:55:0	
2397	97	310	19:24:49.066	118IE110A111A4F	7STRP	-0.0076,-0.00732	Slew =0,4.5	4R3	4	0	4,206,192:68:0	
2398	97	310	19:24:57.733	118IE110A111A4G	7STRP	0.00732,0.0,26,0	Slew =,3.66	4R3	4	0	4,206,192:81:0	
2399	97	310	19:25:06.400	118IE110A111A4H	7STRP	-0.0076,-0.00732	Slew =0,4.5	4R3	4	0	4,206,193:03:0	
2400	**97**	**310**	**19:25:08.400**	**11ENCYCLOD01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2401	97	310	19:25:15.066	118IE110A111A4I	7STRP	0.00732,0.0,26,0	Slew =,3.66	4R3	4	0	4,206,193:16:0	
2402	97	310	19:25:23.733	118IE11A	**SMOS**	GE		4R3	4	0	4,206,193:29:0	
2403	97	310	19:25:30.400		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC * 500.45 +/-	4R3	4	0	4,206,193:39:0	
2404	97	310	19:25:30.400	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,193:39:0	
2405	97	310	19:25:33.133		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 488.95 +/- 1	4R3	4	0	4,206,193:43:1	
2406	97	310	19:26:00.400	127EK	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,206,193:84:0	
2407	**97**	**310**	**19:26:01.066**	**127EK4A**	**37ETB**	**07,C7,02,3C,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,206,193:85:0**	
2408	97	310	19:26:04.400	165EK4A	7SCAN	NORM,264.695,-27	Check S/P Position	4R3	4	0	4,206,193:90:0	
2409	97	310	19:26:09.066	127EK11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,206,194:06:0	
2410	97	310	19:26:53.733	175EK422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,206,194:73:0	
2411	97	310	19:26:53.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 488.95 +/- 1	4R3	4	0	4,206,194:73:0	
2412	97	310	19:26:55.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 489.07 +/- 1	4R3	4	0	4,206,194:75:1	
2413	97	310	19:26:56.400	117EK	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,206,194:77:0	
2414	97	310	19:27:00.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 490.30 +/- 1	4R3	4	0	4,206,194:83:0	
2415	97	310	19:27:01.600		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC * 490.36 +/- 1	4R3	4	0	4,206,194:84:8	
2416	97	310	19:27:02.400	175EK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,206,194:86:0	
2417	97	310	19:27:03.000		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC * 490.24 +/- 1	4R3	4	0	4,206,194:86:9	
2418	97	310	19:27:03.000		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 490.24 +/- 1	4R3	4	0	4,206,194:86:9	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2419	97	310	19:27:04.400	165EK4B	7VECT		Inert vect update UTC	4R3	4	0	4,206,194:89:0	
2420	97	310	19:27:05.733	117EK105A106A4A	7STRP	-0.021703,0.0,0,	Slew =,0.03	4R3	4	0	4,206,195:00:0	
2421	**97**	**310**	**19:27:05.733**	**11ENCYCLOD01-**	**NIMPBK**	**301DZ**	**EUROPA CYCLODIAL OBSERVATION**	**4R3**	**4**	**0**	**: :**	
2422	**97**	**310**	**19:27:13.733**	**11ENCYCLOD01-**	**NIMPBK**	**301DI**	**EUROPA CYCLODIAL OBSERVATION**	**4R3**	**4**	**0**	**: :**	
2423	**97**	**310**	**19:27:33.733**	**11ENCYCLOD01-**	**DESELC**	**300DI**	**EUROPA CYCLODIAL OBSERVATION**	**4R3**	**4**	**0**	**: :**	
2424	**97**	**310**	**19:28:37.066**	**11ENCYCLOD01-**	**NIMPBK**	**301DJ**	**EUROPA CYCLODIAL OBSERVATION**	**4R3**	**4**	**0**	**: :**	
2425	**97**	**310**	**19:28:45.733**	**11ENCYCLOD01-**	**DESELC**	**300DZ**	**EUROPA CYCLODIAL OBSERVATION**	**4R3**	**4**	**0**	**: :**	
2426	**97**	**310**	**19:38:57.066**	**11ENCYCLOD01-**	**DESELC**	**300DJ**	**EUROPA CYCLODIAL OBSERVATION**	**4R3**	**4**	**0**	**: :**	
2427	97	310	19:39:07.733	175EK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,206:82:0	
2428	97	310	19:39:07.733	175EK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,206,206:82:0	
2429	97	310	19:39:07.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC * 320.38 +/- 1	4R3	4	0	4,206,206:82:0	
2430	97	310	19:39:08.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 320.32 +/- 1	4R3	4	0	4,206,206:83:8	
2431	97	310	19:39:13.733	117EK11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,206,207:00:0	
2432	97	310	19:41:08.400	465KD6A	6DTRN	CMD,6DTRN,465KD6	DMS TRACK TURNAROUND	4R3	4	0	4,206,208:81:0	
2433	97	310	19:41:08.400		DMS:	: *DMS-TURN	P7, TRACK 2, REV, TIC 320.32 +/- 1	4R3	4	0	4,206,208:81:0	
2434	97	310	19:41:08.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 320.32 +/- 1	4R3	4	0	4,206,208:81:0	
2435	97	310	19:41:09.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 320.44 +/- 1	4R3	4	0	4,206,208:83:1	
2436	97	310	19:41:15.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 321.68 +/- 1	4R3	4	0	4,206,209:00:0	
2437	97	310	19:41:16.266		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC * 321.74 +/- 1	4R3	4	0	4,206,209:01:8	
2438	97	310	19:41:17.666		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC * 321.62 +/- 1	4R3	4	0	4,206,209:03:9	
2439	**97**	**310**	**19:43:20.400**	**11ENCYCLOD01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2440	97	310	19:49:57.066		DMS:	: *REVERSE	P7, TRACK 2, REV, TIC * 199.87 +/- 1	4R3	4	0	4,206,217:55:0	
2441	97	310	19:49:58.266		DMS:	: *RUNUP	P7, TRACK 3, FWD, TIC 199.81 +/- 1	4R3	4	0	4,206,217:56:8	
2442	97	310	19:49:58.266		DMS:	: *TURNARND	P7, TRACK *3, *FWD, TIC * 199.81 +/- 1	4R3	4	0	4,206,217:56:8	
2443	97	310	19:49:59.666		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC * 199.93 +/-	4R3	4	0	4,206,217:58:9	
2444	97	310	19:50:11.666		DMS:	: *AUTOSTOP	P7, TRACK 3, FWD, TIC * 202.06 +/-	4R3	4	0	4,206,217:76:9	
2445	97	310	19:50:12.866		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 202.12 +/-	4R3	4	0	4,206,217:78:7	
2446	97	310	19:56:17.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 202.12 +/-	4R3	4	0	4,206,223:79:0	
2447	97	310	19:56:17.066	465KE6A	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	4R3	4	0	4,206,223:79:0	
2448	97	310	19:56:23.733		DMS:	: *RUNUP	P7, TRACK *3, FWD, TIC 202.12 +/-	4R3	4	0	4,206,223:89:0	
2449	97	310	19:56:25.133		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC 202.24 +/-	4R3	4	0	4,206,224:00:1	
2450	97	310	19:56:25.133		DMS:	: *P_SLEW	P7, TRACK 3, FWD, TIC * 202.24 +/-	4R3	4	0	4,206,224:00:1	
2451	97	310	19:57:32.400	465KE6B	6DMSC	RDY,3	DMS Control Tape stop	4R3	4	0	4,206,225:10:0	
2452	97	310	19:57:32.400		DMS:	**: *RUNDOWN**	P7, TRACK 3, FWD, TIC * 218.01 +/-	4R3	4	0	4,206,225:10:0	
2453	97	310	19:57:33.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 218.07 +/-	4R3	4	0	4,206,225:11:8	
2454	97	310	19:59:27.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 218.07 +/-	4R3	4	0	4,206,227:00:0	
2455	97	310	19:59:27.066	411JB6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,206,227:00:0	
2456	97	310	19:59:33.733		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 218.07 +/-	4R3	4	0	4,206,227:10:0	
2457	97	310	19:59:35.133		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 218.19 +/-	4R3	4	0	4,206,227:12:1	
2458	97	310	19:59:35.133		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 218.19 +/-	4R3	4	0	4,206,227:12:1	
2459	97	310	19:59:37.066	411JB6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	4R3	4	0	4,206,227:15:0	
2460	97	310	20:01:38.400	411JB6C	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,206,229:15:0	
2461	97	310	20:01:39.066	411JB6D	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,229:16:0	
2462	97	310	20:01:39.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 247.24 +/-	4R3	4	0	4,206,229:16:0	
2463	97	310	20:01:40.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 247.30 +/-	4R3	4	0	4,206,229:17:8	
2464	97	310	20:09:23.066	175TA422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	4,206,236:75:0	
2465	97	310	20:09:23.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 247.30 +/-	4R3	4	0	4,206,236:75:0	
2466	97	310	20:09:29.733		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 247.30 +/-	4R3	4	0	4,206,236:85:0	
2467	97	310	20:09:31.066	175TA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	4,206,236:87:0	
2468	97	310	20:09:31.066	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	4R3	4	0	4,206,236:87:0	
2469	97	310	20:09:31.133		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 247.42 +/-	4R3	4	0	4,206,236:87:1	
2470	97	310	20:09:31.133		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 247.42 +/-	4R3	4	0	4,206,236:87:1	
2471	97	310	20:09:33.733	431OA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	4R3	4	0	4,206,237:00:0	
2472	97	310	20:23:04.400	428JA6A	6RCCLR			4R3	4	0	4,206,250:33:0	
2473	97	310	20:23:05.066	428JA6B	6RCSET			4R3	4	0	4,206,250:34:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2474	97	310	20:29:59.733	481UD4A	7VECT	BB2	Inert vect update UTC	4R3	4	0	4,206,257:19:0	
2475	97	310	20:33:10.400	165IF4A	7SCAN	NORM,326.703999,	Check S/P Position	4R3	4	0	4,206,260:32:0	
2476	97	310	20:36:38.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 628.81 +/-	4R3	4	0	4,206,263:71:0	
2477	97	310	20:36:38.400	175IF422A6A	6DMSC	R806,3	DMS Control	4R3	4	0	4,206,263:71:0	
2478	97	310	20:36:39.600		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC * 628.87 +/-	4R3	4	0	4,206,263:72:8	
2479	97	310	20:36:44.400	175IF176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,206,263:80:0	
2480	97	310	20:36:44.866		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC * 694.87 +/-	4R3	4	0	4,206,263:80:7	
2481	97	310	20:36:44.866		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 694.87 +/-	4R3	4	0	4,206,263:80:7	
2482	97	310	20:36:51.733	176IF6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	4R3	4	0	4,206,264:00:0	
2483	**97**	**310**	**20:36:55.733**	**11ENLEADRT01+**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2484	97	310	20:36:58.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *1027.91 +/-	4R3	4	0	4,206,264:10:0	
2485	97	310	20:36:58.400	175TB422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	4,206,264:10:0	
2486	97	310	20:37:01.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1039.41 +/-	4R3	4	0	4,206,264:14:1	
2487	97	310	20:37:02.400	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	4,206,264:16:0	
2488	97	310	20:37:02.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 1039.53 +/-	4R3	4	0	4,206,264:16:2	
2489	97	310	20:37:02.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *1039.53 +/-	4R3	4	0	4,206,264:16:2	
2490	97	310	20:37:21.733	165IG4A	7SCAN	NORM,25.169,0.22	Check S/P Position	4R3	4	0	4,206,264:45:0	
2491	97	310	20:39:45.733	118IG	**SMOS**	GS		4R3	4	0	4,206,266:79:0	
2492	97	310	20:39:49.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1078.56 +/-	4R3	4	0	4,206,266:84:0	
2493	**97**	**310**	**20:39:49.066**	**125KQ4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,206,266:84:0**	
2494	97	310	20:39:49.066	175IG422A6A	6DMSC	R806,3	DMS Control	4R3	4	0	4,206,266:84:0	
2495	97	310	20:39:49.066	125KQ	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,206,266:84:0	
2496	97	310	20:39:50.266		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *1078.62 +/-	4R3	4	0	4,206,266:85:8	
2497	97	310	20:39:52.400	165IG4B	7VECT		Inert vect update UTC	4R3	4	0	4,206,266:89:0	
2498	97	310	20:39:55.066	175IG176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,206,267:02:0	
2499	97	310	20:39:55.533		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *1144.62 +/-	4R3	4	0	4,206,267:02:7	
2500	97	310	20:39:55.533		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 1144.62 +/-	4R3	4	0	4,206,267:02:7	
2501	97	310	20:39:55.733	118IG110A111A4A	7STRP	0.00732,0.00366,	Slew =,3.71	4R3	4	0	4,206,267:03:0	
2502	97	310	20:40:04.400	118IG110A111A4B	7STRP	-0.00732,0.00366	Slew =,3.71	4R3	4	0	4,206,267:16:0	
2503	97	310	20:40:13.066	118IG110A111A4C	7STRP	0.00732,0.00366,	Slew =,3.71	4R3	4	0	4,206,267:29:0	
2504	97	310	20:40:21.733	118IG110A111A4D	7STRP	-0.00732,0.00366	Slew =,3.71	4R3	4	0	4,206,267:42:0	
2505	97	310	20:40:30.400	118IG110A111A4E	7STRP	0.00732,0.00366,	Slew =,3.71	4R3	4	0	4,206,267:55:0	
2506	97	310	20:40:39.066	118IG110A111A4F	7STRP	-0.00732,0.00366	Slew =,3.71	4R3	4	0	4,206,267:68:0	
2507	97	310	20:40:47.733	118IG110A111A4G	7STRP	0.00732,0.00366,	Slew =,3.71	4R3	4	0	4,206,267:81:0	
2508	97	310	20:40:49.733	125KQ11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,206,267:84:0	
2509	**97**	**310**	**20:40:49.733**	**125KQ4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**4,206,267:84:0**	
2510	97	310	20:40:56.400	118IG11A	**SMOS**	GE		4R3	4	0	4,206,268:03:0	
2511	97	310	20:41:00.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2740.95 +/-	4R3	4	0	4,206,268:09:0	
2512	97	310	20:41:00.400	175TC422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	4,206,268:09:0	
2513	97	310	20:41:03.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2752.45 +/-	4R3	4	0	4,206,268:13:1	
2514	97	310	20:41:03.733	488DC6A	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	4R3	4	0	4,206,268:14:0	
2515	97	310	20:41:04.400	175TC176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	4,206,268:15:0	
2516	97	310	20:41:04.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2752.57 +/-	4R3	4	0	4,206,268:15:2	
2517	97	310	20:41:04.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2752.57 +/-	4R3	4	0	4,206,268:15:2	
2518	97	310	20:41:50.400	127KQ	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,206,268:84:0	
2519	**97**	**310**	**20:41:51.066**	**127KQ4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,206,268:85:0**	
2520	97	310	20:41:54.400	165CM4A	7SCAN	NORM,35.313,13.4	Check S/P Position	4R3	4	0	4,206,268:90:0	
2521	97	310	20:41:59.066	127KQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,206,269:06:0	
2522	97	310	20:42:15.066	432EQ6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	4,206,269:30:0	
2523	97	310	20:42:46.400	117CA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,206,269:77:0	
2524	97	310	20:42:54.400	165CM4B	7VECT		Inert vect update UTC	4R3	4	0	4,206,269:89:0	
2525	97	310	20:42:55.733	117CA105A106A4A	7STRP	0.00537,0.0,0,0,	Slew =,0.03	4R3	4	0	4,206,270:00:0	
2526	97	310	20:45:57.733	117CA105A106B4A	7STRP	-0.020003,0.1104	Slew =17.01	4R3	4	0	4,206,273:00:0	
2527	97	310	20:46:17.733	117CA105A106B4B	7STRP	0.0066,0.0,0,0,0	Slew =,0.03	4R3	4	0	4,206,273:30:0	
2528	97	310	20:50:00.400	117CA105A106C4A	7STRP	-0.020003,0.1003	Slew =17.01	4R3	4	0	4,206,277:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2529	97	310	20:50:17.066	117CA105A106C4B	7STRP	0.0067,0.0,0,0,0	Slew =,0.03	4R3	4	0	4,206,277:25:0	
2530	**97**	**310**	**20:50:19.066**	**432ER6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,206,277:28:0**	
2531	**97**	**310**	**20:51:57.066**	**125KR4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**4,206,278:84:0**	
2532	97	310	20:51:57.066	125KR	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,206,278:84:0	
2533	97	310	20:51:57.066	125KR11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,206,278:84:0	
2534	97	310	20:54:03.066	117CA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,206,281:00:0	
2535	**97**	**310**	**20:56:08.400**	**11ENLEADRT01+**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2536	97	310	21:02:06.400	432MA431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	4,206,288:88:0	
2537	97	310	21:02:07.066	432MA6A	6RTSL1		R/T Select of DDS and	4R3	4	0	4,206,288:89:0	
2538	97	310	21:15:11.733	488DC6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4R3	4	0	4,206,301:83:0	
2539	97	310	21:32:27.733	165GI4A	7SCAN	NORM,69.834,21.7	Check S/P Position	4R3	4	0	4,206,318:90:0	
2540	97	310	21:36:21.733	117GI	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,206,322:77:0	
2541	97	310	21:36:29.733	165GI4B	7VECT		Inert vect update UTC	4R3	4	0	4,206,322:89:0	
2542	97	310	21:36:31.066	117GI105A106A4A	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,323:00:0	
2543	97	310	21:39:01.066	117GI105A106A4B	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,325:43:0	
2544	97	310	21:39:09.066	117GI105A106A4C	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,325:55:0	
2545	97	310	21:41:39.066	117GI105A106A4D	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,328:07:0	
2546	97	310	21:41:47.066	117GI105A106A4E	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,328:19:0	
2547	97	310	21:44:17.066	117GI105A106A4F	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,330:62:0	
2548	97	310	21:44:25.066	117GI105A106A4G	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,330:74:0	
2549	97	310	21:46:11.066	428JE6A	6RCCLR			4R3	4	0	4,206,332:51:0	
2550	97	310	21:46:55.066	117GI105A106A4H	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,333:26:0	
2551	97	310	21:47:03.066	117GI105A106A4I	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,333:38:0	
2552	97	310	21:49:33.066	117GI105A106A4J	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,335:81:0	
2553	97	310	21:49:41.066	117GI105A106A4K	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,336:02:0	
2554	97	310	21:52:11.066	117GI105A106A4L	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,338:45:0	
2555	97	310	21:52:19.066	117GI105A106A4M	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,338:57:0	
2556	97	310	21:54:49.066	117GI105A106A4N	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,341:09:0	
2557	97	310	21:54:57.066	117GI105A106A4O	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,341:21:0	
2558	97	310	21:57:27.066	117GI105A106A4P	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,343:64:0	
2559	97	310	21:57:35.066	117GI105A106A4Q	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,343:76:0	
2560	97	310	22:00:05.066	117GI105A106A4R	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,346:28:0	
2561	97	310	22:00:13.066	117GI105A106A4S	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,346:40:0	
2562	97	310	22:02:43.066	117GI105A106A4T	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,348:83:0	
2563	97	310	22:02:51.066	117GI105A106A4U	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,349:04:0	
2564	97	310	22:05:21.066	117GI105A106A4V	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,351:47:0	
2565	97	310	22:05:29.066	117GI105A106A4W	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,351:59:0	
2566	97	310	22:07:51.066	488DC6C	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	4R3	4	0	4,206,353:90:0	
2567	97	310	22:07:59.066	117GI105A106A4X	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,354:11:0	
2568	97	310	22:08:07.066	117GI105A106A4Y	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,354:23:0	
2569	97	310	22:10:37.066	117GI105A106A4Z	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,356:66:0	
2570	97	310	22:10:45.066	117GI105A106A4AA	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,356:78:0	
2571	97	310	22:13:15.066	117GI105A106A4AB	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,359:30:0	
2572	97	310	22:13:23.066	117GI105A106A4AC	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,359:42:0	
2573	97	310	22:15:53.066	117GI105A106A4AD	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,361:85:0	
2574	97	310	22:16:01.066	117GI105A106A4AE	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,362:06:0	
2575	97	310	22:18:31.066	117GI105A106A4AF	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,364:49:0	
2576	97	310	22:18:39.066	117GI105A106A4AG	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,364:61:0	
2577	97	310	22:21:09.066	117GI105A106A4AH	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,367:13:0	
2578	97	310	22:21:17.066	117GI105A106A4AI	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,367:25:0	
2579	97	310	22:23:47.066	117GI105A106A4AJ	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,369:68:0	
2580	97	310	22:23:55.066	117GI105A106A4AK	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,369:80:0	
2581	97	310	22:26:25.066	117GI105A106A4AL	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,372:32:0	
2582	97	310	22:26:33.066	117GI105A106A4AM	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,372:44:0	
2583	97	310	22:29:03.066	117GI105A106A4AN	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,374:87:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2584	97	310	22:29:11.066	117GI105A106A4AO	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,375:08:0
2585	97	310	22:31:41.066	117GI105A106A4AP	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,377:51:0
2586	97	310	22:31:49.066	117GI105A106A4AQ	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,377:63:0
2587	97	310	22:34:19.066	117GI105A106A4AR	7STRP	-0.045131,0.0028	Slew =12.01	4R3	4	0	4,206,380:15:0
2588	97	310	22:34:27.066	117GI105A106A4AS	7STRP	0.04503,-0.002,0	Slew =,0.31	4R3	4	0	4,206,380:27:0
2589	97	310	22:36:57.066	117GI11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,206,382:70:0
2590	97	310	22:39:11.733	165CN4A	7SCAN	NORM,305.737,-20	Check S/P Position	4R3	4	0	4,206,384:90:0
2591	97	310	22:43:13.733	165CN4B	7VECT		Inert vect update UTC	4R3	4	0	4,206,388:89:0
2592	97	310	22:46:30.400	488DC6D	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4R3	4	0	4,206,392:20:0
2593	97	310	22:51:22.400	432OA431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	4,206,397:03:0
2594	97	310	22:51:22.400	175TC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,397:03:0
2595	97	310	22:51:22.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4584.88 +/-	4R3	4	0	4,206,397:03:0
2596	97	310	22:51:23.066	432OA6A	6RTSL1		R/T Select of DDS and	4R3	4	0	4,206,397:04:0
2597	97	310	22:51:23.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4584.94 +/-	4R3	4	0	4,206,397:04:8
2598	97	310	22:51:26.400	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4R3	4	0	4,206,397:09:0
2599	97	310	22:52:15.066	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4R3	4	0	4,206,397:82:0
2600	97	310	22:52:15.733	282NB432A6A	6RTSL1		R/T Select of DDS and	4R3	4	0	4,206,397:83:0
2601	**97**	**310**	**23:23:45.733**	**11HNDARK__02-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2602	97	310	23:24:41.733	165EG4A	7SCAN	NORM,218.969,-22	Check S/P Position	4R3	4	0	4,206,429:90:0
2603	97	310	23:26:39.066	125EG	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,206,431:84:0
2604	97	310	23:26:39.066	125EG11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,206,431:84:0
2605	**97**	**310**	**23:26:39.066**	**125EG4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,206,431:84:0**
2606	97	310	23:27:39.733	127EG	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,206,432:84:0
2607	**97**	**310**	**23:27:40.400**	**127EG4A**	**37ETB**	**0A,CA,1D,FF,FF,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,206,432:85:0**
2608	97	310	23:27:48.400	127EG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,206,433:06:0
2609	97	310	23:28:33.733	175EG422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	4,206,433:74:0
2610	97	310	23:28:33.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 4584.94 +/-	2R3	4	0	4,206,433:74:0
2611	97	310	23:28:35.733	117EG	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,206,433:77:0
2612	97	310	23:28:40.400		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4584.94 +/-	2R3	4	0	4,206,433:84:0
2613	97	310	23:28:41.733	175EG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	4,206,433:86:0
2614	97	310	23:28:41.800		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4585.06 +/-	2R3	4	0	4,206,433:86:1
2615	97	310	23:28:41.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4585.06 +/-	2R3	4	0	4,206,433:86:1
2616	97	310	23:28:45.066	117EG105A106A4A	7STRP	0.0064,0.0,0,0,0	Slew =,0.11	2R3	4	0	4,206,434:00:0
2617	**97**	**310**	**23:28:45.733**	**11HNDARK__02-**	**NIMPBK**	**301EB**	**NIMS DARK OBSERVATION**	**2R3**	**4**	**0**	**: :**
2618	**97**	**310**	**23:29:45.733**	**11HNDARK__02-**	**DESELC**	**300EB**	**NIMS DARK OBSERVATION**	**2R3**	**4**	**0**	**: :**
2619	97	310	23:29:45.733	117EG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,206,435:00:0
2620	97	310	23:29:47.733	175EG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,206,435:03:0
2621	97	310	23:29:47.733	175EG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,435:03:0
2622	97	310	23:29:47.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4600.52 +/-	2R3	4	0	4,206,435:03:0
2623	97	310	23:29:48.933		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4600.58 +/-	2R3	4	0	4,206,435:04:8
2624	**97**	**310**	**23:29:49.733**	**11HNDARK__02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
2625	97	310	23:33:17.733	165IH4A	7SCAN	NORM,335.651997,	Check S/P Position	2R3	4	0	4,206,438:45:0
2626	97	310	23:36:40.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 4600.58 +/-	2R3	4	0	4,206,441:76:0
2627	97	310	23:36:40.400	175IH422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	4,206,441:76:0
2628	97	310	23:36:47.066		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 4600.58 +/-	2R3	4	0	4,206,441:86:0
2629	97	310	23:36:51.733	175IH176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,206,442:02:0
2630	97	310	23:36:52.333		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *4666.58 +/-	2R3	4	0	4,206,442:02:9
2631	97	310	23:36:52.333		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 4666.58 +/- 1	2R3	4	0	4,206,442:02:9
2632	97	310	23:36:54.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *4717.44 +/- 1	2R3	4	0	4,206,442:06:0
2633	97	310	23:36:54.400	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,442:06:0
2634	97	310	23:36:57.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4728.94 +/- 1	2R3	4	0	4,206,442:10:1
2635	**97**	**311**	**00:12:17.733**	**11JNBRG02001-**		**-----START------**		**2R3**	**4**	**0**	**: :**
2636	97	311	00:13:13.733	165EO4A	7SCAN	NORM,337.990997,	Check S/P Position	2R3	4	0	4,206,477:90:0
2637	**97**	**311**	**00:16:11.733**	**127EO4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,206,480:84:0**
2638	97	311	00:16:11.733	127EO	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	4,206,480:84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2639	**97**	**311**	**00:16:12.400**	**127EO4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,206,480**	**:85:0**
2640	97	311	00:16:20.400	127EO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	4,206,481	:06:0
2641	97	311	00:17:05.733	175EO422A6A	6DMSC	R7,3	DMS Control	2R5	4	1	4,206,481	:74:0
2642	97	311	00:17:05.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 4728.94 +/- 1	2R5	4	1	4,206,481	:74:0
2643	97	311	00:17:07.733	117EO	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,206,481	:77:0
2644	97	311	00:17:12.400		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4728.94 +/- 1	2R5	4	1	4,206,481	:84:0
2645	97	311	00:17:13.733	175EO176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,206,481	:86:0
2646	97	311	00:17:13.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4729.06 +/- 1	2R5	4	1	4,206,481	:86:1
2647	97	311	00:17:13.800		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4729.06 +/- 1	2R5	4	1	4,206,481	:86:1
2648	97	311	00:17:17.066	117EO105A106A4A	7STRP	0.033112,0.0,0,0	Slew =,0.11	2R5	4	1	4,206,482	:00:0
2649	**97**	**311**	**00:17:17.733**	**11JNBRG02001-**	**NIMPBK**	**301EC**	**BROWN BARGE OBS 20 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
2650	**97**	**311**	**00:19:47.733**	**11JNBRG02001-**	**DESELC**	**300EC**	**BROWN BARGE OBS 20 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
2651	97	311	00:22:19.066	175EO6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,206,486	:89:0
2652	97	311	00:22:19.066	175EO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,486	:89:0
2653	97	311	00:22:19.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4800.60 +/- 1	2R5	4	1	4,206,486	:89:0
2654	97	311	00:22:20.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4800.66 +/- 1	2R5	4	1	4,206,486	:90:8
2655	97	311	00:22:20.400	117EO11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,206,487	:00:0
2656	**97**	**311**	**00:22:24.400**	**11JNBRG02001-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2657	**97**	**311**	**00:23:25.066**	**11JNRTBRG_03-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2658	**97**	**311**	**00:24:17.066**	**125KX4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R5**	**4**	**1**	**4,206,488**	**:84:0**
2659	97	311	00:24:17.066	125KX	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	4,206,488	:84:0
2660	**97**	**311**	**00:25:17.733**	**125KX4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R5**	**4**	**1**	**4,206,489**	**:84:0**
2661	97	311	00:25:17.733	125KX11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	4,206,489	:84:0
2662	97	311	00:25:21.733	165KM4A	7SCAN	NORM,338.725998,	Check S/P Position	2R5	4	1	4,206,489	:90:0
2663	**97**	**311**	**00:26:18.400**	**127KX4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,206,490**	**:84:0**
2664	97	311	00:26:18.400	127KX	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,206,490	:84:0
2665	**97**	**311**	**00:26:19.066**	**127KX4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,206,490**	**:85:0**
2666	97	311	00:26:27.066	127KX11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,206,491	:06:0
2667	97	311	00:26:43.066	432EE6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	4,206,491	:30:0
2668	97	311	00:27:14.400	117KM	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,206,491	:77:0
2669	97	311	00:27:23.733	117KM105A106A4A	7STRP	0.014401,0.0,0,0	Slew =,0.03	2R3	4	0	4,206,492	:00:0
2670	**97**	**311**	**00:31:45.066**	**432EF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,206,496**	**:28:0**
2671	97	311	00:33:23.066	125LC	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,206,497	:84:0
2672	**97**	**311**	**00:33:23.066**	**125LC4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**4,206,497**	**:84:0**
2673	97	311	00:33:23.066	125LC11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,206,497	:84:0
2674	**97**	**311**	**00:33:31.733**	**11JNRTBRG_03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2675	97	311	00:35:29.066	117KM11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,206,500	:00:0
2676	**97**	**311**	**00:44:39.066**	**11JNBRG02002-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2677	97	311	00:45:31.066	127EP	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,206,509	:84:0
2678	**97**	**311**	**00:45:31.066**	**127EP4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,206,509**	**:84:0**
2679	**97**	**311**	**00:45:31.733**	**127EP4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,206,509**	**:85:0**
2680	97	311	00:45:35.066	165EP4A	7SCAN	NORM,340.656998,	Check S/P Position	2R5	4	1	4,206,509	:90:0
2681	97	311	00:45:39.733	127EP11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	4,206,510	:06:0
2682	97	311	00:46:25.066	175EP422A6A	6DMSC	R7,3	DMS Control	2R5	4	1	4,206,510	:74:0
2683	97	311	00:46:25.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 4800.66 +/- 1	2R5	4	1	4,206,510	:74:0
2684	97	311	00:46:27.066	117EP	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,206,510	:77:0
2685	97	311	00:46:31.733		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4800.66 +/- 1	2R5	4	1	4,206,510	:84:0
2686	97	311	00:46:33.066	175EP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,206,510	:86:0
2687	97	311	00:46:33.133		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4800.78 +/- 1	2R5	4	1	4,206,510	:86:1
2688	97	311	00:46:33.133		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4800.78 +/- 1	2R5	4	1	4,206,510	:86:1
2689	97	311	00:46:36.400	117EP105A106A4A	7STRP	0.046534,0.0,0,0	Slew =,0.11	2R5	4	1	4,206,511	:00:0
2690	**97**	**311**	**00:46:37.066**	**11JNBRG02002-**	**NIMPBK**	**301ED**	**BROWN BARGE OBS 20 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
2691	**97**	**311**	**00:51:04.400**	**11JNBRG02002-**	**DESELC**	**300ED**	**BROWN BARGE OBS 20 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
2692	97	311	00:53:18.400	175EP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,517	:57:0
2693	97	311	00:53:18.400	175EP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,206,517	:57:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2694	97	311	00:53:18.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4895.77 +/- 1	2R5	4	1	4,206,517:57:0	
2695	97	311	00:53:19.600		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4895.83 +/- 1	2R5	4	1	4,206,517:58:8	
2696	97	311	00:53:41.066	117EP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,206,518:00:0	
2697	**97**	**311**	**00:53:45.066**	**11JNBRG02002-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2698	97	311	00:57:13.066	165II4A	7SCAN	NORM,329.870998,	Check S/P Position	2R5	4	1	4,206,521:45:0	
2699	97	311	01:00:35.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 4895.83 +/- 1	2R5	4	1	4,206,524:76:0	
2700	97	311	01:00:35.733	175II422A6A	6DMSC	R806,3	DMS Control	2R5	4	1	4,206,524:76:0	
2701	97	311	01:00:42.400		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 4895.83 +/- 1	2R5	4	1	4,206,524:86:0	
2702	97	311	01:00:47.066	175II176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R5	4	1	4,206,525:02:0	
2703	97	311	01:00:47.666		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *4961.83 +/- 1	2R5	4	1	4,206,525:02:9	
2704	97	311	01:00:47.666		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 4961.83 +/- 1	2R5	4	1	4,206,525:02:9	
2705	97	311	01:00:49.733		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *5012.69 +/- 1	2R5	4	1	4,206,525:06:0	
2706	97	311	01:00:49.733	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,525:06:0	
2707	97	311	01:00:52.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5024.19 +/- 1	2R5	4	1	4,206,525:10:1	
2708	**97**	**311**	**01:01:50.399**	**11JNTHRMNS01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2709	97	311	01:02:46.400	165EQ4A	7SCAN	NORM,334.838997,	Check S/P Position	2R5	4	1	4,206,526:90:0	
2710	97	311	01:04:43.733	125EQ	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	4,206,528:84:0	
2711	**97**	**311**	**01:04:43.733**	**125EQ4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R5**	**4**	**1**	**4,206,528:84:0**	
2712	97	311	01:04:43.733	125EQ11A	NIMSINIT	GE	##### GROUP END INIT	4R5	4	1	4,206,528:84:0	
2713	97	311	01:05:44.400	127EQ	NIMSTAB	GS	%%%%% GROUP START TAB	4R5	4	1	4,206,529:84:0	
2714	**97**	**311**	**01:05:44.400**	**127EQ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,206,529:84:0**	
2715	**97**	**311**	**01:05:45.066**	**127EQ4B**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,206,529:85:0**	
2716	97	311	01:05:53.066	127EQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,206,530:06:0	
2717	97	311	01:06:38.400	175EQ422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	4,206,530:74:0	
2718	97	311	01:06:38.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5024.19 +/- 1	4R3	4	0	4,206,530:74:0	
2719	97	311	01:06:40.400	117EQ	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,206,530:77:0	
2720	97	311	01:06:45.066		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5024.19 +/- 1	4R3	4	0	4,206,530:84:0	
2721	97	311	01:06:46.400	175EQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,206,530:86:0	
2722	97	311	01:06:46.466		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5024.31 +/- 1	4R3	4	0	4,206,530:86:1	
2723	97	311	01:06:46.466		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5024.31 +/- 1	4R3	4	0	4,206,530:86:1	
2724	97	311	01:06:49.733	117EQ105A106A4A	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,531:00:0	
2725	**97**	**311**	**01:06:49.733**	**11JNTHRMNS01-**	**NIMPBK**	**301EE**	**JUPITER THERMAL NORTH-SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
2726	97	311	01:08:20.400	117EQ105A106A4B	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,532:45:0	
2727	97	311	01:08:31.066	117EQ105A106A4C	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,532:61:0	
2728	97	311	01:10:01.733	117EQ105A106A4D	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,534:15:0	
2729	97	311	01:10:12.400	117EQ105A106A4E	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,534:31:0	
2730	97	311	01:11:43.066	117EQ105A106A4F	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,535:76:0	
2731	97	311	01:11:53.733	117EQ105A106A4G	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,536:01:0	
2732	97	311	01:13:24.400	117EQ105A106A4H	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,537:46:0	
2733	97	311	01:13:35.066	117EQ105A106A4I	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,537:62:0	
2734	97	311	01:15:05.733	117EQ105A106A4J	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,539:16:0	
2735	97	311	01:15:16.400	117EQ105A106A4K	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,539:32:0	
2736	97	311	01:16:47.066	117EQ105A106A4L	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,540:77:0	
2737	97	311	01:16:57.733	117EQ105A106A4M	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,541:02:0	
2738	97	311	01:18:28.400	117EQ105A106A4N	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,542:47:0	
2739	97	311	01:18:39.066	117EQ105A106A4O	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,542:63:0	
2740	97	311	01:20:09.733	117EQ105A106A4P	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,544:17:0	
2741	97	311	01:20:20.400	117EQ105A106A4Q	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,544:33:0	
2742	97	311	01:21:51.066	117EQ105A106A4R	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,545:78:0	
2743	97	311	01:22:01.733	117EQ105A106A4S	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,546:03:0	
2744	97	311	01:23:32.400	117EQ105A106A4T	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,547:48:0	
2745	97	311	01:23:43.066	117EQ105A106A4U	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,547:64:0	
2746	97	311	01:25:13.733	117EQ105A106A4V	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,549:18:0	
2747	97	311	01:25:24.400	117EQ105A106A4W	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,549:34:0	
2748	97	311	01:26:55.066	117EQ105A106A4X	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,550:79:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2749	**97**	**311**	**01:26:55.066**	**11JNTHRMNS01-**	**DESELC**	**300EE**	**JUPITER THERMAL NORTH-SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
2750	**97**	**311**	**01:26:57.066**	**11JNTHRMNS01-**	**NIMPBK**	**301FU**	**JUPITER THERMAL NORTH-SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
2751	97	311	01:27:05.733	117EQ105A106A4Y	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,551:04:0	
2752	97	311	01:28:36.400	117EQ105A106A4Z	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,552:49:0	
2753	97	311	01:28:47.066	117EQ105A106A4AA	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,552:65:0	
2754	97	311	01:30:17.733	117EQ105A106A4AB	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,554:19:0	
2755	97	311	01:30:28.400	117EQ105A106A4AC	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,554:35:0	
2756	97	311	01:31:59.066	117EQ105A106A4AD	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,555:80:0	
2757	97	311	01:32:09.733	117EQ105A106A4AE	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,556:05:0	
2758	97	311	01:33:40.400	117EQ105A106A4AF	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,557:50:0	
2759	97	311	01:33:51.066	117EQ105A106A4AG	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,557:66:0	
2760	97	311	01:35:21.733	117EQ105A106A4AH	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,559:20:0	
2761	97	311	01:35:27.733	488DC6E	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4R3	4	0	4,206,559:29:0	
2762	97	311	01:35:32.400	117EQ105A106A4AI	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,559:36:0	
2763	97	311	01:37:03.066	117EQ105A106A4AJ	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,560:81:0	
2764	97	311	01:37:13.733	117EQ105A106A4AK	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,561:06:0	
2765	97	311	01:38:44.400	117EQ105A106A4AL	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,562:51:0	
2766	97	311	01:38:55.066	117EQ105A106A4AM	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,562:67:0	
2767	97	311	01:40:25.733	117EQ105A106A4AN	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,564:21:0	
2768	97	311	01:40:36.400	117EQ105A106A4AO	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,564:37:0	
2769	97	311	01:42:07.066	117EQ105A106A4AP	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,565:82:0	
2770	97	311	01:42:17.733	117EQ105A106A4AQ	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,566:07:0	
2771	97	311	01:43:48.400	117EQ105A106A4AR	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,567:52:0	
2772	97	311	01:43:59.066	117EQ105A106A4AS	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,567:68:0	
2773	97	311	01:45:29.733	117EQ105A106A4AT	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,569:22:0	
2774	97	311	01:45:40.400	117EQ105A106A4AU	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,569:38:0	
2775	97	311	01:47:11.066	117EQ105A106A4AV	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,570:83:0	
2776	97	311	01:47:21.733	117EQ105A106A4AW	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,571:08:0	
2777	97	311	01:48:52.400	117EQ105A106A4AX	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,572:53:0	
2778	97	311	01:49:03.066	117EQ105A106A4AY	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,572:69:0	
2779	97	311	01:50:33.733	117EQ105A106A4AZ	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,574:23:0	
2780	97	311	01:50:44.400	117EQ105A106A4BA	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,574:39:0	
2781	97	311	01:52:15.066	117EQ105A106A4BB	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,575:84:0	
2782	97	311	01:52:25.733	117EQ105A106A4BC	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,576:09:0	
2783	**97**	**311**	**01:52:59.066**	**11JNTHRMNS01-**	**DESELC**	**300FU**	**JUPITER THERMAL NORTH-SOUTH STRI**	**4R3**	**4**	**0**	**: :**	
2784	97	311	01:53:01.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5674.60 +/- 1	4R3	4	0	4,206,576:62:0	
2785	97	311	01:53:01.066	175EQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,206,576:62:0	
2786	97	311	01:53:01.066	175EQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,576:62:0	
2787	97	311	01:53:02.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5674.66 +/- 1	4R3	4	0	4,206,576:63:8	
2788	97	311	01:53:56.400	117EQ105A106A4BD	7STRP	-0.0018,0.008001	Slew =12.01	4R3	4	0	4,206,577:54:0	
2789	97	311	01:54:07.066	117EQ105A106A4BE	7STRP	0.002,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,206,577:70:0	
2790	97	311	01:55:37.733	117EQ11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,206,579:24:0	
2791	**97**	**311**	**01:57:27.066**	**11JNTHRMNS01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
2792	**97**	**311**	**01:58:27.732**	**11JNBRGSUB01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
2793	97	311	01:59:23.733	165ER4A	7SCAN	NORM,345.862,-3.	Check S/P Position	4R3	4	0	4,206,582:90:0	
2794	97	311	02:02:21.733	127ER	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,206,585:84:0	
2795	**97**	**311**	**02:02:22.400**	**127ER4A**	**37ETB**		**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,206,585:85:0**	
2796	97	311	02:02:30.400	127ER11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,206,586:06:0	
2797	97	311	02:03:15.733	175ER422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	4,206,586:74:0	
2798	97	311	02:03:15.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5674.66 +/- 1	4R3	4	0	4,206,586:74:0	
2799	97	311	02:03:17.733	117ER	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,206,586:77:0	
2800	97	311	02:03:22.400		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5674.66 +/- 1	4R3	4	0	4,206,586:84:0	
2801	97	311	02:03:23.733	175ER176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,206,586:86:0	
2802	97	311	02:03:23.800		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5674.78 +/- 1	4R3	4	0	4,206,586:86:1	
2803	97	311	02:03:23.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5674.78 +/- 1	4R3	4	0	4,206,586:86:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
2804	97	311	02:03:27.066	117ER105A106A4A	7STRP	0.043628,0.0,0,0	Slew =,0.03	4R3	4	0	4,206,587:00:0
2805	97	311	02:23:29.066	175ER422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,606:74:0
2806	97	311	02:23:29.066	175ER6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,206,606:74:0
2807	97	311	02:23:29.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5957.27 +/- 1	4R3	4	0	4,206,606:74:0
2808	97	311	02:23:30.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5957.33 +/- 1	4R3	4	0	4,206,606:75:8
2809	97	311	02:27:43.066	117ER11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,206,611:00:0
2810	**97**	**311**	**02:27:47.066**	**11HNDARK__03-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2811	**97**	**311**	**02:27:47.066**	**11JNBRGSUB01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
2812	97	311	02:28:43.066	165EX4A	7SCAN	NORM,218.969,-22	Check S/P Position	4R3	4	0	4,206,611:90:0
2813	97	311	02:31:41.066	127EX	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,206,614:84:0
2814	**97**	**311**	**02:31:41.733**	**127EX4A**	**37ETB**	**0A,CA,1D,FF,FF,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,206,614:85:0**
2815	97	311	02:31:49.733	127EX11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,206,615:06:0
2816	97	311	02:32:35.066	175EX422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	4,206,615:74:0
2817	97	311	02:32:35.066		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5957.33 +/- 1	4R3	4	0	4,206,615:74:0
2818	97	311	02:32:37.066	117EX	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,206,615:77:0
2819	97	311	02:32:41.733		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5957.33 +/- 1	4R3	4	0	4,206,615:84:0
2820	97	311	02:32:43.066	175EX176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,206,615:86:0
2821	97	311	02:32:43.133		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5957.45 +/- 1	4R3	4	0	4,206,615:86:1
2822	97	311	02:32:43.133		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5957.45 +/- 1	4R3	4	0	4,206,615:86:1
2823	97	311	02:32:46.400	117EX105A106A4A	7STRP	0.0064,0.0,0,0,0	Slew =,0.11	4R3	4	0	4,206,616:00:0
2824	**97**	**311**	**02:32:46.400**	**11HNDARK__03-**	**NIMPBK**	**301EG**	**NIMS DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**
2825	97	311	02:33:47.066	117EX11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,206,617:00:0
2826	**97**	**311**	**02:33:47.066**	**11HNDARK__03-**	**DESELC**	**300EG**	**NIMS DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**
2827	97	311	02:33:49.066	175EX6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,206,617:03:0
2828	97	311	02:33:49.066	175EX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,617:03:0
2829	97	311	02:33:49.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5972.90 +/- 1	4R3	4	0	4,206,617:03:0
2830	97	311	02:33:50.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5972.96 +/- 1	4R3	4	0	4,206,617:04:8
2831	**97**	**311**	**02:33:51.066**	**11HNDARK__03-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
2832	97	311	02:35:48.400		DMS:	: READY	RDY, TRACK *4, *REV, TIC 5972.96 +/- 1	4R3	4	0	4,206,619:00:0
2833	97	311	02:35:48.400	465KF6A	6DMSC	RDY,4	DMS Control Tape stop	4R3	4	0	4,206,619:00:0
2834	97	311	02:40:21.066	165IJ4A	7SCAN	NORM,353.063,-2.	Check S/P Position	4R3	4	0	4,206,623:45:0
2835	97	311	02:42:03.066	488DD6A	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	4R3	4	0	4,206,625:16:0
2836	97	311	02:43:42.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5972.96 +/- 1	4R3	4	0	4,206,626:74:0
2837	97	311	02:43:42.400	175IJ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4R3	4	0	4,206,626:74:0
2838	97	311	02:43:43.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5973.08 +/- 1	4R3	4	0	4,206,626:76:1
2839	97	311	02:43:49.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5974.32 +/- 1	4R3	4	0	4,206,626:84:0
2840	97	311	02:43:50.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5974.38 +/- 1	4R3	4	0	4,206,626:85:8
2841	97	311	02:43:55.066	175IJ176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,206,627:02:0
2842	97	311	02:43:55.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 5908.38 +/- 2	4R3	4	0	4,206,627:02:7
2843	97	311	02:43:55.533		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *5908.38 +/- 1	4R3	4	0	4,206,627:02:7
2844	**97**	**311**	**02:43:57.732**	**11JNBRGFUL01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
2845	97	311	02:43:57.733	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,206,627:06:0
2846	97	311	02:43:57.733		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *5854.24 +/- 2	4R3	4	0	4,206,627:06:0
2847	97	311	02:44:00.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5842.74 +/- 2	4R3	4	0	4,206,627:10:1
2848	97	311	02:44:53.733	165ES4A	7SCAN	NORM,347.537998,	Check S/P Position	4R3	4	0	4,206,627:90:0
2849	97	311	02:45:51.733	488DD6B	6TMSED	FILL,EL7	Sci, Eng, and D/L Chan	4R3	4	0	4,206,628:86:0
2850	97	311	02:46:51.066	125ES	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,206,629:84:0
2851	**97**	**311**	**02:46:51.066**	**125ES4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,206,629:84:0**
2852	97	311	02:46:51.066	125ES11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,206,629:84:0
2853	97	311	02:47:51.733	127ES	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,206,630:84:0
2854	**97**	**311**	**02:47:52.400**	**127ES4A**	**37ETB**	**0A,CA,1B,BD,87,1**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,206,630:85:0**
2855	97	311	02:48:00.400	127ES11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,206,631:06:0
2856	97	311	02:48:45.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5842.74 +/- 2	2R3	4	0	4,206,631:73:0
2857	97	311	02:48:45.066	175ES422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,206,631:73:0
2858	97	311	02:48:46.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5842.86 +/- 2	2R3	4	0	4,206,631:75:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2859	97	311	02:48:47.733	117ES	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,206,631:77:0	
2860	97	311	02:48:51.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5844.09 +/- 2	2R3	4	0	4,206,631:83:0	
2861	97	311	02:48:52.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5844.15 +/- 2	2R3	4	0	4,206,631:84:8	
2862	97	311	02:48:53.733	175ES176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	4,206,631:86:0	
2863	97	311	02:48:54.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5844.03 +/- 2	2R3	4	0	4,206,631:86:9	
2864	97	311	02:48:54.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5844.03 +/- 2	2R3	4	0	4,206,631:86:9	
2865	**97**	**311**	**02:48:57.066**	**11JNBRGFUL01-**	**NIMPBK**	**301EH**	**BROWN BARGE OBS**	**2R3**	**4**	**0**	**: :**	
2866	97	311	02:48:57.066	117ES105A106A4A	7STRP	0.043628,0.0,0,0	Slew =,0.03	2R3	4	0	4,206,632:00:0	
2867	**97**	**311**	**02:51:30.400**	**11JNBRGFUL01-**	**DESELC**	**300EH**	**BROWN BARGE OBS**	**2R3**	**4**	**0**	**: :**	
2868	**97**	**311**	**02:56:37.733**	**11JNBRGFUL01-**	**NIMPBK**	**301FL**	**BROWN BARGE OBS**	**2R3**	**4**	**0**	**: :**	
2869	**97**	**311**	**03:01:13.066**	**11JNBRGFUL01-**	**DESELC**	**300FL**	**BROWN BARGE OBS**	**2R3**	**4**	**0**	**: :**	
2870	**97**	**311**	**03:06:26.400**	**11JNBRGFUL01-**	**NIMPBK**	**301FM**	**BROWN BARGE OBS**	**2R3**	**4**	**0**	**: :**	
2871	**97**	**311**	**03:08:59.066**	**11JNBRGFUL01-**	**DESELC**	**300FM**	**BROWN BARGE OBS**	**2R3**	**4**	**0**	**: :**	
2872	97	311	03:09:09.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5559.33 +/- 2	2R3	4	0	4,206,651:89:0	
2873	97	311	03:09:09.066	175ES6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,206,651:89:0	
2874	97	311	03:09:09.066	175ES422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,651:89:0	
2875	97	311	03:09:10.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5559.27 +/- 2	2R3	4	0	4,206,651:90:8	
2876	97	311	03:12:59.066	488DD6C	6TMSED	NORM,EL7	Sci, Eng, and D/L Chan	2R3	4	0	4,206,655:70:0	
2877	97	311	03:13:13.066	117ES11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,206,656:00:0	
2878	**97**	**311**	**03:13:17.066**	**11JNBRGFUL01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
2879	**97**	**311**	**03:31:29.066**	**11JNBRG02003-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
2880	97	311	03:32:25.066	165ET4A	7SCAN	NORM,349.067997,	Check S/P Position	2R3	4	0	4,206,674:90:0	
2881	97	311	03:34:22.400	125ET11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,206,676:84:0	
2882	**97**	**311**	**03:34:22.400**	**125ET4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,206,676:84:0**	
2883	97	311	03:34:22.400	125ET	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,206,676:84:0	
2884	**97**	**311**	**03:35:23.066**	**127ET4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,206,677:84:0**	
2885	97	311	03:35:23.066	127ET	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	4,206,677:84:0	
2886	**97**	**311**	**03:35:23.733**	**127ET4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,206,677:85:0**	
2887	97	311	03:35:31.733	127ET11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	4,206,678:06:0	
2888	97	311	03:36:16.400	175ET422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,678:73:0	
2889	97	311	03:36:16.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5559.27 +/- 2	2R5	4	1	4,206,678:73:0	
2890	97	311	03:36:17.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5559.39 +/- 2	2R5	4	1	4,206,678:75:1	
2891	97	311	03:36:19.066	117ET	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,206,678:77:0	
2892	97	311	03:36:23.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5560.62 +/- 2	2R5	4	1	4,206,678:83:0	
2893	97	311	03:36:24.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5560.68 +/- 2	2R5	4	1	4,206,678:84:8	
2894	97	311	03:36:25.066	175ET176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,206,678:86:0	
2895	97	311	03:36:25.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5560.56 +/- 2	2R5	4	1	4,206,678:86:9	
2896	97	311	03:36:25.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5560.56 +/- 2	2R5	4	1	4,206,678:86:9	
2897	97	311	03:36:28.400	117ET105A106A4A	7STRP	0.046534,0.0,0,0	Slew =,0.11	2R5	4	1	4,206,679:00:0	
2898	**97**	**311**	**03:36:28.400**	**11JNBRG02003-**	**NIMPBK**	**301EI**	**BROWN BARGE OBS 20 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
2899	**97**	**311**	**03:41:28.400**	**11JNBRG02003-**	**DESELC**	**300EI**	**BROWN BARGE OBS 20 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
2900	97	311	03:41:30.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5489.14 +/- 2	2R5	4	1	4,206,683:89:0	
2901	97	311	03:41:30.400	175ET422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,683:89:0	
2902	97	311	03:41:30.400	175ET6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,206,683:89:0	
2903	97	311	03:41:31.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5489.08 +/- 2	2R5	4	1	4,206,683:90:8	
2904	97	311	03:43:33.066	117ET11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,206,686:00:0	
2905	**97**	**311**	**03:43:37.066**	**11JNBRG02003-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2906	97	311	03:45:03.733	165IK4A	7SCAN	NORM,12.101,6.72	Check S/P Position	2R5	4	1	4,206,687:45:0	
2907	97	311	03:47:24.400	175IK422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R5	4	1	4,206,689:74:0	
2908	97	311	03:47:24.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5489.08 +/- 2	2R5	4	1	4,206,689:74:0	
2909	97	311	03:47:25.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5489.20 +/- 2	2R5	4	1	4,206,689:76:1	
2910	97	311	03:47:31.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5490.43 +/- 2	2R5	4	1	4,206,689:84:0	
2911	97	311	03:47:32.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5490.49 +/- 2	2R5	4	1	4,206,689:85:8	
2912	97	311	03:47:37.066	175IK176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R5	4	1	4,206,690:02:0	
2913	97	311	03:47:37.533		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *5424.49 +/- 2	2R5	4	1	4,206,690:02:7	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2914	97	311	03:47:37.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 5424.49 +/- 2	2R5	4	1	4,206,690:02:7	
2915	97	311	03:47:41.733		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *5321.13 +/- 2	2R5	4	1	4,206,690:09:0	
2916	97	311	03:47:41.733	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,690:09:0	
2917	97	311	03:47:44.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5309.63 +/- 2	2R5	4	1	4,206,690:13:1	
2918	**97**	**311**	**04:22:02.399**	**11JNBRG02004-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
2919	97	311	04:22:58.400	165EU4A	7SCAN	NORM,351.787998,	Check S/P Position	2R5	4	1	4,206,724:90:0	
2920	97	311	04:26:49.733	175EU422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,728:73:0	
2921	97	311	04:26:49.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5309.63 +/- 2	2R5	4	1	4,206,728:73:0	
2922	97	311	04:26:51.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5309.75 +/- 2	2R5	4	1	4,206,728:75:1	
2923	97	311	04:26:52.400	117EU	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,206,728:77:0	
2924	97	311	04:26:56.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5310.99 +/- 2	2R5	4	1	4,206,728:83:0	
2925	97	311	04:26:57.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5311.05 +/- 2	2R5	4	1	4,206,728:84:8	
2926	97	311	04:26:58.400	175EU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,206,728:86:0	
2927	97	311	04:26:59.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5310.93 +/- 2	2R5	4	1	4,206,728:86:9	
2928	97	311	04:26:59.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 5310.93 +/- 2	2R5	4	1	4,206,728:86:9	
2929	97	311	04:27:01.733	117EU105A106A4A	7STRP	0.033212,0.0,0,0	Slew =,0.11	2R5	4	1	4,206,729:00:0	
2930	**97**	**311**	**04:27:02.400**	**11JNBRG02004-**	**NIMPBK**	**301EJ**	**BROWN BARGE OBS 20 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
2931	**97**	**311**	**04:32:01.733**	**11JNBRG02004-**	**DESELC**	**300EJ**	**BROWN BARGE OBS 20 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
2932	97	311	04:32:03.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5239.51 +/- 2	2R5	4	1	4,206,733:89:0	
2933	97	311	04:32:03.733	175EU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,733:89:0	
2934	97	311	04:32:03.733	175EU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,206,733:89:0	
2935	97	311	04:32:04.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5239.45 +/- 2	2R5	4	1	4,206,733:90:8	
2936	97	311	04:32:05.066	117EU11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,206,734:00:0	
2937	**97**	**311**	**04:32:09.066**	**11JNBRG02004-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
2938	97	311	04:33:05.066	165CO4A	7SCAN	NORM,326.607998,	Check S/P Position	2R5	4	1	4,206,734:90:0	
2939	97	311	04:37:07.066	165CO4B	7VECT		Inert vect update UTC	2R5	4	1	4,206,738:89:0	
2940	97	311	04:51:43.733	488DD6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R5	4	1	4,206,753:39:0	
2941	97	311	04:59:59.733	481UE4A	7VECT	BB1	Inert vect update UTC	2R5	4	1	4,206,761:55:0	
2942	97	311	05:27:59.733	488DD6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R5	4	1	4,206,789:27:0	
2943	97	311	05:49:25.733	165IL4A	7SCAN	NORM,357.743999,	Check S/P Position	2R5	4	1	4,206,810:45:0	
2944	97	311	05:52:47.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5239.45 +/- 2	2R5	4	1	4,206,813:74:0	
2945	97	311	05:52:47.066	175IL422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R5	4	1	4,206,813:74:0	
2946	97	311	05:52:48.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5239.57 +/- 2	2R5	4	1	4,206,813:76:1	
2947	97	311	05:52:53.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5240.80 +/- 2	2R5	4	1	4,206,813:84:0	
2948	97	311	05:52:54.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5240.86 +/- 2	2R5	4	1	4,206,813:85:8	
2949	97	311	05:52:59.733	175IL176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R5	4	1	4,206,814:02:0	
2950	97	311	05:53:00.200		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *5174.86 +/- 2	2R5	4	1	4,206,814:02:7	
2951	97	311	05:53:00.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 5174.86 +/- 3	2R5	4	1	4,206,814:02:7	
2952	97	311	05:53:02.400		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *5120.72 +/- 3	2R5	4	1	4,206,814:06:0	
2953	97	311	05:53:02.400	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,814:06:0	
2954	97	311	05:53:05.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5109.22 +/- 3	2R5	4	1	4,206,814:10:1	
2955	97	311	05:53:58.400	165GE4A	7SCAN	NORM,0.719,2.896	Check S/P Position	2R5	4	1	4,206,814:90:0	
2956	97	311	05:56:00.400	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	4,206,817:00:0	
2957	97	311	05:56:51.733	117GE	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,206,817:77:0	
2958	97	311	05:57:01.066	117GE105A106A4A	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,818:00:0	
2959	97	311	05:57:24.400	117GE105A106A4B	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,818:35:0	
2960	97	311	05:57:41.066	117GE105A106A4C	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,818:60:0	
2961	97	311	05:58:04.400	117GE105A106A4D	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,819:04:0	
2962	97	311	05:58:21.066	117GE105A106A4E	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,819:29:0	
2963	97	311	05:58:44.400	117GE105A106A4F	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,819:64:0	
2964	97	311	05:59:01.066	117GE105A106A4G	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,819:89:0	
2965	97	311	05:59:24.400	117GE105A106A4H	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,820:33:0	
2966	97	311	05:59:41.066	117GE105A106A4I	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,820:58:0	
2967	97	311	06:00:04.400	117GE105A106A4J	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,821:02:0	
2968	97	311	06:00:21.066	117GE105A106A4K	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,821:27:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2969	97	311	06:00:44.400	117GE105A106A4L	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,821:62:0	
2970	97	311	06:01:01.066	117GE105A106A4M	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,821:87:0	
2971	97	311	06:01:24.400	117GE105A106A4N	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,822:31:0	
2972	97	311	06:01:41.066	117GE105A106A4O	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,822:56:0	
2973	97	311	06:02:04.400	117GE105A106A4P	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,823:00:0	
2974	97	311	06:02:21.066	117GE105A106A4Q	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,823:25:0	
2975	97	311	06:02:44.400	117GE105A106A4R	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,823:60:0	
2976	97	311	06:03:01.066	117GE105A106A4S	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,823:85:0	
2977	97	311	06:03:24.400	117GE105A106A4T	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,824:29:0	
2978	97	311	06:03:41.066	117GE105A106A4U	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,824:54:0	
2979	97	311	06:04:04.400	117GE105A106A4V	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,824:89:0	
2980	97	311	06:04:21.066	117GE105A106A4W	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,825:23:0	
2981	97	311	06:04:44.400	117GE105A106A4X	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,825:58:0	
2982	97	311	06:05:01.066	117GE105A106A4Y	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,825:83:0	
2983	97	311	06:05:24.400	117GE105A106A4Z	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,826:27:0	
2984	97	311	06:05:41.066	117GE105A106A4AA	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,826:52:0	
2985	97	311	06:06:04.400	117GE105A106A4AB	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,826:87:0	
2986	97	311	06:06:21.066	117GE105A106A4AC	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,827:21:0	
2987	97	311	06:06:44.400	117GE105A106A4AD	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,827:56:0	
2988	97	311	06:07:01.066	117GE105A106A4AE	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,827:81:0	
2989	97	311	06:07:24.400	117GE105A106A4AF	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,828:25:0	
2990	97	311	06:07:41.066	117GE105A106A4AG	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,828:50:0	
2991	97	311	06:08:04.400	117GE105A106A4AH	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,828:85:0	
2992	97	311	06:08:21.066	117GE105A106A4AI	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,829:19:0	
2993	97	311	06:08:44.400	117GE105A106A4AJ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,829:54:0	
2994	97	311	06:09:01.066	117GE105A106A4AK	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,829:79:0	
2995	97	311	06:09:24.400	117GE105A106A4AL	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,830:23:0	
2996	97	311	06:09:41.066	117GE105A106A4AM	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,830:48:0	
2997	97	311	06:09:54.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5109.22 +/- 3	2R5	4	1	4,206,830:68:0	
2998	97	311	06:09:54.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,830:68:0	
2999	97	311	06:09:55.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5109.34 +/- 3	2R5	4	1	4,206,830:70:1	
3000	97	311	06:10:01.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5110.58 +/- 3	2R5	4	1	4,206,830:78:0	
3001	97	311	06:10:02.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5110.64 +/- 3	2R5	4	1	4,206,830:79:8	
3002	97	311	06:10:03.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5110.52 +/- 3	2R5	4	1	4,206,830:81:9	
3003	97	311	06:10:04.400	117GE105A106A4AN	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,830:83:0	
3004	97	311	06:10:21.066	117GE105A106A4AO	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,831:17:0	
3005	97	311	06:10:22.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5106.12 +/- 3	2R5	4	1	4,206,831:19:0	
3006	97	311	06:10:44.400	117GE105A106A4AP	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,831:52:0	
3007	97	311	06:10:45.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,831:53:0	
3008	97	311	06:10:45.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5100.81 +/- 3	2R5	4	1	4,206,831:53:0	
3009	97	311	06:10:46.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5100.75 +/- 3	2R5	4	1	4,206,831:54:8	
3010	97	311	06:11:01.066	117GE105A106A4AQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,831:77:0	
3011	97	311	06:11:24.400	117GE105A106A4AR	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,832:21:0	
3012	97	311	06:11:41.066	117GE105A106A4AS	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,832:46:0	
3013	97	311	06:12:04.400	117GE105A106A4AT	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,832:81:0	
3014	97	311	06:12:21.066	117GE105A106A4AU	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,833:15:0	
3015	97	311	06:12:44.400	117GE105A106A4AV	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,833:50:0	
3016	97	311	06:13:01.066	117GE105A106A4AW	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,833:75:0	
3017	97	311	06:13:24.400	117GE105A106A4AX	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,834:19:0	
3018	97	311	06:13:41.066	117GE105A106A4AY	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,834:44:0	
3019	97	311	06:14:04.400	117GE105A106A4AZ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,834:79:0	
3020	97	311	06:14:21.066	117GE105A106A4BA	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,835:13:0	
3021	97	311	06:14:44.400	117GE105A106A4BB	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,835:48:0	
3022	97	311	06:15:01.066	117GE105A106A4BC	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,835:73:0	
3023	97	311	06:15:24.400	117GE105A106A4BD	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,836:17:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3024	97	311	06:15:41.066	117GE105A106A4BE	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,836	42:0
3025	97	311	06:16:04.400	117GE105A106A4BF	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,836	77:0
3026	97	311	06:16:21.066	117GE105A106A4BG	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,837	11:0
3027	97	311	06:16:44.400	117GE105A106A4BH	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,837	46:0
3028	97	311	06:17:01.066	117GE105A106A4BI	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,837	71:0
3029	97	311	06:17:24.400	117GE105A106A4BJ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,838	15:0
3030	97	311	06:17:41.066	117GE105A106A4BK	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,838	40:0
3031	97	311	06:18:04.400	117GE105A106A4BL	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,838	75:0
3032	97	311	06:18:21.066	117GE105A106A4BM	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,839	09:0
3033	97	311	06:18:44.400	117GE105A106A4BN	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,839	44:0
3034	97	311	06:19:01.066	117GE105A106A4BO	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,839	69:0
3035	97	311	06:19:24.400	117GE105A106A4BP	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,840	13:0
3036	97	311	06:19:41.066	117GE105A106A4BQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,840	38:0
3037	97	311	06:20:04.400	117GE105A106A4BR	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,840	73:0
3038	97	311	06:20:21.066	117GE105A106A4BS	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,841	07:0
3039	97	311	06:20:44.400	117GE105A106A4BT	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,841	42:0
3040	97	311	06:21:01.066	117GE105A106A4BU	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,841	67:0
3041	97	311	06:21:24.400	117GE105A106A4BV	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,842	11:0
3042	97	311	06:21:41.066	117GE105A106A4BW	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,842	36:0
3043	97	311	06:22:04.400	117GE105A106A4BX	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,842	71:0
3044	97	311	06:22:21.066	117GE105A106A4BY	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,843	05:0
3045	97	311	06:22:44.400	117GE105A106A4BZ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,843	40:0
3046	97	311	06:23:01.066	117GE105A106A4CA	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,843	65:0
3047	97	311	06:23:24.400	117GE105A106A4CB	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,844	09:0
3048	97	311	06:23:41.066	117GE105A106A4CC	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,844	34:0
3049	97	311	06:24:04.400	117GE105A106A4CD	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,844	69:0
3050	97	311	06:24:18.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5100.75 +/- 3	2R5	4	1	4,206,844	90:0
3051	97	311	06:24:18.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,844	90:0
3052	97	311	06:24:19.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5100.87 +/- 3	2R5	4	1	4,206,845	01:1
3053	97	311	06:24:21.066	117GE105A106A4CE	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,845	03:0
3054	97	311	06:24:25.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5102.11 +/- 3	2R5	4	1	4,206,845	09:0
3055	97	311	06:24:26.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5102.17 +/- 3	2R5	4	1	4,206,845	10:8
3056	97	311	06:24:27.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5102.05 +/- 3	2R5	4	1	4,206,845	12:9
3057	97	311	06:24:44.400	117GE105A106A4CF	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,845	38:0
3058	97	311	06:24:46.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5097.66 +/- 3	2R5	4	1	4,206,845	41:0
3059	97	311	06:25:01.066	117GE105A106A4CG	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,845	63:0
3060	97	311	06:25:09.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5092.34 +/- 3	2R5	4	1	4,206,845	75:0
3061	97	311	06:25:09.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,845	75:0
3062	97	311	06:25:10.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5092.28 +/- 3	2R5	4	1	4,206,845	76:8
3063	97	311	06:25:24.400	117GE105A106A4CH	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,846	07:0
3064	97	311	06:25:41.066	117GE105A106A4CI	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,846	32:0
3065	97	311	06:26:04.400	117GE105A106A4CJ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,846	67:0
3066	97	311	06:26:21.066	117GE105A106A4CK	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,847	01:0
3067	97	311	06:26:44.400	117GE105A106A4CL	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,847	36:0
3068	97	311	06:27:01.066	117GE105A106A4CM	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,847	61:0
3069	97	311	06:27:24.400	117GE105A106A4CN	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,848	05:0
3070	97	311	06:27:41.066	117GE105A106A4CO	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,848	30:0
3071	97	311	06:28:04.400	117GE105A106A4CP	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,848	65:0
3072	97	311	06:28:21.066	117GE105A106A4CQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,848	90:0
3073	97	311	06:28:44.400	117GE105A106A4CR	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,849	34:0
3074	97	311	06:29:01.066	117GE105A106A4CS	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,849	59:0
3075	97	311	06:29:24.400	117GE105A106A4CT	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,850	03:0
3076	97	311	06:29:41.066	117GE105A106A4CU	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,850	28:0
3077	97	311	06:29:51.733	488DE6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2R5	4	1	4,206,850	44:0
3078	97	311	06:30:04.400	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,206,850	63:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3079	97	311	06:30:04.400	117GE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,206,850	63:0
3080	97	311	06:30:06.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5092.28 +/- 3	2R5	4	1	4,206,850	66:0
3081	97	311	06:30:06.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,850	66:0
3082	97	311	06:30:07.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5092.40 +/- 3	2R5	4	1	4,206,850	68:1
3083	97	311	06:30:13.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5093.64 +/- 3	2R5	4	1	4,206,850	76:0
3084	97	311	06:30:14.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *5093.70 +/- 3	2R5	4	1	4,206,850	77:8
3085	97	311	06:30:15.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *5093.58 +/- 3	2R5	4	1	4,206,850	79:9
3086	97	311	06:30:16.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *5093.41 +/- 3	2R5	4	1	4,206,850	81:0
3087	97	311	06:30:30.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,851	11:0
3088	97	311	06:30:30.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *5090.12 +/- 3	2R5	4	1	4,206,851	11:0
3089	97	311	06:30:31.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5090.06 +/- 3	2R5	4	1	4,206,851	12:8
3090	97	311	06:33:55.066	165IM4A	7SCAN	NORM,357.264,-0.	Check S/P Position	2R5	4	1	4,206,854	45:0
3091	97	311	06:37:16.400	175IM422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R5	4	1	4,206,857	74:0
3092	97	311	06:37:16.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5090.06 +/- 3	2R5	4	1	4,206,857	74:0
3093	97	311	06:37:17.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5090.18 +/- 3	2R5	4	1	4,206,857	76:1
3094	97	311	06:37:23.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5091.42 +/- 3	2R5	4	1	4,206,857	84:0
3095	97	311	06:37:24.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5091.48 +/- 3	2R5	4	1	4,206,857	85:8
3096	97	311	06:37:29.066	175IM176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R5	4	1	4,206,858	02:0
3097	97	311	06:37:29.533		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *5025.48 +/- 3	2R5	4	1	4,206,858	02:7
3098	97	311	06:37:29.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 5025.48 +/- 3	2R5	4	1	4,206,858	02:7
3099	97	311	06:37:31.733		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *4971.34 +/- 3	2R5	4	1	4,206,858	06:0
3100	97	311	06:37:31.733	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,858	06:0
3101	97	311	06:37:34.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4959.84 +/- 3	2R5	4	1	4,206,858	10:1
3102	97	311	06:38:27.733	165GL4A	7SCAN	NORM,4.752,4.767	Check S/P Position	2R5	4	1	4,206,858	90:0
3103	97	311	06:39:29.066	176GL6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R5	4	1	4,206,860	00:0
3104	97	311	06:40:20.400	117GL	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,206,860	77:0
3105	97	311	06:40:29.733	117GL105A106A4A	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,861	00:0
3106	97	311	06:40:53.066	117GL105A106A4B	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,861	35:0
3107	97	311	06:41:09.733	117GL105A106A4C	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,861	60:0
3108	97	311	06:41:33.066	117GL105A106A4D	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,862	04:0
3109	97	311	06:41:49.733	117GL105A106A4E	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,862	29:0
3110	97	311	06:42:13.066	117GL105A106A4F	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,862	64:0
3111	97	311	06:42:29.733	117GL105A106A4G	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,862	89:0
3112	97	311	06:42:53.066	117GL105A106A4H	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,863	33:0
3113	97	311	06:43:09.733	117GL105A106A4I	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,863	58:0
3114	97	311	06:43:33.066	117GL105A106A4J	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,864	02:0
3115	97	311	06:43:49.733	117GL105A106A4K	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,864	27:0
3116	97	311	06:44:13.066	117GL105A106A4L	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,864	62:0
3117	97	311	06:44:29.733	117GL105A106A4M	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,864	87:0
3118	97	311	06:44:53.066	117GL105A106A4N	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,865	31:0
3119	97	311	06:45:09.733	117GL105A106A4O	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,865	56:0
3120	97	311	06:45:33.066	117GL105A106A4P	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,866	00:0
3121	97	311	06:45:49.733	117GL105A106A4Q	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,866	25:0
3122	97	311	06:46:13.066	117GL105A106A4R	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,866	60:0
3123	97	311	06:46:29.733	117GL105A106A4S	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,866	85:0
3124	97	311	06:46:53.066	117GL105A106A4T	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,867	29:0
3125	97	311	06:47:09.733	117GL105A106A4U	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,867	54:0
3126	97	311	06:47:33.066	117GL105A106A4V	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,867	89:0
3127	97	311	06:47:49.733	117GL105A106A4W	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,868	23:0
3128	97	311	06:48:13.066	117GL105A106A4X	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,868	58:0
3129	97	311	06:48:29.733	117GL105A106A4Y	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,868	83:0
3130	97	311	06:48:53.066	117GL105A106A4Z	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,869	27:0
3131	97	311	06:49:09.733	117GL105A106A4AA	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,869	52:0
3132	97	311	06:49:33.066	117GL105A106A4AB	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,869	87:0
3133	97	311	06:49:49.733	117GL105A106A4AC	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,870	21:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3134	97	311	06:50:13.066	117GL105A106A4AD	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,870	56:0
3135	97	311	06:50:29.733	117GL105A106A4AE	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,870	81:0
3136	97	311	06:50:53.066	117GL105A106A4AF	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,871	25:0
3137	97	311	06:51:09.733	117GL105A106A4AG	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,871	50:0
3138	97	311	06:51:33.066	117GL105A106A4AH	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,871	85:0
3139	97	311	06:51:49.733	117GL105A106A4AI	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,872	19:0
3140	97	311	06:52:13.066	117GL105A106A4AJ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,872	54:0
3141	97	311	06:52:29.733	117GL105A106A4AK	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,872	79:0
3142	97	311	06:52:53.066	117GL105A106A4AL	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,873	23:0
3143	97	311	06:53:09.733	117GL105A106A4AM	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,873	48:0
3144	97	311	06:53:23.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4959.84 +/- 3	2R5	4	1	4,206,873	68:0
3145	97	311	06:53:23.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,873	68:0
3146	97	311	06:53:24.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4959.96 +/- 3	2R5	4	1	4,206,873	70:1
3147	97	311	06:53:29.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4961.19 +/- 3	2R5	4	1	4,206,873	78:0
3148	97	311	06:53:30.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4961.25 +/- 3	2R5	4	1	4,206,873	79:8
3149	97	311	06:53:32.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4961.13 +/- 3	2R5	4	1	4,206,873	81:9
3150	97	311	06:53:33.066	117GL105A106A4AN	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,873	83:0
3151	97	311	06:53:49.733	117GL105A106A4AO	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,874	17:0
3152	97	311	06:53:51.066		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4956.74 +/- 3	2R5	4	1	4,206,874	19:0
3153	97	311	06:54:13.066	117GL105A106A4AP	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,874	52:0
3154	97	311	06:54:13.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,874	53:0
3155	97	311	06:54:13.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4951.43 +/- 3	2R5	4	1	4,206,874	53:0
3156	97	311	06:54:14.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4951.37 +/- 3	2R5	4	1	4,206,874	54:8
3157	97	311	06:54:29.733	117GL105A106A4AQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,874	77:0
3158	97	311	06:54:53.066	117GL105A106A4AR	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,875	21:0
3159	97	311	06:55:09.733	117GL105A106A4AS	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,875	46:0
3160	97	311	06:55:33.066	117GL105A106A4AT	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,875	81:0
3161	97	311	06:55:49.733	117GL105A106A4AU	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,876	15:0
3162	97	311	06:56:13.066	117GL105A106A4AV	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,876	50:0
3163	97	311	06:56:29.733	117GL105A106A4AW	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,876	75:0
3164	97	311	06:56:53.066	117GL105A106A4AX	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,877	19:0
3165	97	311	06:57:09.733	117GL105A106A4AY	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,877	44:0
3166	97	311	06:57:33.066	117GL105A106A4AZ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,877	79:0
3167	97	311	06:57:49.733	117GL105A106A4BA	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,878	13:0
3168	97	311	06:58:13.066	117GL105A106A4BB	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,878	48:0
3169	97	311	06:58:29.733	117GL105A106A4BC	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,878	73:0
3170	97	311	06:58:53.066	117GL105A106A4BD	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,879	17:0
3171	97	311	06:59:09.733	117GL105A106A4BE	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,879	42:0
3172	97	311	06:59:33.066	117GL105A106A4BF	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,879	77:0
3173	97	311	06:59:49.733	117GL105A106A4BG	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,880	11:0
3174	97	311	07:00:13.066	117GL105A106A4BH	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,880	46:0
3175	97	311	07:00:29.733	117GL105A106A4BI	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,880	71:0
3176	97	311	07:00:53.066	117GL105A106A4BJ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,881	15:0
3177	97	311	07:01:09.733	117GL105A106A4BK	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,881	40:0
3178	97	311	07:01:33.066	117GL105A106A4BL	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,881	75:0
3179	97	311	07:01:49.733	117GL105A106A4BM	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,882	09:0
3180	97	311	07:02:13.066	117GL105A106A4BN	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,882	44:0
3181	97	311	07:02:29.733	117GL105A106A4BO	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,882	69:0
3182	97	311	07:02:53.066	117GL105A106A4BP	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,883	13:0
3183	97	311	07:03:09.733	117GL105A106A4BQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,883	38:0
3184	97	311	07:03:33.066	117GL105A106A4BR	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,883	73:0
3185	97	311	07:03:49.733	117GL105A106A4BS	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,884	07:0
3186	97	311	07:04:13.066	117GL105A106A4BT	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,884	42:0
3187	97	311	07:04:29.733	117GL105A106A4BU	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,884	67:0
3188	97	311	07:04:53.066	117GL105A106A4BV	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,885	11:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3189	97	311	07:05:09.733	117GL105A106A4BW	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,885	36:0
3190	97	311	07:05:33.066	117GL105A106A4BX	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,885	71:0
3191	97	311	07:05:49.733	117GL105A106A4BY	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,886	05:0
3192	97	311	07:06:13.066	117GL105A106A4BZ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,886	40:0
3193	97	311	07:06:29.733	117GL105A106A4CA	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,886	65:0
3194	97	311	07:06:53.066	117GL105A106A4CB	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,887	09:0
3195	97	311	07:07:09.733	117GL105A106A4CC	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,887	34:0
3196	97	311	07:07:33.066	117GL105A106A4CD	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,887	69:0
3197	97	311	07:07:47.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4951.37 +/- 3	2R5	4	1	4,206,887	90:0
3198	97	311	07:07:47.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,887	90:0
3199	97	311	07:07:48.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4951.49 +/- 3	2R5	4	1	4,206,888	01:1
3200	97	311	07:07:49.733	117GL105A106A4CE	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,888	03:0
3201	97	311	07:07:53.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4952.72 +/- 3	2R5	4	1	4,206,888	09:0
3202	97	311	07:07:54.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4952.78 +/- 3	2R5	4	1	4,206,888	10:8
3203	97	311	07:07:56.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4952.66 +/- 3	2R5	4	1	4,206,888	12:9
3204	97	311	07:08:13.066	117GL105A106A4CF	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,888	38:0
3205	97	311	07:08:15.066		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4948.27 +/- 3	2R5	4	1	4,206,888	41:0
3206	97	311	07:08:29.733	117GL105A106A4CG	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,888	63:0
3207	97	311	07:08:37.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,888	75:0
3208	97	311	07:08:37.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4942.96 +/- 3	2R5	4	1	4,206,888	75:0
3209	97	311	07:08:38.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4942.90 +/- 3	2R5	4	1	4,206,888	76:8
3210	97	311	07:08:53.066	117GL105A106A4CH	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,889	07:0
3211	97	311	07:09:09.733	117GL105A106A4CI	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,889	32:0
3212	97	311	07:09:33.066	117GL105A106A4CJ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,889	67:0
3213	97	311	07:09:49.733	117GL105A106A4CK	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,890	01:0
3214	97	311	07:10:13.066	117GL105A106A4CL	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,890	36:0
3215	97	311	07:10:29.733	117GL105A106A4CM	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,890	61:0
3216	97	311	07:10:53.066	117GL105A106A4CN	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,891	05:0
3217	97	311	07:11:09.733	117GL105A106A4CO	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,891	30:0
3218	97	311	07:11:33.066	117GL105A106A4CP	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,891	65:0
3219	97	311	07:11:49.733	117GL105A106A4CQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,891	90:0
3220	97	311	07:12:13.066	117GL105A106A4CR	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,892	34:0
3221	97	311	07:12:29.733	117GL105A106A4CS	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,892	59:0
3222	97	311	07:12:53.066	117GL105A106A4CT	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,893	03:0
3223	97	311	07:13:09.733	117GL105A106A4CU	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,893	28:0
3224	97	311	07:13:33.066	117GL105A106A4CV	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,893	63:0
3225	97	311	07:13:49.733	117GL105A106A4CW	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,893	88:0
3226	97	311	07:14:13.066	117GL105A106A4CX	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,894	32:0
3227	97	311	07:14:29.733	117GL105A106A4CY	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,894	57:0
3228	97	311	07:14:53.066	117GL105A106A4CZ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,895	01:0
3229	97	311	07:15:09.733	117GL105A106A4DA	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,895	26:0
3230	97	311	07:15:33.066	117GL105A106A4DB	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,895	61:0
3231	97	311	07:15:49.733	117GL105A106A4DC	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,895	86:0
3232	97	311	07:16:13.066	117GL105A106A4DD	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,896	30:0
3233	97	311	07:16:29.733	117GL105A106A4DE	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,896	55:0
3234	97	311	07:16:53.066	117GL105A106A4DF	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,896	90:0
3235	97	311	07:17:09.733	117GL105A106A4DG	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,897	24:0
3236	97	311	07:17:33.066	117GL105A106A4DH	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,897	59:0
3237	97	311	07:17:49.733	117GL105A106A4DI	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,897	84:0
3238	97	311	07:18:13.066	117GL105A106A4DJ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,898	28:0
3239	97	311	07:18:29.733	117GL105A106A4DK	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,898	53:0
3240	97	311	07:18:53.066	117GL105A106A4DL	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,898	88:0
3241	97	311	07:19:09.733	117GL105A106A4DM	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,899	22:0
3242	97	311	07:19:33.066	117GL105A106A4DN	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,899	57:0
3243	97	311	07:19:49.733	117GL105A106A4DO	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,899	82:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3244	97	311	07:20:13.066	117GL105A106A4DP	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,900	26:0
3245	97	311	07:20:29.733	117GL105A106A4DQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,900	51:0
3246	97	311	07:20:53.066	117GL105A106A4DR	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,900	86:0
3247	97	311	07:21:09.733	117GL105A106A4DS	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,901	20:0
3248	97	311	07:21:33.066	117GL105A106A4DT	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,901	55:0
3249	97	311	07:21:49.733	117GL105A106A4DU	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,901	80:0
3250	97	311	07:22:11.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4942.90 +/- 3	2R5	4	1	4,206,902	22:0
3251	97	311	07:22:11.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,902	22:0
3252	97	311	07:22:13.066	117GL105A106A4DV	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,902	24:0
3253	97	311	07:22:13.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4943.02 +/- 3	2R5	4	1	4,206,902	24:1
3254	97	311	07:22:18.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4944.26 +/- 3	2R5	4	1	4,206,902	32:0
3255	97	311	07:22:19.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4944.32 +/- 3	2R5	4	1	4,206,902	33:8
3256	97	311	07:22:21.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4944.20 +/- 3	2R5	4	1	4,206,902	35:9
3257	97	311	07:22:29.733	117GL105A106A4DW	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,902	49:0
3258	97	311	07:22:39.733		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4939.80 +/- 3	2R5	4	1	4,206,902	64:0
3259	97	311	07:22:53.066	117GL105A106A4DX	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,902	84:0
3260	97	311	07:23:02.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,903	07:0
3261	97	311	07:23:02.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4934.49 +/- 3	2R5	4	1	4,206,903	07:0
3262	97	311	07:23:03.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4934.43 +/- 3	2R5	4	1	4,206,903	08:8
3263	97	311	07:23:09.733	117GL105A106A4DY	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,903	18:0
3264	97	311	07:23:33.066	117GL105A106A4DZ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,903	53:0
3265	97	311	07:23:49.733	117GL105A106A4EA	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,903	78:0
3266	97	311	07:24:13.066	117GL105A106A4EB	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,904	22:0
3267	97	311	07:24:29.733	117GL105A106A4EC	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,904	47:0
3268	97	311	07:24:53.066	117GL105A106A4ED	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,904	82:0
3269	97	311	07:25:09.733	117GL105A106A4EE	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,905	16:0
3270	97	311	07:25:33.066	117GL105A106A4EF	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,905	51:0
3271	97	311	07:25:49.733	117GL105A106A4EG	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,905	76:0
3272	97	311	07:26:13.066	117GL105A106A4EH	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,906	20:0
3273	97	311	07:26:29.733	117GL105A106A4EI	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,906	45:0
3274	97	311	07:26:53.066	117GL105A106A4EJ	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,906	80:0
3275	97	311	07:27:09.733	117GL105A106A4EK	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,907	14:0
3276	97	311	07:27:33.066	117GL105A106A4EL	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,907	49:0
3277	97	311	07:27:49.733	117GL105A106A4EM	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,907	74:0
3278	97	311	07:28:13.066	117GL105A106A4EN	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,908	18:0
3279	97	311	07:28:29.733	117GL105A106A4EO	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,908	43:0
3280	97	311	07:28:53.066	117GL105A106A4EP	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,908	78:0
3281	97	311	07:29:09.733	117GL105A106A4EQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,909	12:0
3282	97	311	07:29:33.066	117GL105A106A4ER	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,909	47:0
3283	97	311	07:29:49.733	117GL105A106A4ES	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,909	72:0
3284	97	311	07:30:13.066	117GL105A106A4ET	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,910	16:0
3285	97	311	07:30:29.733	117GL105A106A4EU	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,910	41:0
3286	97	311	07:30:53.066	117GL105A106A4EV	7STRP	-0.0015,0.0061,0	Slew =17.01	2R5	4	1	4,206,910	76:0
3287	97	311	07:31:09.733	117GL105A106A4EW	7STRP	0.0,-0.006,0,0,0	Slew =,0.41	2R5	4	1	4,206,911	10:0
3288	97	311	07:31:33.066	117GL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,206,911	45:0
3289	97	311	07:31:33.066	176GL6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,206,911	45:0
3290	97	311	07:31:35.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,206,911	48:0
3291	97	311	07:31:35.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4934.43 +/- 3	2R5	4	1	4,206,911	48:0
3292	97	311	07:31:36.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4934.55 +/- 3	2R5	4	1	4,206,911	50:1
3293	97	311	07:31:41.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4935.79 +/- 3	2R5	4	1	4,206,911	58:0
3294	97	311	07:31:42.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4935.85 +/- 3	2R5	4	1	4,206,911	59:8
3295	97	311	07:31:44.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4935.73 +/- 3	2R5	4	1	4,206,911	61:9
3296	97	311	07:31:45.066		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4935.55 +/- 3	2R5	4	1	4,206,911	63:0
3297	97	311	07:32:02.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,911	89:0
3298	97	311	07:32:02.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4931.49 +/- 3	2R5	4	1	4,206,911	89:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3299	97	311	07:32:03.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4931.43 +/- 3	2R5	4	1	4,206,911:90:8	
3300	97	311	07:33:34.400	165IN4A	7SCAN	NORM,17.07,8.541	Check S/P Position	2R5	4	1	4,206,913:45:0	
3301	97	311	07:36:55.733	175IN422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R5	4	1	4,206,916:74:0	
3302	97	311	07:36:55.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4931.43 +/- 3	2R5	4	1	4,206,916:74:0	
3303	97	311	07:36:57.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4931.55 +/- 3	2R5	4	1	4,206,916:76:1	
3304	97	311	07:37:02.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4932.79 +/- 3	2R5	4	1	4,206,916:84:0	
3305	97	311	07:37:03.600		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *4932.85 +/- 3	2R5	4	1	4,206,916:85:8	
3306	97	311	07:37:08.400	175IN176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R5	4	1	4,206,917:02:0	
3307	97	311	07:37:08.866		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *4866.85 +/- 3	2R5	4	1	4,206,917:02:7	
3308	97	311	07:37:08.866		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 4866.85 +/- 4	2R5	4	1	4,206,917:02:7	
3309	97	311	07:37:11.066		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *4812.71 +/- 4	2R5	4	1	4,206,917:06:0	
3310	97	311	07:37:11.066	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,206,917:06:0	
3311	97	311	07:37:13.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4801.21 +/- 4	2R5	4	1	4,206,917:10:1	
3312	**97**	**311**	**07:42:14.333**	**11INCHEMIS01-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3313	97	311	07:43:10.400	165EV4A	7SCAN	NORM,34.869,16.1	Check S/P Position	2R5	4	1	4,206,922:90:0	
3314	97	311	07:44:07.066	125EV11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	4,206,923:84:0	
3315	**97**	**311**	**07:44:07.066**	**125EV4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R5**	**4**	**1**	**4,206,923:84:0**	
3316	97	311	07:44:07.066	125EV	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	4,206,923:84:0	
3317	**97**	**311**	**07:45:07.733**	**127EV4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,206,924:84:0**	
3318	97	311	07:45:07.733	127EV	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,206,924:84:0	
3319	**97**	**311**	**07:45:08.400**	**127EV4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,206,924:85:0**	
3320	97	311	07:45:16.400	127EV11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,206,925:06:0	
3321	97	311	07:45:58.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4801.21 +/- 4	2R3	4	0	4,206,925:69:0	
3322	97	311	07:45:58.400	175EV422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	4,206,925:69:0	
3323	97	311	07:45:59.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4801.33 +/- 4	2R3	4	0	4,206,925:71:1	
3324	97	311	07:46:03.733	117EV	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,206,925:77:0	
3325	97	311	07:46:05.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4802.56 +/- 4	2R3	4	0	4,206,925:79:0	
3326	97	311	07:46:06.266		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *4802.62 +/- 4	2R3	4	0	4,206,925:80:8	
3327	97	311	07:46:09.733	175EV176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	4,206,925:86:0	
3328	97	311	07:46:10.266		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *4801.12 +/- 4	2R3	4	0	4,206,925:86:8	
3329	97	311	07:46:10.266		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 4801.12 +/- 4	2R3	4	0	4,206,925:86:8	
3330	97	311	07:46:11.733	165EV4B	7VECT		Inert vect update UTC	2R3	4	0	4,206,925:89:0	
3331	97	311	07:46:13.066	117EV105A106A4A	7STRP	0.0045,0.0,0,0,0	Slew =,0.03	2R3	4	0	4,206,926:00:0	
3332	**97**	**311**	**07:46:13.066**	**11INCHEMIS01-**	**NIMPBK**	**301EK**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
3333	97	311	07:46:17.066	480MS6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	2R3	4	0	4,206,926:06:0	
3334	97	311	07:46:17.066	480MS6	6MROH	12	read from LLM1A12,2282,0,A2	2R3	4	0	4,206,926:06:0	
3335	97	311	07:48:46.400	117EV11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,206,928:48:0	
3336	**97**	**311**	**07:48:46.400**	**11INCHEMIS01-**	**DESELC**	**300EK**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
3337	97	311	07:48:49.733		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *4660.96 +/- 4	2R3	4	0	4,206,928:53:0	
3338	97	311	07:48:49.733	175EV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,928:53:0	
3339	97	311	07:48:50.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4660.66 +/- 4	2R3	4	0	4,206,928:54:8	
3340	97	311	07:49:14.400	165GF4A	7SCAN	NORM,11.216,7.70	Check S/P Position	2R3	4	0	4,206,928:90:0	
3341	**97**	**311**	**07:49:19.000**	**11INCHEMIS01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
3342	97	311	07:51:16.400	176GF6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,206,931:00:0	
3343	97	311	07:52:07.733	117GF	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,206,931:77:0	
3344	97	311	07:52:17.066	117GF105A106A4A	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,932:00:0	
3345	97	311	07:52:43.733	117GF105A106A4B	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,932:40:0	
3346	97	311	07:53:00.400	117GF105A106A4C	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,932:65:0	
3347	97	311	07:53:27.066	117GF105A106A4D	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,933:14:0	
3348	97	311	07:53:43.733	117GF105A106A4E	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,933:39:0	
3349	97	311	07:54:10.400	117GF105A106A4F	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,933:79:0	
3350	97	311	07:54:27.066	117GF105A106A4G	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,934:13:0	
3351	97	311	07:54:53.733	117GF105A106A4H	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,934:53:0	
3352	97	311	07:55:10.400	117GF105A106A4I	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,934:78:0	
3353	97	311	07:55:37.066	117GF105A106A4J	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,935:27:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3354	97	311	07:55:53.733	117GF105A106A4K	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,935	52:0
3355	97	311	07:56:20.400	117GF105A106A4L	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,936	01:0
3356	97	311	07:56:37.066	117GF105A106A4M	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,936	26:0
3357	97	311	07:57:03.733	117GF105A106A4N	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,936	66:0
3358	97	311	07:57:20.400	117GF105A106A4O	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,937	00:0
3359	97	311	07:57:47.066	117GF105A106A4P	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,937	40:0
3360	97	311	07:58:03.733	117GF105A106A4Q	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,937	65:0
3361	97	311	07:58:30.400	117GF105A106A4R	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,938	14:0
3362	97	311	07:58:47.066	117GF105A106A4S	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,938	39:0
3363	97	311	07:59:13.733	117GF105A106A4T	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,938	79:0
3364	97	311	07:59:30.400	117GF105A106A4U	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,939	13:0
3365	97	311	07:59:57.066	117GF105A106A4V	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,939	53:0
3366	97	311	08:00:13.733	117GF105A106A4W	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,939	78:0
3367	97	311	08:00:40.400	117GF105A106A4X	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,940	27:0
3368	97	311	08:00:57.066	117GF105A106A4Y	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,940	52:0
3369	97	311	08:01:23.733	117GF105A106A4Z	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,941	01:0
3370	97	311	08:01:31.066	20ME6A	6CKSUM	MAG,4040,46F0		2R3	4	0	4,206,941	12:0
3371	97	311	08:01:40.400	117GF105A106A4AA	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,941	26:0
3372	97	311	08:02:07.066	117GF105A106A4AB	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,941	66:0
3373	97	311	08:02:23.733	117GF105A106A4AC	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,942	00:0
3374	97	311	08:02:27.733	480MT6	6MROH	12	read from LLM1A12,2282,0,A2	2R3	4	0	4,206,942	06:0
3375	97	311	08:02:27.733	480MT6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	2R3	4	0	4,206,942	06:0
3376	97	311	08:02:50.400	117GF105A106A4AD	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,942	40:0
3377	97	311	08:03:07.066	117GF105A106A4AE	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,942	65:0
3378	97	311	08:03:33.733	117GF105A106A4AF	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,943	14:0
3379	97	311	08:03:50.400	117GF105A106A4AG	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,943	39:0
3380	97	311	08:04:17.066	117GF105A106A4AH	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,943	79:0
3381	97	311	08:04:33.733	117GF105A106A4AI	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,944	13:0
3382	97	311	08:05:00.400	117GF105A106A4AJ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,944	53:0
3383	97	311	08:05:10.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,206,944	68:0
3384	97	311	08:05:10.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4660.66 +/- 4	2R3	4	0	4,206,944	68:0
3385	97	311	08:05:11.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4660.78 +/- 4	2R3	4	0	4,206,944	70:1
3386	97	311	08:05:17.066	117GF105A106A4AK	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,944	78:0
3387	97	311	08:05:17.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4662.02 +/- 4	2R3	4	0	4,206,944	78:0
3388	97	311	08:05:18.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4662.08 +/- 4	2R3	4	0	4,206,944	79:8
3389	97	311	08:05:19.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4661.96 +/- 4	2R3	4	0	4,206,944	81:9
3390	97	311	08:05:38.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4657.57 +/- 4	2R3	4	0	4,206,945	19:0
3391	97	311	08:05:43.733	117GF105A106A4AL	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,945	27:0
3392	97	311	08:06:00.400	117GF105A106A4AM	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,945	52:0
3393	97	311	08:06:01.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,945	53:0
3394	97	311	08:06:01.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4652.26 +/- 4	2R3	4	0	4,206,945	53:0
3395	97	311	08:06:02.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4652.20 +/- 4	2R3	4	0	4,206,945	54:8
3396	97	311	08:06:27.066	117GF105A106A4AN	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,946	01:0
3397	97	311	08:06:43.733	117GF105A106A4AO	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,946	26:0
3398	97	311	08:07:10.400	117GF105A106A4AP	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,946	66:0
3399	97	311	08:07:27.066	117GF105A106A4AQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,947	00:0
3400	97	311	08:07:53.733	117GF105A106A4AR	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,947	40:0
3401	97	311	08:08:10.400	117GF105A106A4AS	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,947	65:0
3402	97	311	08:08:37.066	117GF105A106A4AT	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,948	14:0
3403	97	311	08:08:53.733	117GF105A106A4AU	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,948	39:0
3404	97	311	08:09:20.400	117GF105A106A4AV	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,948	79:0
3405	97	311	08:09:37.066	117GF105A106A4AW	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,949	13:0
3406	97	311	08:10:03.733	117GF105A106A4AX	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,949	53:0
3407	97	311	08:10:20.400	117GF105A106A4AY	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,949	78:0
3408	97	311	08:10:47.066	117GF105A106A4AZ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,950	27:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3409	97	311	08:11:03.733	117GF105A106A4BA	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,950	52:0
3410	97	311	08:11:30.400	117GF105A106A4BB	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,951	01:0
3411	97	311	08:11:47.066	117GF105A106A4BC	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,951	26:0
3412	97	311	08:12:13.733	117GF105A106A4BD	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,951	66:0
3413	97	311	08:12:30.400	117GF105A106A4BE	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,952	00:0
3414	97	311	08:12:57.066	117GF105A106A4BF	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,952	40:0
3415	97	311	08:13:13.733	117GF105A106A4BG	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,952	65:0
3416	97	311	08:13:40.400	117GF105A106A4BH	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,953	14:0
3417	97	311	08:13:57.066	117GF105A106A4BI	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,953	39:0
3418	97	311	08:14:23.733	117GF105A106A4BJ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,953	79:0
3419	97	311	08:14:40.400	117GF105A106A4BK	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,954	13:0
3420	97	311	08:15:07.066	117GF105A106A4BL	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,954	53:0
3421	97	311	08:15:23.733	117GF105A106A4BM	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,954	78:0
3422	97	311	08:15:50.400	117GF105A106A4BN	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,955	27:0
3423	97	311	08:16:07.066	117GF105A106A4BO	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,955	52:0
3424	97	311	08:16:33.733	117GF105A106A4BP	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,956	01:0
3425	97	311	08:16:50.400	117GF105A106A4BQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,956	26:0
3426	97	311	08:17:17.066	117GF105A106A4BR	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,956	66:0
3427	97	311	08:17:33.733	117GF105A106A4BS	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,957	00:0
3428	97	311	08:18:00.400	117GF105A106A4BT	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,957	40:0
3429	97	311	08:18:17.066	117GF105A106A4BU	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,957	65:0
3430	97	311	08:18:43.733	117GF105A106A4BV	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,958	14:0
3431	97	311	08:19:00.400	117GF105A106A4BW	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,958	39:0
3432	97	311	08:19:27.066	117GF105A106A4BX	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,958	79:0
3433	97	311	08:19:34.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4652.20 +/- 4	2R3	4	0	4,206,958	90:0
3434	97	311	08:19:34.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,206,958	90:0
3435	97	311	08:19:35.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4652.32 +/- 4	2R3	4	0	4,206,959	01:1
3436	97	311	08:19:41.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4653.55 +/- 4	2R3	4	0	4,206,959	09:0
3437	97	311	08:19:42.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4653.61 +/- 4	2R3	4	0	4,206,959	10:8
3438	97	311	08:19:43.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4653.49 +/- 4	2R3	4	0	4,206,959	12:9
3439	97	311	08:19:43.733	117GF105A106A4BY	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,959	13:0
3440	97	311	08:20:02.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4649.10 +/- 4	2R3	4	0	4,206,959	41:0
3441	97	311	08:20:10.400	117GF105A106A4BZ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,959	53:0
3442	97	311	08:20:25.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,959	75:0
3443	97	311	08:20:25.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4643.79 +/- 4	2R3	4	0	4,206,959	75:0
3444	97	311	08:20:26.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4643.73 +/- 4	2R3	4	0	4,206,959	76:8
3445	97	311	08:20:27.066	117GF105A106A4CA	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,959	78:0
3446	97	311	08:20:53.733	117GF105A106A4CB	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,960	27:0
3447	97	311	08:21:10.400	117GF105A106A4CC	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,960	52:0
3448	97	311	08:21:37.066	117GF105A106A4CD	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,961	01:0
3449	97	311	08:21:53.733	117GF105A106A4CE	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,961	26:0
3450	97	311	08:22:20.400	117GF105A106A4CF	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,961	66:0
3451	97	311	08:22:37.066	117GF105A106A4CG	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,962	00:0
3452	97	311	08:23:03.733	117GF105A106A4CH	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,962	40:0
3453	97	311	08:23:20.400	117GF105A106A4CI	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,962	65:0
3454	97	311	08:23:47.066	117GF105A106A4CJ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,963	14:0
3455	97	311	08:24:03.733	117GF105A106A4CK	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,963	39:0
3456	97	311	08:24:30.400	117GF105A106A4CL	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,963	79:0
3457	97	311	08:24:47.066	117GF105A106A4CM	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,964	13:0
3458	97	311	08:25:13.733	117GF105A106A4CN	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,964	53:0
3459	97	311	08:25:30.400	117GF105A106A4CO	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,964	78:0
3460	97	311	08:25:57.066	117GF105A106A4CP	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,965	27:0
3461	97	311	08:26:13.733	117GF105A106A4CQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,965	52:0
3462	97	311	08:26:40.400	117GF105A106A4CR	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,966	01:0
3463	97	311	08:26:57.066	117GF105A106A4CS	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,966	26:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3464	97	311	08:27:23.733	117GF105A106A4CT	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,966:66:0	
3465	97	311	08:27:40.400	117GF105A106A4CU	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,967:00:0	
3466	97	311	08:28:07.066	117GF105A106A4CV	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,967:40:0	
3467	97	311	08:28:23.733	117GF105A106A4CW	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,967:65:0	
3468	97	311	08:28:50.400	117GF105A106A4CX	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,968:14:0	
3469	97	311	08:29:07.066	117GF105A106A4CY	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,968:39:0	
3470	97	311	08:29:33.733	117GF105A106A4CZ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,968:79:0	
3471	97	311	08:29:50.400	117GF105A106A4DA	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,969:13:0	
3472	97	311	08:30:17.066	117GF105A106A4DB	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,969:53:0	
3473	97	311	08:30:33.733	117GF105A106A4DC	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,969:78:0	
3474	97	311	08:31:00.400	117GF105A106A4DD	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,970:27:0	
3475	97	311	08:31:17.066	117GF105A106A4DE	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,970:52:0	
3476	97	311	08:31:43.733	117GF105A106A4DF	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,971:01:0	
3477	97	311	08:32:00.400	117GF105A106A4DG	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,971:26:0	
3478	97	311	08:32:27.066	117GF105A106A4DH	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,971:66:0	
3479	97	311	08:32:43.733	117GF105A106A4DI	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,972:00:0	
3480	97	311	08:33:10.400	117GF105A106A4DJ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,972:40:0	
3481	97	311	08:33:27.066	117GF105A106A4DK	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,972:65:0	
3482	97	311	08:33:53.733	117GF105A106A4DL	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,973:14:0	
3483	97	311	08:33:59.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,206,973:22:0	
3484	97	311	08:33:59.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4643.73 +/- 4	2R3	4	0	4,206,973:22:0	
3485	97	311	08:34:00.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4643.85 +/- 4	2R3	4	0	4,206,973:24:1	
3486	97	311	08:34:05.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4645.08 +/- 4	2R3	4	0	4,206,973:32:0	
3487	97	311	08:34:06.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4645.14 +/- 4	2R3	4	0	4,206,973:33:8	
3488	97	311	08:34:08.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4645.02 +/- 4	2R3	4	0	4,206,973:35:9	
3489	97	311	08:34:10.400	117GF105A106A4DM	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,973:39:0	
3490	97	311	08:34:27.066		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4640.63 +/- 4	2R3	4	0	4,206,973:64:0	
3491	97	311	08:34:37.066	117GF105A106A4DN	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,973:79:0	
3492	97	311	08:34:49.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,974:07:0	
3493	97	311	08:34:49.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4635.32 +/- 4	2R3	4	0	4,206,974:07:0	
3494	97	311	08:34:50.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4635.26 +/- 4	2R3	4	0	4,206,974:08:8	
3495	97	311	08:34:53.733	117GF105A106A4DO	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,974:13:0	
3496	97	311	08:35:20.400	117GF105A106A4DP	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,974:53:0	
3497	97	311	08:35:37.066	117GF105A106A4DQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,974:78:0	
3498	97	311	08:36:03.733	117GF105A106A4DR	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,975:27:0	
3499	97	311	08:36:20.400	117GF105A106A4DS	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,975:52:0	
3500	97	311	08:36:47.066	117GF105A106A4DT	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,976:01:0	
3501	97	311	08:37:03.733	117GF105A106A4DU	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,976:26:0	
3502	97	311	08:37:30.400	117GF105A106A4DV	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,976:66:0	
3503	97	311	08:37:47.066	117GF105A106A4DW	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,977:00:0	
3504	97	311	08:38:13.733	117GF105A106A4DX	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,977:40:0	
3505	97	311	08:38:30.400	117GF105A106A4DY	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,977:65:0	
3506	97	311	08:38:57.066	117GF105A106A4DZ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,978:14:0	
3507	97	311	08:39:13.733	117GF105A106A4EA	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,978:39:0	
3508	97	311	08:39:40.400	117GF105A106A4EB	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,978:79:0	
3509	97	311	08:39:57.066	117GF105A106A4EC	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,979:13:0	
3510	97	311	08:40:23.733	117GF105A106A4ED	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,979:53:0	
3511	97	311	08:40:40.400	117GF105A106A4EE	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,979:78:0	
3512	97	311	08:41:07.066	117GF105A106A4EF	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,980:27:0	
3513	97	311	08:41:23.733	117GF105A106A4EG	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,980:52:0	
3514	97	311	08:41:50.400	117GF105A106A4EH	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,981:01:0	
3515	97	311	08:42:07.066	117GF105A106A4EI	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,981:26:0	
3516	97	311	08:42:33.733	117GF105A106A4EJ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,981:66:0	
3517	97	311	08:42:50.400	117GF105A106A4EK	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,982:00:0	
3518	97	311	08:43:17.066	117GF105A106A4EL	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,982:40:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3519	97	311	08:43:33.733	117GF105A106A4EM	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,982	65:0
3520	97	311	08:44:00.400	117GF105A106A4EN	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,983	14:0
3521	97	311	08:44:17.066	117GF105A106A4EO	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,983	39:0
3522	97	311	08:44:43.733	117GF105A106A4EP	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,983	79:0
3523	97	311	08:45:00.400	117GF105A106A4EQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,984	13:0
3524	97	311	08:45:27.066	117GF105A106A4ER	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,984	53:0
3525	97	311	08:45:43.733	117GF105A106A4ES	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,984	78:0
3526	97	311	08:46:10.400	117GF105A106A4ET	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,985	27:0
3527	97	311	08:46:23.733	488DE6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	4,206,985	47:0
3528	97	311	08:46:27.066	117GF105A106A4EU	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,985	52:0
3529	97	311	08:46:53.733	117GF105A106A4EV	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,986	01:0
3530	97	311	08:47:10.400	117GF105A106A4EW	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,986	26:0
3531	97	311	08:47:37.066	117GF105A106A4EX	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,986	66:0
3532	97	311	08:47:53.733	117GF105A106A4EY	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,987	00:0
3533	97	311	08:48:20.400	117GF105A106A4EZ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,987	40:0
3534	97	311	08:48:23.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4635.26 +/- 4	2R3	4	0	4,206,987	45:0
3535	97	311	08:48:23.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,206,987	45:0
3536	97	311	08:48:25.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4635.38 +/- 4	2R3	4	0	4,206,987	47:1
3537	97	311	08:48:30.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4636.61 +/- 4	2R3	4	0	4,206,987	55:0
3538	97	311	08:48:31.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4636.67 +/- 4	2R3	4	0	4,206,987	56:8
3539	97	311	08:48:33.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4636.55 +/- 4	2R3	4	0	4,206,987	58:9
3540	97	311	08:48:37.066	117GF105A106A4FA	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,987	65:0
3541	97	311	08:48:51.733		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4632.16 +/- 4	2R3	4	0	4,206,987	87:0
3542	97	311	08:49:03.733	117GF105A106A4FB	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,988	14:0
3543	97	311	08:49:14.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4626.85 +/- 4	2R3	4	0	4,206,988	30:0
3544	97	311	08:49:14.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,206,988	30:0
3545	97	311	08:49:15.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4626.79 +/- 4	2R3	4	0	4,206,988	31:8
3546	97	311	08:49:20.400	117GF105A106A4FC	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,988	39:0
3547	97	311	08:49:47.066	117GF105A106A4FD	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,988	79:0
3548	97	311	08:50:03.733	117GF105A106A4FE	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,989	13:0
3549	97	311	08:50:30.400	117GF105A106A4FF	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,989	53:0
3550	97	311	08:50:47.066	117GF105A106A4FG	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,989	78:0
3551	97	311	08:51:13.733	117GF105A106A4FH	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,990	27:0
3552	97	311	08:51:30.400	117GF105A106A4FI	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,990	52:0
3553	97	311	08:51:57.066	117GF105A106A4FJ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,991	01:0
3554	97	311	08:52:13.733	117GF105A106A4FK	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,991	26:0
3555	97	311	08:52:40.400	117GF105A106A4FL	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,991	66:0
3556	97	311	08:52:57.066	117GF105A106A4FM	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,992	00:0
3557	97	311	08:53:23.733	117GF105A106A4FN	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,992	40:0
3558	97	311	08:53:40.400	117GF105A106A4FO	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,992	65:0
3559	97	311	08:54:07.066	117GF105A106A4FP	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,993	14:0
3560	97	311	08:54:23.733	117GF105A106A4FQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,993	39:0
3561	97	311	08:54:50.400	117GF105A106A4FR	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,993	79:0
3562	97	311	08:55:07.066	117GF105A106A4FS	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,994	13:0
3563	97	311	08:55:33.733	117GF105A106A4FT	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,994	53:0
3564	97	311	08:55:50.400	117GF105A106A4FU	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,994	78:0
3565	97	311	08:56:17.066	117GF105A106A4FV	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,995	27:0
3566	97	311	08:56:33.733	117GF105A106A4FW	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,995	52:0
3567	97	311	08:57:00.400	117GF105A106A4FX	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,996	01:0
3568	97	311	08:57:17.066	117GF105A106A4FY	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,996	26:0
3569	97	311	08:57:43.733	117GF105A106A4FZ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,996	66:0
3570	97	311	08:58:00.400	117GF105A106A4GA	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,997	00:0
3571	97	311	08:58:27.066	117GF105A106A4GB	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,997	40:0
3572	97	311	08:58:43.733	117GF105A106A4GC	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,997	65:0
3573	97	311	08:59:10.400	117GF105A106A4GD	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,998	14:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3574	97	311	08:59:27.066	117GF105A106A4GE	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,998:39:0	
3575	97	311	08:59:53.733	117GF105A106A4GF	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,998:79:0	
3576	97	311	09:00:10.400	117GF105A106A4GG	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,999:13:0	
3577	97	311	09:00:37.066	117GF105A106A4GH	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,206,999:53:0	
3578	97	311	09:00:53.733	117GF105A106A4GI	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,206,999:78:0	
3579	97	311	09:01:20.400	117GF105A106A4GJ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,000:27:0	
3580	97	311	09:01:37.066	117GF105A106A4GK	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,000:52:0	
3581	97	311	09:02:03.733	117GF105A106A4GL	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,001:01:0	
3582	97	311	09:02:20.400	117GF105A106A4GM	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,001:26:0	
3583	97	311	09:02:47.066	117GF105A106A4GN	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,001:66:0	
3584	97	311	09:02:48.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4626.79 +/- 4	2R3	4	0	4,207,001:68:0	
3585	97	311	09:02:48.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,207,001:68:0	
3586	97	311	09:02:49.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4626.91 +/- 4	2R3	4	0	4,207,001:70:1	
3587	97	311	09:02:55.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4628.14 +/- 4	2R3	4	0	4,207,001:78:0	
3588	97	311	09:02:56.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4628.20 +/- 4	2R3	4	0	4,207,001:79:8	
3589	97	311	09:02:57.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4628.08 +/- 4	2R3	4	0	4,207,001:81:9	
3590	97	311	09:03:03.733	117GF105A106A4GO	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,002:00:0	
3591	97	311	09:03:16.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4623.69 +/- 4	2R3	4	0	4,207,002:19:0	
3592	97	311	09:03:30.400	117GF105A106A4GP	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,002:40:0	
3593	97	311	09:03:39.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4618.38 +/- 4	2R3	4	0	4,207,002:53:0	
3594	97	311	09:03:39.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,002:53:0	
3595	97	311	09:03:40.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4618.32 +/- 4	2R3	4	0	4,207,002:54:8	
3596	97	311	09:03:47.066	117GF105A106A4GQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,002:65:0	
3597	97	311	09:04:13.733	117GF105A106A4GR	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,003:14:0	
3598	97	311	09:04:30.400	117GF105A106A4GS	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,003:39:0	
3599	97	311	09:04:57.066	117GF105A106A4GT	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,003:79:0	
3600	97	311	09:05:13.733	117GF105A106A4GU	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,004:13:0	
3601	97	311	09:05:40.400	117GF105A106A4GV	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,004:53:0	
3602	97	311	09:05:57.066	117GF105A106A4GW	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,004:78:0	
3603	97	311	09:06:23.733	117GF105A106A4GX	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,005:27:0	
3604	97	311	09:06:40.400	117GF105A106A4GY	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,005:52:0	
3605	97	311	09:07:07.066	117GF105A106A4GZ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,006:01:0	
3606	97	311	09:07:23.733	117GF105A106A4HA	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,006:26:0	
3607	97	311	09:07:50.400	117GF105A106A4HB	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,006:66:0	
3608	97	311	09:08:07.066	117GF105A106A4HC	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,007:00:0	
3609	97	311	09:08:33.733	117GF105A106A4HD	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,007:40:0	
3610	97	311	09:08:50.400	117GF105A106A4HE	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,007:65:0	
3611	97	311	09:09:17.066	117GF105A106A4HF	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,008:14:0	
3612	97	311	09:09:33.733	117GF105A106A4HG	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,008:39:0	
3613	97	311	09:10:00.400	117GF105A106A4HH	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,008:79:0	
3614	97	311	09:10:17.066	117GF105A106A4HI	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,009:13:0	
3615	97	311	09:10:43.733	117GF105A106A4HJ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,009:53:0	
3616	97	311	09:11:00.400	117GF105A106A4HK	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,009:78:0	
3617	97	311	09:11:27.066	117GF105A106A4HL	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,010:27:0	
3618	97	311	09:11:43.733	117GF105A106A4HM	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,010:52:0	
3619	97	311	09:12:10.400	117GF105A106A4HN	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,011:01:0	
3620	97	311	09:12:27.066	117GF105A106A4HO	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,011:26:0	
3621	97	311	09:12:53.733	117GF105A106A4HP	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,011:66:0	
3622	97	311	09:13:10.400	117GF105A106A4HQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,012:00:0	
3623	97	311	09:13:37.066	117GF105A106A4HR	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,012:40:0	
3624	97	311	09:13:53.733	117GF105A106A4HS	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,012:65:0	
3625	97	311	09:14:20.400	117GF105A106A4HT	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,013:14:0	
3626	97	311	09:14:37.066	117GF105A106A4HU	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,013:39:0	
3627	97	311	09:15:03.733	117GF105A106A4HV	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,013:79:0	
3628	97	311	09:15:20.400	117GF105A106A4HW	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,014:13:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3629	97	311	09:15:47.066	117GF105A106A4HX	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,014	53:0
3630	97	311	09:16:03.733	117GF105A106A4HY	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,014	78:0
3631	97	311	09:16:30.400	117GF105A106A4HZ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,015	27:0
3632	97	311	09:16:47.066	117GF105A106A4IA	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,015	52:0
3633	97	311	09:17:13.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4618.32 +/- 4	2R3	4	0	4,207,016	00:0
3634	97	311	09:17:13.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,207,016	00:0
3635	97	311	09:17:13.733	117GF105A106A4IB	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,016	01:0
3636	97	311	09:17:14.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4618.44 +/- 4	2R3	4	0	4,207,016	02:1
3637	97	311	09:17:19.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4619.67 +/- 4	2R3	4	0	4,207,016	10:0
3638	97	311	09:17:20.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4619.73 +/- 4	2R3	4	0	4,207,016	11:8
3639	97	311	09:17:22.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4619.61 +/- 4	2R3	4	0	4,207,016	13:9
3640	97	311	09:17:30.400	117GF105A106A4IC	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,016	26:0
3641	97	311	09:17:41.066		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4615.22 +/- 4	2R3	4	0	4,207,016	42:0
3642	97	311	09:17:57.066	117GF105A106A4ID	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,016	66:0
3643	97	311	09:18:03.733	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,016	76:0
3644	97	311	09:18:03.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4609.91 +/- 4	2R3	4	0	4,207,016	76:0
3645	97	311	09:18:04.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4609.85 +/- 4	2R3	4	0	4,207,016	77:8
3646	97	311	09:18:13.733	117GF105A106A4IE	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,017	00:0
3647	97	311	09:18:40.400	117GF105A106A4IF	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,017	40:0
3648	97	311	09:18:57.066	117GF105A106A4IG	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,017	65:0
3649	97	311	09:19:23.733	117GF105A106A4IH	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,018	14:0
3650	97	311	09:19:40.400	117GF105A106A4II	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,018	39:0
3651	97	311	09:20:07.066	117GF105A106A4IJ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,018	79:0
3652	97	311	09:20:23.733	117GF105A106A4IK	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,019	13:0
3653	97	311	09:20:50.400	117GF105A106A4IL	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,019	53:0
3654	97	311	09:21:07.066	117GF105A106A4IM	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,019	78:0
3655	97	311	09:21:33.733	117GF105A106A4IN	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,020	27:0
3656	97	311	09:21:50.400	117GF105A106A4IO	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,020	52:0
3657	97	311	09:22:17.066	117GF105A106A4IP	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,021	01:0
3658	97	311	09:22:33.733	117GF105A106A4IQ	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,021	26:0
3659	97	311	09:23:00.400	117GF105A106A4IR	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,021	66:0
3660	97	311	09:23:17.066	117GF105A106A4IS	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,022	00:0
3661	97	311	09:23:43.733	117GF105A106A4IT	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,022	40:0
3662	97	311	09:24:00.400	117GF105A106A4IU	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,022	65:0
3663	97	311	09:24:27.066	117GF105A106A4IV	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,023	14:0
3664	97	311	09:24:43.733	117GF105A106A4IW	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,023	39:0
3665	97	311	09:25:10.400	117GF105A106A4IX	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,023	79:0
3666	97	311	09:25:27.066	117GF105A106A4IY	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,024	13:0
3667	97	311	09:25:53.733	117GF105A106A4IZ	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,024	53:0
3668	97	311	09:26:10.400	117GF105A106A4JA	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,024	78:0
3669	97	311	09:26:37.066	117GF105A106A4JB	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,025	27:0
3670	97	311	09:26:53.733	117GF105A106A4JC	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,025	52:0
3671	97	311	09:27:20.400	117GF105A106A4JD	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,026	01:0
3672	97	311	09:27:37.066	117GF105A106A4JE	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,026	26:0
3673	97	311	09:28:03.733	117GF105A106A4JF	7STRP	-0.0015,0.00608,	Slew =17.01	2R3	4	0	4,207,026	66:0
3674	97	311	09:28:20.400	117GF105A106A4JG	7STRP	0.0,-0.006,0,0,0	Slew =,0.35	2R3	4	0	4,207,027	00:0
3675	97	311	09:28:47.066	176GF6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,207,027	40:0
3676	97	311	09:28:47.066	117GF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,207,027	40:0
3677	97	311	09:28:49.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,207,027	43:0
3678	97	311	09:28:49.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4609.85 +/- 4	2R3	4	0	4,207,027	43:0
3679	97	311	09:28:50.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4609.97 +/- 4	2R3	4	0	4,207,027	45:1
3680	97	311	09:28:55.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4611.21 +/- 4	2R3	4	0	4,207,027	53:0
3681	97	311	09:28:56.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4611.27 +/- 4	2R3	4	0	4,207,027	54:8
3682	97	311	09:28:58.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *4611.15 +/- 4	2R3	4	0	4,207,027	56:9
3683	97	311	09:28:59.066		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4610.97 +/- 4	2R3	4	0	4,207,027	58:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3684	97	311	09:29:18.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,027	87:0
3685	97	311	09:29:18.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4606.44 +/- 4	2R3	4	0	4,207,027	87:0
3686	97	311	09:29:19.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4606.38 +/- 4	2R3	4	0	4,207,027	88:8
3687	97	311	09:30:51.733	165IO4A	7SCAN	NORM,12.181,6.62	Check S/P Position	2R3	4	0	4,207,029	45:0
3688	97	311	09:34:13.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4606.38 +/- 4	2R3	4	0	4,207,032	74:0
3689	97	311	09:34:13.066	175IO422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	4,207,032	74:0
3690	97	311	09:34:14.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4606.50 +/- 4	2R3	4	0	4,207,032	76:1
3691	97	311	09:34:19.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4607.74 +/- 4	2R3	4	0	4,207,032	84:0
3692	97	311	09:34:20.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *4607.80 +/- 4	2R3	4	0	4,207,032	85:8
3693	97	311	09:34:25.733	175IO176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,207,033	02:0
3694	97	311	09:34:26.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 4541.80 +/- 4	2R3	4	0	4,207,033	02:7
3695	97	311	09:34:26.200		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *4541.80 +/- 4	2R3	4	0	4,207,033	02:7
3696	97	311	09:34:28.400		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *4487.66 +/- 4	2R3	4	0	4,207,033	06:0
3697	97	311	09:34:28.400	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,033	06:0
3698	97	311	09:34:31.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4476.16 +/- 4	2R3	4	0	4,207,033	10:1
3699	97	311	10:14:59.733	488DE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	4,207,073	13:0
3700	97	311	10:20:15.733	488DE6D	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R3	4	0	4,207,078	32:0
3701	97	311	10:27:00.400	41SI99A	**POWER**	**PWR MODE change**	**Change to Maneuver/Playback Mode**	2R3	4	0	4,207,085	02:0
3702	**97**	**311**	**10:28:54.400**	**41SI3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2R3**	**4**	**0**	**4,207,086**	**82:0**
3703	**97**	**311**	**10:29:04.400**	**41SI3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2R3**	**4**	**0**	**4,207,087**	**06:0**
3704	**97**	**311**	**10:29:14.400**	**41SI3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2R3**	**4**	**0**	**4,207,087**	**21:0**
3705	**97**	**311**	**10:29:24.400**	**41SI3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2R3**	**4**	**0**	**4,207,087**	**36:0**
3706	97	311	10:37:01.733	490UA412A4B	**7MODE**	**INT**	**AACS INERTIAL MODE**	2R3	4	0	4,207,094	85:0
3707	97	311	10:41:59.733	490UA412A4D	**7SAFE**	**UNSTOW**	**S/P TO 153 deg cone**	2R3	4	0	4,207,099	77:0
3708	97	311	10:46:09.733	490UA412A4E	7VECT	MVR	Inert vect update UTC	2R3	4	0	4,207,103	88:0
3709	97	311	10:46:13.733	490UA412A4F	7TURN	2,MVR	ALERT Thruster	2R3	4	0	4,207,104	03:0
3710	97	311	10:50:01.733	490UA412A406A4A	7VECT		Inert vect update UTC	2R3	4	0	4,207,107	72:0
3711	97	311	10:50:03.733	490UA412A406A4B	7STAR	76,217,100.73	Star catalog update	2R3	4	0	4,207,107	75:0
3712	97	311	10:50:05.733	490UA412A406A4C	7STAR	8,809,78.249,45.	Star catalog update	2R3	4	0	4,207,107	78:0
3713	97	311	10:50:07.733	490UA412A406A4D	7STAR	9,159,27.239,89.	Star catalog update	2R3	4	0	4,207,107	81:0
3714	97	311	10:50:09.733	490UA412A406A4E	7STAR	10,191,248.601,-	Star catalog update	2R3	4	0	4,207,107	84:0
3715	97	311	10:50:11.733	490UA412A406A4F	7STAR	11,0,0.0,0.0	Star catalog update	2R3	4	0	4,207,107	87:0
3716	97	311	10:50:13.733	490UA412A406A4G	7STAR	12,0,0.0,0.0	Star catalog update	2R3	4	0	4,207,107	90:0
3717	97	311	12:12:09.066	488DE6E	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R3	4	0	4,207,189	01:0
3718	97	311	12:29:59.066	432OC431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	4,207,206	59:0
3719	97	311	12:29:59.733	432OC6A	6RTSL1		R/T Select of DDS and	2R3	4	0	4,207,206	60:0
3720	97	311	12:39:00.400	41SE99A	**POWER**	**PWR MODE change**	**Change to Data Taking Mode**	2R3	4	0	4,207,215	52:0
3721	**97**	**311**	**12:39:04.400**	**41SE3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**2R3**	**4**	**0**	**4,207,215**	**58:0**
3722	**97**	**311**	**12:39:14.400**	**41SE3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**2R3**	**4**	**0**	**4,207,215**	**73:0**
3723	**97**	**311**	**12:39:24.400**	**41SE3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**2R3**	**4**	**0**	**4,207,215**	**88:0**
3724	**97**	**311**	**12:39:34.400**	**41SE3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**2R3**	**4**	**0**	**4,207,216**	**12:0**
3725	97	311	12:44:59.733	165IP4A	7SCAN	NORM,33.784,15.5	Check S/P Position	2R3	4	0	4,207,221	45:0
3726	97	311	12:48:21.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4476.16 +/- 4	2R3	4	0	4,207,224	74:0
3727	97	311	12:48:21.066	175IP422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	4,207,224	74:0
3728	97	311	12:48:22.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4476.28 +/- 4	2R3	4	0	4,207,224	76:1
3729	97	311	12:48:27.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4477.51 +/- 4	2R3	4	0	4,207,224	84:0
3730	97	311	12:48:28.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *4477.57 +/- 4	2R3	4	0	4,207,224	85:8
3731	97	311	12:48:33.733	175IP176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,207,225	02:0
3732	97	311	12:48:34.200		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *4411.57 +/- 4	2R3	4	0	4,207,225	02:7
3733	97	311	12:48:34.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 4411.57 +/- 4	2R3	4	0	4,207,225	02:7
3734	97	311	12:48:36.400	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,225	06:0
3735	97	311	12:48:36.400		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *4357.43 +/- 4	2R3	4	0	4,207,225	06:0
3736	97	311	12:48:39.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4345.93 +/- 5	2R3	4	0	4,207,225	10:1
3737	**97**	**311**	**12:49:37.066**	**11NNRELOAD08-**		**-----START------**		**2R3**	**4**	**0**	**:**	**:**
3738	97	311	12:50:37.733	20EI6A	6CKSUM	NIMS	NIMS,1000,14BC	2R3	4	0	4,207,227	06:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3739	**97**	**311**	**12:51:38.400**	**20EI5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,207,228:06:0**	
3740	**97**	**311**	**12:52:39.066**	**20EI5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,207,229:06:0**	
3741	**97**	**311**	**12:53:39.733**	**20EI6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,207,230:06:0**	
3742	97	311	12:53:51.733	488DF6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,207,230:24:0	
3743	**97**	**311**	**12:54:40.400**	**20EI6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,207,231:06:0**	
3744	**97**	**311**	**12:55:41.066**	**20EI5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,207,232:06:0**	
3745	**97**	**311**	**12:56:41.733**	**20EI5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,207,233:06:0**	
3746	**97**	**311**	**12:57:42.400**	**20EI4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,207,234:06:0**	
3747	**97**	**311**	**12:59:43.732**	**11NNRELOAD08-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
3748	**97**	**311**	**13:08:49.732**	**11JNBRG07203-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
3749	97	311	13:09:45.733	165EZ4A	7SCAN	NORM,35.895,17.8	Check S/P Position	2R0	4	0	4,207,245:90:0	
3750	97	311	13:12:43.733	127EZ	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,207,248:84:0	
3751	**97**	**311**	**13:12:43.733**	**127EZ4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,207,248:84:0**	
3752	**97**	**311**	**13:12:44.400**	**127EZ4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,207,248:85:0**	
3753	97	311	13:12:52.400	127EZ11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	4,207,249:06:0	
3754	97	311	13:13:37.066	175EZ422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,207,249:73:0	
3755	97	311	13:13:37.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4345.93 +/- 5	2R5	4	1	4,207,249:73:0	
3756	97	311	13:13:38.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4346.05 +/- 5	2R5	4	1	4,207,249:75:1	
3757	97	311	13:13:39.733	117EZ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,207,249:77:0	
3758	97	311	13:13:43.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4347.28 +/- 5	2R5	4	1	4,207,249:83:0	
3759	97	311	13:13:44.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4347.34 +/- 5	2R5	4	1	4,207,249:84:8	
3760	97	311	13:13:45.733	175EZ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,207,249:86:0	
3761	97	311	13:13:46.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4347.22 +/- 5	2R5	4	1	4,207,249:86:9	
3762	97	311	13:13:46.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4347.22 +/- 5	2R5	4	1	4,207,249:86:9	
3763	97	311	13:13:49.066	117EZ105A106A4A	7STRP	0.03902,0.0,0,0,	Slew =,0.11	2R5	4	1	4,207,250:00:0	
3764	97	311	13:19:45.733	117EZ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,207,255:80:0	
3765	97	311	13:19:57.066	175EZ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,207,256:06:0	
3766	97	311	13:19:57.066	175EZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,207,256:06:0	
3767	97	311	13:19:57.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4260.33 +/- 5	2R5	4	1	4,207,256:06:0	
3768	97	311	13:19:58.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4260.27 +/- 5	2R5	4	1	4,207,256:07:8	
3769	**97**	**311**	**13:20:57.732**	**11JNBRG07203-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3770	97	311	13:21:53.733	165CP4A	7SCAN	NORM,355.192997,	Check S/P Position	2R5	4	1	4,207,257:90:0	
3771	97	311	13:25:55.733	165CP4B	7VECT		Inert vect update UTC	2R5	4	1	4,207,261:89:0	
3772	**97**	**311**	**13:49:16.399**	**11JNBRG07204-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3773	97	311	13:49:42.400	165FA4A	7SCAN	NORM,36.533,18.1	Check S/P Position	2R5	4	1	4,207,285:45:0	
3774	97	311	13:51:01.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4260.27 +/- 5	2R5	4	1	4,207,286:73:0	
3775	97	311	13:51:01.733	175FA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,207,286:73:0	
3776	97	311	13:51:03.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4260.39 +/- 5	2R5	4	1	4,207,286:75:1	
3777	97	311	13:51:04.400	117FA	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,207,286:77:0	
3778	97	311	13:51:08.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4261.63 +/- 5	2R5	4	1	4,207,286:83:0	
3779	97	311	13:51:09.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4261.69 +/- 5	2R5	4	1	4,207,286:84:8	
3780	97	311	13:51:10.400	175FA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,207,286:86:0	
3781	97	311	13:51:11.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4261.57 +/- 5	2R5	4	1	4,207,286:86:9	
3782	97	311	13:51:11.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4261.57 +/- 5	2R5	4	1	4,207,286:86:9	
3783	97	311	13:51:13.733	117FA105A106A4A	7STRP	0.046534,0.0,0,0	Slew =,0.11	2R5	4	1	4,207,287:00:0	
3784	**97**	**311**	**13:51:14.400**	**11JNBRG07204-**	**NIMPBK**	**301EM**	**BROWN BARGE OBS 72 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
3785	**97**	**311**	**13:57:54.400**	**11JNBRG07204-**	**DESELC**	**300EM**	**BROWN BARGE OBS 72 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
3786	97	311	13:58:05.733	175FA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,207,293:72:0	
3787	97	311	13:58:05.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *4164.37 +/- 5	2R5	4	1	4,207,293:72:0	
3788	97	311	13:58:05.733	175FA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,207,293:72:0	
3789	97	311	13:58:06.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4164.31 +/- 5	2R5	4	1	4,207,293:73:8	
3790	97	311	13:58:18.400	117FA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,207,294:00:0	
3791	**97**	**311**	**13:58:22.399**	**11JNBRG07204-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3792	97	311	14:01:33.066	165IQ4A	7SCAN	NORM,63.851,23.5	Check S/P Position	2R5	4	1	4,207,297:19:0	
3793	97	311	14:04:26.400	118IQ	**SMOS**	GS		2R5	4	1	4,207,300:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3794	97	311	14:05:07.733	118IQ110A111A4A	7STRP	0.00225,0.00004,	Slew =3,0.9	2R5	4	1	4,207,300:68:0	
3795	97	311	14:05:18.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4164.31 +/- 5	2R5	4	1	4,207,300:84:0	
3796	97	311	14:05:18.400	175IQ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R5	4	1	4,207,300:84:0	
3797	97	311	14:05:19.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4164.43 +/- 5	2R5	4	1	4,207,300:86:1	
3798	97	311	14:05:25.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4165.66 +/- 5	2R5	4	1	4,207,301:03:0	
3799	97	311	14:05:25.066	118IQ11A	**SMOS**	GE		2R5	4	1	4,207,301:03:0	
3800	97	311	14:05:26.266		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *4165.72 +/- 5	2R5	4	1	4,207,301:04:8	
3801	97	311	14:05:29.733	175IQ176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	4,207,301:10:0	
3802	97	311	14:05:30.266		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 4159.42 +/- 5	2R5	4	1	4,207,301:10:8	
3803	97	311	14:05:30.266		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *4159.42 +/- 5	2R5	4	1	4,207,301:10:8	
3804	97	311	14:06:01.733	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,207,301:58:0	
3805	97	311	14:06:01.733		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *4048.79 +/- 5	2R5	4	1	4,207,301:58:0	
3806	97	311	14:06:02.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4047.79 +/- 5	2R5	4	1	4,207,301:59:8	
3807	**97**	**311**	**14:21:37.732**	**11JNBRG07205-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3808	97	311	14:22:33.733	165FB4A	7SCAN	NORM,37.449,18.5	Check S/P Position	2R5	4	1	4,207,317:90:0	
3809	97	311	14:26:25.066	175FB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,207,321:73:0	
3810	97	311	14:26:25.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4047.79 +/- 5	2R5	4	1	4,207,321:73:0	
3811	97	311	14:26:26.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4047.91 +/- 5	2R5	4	1	4,207,321:75:1	
3812	97	311	14:26:27.733	117FB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,207,321:77:0	
3813	97	311	14:26:31.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4049.15 +/- 5	2R5	4	1	4,207,321:83:0	
3814	97	311	14:26:32.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *4049.21 +/- 5	2R5	4	1	4,207,321:84:8	
3815	97	311	14:26:33.733	175FB176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,207,321:86:0	
3816	97	311	14:26:34.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *4049.09 +/- 5	2R5	4	1	4,207,321:86:9	
3817	97	311	14:26:34.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 4049.09 +/- 5	2R5	4	1	4,207,321:86:9	
3818	97	311	14:26:37.066	117FB105A106A4A	7STRP	0.046534,0.0,0,0	Slew =,0.11	2R5	4	1	4,207,322:00:0	
3819	**97**	**311**	**14:26:37.733**	**11JNBRG07205-**	**NIMPBK**	**301EN**	**BROWN BARGE OBS 72 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
3820	**97**	**311**	**14:33:17.733**	**11JNBRG07205-**	**DESELC**	**300EN**	**BROWN BARGE OBS 72 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
3821	97	311	14:33:29.066	175FB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,207,328:72:0	
3822	97	311	14:33:29.066	175FB6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,207,328:72:0	
3823	97	311	14:33:29.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3951.89 +/- 5	2R5	4	1	4,207,328:72:0	
3824	97	311	14:33:30.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3951.83 +/- 5	2R5	4	1	4,207,328:73:8	
3825	97	311	14:33:41.733	117FB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,207,329:00:0	
3826	**97**	**311**	**14:33:45.732**	**11JNBRG07205-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
3827	97	311	14:34:41.733	165CQ4A	7SCAN	NORM,358.799,0.2	Check S/P Position	2R5	4	1	4,207,329:90:0	
3828	97	311	14:38:43.733	165CQ4B	7VECT		Inert vect update UTC	2R5	4	1	4,207,333:89:0	
3829	**97**	**311**	**16:09:49.000**	**11INCHEMIS02-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
3830	97	311	16:10:41.066	125FC	NIMSINIT	GS	##### GROUP START INIT	2R5	4	1	4,207,424:84:0	
3831	97	311	16:10:41.066	125FC11A	NIMSINIT	GE	##### GROUP END INIT	2R5	4	1	4,207,424:84:0	
3832	**97**	**311**	**16:10:41.066**	**125FC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R5**	**4**	**1**	**4,207,424:84:0**	
3833	97	311	16:10:45.066	165FC4A	7SCAN	NORM,70.372,24.4	Check S/P Position	2R5	4	1	4,207,424:90:0	
3834	**97**	**311**	**16:11:41.733**	**127FC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,207,425:84:0**	
3835	97	311	16:11:41.733	127FC	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,207,425:84:0	
3836	**97**	**311**	**16:11:42.400**	**127FC4B**	**37ETB**	**07,C7,02,25,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,207,425:85:0**	
3837	97	311	16:11:50.400	127FC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,207,426:06:0	
3838	97	311	16:12:35.066	175FC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,207,426:73:0	
3839	97	311	16:12:35.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3951.83 +/- 5	2R3	4	0	4,207,426:73:0	
3840	97	311	16:12:36.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3951.95 +/- 5	2R3	4	0	4,207,426:75:1	
3841	97	311	16:12:37.733	117FC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,207,426:77:0	
3842	97	311	16:12:41.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3953.18 +/- 5	2R3	4	0	4,207,426:83:0	
3843	97	311	16:12:42.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3953.24 +/- 5	2R3	4	0	4,207,426:84:8	
3844	97	311	16:12:43.733	175FC176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	4,207,426:86:0	
3845	97	311	16:12:44.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3953.12 +/- 5	2R3	4	0	4,207,426:86:9	
3846	97	311	16:12:44.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3953.12 +/- 5	2R3	4	0	4,207,426:86:9	
3847	97	311	16:12:45.733	165FC4B	7VECT		Inert vect update UTC	2R3	4	0	4,207,426:89:0	
3848	**97**	**311**	**16:12:47.066**	**11INCHEMIS02-**	**NIMPBK**	**301EO**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3849	97	311	16:12:47.066	117FC105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.03	2R3	4	0	4,207,427:00:0	
3850	**97**	**311**	**16:15:38.400**	**11INCHEMIS02-**	**DESELC**	**300EO**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
3851	97	311	16:15:49.066	117FC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,207,430:00:0	
3852	97	311	16:15:49.733	175FC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,430:01:0	
3853	97	311	16:15:49.733	175FC6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,207,430:01:0	
3854	97	311	16:15:49.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3909.67 +/- 5	2R3	4	0	4,207,430:01:0	
3855	97	311	16:15:50.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3909.61 +/- 5	2R3	4	0	4,207,430:02:8	
3856	**97**	**311**	**16:15:53.000**	**11INCHEMIS02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
3857	97	311	16:17:02.400	165IR4A	7SCAN	NORM,70.797,24.4	Check S/P Position	2R3	4	0	4,207,431:19:0	
3858	97	311	16:19:55.733	118IR	**SMOS**	GS		2R3	4	0	4,207,434:06:0	
3859	97	311	16:20:37.066	118IR110A111A4A	7STRP	0.00235,0.00005,	Slew =,1.01	2R3	4	0	4,207,434:68:0	
3860	97	311	16:20:47.733	175IR422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,207,434:84:0	
3861	97	311	16:20:47.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3909.61 +/- 5	2R3	4	0	4,207,434:84:0	
3862	97	311	16:20:49.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3909.73 +/- 5	2R3	4	0	4,207,434:86:1	
3863	97	311	16:20:54.400	118IR11A	**SMOS**	GE		2R3	4	0	4,207,435:03:0	
3864	97	311	16:20:54.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3910.96 +/- 5	2R3	4	0	4,207,435:03:0	
3865	97	311	16:20:55.600		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3911.02 +/- 5	2R3	4	0	4,207,435:04:8	
3866	97	311	16:20:59.066	175IR176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,207,435:10:0	
3867	97	311	16:20:59.600		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3904.72 +/- 5	2R3	4	0	4,207,435:10:8	
3868	97	311	16:20:59.600		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3904.72 +/- 5	2R3	4	0	4,207,435:10:8	
3869	97	311	16:21:31.066		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *3794.10 +/- 5	2R3	4	0	4,207,435:58:0	
3870	97	311	16:21:31.066	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,435:58:0	
3871	97	311	16:21:32.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3793.10 +/- 5	2R3	4	0	4,207,435:59:8	
3872	97	311	16:29:58.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3793.10 +/- 5	2R3	4	0	4,207,444:00:0	
3873	97	311	16:29:58.400	411JC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,207,444:00:0	
3874	97	311	16:29:59.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3793.22 +/- 5	2R3	4	0	4,207,444:02:1	
3875	97	311	16:30:05.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3794.45 +/- 5	2R3	4	0	4,207,444:10:0	
3876	97	311	16:30:06.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3794.51 +/- 5	2R3	4	0	4,207,444:11:8	
3877	97	311	16:30:07.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3794.39 +/- 5	2R3	4	0	4,207,444:13:9	
3878	97	311	16:30:07.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3794.39 +/- 5	2R3	4	0	4,207,444:13:9	
3879	97	311	16:30:08.400	411JC6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	4,207,444:15:0	
3880	97	311	16:32:09.733	411JC6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,207,446:15:0	
3881	97	311	16:32:12.400	175TE176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,207,446:19:0	
3882	97	311	16:32:13.066	175TE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,207,446:20:0	
3883	97	311	16:32:19.733	175TE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,446:30:0	
3884	97	311	16:32:19.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3763.44 +/- 5	2R3	4	0	4,207,446:30:0	
3885	97	311	16:32:20.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3763.38 +/- 5	2R3	4	0	4,207,446:31:8	
3886	97	311	18:57:35.066	165GG4A	7SCAN	NORM,75.672999,2	Check S/P Position	2R3	4	0	4,207,589:90:0	
3887	97	311	19:00:37.733	176GG6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,207,593:00:0	
3888	97	311	19:01:29.066	117GG	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,207,593:77:0	
3889	97	311	19:01:38.400	117GG105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.21	2R3	4	0	4,207,594:00:0	
3890	97	311	19:02:05.066	117GG105A106A4B	7STRP	-0.005,0.0005,0,	Slew =12.01	2R3	4	0	4,207,594:40:0	
3891	97	311	19:02:11.733	117GG105A106A4C	7STRP	0.005,0.0,0,0,0,	Slew =,0.21	2R3	4	0	4,207,594:50:0	
3892	97	311	19:02:38.400	117GG105A106A4D	7STRP	-0.005,0.0005,0,	Slew =12.01	2R3	4	0	4,207,594:90:0	
3893	97	311	19:02:45.066	117GG105A106A4E	7STRP	0.005,0.0,0,0,0,	Slew =,0.21	2R3	4	0	4,207,595:09:0	
3894	97	311	19:03:11.733	117GG105A106A4F	7STRP	-0.005,0.0005,0,	Slew =12.01	2R3	4	0	4,207,595:49:0	
3895	97	311	19:03:18.400	117GG105A106A4G	7STRP	0.005,0.0,0,0,0,	Slew =,0.21	2R3	4	0	4,207,595:59:0	
3896	97	311	19:03:45.066	117GG105A106A4H	7STRP	-0.005,0.0005,0,	Slew =12.01	2R3	4	0	4,207,596:08:0	
3897	97	311	19:03:51.733	117GG105A106A4I	7STRP	0.005,0.0,0,0,0,	Slew =,0.21	2R3	4	0	4,207,596:18:0	
3898	97	311	19:04:18.400	117GG105A106A4J	7STRP	-0.005,0.0005,0,	Slew =12.01	2R3	4	0	4,207,596:58:0	
3899	97	311	19:04:25.066	117GG105A106A4K	7STRP	0.005,0.0,0,0,0,	Slew =,0.21	2R3	4	0	4,207,596:68:0	
3900	97	311	19:04:51.733	117GG105A106A4L	7STRP	-0.005,0.0005,0,	Slew =12.01	2R3	4	0	4,207,597:17:0	
3901	97	311	19:04:58.400	117GG105A106A4M	7STRP	0.005,0.0,0,0,0,	Slew =,0.21	2R3	4	0	4,207,597:27:0	
3902	97	311	19:05:25.066	117GG105A106A4N	7STRP	-0.005,0.0005,0,	Slew =12.01	2R3	4	0	4,207,597:67:0	
3903	97	311	19:05:31.733	117GG105A106A4O	7STRP	0.005,0.0,0,0,0,	Slew =,0.21	2R3	4	0	4,207,597:77:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3904	97	311	19:05:58.400	176GG6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,207,598:26:0	
3905	97	311	19:05:58.400	117GG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,207,598:26:0	
3906	97	311	19:06:00.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3763.38 +/- 5	2R3	4	0	4,207,598:29:0	
3907	97	311	19:06:00.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,207,598:29:0	
3908	97	311	19:06:01.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3763.50 +/- 5	2R3	4	0	4,207,598:31:1	
3909	97	311	19:06:07.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3764.73 +/- 5	2R3	4	0	4,207,598:39:0	
3910	97	311	19:06:08.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3764.79 +/- 5	2R3	4	0	4,207,598:40:8	
3911	97	311	19:06:09.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC *3764.67 +/- 5	2R3	4	0	4,207,598:42:9	
3912	97	311	19:06:10.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3764.50 +/- 5	2R3	4	0	4,207,598:44:0	
3913	97	311	19:06:24.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,598:65:0	
3914	97	311	19:06:24.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3761.22 +/- 5	2R3	4	0	4,207,598:65:0	
3915	97	311	19:06:25.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3761.16 +/- 5	2R3	4	0	4,207,598:66:8	
3916	**97**	**311**	**19:10:48.333**	**11INVOLCAN01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
3917	97	311	19:11:44.400	165FD4A	7SCAN	NORM,75.938,24.9	Check S/P Position	2R3	4	0	4,207,603:90:0	
3918	**97**	**311**	**19:13:41.733**	**125FD4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,207,605:84:0**	
3919	97	311	19:13:41.733	125FD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,207,605:84:0	
3920	97	311	19:13:41.733	125FD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,207,605:84:0	
3921	97	311	19:14:42.400	127FD	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,207,606:84:0	
3922	**97**	**311**	**19:14:43.066**	**127FD4A**	**37ETB**	**07,C7,03,A1,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,207,606:85:0**	
3923	97	311	19:14:51.066	127FD11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,207,607:06:0	
3924	97	311	19:15:35.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3761.16 +/- 5	4R3	4	0	4,207,607:73:0	
3925	97	311	19:15:35.733	175FD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,207,607:73:0	
3926	97	311	19:15:37.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3761.28 +/- 5	4R3	4	0	4,207,607:75:1	
3927	97	311	19:15:38.400	117FD	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,207,607:77:0	
3928	97	311	19:15:42.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3762.51 +/- 5	4R3	4	0	4,207,607:83:0	
3929	97	311	19:15:43.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3762.57 +/- 5	4R3	4	0	4,207,607:84:8	
3930	97	311	19:15:44.400	175FD176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,207,607:86:0	
3931	97	311	19:15:45.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3762.45 +/- 5	4R3	4	0	4,207,607:86:9	
3932	97	311	19:15:45.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3762.45 +/- 5	4R3	4	0	4,207,607:86:9	
3933	97	311	19:15:46.400	165FD4B	7VECT		Inert vect update UTC	4R3	4	0	4,207,607:89:0	
3934	97	311	19:15:47.733	117FD105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,207,608:00:0	
3935	**97**	**311**	**19:15:48.400**	**11INVOLCAN01-**	**NIMPBK**	**301EP**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**	
3936	97	311	19:18:38.400	117FD11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,207,610:74:0	
3937	**97**	**311**	**19:18:39.066**	**11INVOLCAN01-**	**DESELC**	**300EP**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**	
3938	97	311	19:18:50.400	175FD6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,207,611:01:0	
3939	97	311	19:18:50.400	175FD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,611:01:0	
3940	97	311	19:18:50.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3719.00 +/- 5	4R3	4	0	4,207,611:01:0	
3941	97	311	19:18:51.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3718.94 +/- 5	4R3	4	0	4,207,611:02:8	
3942	**97**	**311**	**19:19:45.733**	**125KC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,207,611:84:0**	
3943	97	311	19:19:45.733	125KC	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,207,611:84:0	
3944	97	311	19:19:45.733	125KC11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,207,611:84:0	
3945	**97**	**311**	**19:19:54.333**	**11NNHEALTH03-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
3946	**97**	**311**	**19:19:54.333**	**11INVOLCAN01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
3947	97	311	19:20:46.400	127KC	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,207,612:84:0	
3948	**97**	**311**	**19:20:46.400**	**127KC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,207,612:84:0**	
3949	**97**	**311**	**19:20:47.066**	**127KC4B**	**37ETB**	**07,C7,02,80,44,3**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,207,612:85:0**	
3950	97	311	19:20:55.066	127KC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,207,613:06:0	
3951	97	311	19:21:11.066	432DE6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	4,207,613:30:0	
3952	**97**	**311**	**19:22:10.400**	**432DF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,207,614:28:0**	
3953	**97**	**311**	**19:24:57.666**	**11NNHEALTH03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
3954	**97**	**311**	**19:45:11.000**	**11INCHEMIS03-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
3955	97	311	19:46:03.066	127FE	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,207,637:84:0	
3956	**97**	**311**	**19:46:03.733**	**127FE4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,207,637:85:0**	
3957	97	311	19:46:07.066	165FE4A	7SCAN	NORM,76.367999,2	Check S/P Position	2R3	4	0	4,207,637:90:0	
3958	97	311	19:46:11.733	127FE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,207,638:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
3959	97	311	19:46:53.733	175FE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	4,207,638:69:0	
3960	97	311	19:46:53.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3718.94 +/- 5	2R3	4	0	4,207,638:69:0	
3961	97	311	19:46:55.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3719.06 +/- 5	2R3	4	0	4,207,638:71:1	
3962	97	311	19:46:59.066	117FE	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,207,638:77:0	
3963	97	311	19:47:00.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3720.29 +/- 5	2R3	4	0	4,207,638:79:0	
3964	97	311	19:47:01.600		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *3720.35 +/- 5	2R3	4	0	4,207,638:80:8	
3965	97	311	19:47:05.066	175FE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	4,207,638:86:0	
3966	97	311	19:47:05.600		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *3718.85 +/- 5	2R3	4	0	4,207,638:86:8	
3967	97	311	19:47:05.600		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 3718.85 +/- 5	2R3	4	0	4,207,638:86:8	
3968	97	311	19:47:07.066	165FE4B	7VECT		Inert vect update UTC	2R3	4	0	4,207,638:89:0	
3969	97	311	19:47:08.400	117FE105A106A4A	7STRP	0.0035,0.0,0,0,0	Slew =,0.03	2R3	4	0	4,207,639:00:0	
3970	**97**	**311**	**19:47:09.066**	**11INCHEMIS03-**	**NIMPBK**	**301EQ**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
3971	**97**	**311**	**19:49:09.733**	**11INCHEMIS03-**	**DESELC**	**300EQ**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
3972	97	311	19:49:09.733	117FE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,207,641:00:0	
3973	97	311	19:49:13.066		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *3606.82 +/- 5	2R3	4	0	4,207,641:05:0	
3974	97	311	19:49:13.066	175FE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,641:05:0	
3975	**97**	**311**	**19:49:13.666**	**11INCHEMIS03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
3976	97	311	19:49:14.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3606.52 +/- 5	2R3	4	0	4,207,641:06:8	
3977	**97**	**311**	**20:10:27.666**	**11INVOLCAN02-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
3978	97	311	20:11:23.733	165FF4A	7SCAN	NORM,76.615999,2	Check S/P Position	2R3	4	0	4,207,662:90:0	
3979	97	311	20:13:21.066	125LU	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,207,664:84:0	
3980	97	311	20:13:21.066	125LU11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,207,664:84:0	
3981	**97**	**311**	**20:13:21.066**	**125LU4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,207,664:84:0**	
3982	97	311	20:14:21.733	127LU	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,207,665:84:0	
3983	**97**	**311**	**20:14:22.400**	**127LU4A**	**37ETB**	**07,C7,03,A1,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,207,665:85:0**	
3984	97	311	20:14:30.400	127LU11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,207,666:06:0	
3985	97	311	20:15:15.066	175FF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,207,666:73:0	
3986	97	311	20:15:15.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3606.52 +/- 5	4R3	4	0	4,207,666:73:0	
3987	97	311	20:15:16.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3606.64 +/- 5	4R3	4	0	4,207,666:75:1	
3988	97	311	20:15:17.733	117FF	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,207,666:77:0	
3989	97	311	20:15:21.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3607.88 +/- 5	4R3	4	0	4,207,666:83:0	
3990	97	311	20:15:22.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3607.94 +/- 5	4R3	4	0	4,207,666:84:8	
3991	97	311	20:15:23.733	175FF176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,207,666:86:0	
3992	97	311	20:15:24.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3607.82 +/- 5	4R3	4	0	4,207,666:86:9	
3993	97	311	20:15:24.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3607.82 +/- 5	4R3	4	0	4,207,666:86:9	
3994	97	311	20:15:25.733	165FF4B	7VECT		Inert vect update UTC	4R3	4	0	4,207,666:89:0	
3995	97	311	20:15:27.066	117FF105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,207,667:00:0	
3996	**97**	**311**	**20:15:27.733**	**11INVOLCAN02-**	**NIMPBK**	**301ER**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**	
3997	**97**	**311**	**20:16:29.066**	**11INVOLCAN02-**	**NIMPBK**	**301FR**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**	
3998	**97**	**311**	**20:17:58.400**	**11INVOLCAN02-**	**DESELC**	**300FR**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**	
3999	97	311	20:18:17.733	117FF11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,207,669:74:0	
4000	**97**	**311**	**20:18:18.400**	**11INVOLCAN02-**	**DESELC**	**300ER**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**	
4001	97	311	20:18:28.400	165CR4A	7SCAN	NORM,76.61,25.01	Check S/P Position	4R3	4	0	4,207,669:90:0	
4002	97	311	20:18:29.733	175FF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,670:01:0	
4003	97	311	20:18:29.733	175FF6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,207,670:01:0	
4004	97	311	20:18:29.733		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3564.36 +/- 5	4R3	4	0	4,207,670:01:0	
4005	97	311	20:18:30.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3564.30 +/- 5	4R3	4	0	4,207,670:02:8	
4006	97	311	20:19:28.400	165CR4B	7VECT		Inert vect update UTC	4R3	4	0	4,207,670:89:0	
4007	**97**	**311**	**20:19:33.666**	**11INVOLCAN02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
4008	**97**	**311**	**20:20:34.333**	**11NNLDTEST02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
4009	**97**	**311**	**20:21:35.066**	**20EZ5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,207,673:06:0**	
4010	**97**	**311**	**20:21:36.400**	**20EZ5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,207,673:08:0**	
4011	**97**	**311**	**20:21:37.733**	**20EZ6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,207,673:10:0**	
4012	**97**	**311**	**20:21:47.733**	**20EZ6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,207,673:25:0**	
4013	**97**	**311**	**20:21:57.733**	**20EZ5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,207,673:40:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
4014	**97**	**311**	**20:22:17.733**	**20EZ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,207,673:70:0**
4015	**97**	**311**	**20:22:40.400**	**20EZ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,207,674:13:0**
4016	**97**	**311**	**20:23:41.066**	**20EZ4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,207,675:13:0**
4017	**97**	**311**	**20:24:37.000**	**11NNLDTEST02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
4018	**97**	**311**	**21:09:06.333**	**11INVOLCAN03-**		**-----START------**		**2R3**	**4**	**0**	**: :**
4019	97	311	21:09:58.400	125FG11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,207,720:84:0
4020	97	311	21:09:58.400	125FG	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,207,720:84:0
4021	**97**	**311**	**21:09:58.400**	**125FG4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,207,720:84:0**
4022	97	311	21:10:02.400	165FG4A	7SCAN	NORM,76.707999,2	Check S/P Position	4R3	4	0	4,207,720:90:0
4023	97	311	21:10:59.066	127FG	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,207,721:84:0
4024	**97**	**311**	**21:10:59.733**	**127FG4A**	**37ETB**	**07,C7,03,A1,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,207,721:85:0**
4025	97	311	21:11:07.733	127FG11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,207,722:06:0
4026	97	311	21:11:52.400	175FG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,207,722:73:0
4027	97	311	21:11:52.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3564.30 +/- 5	4R3	4	0	4,207,722:73:0
4028	97	311	21:11:53.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3564.42 +/- 5	4R3	4	0	4,207,722:75:1
4029	97	311	21:11:55.066	117FG	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,207,722:77:0
4030	97	311	21:11:59.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3565.66 +/- 5	4R3	4	0	4,207,722:83:0
4031	97	311	21:12:00.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3565.72 +/- 5	4R3	4	0	4,207,722:84:8
4032	97	311	21:12:01.066	175FG176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,207,722:86:0
4033	97	311	21:12:01.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3565.60 +/- 5	4R3	4	0	4,207,722:86:9
4034	97	311	21:12:01.666		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3565.60 +/- 5	4R3	4	0	4,207,722:86:9
4035	97	311	21:12:03.066	165FG4B	7VECT		Inert vect update UTC	4R3	4	0	4,207,722:89:0
4036	97	311	21:12:04.400	117FG105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,207,723:00:0
4037	**97**	**311**	**21:12:05.066**	**11INVOLCAN03-**	**NIMPBK**	**301ES**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**
4038	97	311	21:14:55.733	117FG11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,207,725:75:0
4039	**97**	**311**	**21:14:55.733**	**11INVOLCAN03-**	**DESELC**	**300ES**	**MONITORING OF SELECTED VOLCANIC**	**4R3**	**4**	**0**	**: :**
4040	97	311	21:15:07.066	175FG6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,207,726:01:0
4041	97	311	21:15:07.066	175FG422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,726:01:0
4042	97	311	21:15:07.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3522.15 +/- 5	4R3	4	0	4,207,726:01:0
4043	97	311	21:15:08.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3522.09 +/- 5	4R3	4	0	4,207,726:02:8
4044	**97**	**311**	**21:15:10.333**	**11INVOLCAN03-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
4045	97	311	21:16:19.733	165IS4A	7SCAN	NORM,76.768999,2	Check S/P Position	4R3	4	0	4,207,727:19:0
4046	97	311	21:19:13.066	118IS	**SMOS**	GS		4R3	4	0	4,207,730:06:0
4047	97	311	21:19:54.400	118IS110A111A4A	7STRP	0.0023,0.0,26,0,	Slew =,1.05	4R3	4	0	4,207,730:68:0
4048	97	311	21:20:05.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3522.09 +/- 5	4R3	4	0	4,207,730:84:0
4049	97	311	21:20:05.066	175IS422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,730:84:0
4050	97	311	21:20:06.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3522.21 +/- 5	4R3	4	0	4,207,730:86:1
4051	97	311	21:20:11.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3523.44 +/- 5	4R3	4	0	4,207,731:03:0
4052	97	311	21:20:11.733	118IS11A	**SMOS**	GE		4R3	4	0	4,207,731:03:0
4053	97	311	21:20:12.933		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3523.50 +/- 5	4R3	4	0	4,207,731:04:8
4054	97	311	21:20:16.400	175IS176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,731:10:0
4055	97	311	21:20:16.933		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3517.20 +/- 5	4R3	4	0	4,207,731:10:8
4056	97	311	21:20:16.933		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3517.20 +/- 5	4R3	4	0	4,207,731:10:8
4057	97	311	21:20:48.400		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *3406.58 +/- 5	4R3	4	0	4,207,731:58:0
4058	97	311	21:20:48.400	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,731:58:0
4059	97	311	21:20:49.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3405.58 +/- 5	4R3	4	0	4,207,731:59:8
4060	**97**	**311**	**21:21:14.333**	**11NNRELOAD09-**		**-----START------**		**4R3**	**4**	**0**	**: :**
4061	97	311	21:22:15.066	20EJ6A	6CKSUM	NIMS	NIMS,1000,14BC	4R3	4	0	4,207,733:06:0
4062	**97**	**311**	**21:23:15.733**	**20EJ5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,207,734:06:0**
4063	**97**	**311**	**21:24:16.400**	**20EJ5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,207,735:06:0**
4064	**97**	**311**	**21:25:17.066**	**20EJ6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,207,736:06:0**
4065	**97**	**311**	**21:26:17.733**	**20EJ6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,207,737:06:0**
4066	**97**	**311**	**21:27:18.400**	**20EJ5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,207,738:06:0**
4067	**97**	**311**	**21:28:19.066**	**20EJ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,207,739:06:0**
4068	**97**	**311**	**21:29:19.733**	**20EJ4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,207,740:06:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4069	**97**	**311**	**21:30:20.400**	**20EJ4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,207,741:06:0**	
4070	**97**	**311**	**21:31:21.000**	**11NNRELOAD09-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
4071	97	311	22:34:59.066	411JD6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,207,805:00:0	
4072	97	311	22:34:59.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3405.58 +/- 5	2R3	4	0	4,207,805:00:0	
4073	97	311	22:35:00.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3405.70 +/- 5	2R3	4	0	4,207,805:02:1	
4074	97	311	22:35:05.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3406.93 +/- 5	2R3	4	0	4,207,805:10:0	
4075	97	311	22:35:06.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC *3406.99 +/- 5	2R3	4	0	4,207,805:11:8	
4076	97	311	22:35:08.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 3406.87 +/- 5	2R3	4	0	4,207,805:13:9	
4077	97	311	22:35:08.333		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC *3406.87 +/- 5	2R3	4	0	4,207,805:13:9	
4078	97	311	22:35:09.066	411JD6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	4,207,805:15:0	
4079	97	311	22:37:10.333	411JD6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,207,807:15:0	
4080	97	311	22:37:13.000	175TF176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,207,807:19:0	
4081	97	311	22:37:13.666	175TF422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,207,807:20:0	
4082	97	311	22:37:20.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC *3375.93 +/- 5	2R3	4	0	4,207,807:30:0	
4083	97	311	22:37:20.333	175TF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,807:30:0	
4084	97	311	22:37:21.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3375.87 +/- 5	2R3	4	0	4,207,807:31:8	
4085	97	311	22:42:33.666	165JL4A	7SCAN	NORM,60.416,21.7	Check S/P Position	2R3	4	0	4,207,812:45:0	
4086	97	311	22:45:55.666	175JL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,207,815:75:0	
4087	97	311	22:45:55.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3375.87 +/- 5	2R3	4	0	4,207,815:75:0	
4088	97	311	22:45:57.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3375.99 +/- 5	2R3	4	0	4,207,815:77:1	
4089	97	311	22:46:02.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3377.23 +/- 5	2R3	4	0	4,207,815:85:0	
4090	97	311	22:46:03.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *3377.29 +/- 5	2R3	4	0	4,207,815:86:8	
4091	97	311	22:46:07.000	175JL176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,207,816:01:0	
4092	97	311	22:46:07.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 3370.99 +/- 5	2R3	4	0	4,207,816:01:8	
4093	97	311	22:46:07.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *3370.99 +/- 5	2R3	4	0	4,207,816:01:8	
4094	97	311	22:46:08.333	116JL4A	7STRP	-0.005,-0.00833,	Slew =0,4.4	2R3	4	0	4,207,816:03:0	
4095	97	311	22:46:23.666	116JM4A	7STRP	-0.004,-0.00833,	Slew =0,4.4	2R3	4	0	4,207,816:26:0	
4096	97	311	22:46:39.000	116JN4A	7STRP	-0.003,-0.00833,	Slew =0,4.4	2R3	4	0	4,207,816:49:0	
4097	97	311	22:46:53.666	116JO4A	7STRP	-0.001,-0.0085,0	Slew =0,4.4	2R3	4	0	4,207,816:71:0	
4098	97	311	22:47:09.000	116JP4A	7STRP	0.001,-0.0095,0,	Slew =0,4.4	2R3	4	0	4,207,817:03:0	
4099	97	311	22:47:24.333	116JQ4A	7STRP	0.004,-0.01,0,0,	Slew =0,4.4	2R3	4	0	4,207,817:26:0	
4100	97	311	22:47:39.666	116JR4A	7STRP	0.007,-0.012001,	Slew =0,4.4	2R3	4	0	4,207,817:49:0	
4101	97	311	22:48:07.666	175JL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,818:00:0	
4102	97	311	22:48:07.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2948.64 +/- 5	2R3	4	0	4,207,818:00:0	
4103	97	311	22:48:08.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2947.64 +/- 5	2R3	4	0	4,207,818:01:8	
4104	97	311	22:54:15.666	118JL	**SMOS**	GS		2R3	4	0	4,207,824:06:0	
4105	97	311	22:54:47.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2947.64 +/- 5	2R3	4	0	4,207,824:53:0	
4106	97	311	22:54:47.000	175LU422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,207,824:53:0	
4107	97	311	22:54:48.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2947.76 +/- 5	2R3	4	0	4,207,824:55:1	
4108	97	311	22:54:53.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2949.00 +/- 5	2R3	4	0	4,207,824:63:0	
4109	97	311	22:54:54.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2949.06 +/- 5	2R3	4	0	4,207,824:64:8	
4110	97	311	22:54:58.333	175LU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,207,824:70:0	
4111	97	311	22:54:58.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2942.76 +/- 5	2R3	4	0	4,207,824:70:8	
4112	97	311	22:54:58.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2942.76 +/- 5	2R3	4	0	4,207,824:70:8	
4113	97	311	22:54:59.000	118JL110A111A4A	7STRP	-0.0085,0.002,14	Slew =,1.01	2R3	4	0	4,207,824:71:0	
4114	97	311	22:55:12.333	175LU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,825:00:0	
4115	97	311	22:55:12.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2895.41 +/- 5	2R3	4	0	4,207,825:00:0	
4116	97	311	22:55:13.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2894.41 +/- 5	2R3	4	0	4,207,825:01:8	
4117	97	311	23:02:52.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2894.41 +/- 5	2R3	4	0	4,207,832:53:0	
4118	97	311	23:02:52.333	175LV422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,207,832:53:0	
4119	97	311	23:02:53.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2894.53 +/- 5	2R3	4	0	4,207,832:55:1	
4120	97	311	23:02:59.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2895.77 +/- 5	2R3	4	0	4,207,832:63:0	
4121	97	311	23:03:00.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2895.83 +/- 5	2R3	4	0	4,207,832:64:8	
4122	97	311	23:03:03.666	175LV176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,207,832:70:0	
4123	97	311	23:03:04.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2889.53 +/- 5	2R3	4	0	4,207,832:70:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4124	97	311	23:03:04.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2889.53 +/- 5	2R3	4	0	4,207,832:70:8	
4125	97	311	23:03:17.666	175LV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,833:00:0	
4126	97	311	23:03:17.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2842.18 +/- 5	2R3	4	0	4,207,833:00:0	
4127	97	311	23:03:18.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2841.18 +/- 5	2R3	4	0	4,207,833:01:8	
4128	97	311	23:10:57.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2841.18 +/- 5	2R3	4	0	4,207,840:53:0	
4129	97	311	23:10:57.666	175LW422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,207,840:53:0	
4130	97	311	23:10:59.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2841.30 +/- 5	2R3	4	0	4,207,840:55:1	
4131	97	311	23:11:04.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2842.54 +/- 5	2R3	4	0	4,207,840:63:0	
4132	97	311	23:11:05.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2842.60 +/- 5	2R3	4	0	4,207,840:64:8	
4133	97	311	23:11:09.000	175LW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,207,840:70:0	
4134	97	311	23:11:09.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2836.30 +/- 5	2R3	4	0	4,207,840:70:8	
4135	97	311	23:11:09.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2836.30 +/- 5	2R3	4	0	4,207,840:70:8	
4136	97	311	23:11:23.000	175LW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,841:00:0	
4137	97	311	23:11:23.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2788.95 +/- 5	2R3	4	0	4,207,841:00:0	
4138	97	311	23:11:24.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2787.95 +/- 5	2R3	4	0	4,207,841:01:8	
4139	97	311	23:19:03.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2787.95 +/- 5	2R3	4	0	4,207,848:53:0	
4140	97	311	23:19:03.000	175LX422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,207,848:53:0	
4141	97	311	23:19:04.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2788.07 +/- 5	2R3	4	0	4,207,848:55:1	
4142	97	311	23:19:09.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2789.31 +/- 5	2R3	4	0	4,207,848:63:0	
4143	97	311	23:19:10.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2789.37 +/- 5	2R3	4	0	4,207,848:64:8	
4144	97	311	23:19:14.333	175LX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,207,848:70:0	
4145	97	311	23:19:14.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2783.07 +/- 5	2R3	4	0	4,207,848:70:8	
4146	97	311	23:19:14.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2783.07 +/- 5	2R3	4	0	4,207,848:70:8	
4147	97	311	23:19:28.333	175LX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,849:00:0	
4148	97	311	23:19:28.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2735.73 +/- 5	2R3	4	0	4,207,849:00:0	
4149	97	311	23:19:29.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2734.73 +/- 5	2R3	4	0	4,207,849:01:8	
4150	97	311	23:27:08.333	175LY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,207,856:53:0	
4151	97	311	23:27:08.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2734.73 +/- 5	2R3	4	0	4,207,856:53:0	
4152	97	311	23:27:09.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2734.85 +/- 5	2R3	4	0	4,207,856:55:1	
4153	97	311	23:27:15.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2736.08 +/- 5	2R3	4	0	4,207,856:63:0	
4154	97	311	23:27:16.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2736.14 +/- 5	2R3	4	0	4,207,856:64:8	
4155	97	311	23:27:19.666	175LY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,207,856:70:0	
4156	97	311	23:27:20.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2729.84 +/- 5	2R3	4	0	4,207,856:70:8	
4157	97	311	23:27:20.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2729.84 +/- 5	2R3	4	0	4,207,856:70:8	
4158	97	311	23:27:33.666	175LY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,857:00:0	
4159	97	311	23:27:33.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2682.50 +/- 5	2R3	4	0	4,207,857:00:0	
4160	97	311	23:27:34.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2681.50 +/- 5	2R3	4	0	4,207,857:01:8	
4161	97	311	23:35:13.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2681.50 +/- 5	2R3	4	0	4,207,864:53:0	
4162	97	311	23:35:13.666	175LZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,207,864:53:0	
4163	97	311	23:35:15.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2681.62 +/- 5	2R3	4	0	4,207,864:55:1	
4164	97	311	23:35:20.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2682.85 +/- 5	2R3	4	0	4,207,864:63:0	
4165	97	311	23:35:21.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2682.91 +/- 5	2R3	4	0	4,207,864:64:8	
4166	97	311	23:35:25.000	175LZ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,207,864:70:0	
4167	97	311	23:35:25.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2676.61 +/- 5	2R3	4	0	4,207,864:70:8	
4168	97	311	23:35:25.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2676.61 +/- 5	2R3	4	0	4,207,864:70:8	
4169	97	311	23:35:25.666	118JL11A	**SMOS**	GE		2R3	4	0	4,207,864:71:0	
4170	97	311	23:35:39.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2626.92 +/- 5	2R3	4	0	4,207,865:01:0	
4171	97	311	23:35:39.666	175LZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,865:01:0	
4172	97	311	23:35:40.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2625.92 +/- 5	2R3	4	0	4,207,865:02:8	
4173	**97**	**311**	**23:40:46.333**	**11INHRSPEC01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
4174	97	311	23:41:42.333	165FI4A	7SCAN	NORM,74.377999,2	Check S/P Position	2R3	4	0	4,207,870:90:0	
4175	97	311	23:44:40.333	127FI	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,207,873:84:0	
4176	**97**	**311**	**23:44:41.000**	**127FI4A**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,207,873:85:0**	
4177	97	311	23:44:49.000	127FI11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,207,874:06:0	
4178	97	311	23:45:31.000	175FI422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	4,207,874:69:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4179	97	311	23:45:31.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2625.92 +/- 5	2R3	4	0	4,207,874	69:0
4180	97	311	23:45:32.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2626.04 +/- 5	2R3	4	0	4,207,874	71:1
4181	97	311	23:45:36.333	117FI	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,207,874	77:0
4182	97	311	23:45:37.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2627.28 +/- 5	2R3	4	0	4,207,874	79:0
4183	97	311	23:45:38.866		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *2627.34 +/- 5	2R3	4	0	4,207,874	80:8
4184	97	311	23:45:42.333	175FI176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	4,207,874	86:0
4185	97	311	23:45:42.866		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *2625.84 +/- 5	2R3	4	0	4,207,874	86:8
4186	97	311	23:45:42.866		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 2625.84 +/- 5	2R3	4	0	4,207,874	86:8
4187	97	311	23:45:44.333	165FI4B	7VECT		Inert vect update UTC	2R3	4	0	4,207,874	89:0
4188	**97**	**311**	**23:45:45.666**	**11INHRSPEC01-**	**NIMPBK**	**301ET**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**:**	**:**
4189	97	311	23:45:45.666	117FI105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.03	2R3	4	0	4,207,875	00:0
4190	**97**	**311**	**23:47:01.000**	**11INHRSPEC01-**	**NIMPBK**	**301FQ**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**:**	**:**
4191	**97**	**311**	**23:47:09.666**	**11INHRSPEC01-**	**DESELC**	**300ET**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**:**	**:**
4192	**97**	**311**	**23:48:36.333**	**11INHRSPEC01-**	**DESELC**	**300FQ**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**:**	**:**
4193	97	311	23:48:36.333	117FI11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,207,877	74:0
4194	97	311	23:48:39.666		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *2470.45 +/- 5	2R3	4	0	4,207,877	79:0
4195	97	311	23:48:39.666	175FI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,207,877	79:0
4196	97	311	23:48:40.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2470.15 +/- 5	2R3	4	0	4,207,877	80:8
4197	97	311	23:48:47.000	165FJ4A	7SCAN	NORM,74.191999,2	Check S/P Position	2R3	4	0	4,207,877	90:0
4198	**97**	**311**	**23:48:51.666**	**11INNSPEC_01-**		**-----START------**		**2R3**	**4**	**0**	**:**	**:**
4199	**97**	**311**	**23:48:51.666**	**11INHRSPEC01-**		**-----STOP-------**		**2R3**	**4**	**0**	**:**	**:**
4200	97	311	23:50:44.333	125FJ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,207,879	84:0
4201	97	311	23:50:44.333	125FJ11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,207,879	84:0
4202	**97**	**311**	**23:50:44.333**	**125FJ4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,207,879**	**84:0**
4203	97	311	23:52:35.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2470.15 +/- 5	4R3	4	0	4,207,881	69:0
4204	97	311	23:52:35.666	175FJ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	4,207,881	69:0
4205	97	311	23:52:37.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2470.27 +/- 5	4R3	4	0	4,207,881	71:1
4206	97	311	23:52:41.000	117FJ	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,207,881	77:0
4207	97	311	23:52:42.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2471.50 +/- 5	4R3	4	0	4,207,881	79:0
4208	97	311	23:52:43.533		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *2471.56 +/- 5	4R3	4	0	4,207,881	80:8
4209	97	311	23:52:47.000	175FJ176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,207,881	86:0
4210	97	311	23:52:47.533		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *2470.06 +/- 5	4R3	4	0	4,207,881	86:8
4211	97	311	23:52:47.533		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 2470.06 +/- 6	4R3	4	0	4,207,881	86:8
4212	97	311	23:52:49.000	165FJ4B	7VECT		Inert vect update UTC	4R3	4	0	4,207,881	89:0
4213	**97**	**311**	**23:52:50.333**	**11INNSPEC 01-**	**NIMPBK**	**301EU**	**NIGHTSIDE SPECTRA AT HIGH RESOLU**	**4R3**	**4**	**0**	**:**	**:**
4214	97	311	23:52:50.333	117FJ105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,207,882	00:0
4215	**97**	**311**	**23:54:05.666**	**11INNSPEC 01-**	**NIMPBK**	**301FP**	**NIGHTSIDE SPECTRA AT HIGH RESOLU**	**4R3**	**4**	**0**	**:**	**:**
4216	**97**	**311**	**23:54:14.333**	**11INNSPEC 01-**	**DESELC**	**300EU**	**NIGHTSIDE SPECTRA AT HIGH RESOLU**	**4R3**	**4**	**0**	**:**	**:**
4217	**97**	**311**	**23:55:39.666**	**11INNSPEC 01-**	**DESELC**	**300FP**	**NIGHTSIDE SPECTRA AT HIGH RESOLU**	**4R3**	**4**	**0**	**:**	**:**
4218	97	311	23:55:41.000	117FJ11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,207,884	74:0
4219	97	311	23:55:41.666	175FJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,884	75:0
4220	97	311	23:55:41.666		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *2317.01 +/- 6	4R3	4	0	4,207,884	75:0
4221	97	311	23:55:42.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2316.71 +/- 6	4R3	4	0	4,207,884	76:8
4222	**97**	**311**	**23:55:56.332**	**11INNSPEC_01-**		**-----STOP-------**		**4R3**	**4**	**0**	**:**	**:**
4223	97	312	00:00:07.666	165IT4A	7SCAN	NORM,74.0,24.641	Check S/P Position	4R3	4	0	4,207,889	19:0
4224	97	312	00:03:01.000	118IT	**SMOS**	GS		4R3	4	0	4,207,892	06:0
4225	97	312	00:03:42.333	118IT110A111A4A	7STRP	0.0025,-0.00004,	Slew =,1.05	4R3	4	0	4,207,892	68:0
4226	97	312	00:03:53.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2316.71 +/- 6	4R3	4	0	4,207,892	84:0
4227	97	312	00:03:53.000	175IT422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,892	84:0
4228	97	312	00:03:54.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2316.83 +/- 6	4R3	4	0	4,207,892	86:1
4229	97	312	00:03:59.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2318.07 +/- 6	4R3	4	0	4,207,893	03:0
4230	97	312	00:03:59.666	118IT11A	**SMOS**	GE		4R3	4	0	4,207,893	03:0
4231	97	312	00:04:00.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2318.13 +/- 6	4R3	4	0	4,207,893	04:8
4232	97	312	00:04:04.333	175IT176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,893	10:0
4233	97	312	00:04:04.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2311.83 +/- 6	4R3	4	0	4,207,893	10:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4234	97	312	00:04:04.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2311.83 +/- 6	4R3	4	0	4,207,893:10:8	
4235	97	312	00:04:35.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2203.55 +/- 6	4R3	4	0	4,207,893:57:0	
4236	97	312	00:04:35.666	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,893:57:0	
4237	97	312	00:04:36.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2202.55 +/- 6	4R3	4	0	4,207,893:58:8	
4238	97	312	00:05:28.333	165JM4A	7SCAN	NORM,60.12,21.69	Check S/P Position	4R3	4	0	4,207,894:45:0	
4239	97	312	00:12:07.666	175JM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,901:07:0	
4240	97	312	00:12:07.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2202.55 +/- 6	4R3	4	0	4,207,901:07:0	
4241	97	312	00:12:09.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2202.67 +/- 6	4R3	4	0	4,207,901:09:1	
4242	97	312	00:12:14.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2203.90 +/- 6	4R3	4	0	4,207,901:17:0	
4243	97	312	00:12:15.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2203.96 +/- 6	4R3	4	0	4,207,901:18:8	
4244	97	312	00:12:19.000	175JM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,901:24:0	
4245	97	312	00:12:19.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2197.66 +/- 6	4R3	4	0	4,207,901:24:8	
4246	97	312	00:12:19.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2197.66 +/- 6	4R3	4	0	4,207,901:24:8	
4247	97	312	00:12:33.666	175JM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,901:46:0	
4248	97	312	00:12:33.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2147.97 +/- 6	4R3	4	0	4,207,901:46:0	
4249	97	312	00:12:34.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2146.97 +/- 6	4R3	4	0	4,207,901:47:8	
4250	97	312	00:13:07.666	118JM	**SMOS**	GS		4R3	4	0	4,207,902:06:0	
4251	97	312	00:13:39.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2146.97 +/- 6	4R3	4	0	4,207,902:53:0	
4252	97	312	00:13:39.000	175JN422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,902:53:0	
4253	97	312	00:13:40.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2147.09 +/- 6	4R3	4	0	4,207,902:55:1	
4254	97	312	00:13:45.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2148.33 +/- 6	4R3	4	0	4,207,902:63:0	
4255	97	312	00:13:46.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2148.39 +/- 6	4R3	4	0	4,207,902:64:8	
4256	97	312	00:13:50.333	175JN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,902:70:0	
4257	97	312	00:13:50.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2142.09 +/- 6	4R3	4	0	4,207,902:70:8	
4258	97	312	00:13:50.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2142.09 +/- 6	4R3	4	0	4,207,902:70:8	
4259	97	312	00:13:51.000	118JM110A111A4A	7STRP	-0.003,-0.00813,	Slew =,1.01	4R3	4	0	4,207,902:71:0	
4260	97	312	00:14:04.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2094.75 +/- 6	4R3	4	0	4,207,903:00:0	
4261	97	312	00:14:04.333	175JN422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,903:00:0	
4262	97	312	00:14:05.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2093.75 +/- 6	4R3	4	0	4,207,903:01:8	
4263	97	312	00:17:11.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2093.75 +/- 6	4R3	4	0	4,207,906:07:0	
4264	97	312	00:17:11.000	175JO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,906:07:0	
4265	97	312	00:17:12.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2093.87 +/- 6	4R3	4	0	4,207,906:09:1	
4266	97	312	00:17:17.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2095.10 +/- 6	4R3	4	0	4,207,906:17:0	
4267	97	312	00:17:18.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2095.16 +/- 6	4R3	4	0	4,207,906:18:8	
4268	97	312	00:17:22.333	175JO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,906:24:0	
4269	97	312	00:17:22.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2088.86 +/- 6	4R3	4	0	4,207,906:24:8	
4270	97	312	00:17:22.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2088.86 +/- 6	4R3	4	0	4,207,906:24:8	
4271	97	312	00:17:37.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *2039.17 +/- 6	4R3	4	0	4,207,906:46:0	
4272	97	312	00:17:37.000	175JO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,906:46:0	
4273	97	312	00:17:38.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2038.17 +/- 6	4R3	4	0	4,207,906:47:8	
4274	97	312	00:18:42.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2038.17 +/- 6	4R3	4	0	4,207,907:53:0	
4275	97	312	00:18:42.333	175JP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,907:53:0	
4276	97	312	00:18:43.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2038.29 +/- 6	4R3	4	0	4,207,907:55:1	
4277	97	312	00:18:49.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2039.53 +/- 6	4R3	4	0	4,207,907:63:0	
4278	97	312	00:18:50.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *2039.59 +/- 6	4R3	4	0	4,207,907:64:8	
4279	97	312	00:18:53.666	175JP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,907:70:0	
4280	97	312	00:18:54.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *2033.29 +/- 6	4R3	4	0	4,207,907:70:8	
4281	97	312	00:18:54.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 2033.29 +/- 6	4R3	4	0	4,207,907:70:8	
4282	97	312	00:19:07.666	175JP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,908:00:0	
4283	97	312	00:19:07.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1985.94 +/- 6	4R3	4	0	4,207,908:00:0	
4284	97	312	00:19:08.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1984.94 +/- 6	4R3	4	0	4,207,908:01:8	
4285	97	312	00:22:14.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1984.94 +/- 6	4R3	4	0	4,207,911:07:0	
4286	97	312	00:22:14.333	175JQ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,911:07:0	
4287	97	312	00:22:15.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1985.06 +/- 6	4R3	4	0	4,207,911:09:1	
4288	97	312	00:22:21.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1986.30 +/- 6	4R3	4	0	4,207,911:17:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4289	97	312	00:22:22.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1986.36 +/- 6	4R3	4	0	4,207,911:18:8	
4290	97	312	00:22:25.666	175JQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,911:24:0	
4291	97	312	00:22:26.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1980.06 +/- 6	4R3	4	0	4,207,911:24:8	
4292	97	312	00:22:26.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1980.06 +/- 6	4R3	4	0	4,207,911:24:8	
4293	97	312	00:22:40.333	175JQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,911:46:0	
4294	97	312	00:22:40.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1930.37 +/- 6	4R3	4	0	4,207,911:46:0	
4295	97	312	00:22:41.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1929.37 +/- 6	4R3	4	0	4,207,911:47:8	
4296	97	312	00:23:45.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1929.37 +/- 6	4R3	4	0	4,207,912:53:0	
4297	97	312	00:23:45.666	175JR422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,912:53:0	
4298	97	312	00:23:47.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1929.49 +/- 6	4R3	4	0	4,207,912:55:1	
4299	97	312	00:23:52.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1930.72 +/- 6	4R3	4	0	4,207,912:63:0	
4300	97	312	00:23:53.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1930.78 +/- 6	4R3	4	0	4,207,912:64:8	
4301	97	312	00:23:57.000	175JR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,912:70:0	
4302	97	312	00:23:57.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1924.48 +/- 6	4R3	4	0	4,207,912:70:8	
4303	97	312	00:23:57.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1924.48 +/- 6	4R3	4	0	4,207,912:70:8	
4304	97	312	00:24:11.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1877.14 +/- 6	4R3	4	0	4,207,913:00:0	
4305	97	312	00:24:11.000	175JR422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,913:00:0	
4306	97	312	00:24:12.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1876.14 +/- 6	4R3	4	0	4,207,913:01:8	
4307	97	312	00:27:17.666	175JS422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,916:07:0	
4308	97	312	00:27:17.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1876.14 +/- 6	4R3	4	0	4,207,916:07:0	
4309	97	312	00:27:19.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1876.26 +/- 6	4R3	4	0	4,207,916:09:1	
4310	97	312	00:27:24.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1877.49 +/- 6	4R3	4	0	4,207,916:17:0	
4311	97	312	00:27:25.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1877.55 +/- 6	4R3	4	0	4,207,916:18:8	
4312	97	312	00:27:29.000	175JS176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,916:24:0	
4313	97	312	00:27:29.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1871.25 +/- 6	4R3	4	0	4,207,916:24:8	
4314	97	312	00:27:29.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1871.25 +/- 6	4R3	4	0	4,207,916:24:8	
4315	97	312	00:27:43.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1821.57 +/- 6	4R3	4	0	4,207,916:46:0	
4316	97	312	00:27:43.666	175JS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,916:46:0	
4317	97	312	00:27:44.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1820.57 +/- 6	4R3	4	0	4,207,916:47:8	
4318	97	312	00:28:49.000	175JT422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,917:53:0	
4319	97	312	00:28:49.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1820.57 +/- 6	4R3	4	0	4,207,917:53:0	
4320	97	312	00:28:50.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1820.69 +/- 6	4R3	4	0	4,207,917:55:1	
4321	97	312	00:28:55.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1821.92 +/- 6	4R3	4	0	4,207,917:63:0	
4322	97	312	00:28:56.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1821.98 +/- 6	4R3	4	0	4,207,917:64:8	
4323	97	312	00:29:00.333	175JT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,917:70:0	
4324	97	312	00:29:00.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1815.68 +/- 6	4R3	4	0	4,207,917:70:8	
4325	97	312	00:29:00.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1815.68 +/- 6	4R3	4	0	4,207,917:70:8	
4326	97	312	00:29:14.333	175JT422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,918:00:0	
4327	97	312	00:29:14.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1768.34 +/- 6	4R3	4	0	4,207,918:00:0	
4328	97	312	00:29:15.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1767.34 +/- 6	4R3	4	0	4,207,918:01:8	
4329	97	312	00:32:21.000	175JU422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,921:07:0	
4330	97	312	00:32:21.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1767.34 +/- 6	4R3	4	0	4,207,921:07:0	
4331	97	312	00:32:22.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1767.46 +/- 6	4R3	4	0	4,207,921:09:1	
4332	97	312	00:32:27.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1768.69 +/- 6	4R3	4	0	4,207,921:17:0	
4333	97	312	00:32:28.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1768.75 +/- 6	4R3	4	0	4,207,921:18:8	
4334	97	312	00:32:32.333	175JU176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,921:24:0	
4335	97	312	00:32:32.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1762.45 +/- 6	4R3	4	0	4,207,921:24:8	
4336	97	312	00:32:32.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1762.45 +/- 6	4R3	4	0	4,207,921:24:8	
4337	97	312	00:32:47.000	175JU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,921:46:0	
4338	97	312	00:32:47.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1712.76 +/- 6	4R3	4	0	4,207,921:46:0	
4339	97	312	00:32:48.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1711.76 +/- 6	4R3	4	0	4,207,921:47:8	
4340	97	312	00:33:52.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1711.76 +/- 6	4R3	4	0	4,207,922:53:0	
4341	97	312	00:33:52.333	175JV422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,922:53:0	
4342	97	312	00:33:53.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1711.88 +/- 6	4R3	4	0	4,207,922:55:1	
4343	97	312	00:33:59.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1713.12 +/- 6	4R3	4	0	4,207,922:63:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4344	97	312	00:34:00.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1713.18 +/- 6	4R3	4	0	4,207,922:64:8	
4345	97	312	00:34:03.666	175JV176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,922:70:0	
4346	97	312	00:34:04.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1706.88 +/- 6	4R3	4	0	4,207,922:70:8	
4347	97	312	00:34:04.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1706.88 +/- 6	4R3	4	0	4,207,922:70:8	
4348	97	312	00:34:17.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1659.54 +/- 6	4R3	4	0	4,207,923:00:0	
4349	97	312	00:34:17.666	175JV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,923:00:0	
4350	97	312	00:34:18.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1658.54 +/- 6	4R3	4	0	4,207,923:01:8	
4351	97	312	00:37:24.333	175JW422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,926:07:0	
4352	97	312	00:37:24.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1658.54 +/- 6	4R3	4	0	4,207,926:07:0	
4353	97	312	00:37:25.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1658.66 +/- 6	4R3	4	0	4,207,926:09:1	
4354	97	312	00:37:31.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1659.89 +/- 6	4R3	4	0	4,207,926:17:0	
4355	97	312	00:37:32.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1659.95 +/- 6	4R3	4	0	4,207,926:18:8	
4356	97	312	00:37:35.666	175JW176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,926:24:0	
4357	97	312	00:37:36.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1653.65 +/- 6	4R3	4	0	4,207,926:24:8	
4358	97	312	00:37:36.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1653.65 +/- 6	4R3	4	0	4,207,926:24:8	
4359	97	312	00:37:50.333	175JW422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,926:46:0	
4360	97	312	00:37:50.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1603.96 +/- 6	4R3	4	0	4,207,926:46:0	
4361	97	312	00:37:51.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1602.96 +/- 6	4R3	4	0	4,207,926:47:8	
4362	97	312	00:38:55.666	175JX422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,927:53:0	
4363	97	312	00:38:55.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1602.96 +/- 6	4R3	4	0	4,207,927:53:0	
4364	97	312	00:38:57.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1603.08 +/- 6	4R3	4	0	4,207,927:55:1	
4365	97	312	00:39:02.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1604.32 +/- 6	4R3	4	0	4,207,927:63:0	
4366	97	312	00:39:03.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1604.38 +/- 6	4R3	4	0	4,207,927:64:8	
4367	97	312	00:39:07.000	175JX176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,927:70:0	
4368	97	312	00:39:07.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1598.08 +/- 6	4R3	4	0	4,207,927:70:8	
4369	97	312	00:39:07.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1598.08 +/- 6	4R3	4	0	4,207,927:70:8	
4370	97	312	00:39:21.000	175JX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,928:00:0	
4371	97	312	00:39:21.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1550.73 +/- 6	4R3	4	0	4,207,928:00:0	
4372	97	312	00:39:22.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1549.73 +/- 6	4R3	4	0	4,207,928:01:8	
4373	97	312	00:42:27.666	175JY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,931:07:0	
4374	97	312	00:42:27.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1549.73 +/- 6	4R3	4	0	4,207,931:07:0	
4375	97	312	00:42:29.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1549.85 +/- 6	4R3	4	0	4,207,931:09:1	
4376	97	312	00:42:34.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1551.09 +/- 6	4R3	4	0	4,207,931:17:0	
4377	97	312	00:42:35.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1551.15 +/- 6	4R3	4	0	4,207,931:18:8	
4378	97	312	00:42:39.000	175JY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,931:24:0	
4379	97	312	00:42:39.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1544.85 +/- 7	4R3	4	0	4,207,931:24:8	
4380	97	312	00:42:39.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1544.85 +/- 6	4R3	4	0	4,207,931:24:8	
4381	97	312	00:42:53.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1495.16 +/- 7	4R3	4	0	4,207,931:46:0	
4382	97	312	00:42:53.666	175JY422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,931:46:0	
4383	97	312	00:42:54.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1494.16 +/- 7	4R3	4	0	4,207,931:47:8	
4384	97	312	00:43:59.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1494.16 +/- 7	4R3	4	0	4,207,932:53:0	
4385	97	312	00:43:59.000	175JZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,932:53:0	
4386	97	312	00:44:00.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1494.28 +/- 7	4R3	4	0	4,207,932:55:1	
4387	97	312	00:44:05.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1495.51 +/- 7	4R3	4	0	4,207,932:63:0	
4388	97	312	00:44:06.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1495.57 +/- 7	4R3	4	0	4,207,932:64:8	
4389	97	312	00:44:10.333	175JZ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,932:70:0	
4390	97	312	00:44:10.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1489.27 +/- 7	4R3	4	0	4,207,932:70:8	
4391	97	312	00:44:10.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1489.27 +/- 7	4R3	4	0	4,207,932:70:8	
4392	97	312	00:44:24.333	175JZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,933:00:0	
4393	97	312	00:44:24.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1441.93 +/- 7	4R3	4	0	4,207,933:00:0	
4394	97	312	00:44:25.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1440.93 +/- 7	4R3	4	0	4,207,933:01:8	
4395	97	312	00:47:31.000	175LA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,936:07:0	
4396	97	312	00:47:31.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1440.93 +/- 7	4R3	4	0	4,207,936:07:0	
4397	97	312	00:47:32.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1441.05 +/- 7	4R3	4	0	4,207,936:09:1	
4398	97	312	00:47:37.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1442.28 +/- 7	4R3	4	0	4,207,936:17:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4399	97	312	00:47:38.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1442.34 +/- 7	4R3	4	0	4,207,936	18:8
4400	97	312	00:47:42.333	175LA176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,936	24:0
4401	97	312	00:47:42.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1436.04 +/- 7	4R3	4	0	4,207,936	24:8
4402	97	312	00:47:42.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1436.04 +/- 7	4R3	4	0	4,207,936	24:8
4403	97	312	00:47:57.000	175LA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,936	46:0
4404	97	312	00:47:57.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1386.36 +/- 7	4R3	4	0	4,207,936	46:0
4405	97	312	00:47:58.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1385.36 +/- 7	4R3	4	0	4,207,936	47:8
4406	97	312	00:48:31.000	118LB	**SMOS**	GS		4R3	4	0	4,207,937	06:0
4407	97	312	00:49:02.333	175LB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,937	53:0
4408	97	312	00:49:02.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1385.36 +/- 7	4R3	4	0	4,207,937	53:0
4409	97	312	00:49:03.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1385.48 +/- 7	4R3	4	0	4,207,937	55:1
4410	97	312	00:49:09.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1386.71 +/- 7	4R3	4	0	4,207,937	63:0
4411	97	312	00:49:10.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1386.77 +/- 7	4R3	4	0	4,207,937	64:8
4412	97	312	00:49:13.666	175LB176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,937	70:0
4413	97	312	00:49:14.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1380.47 +/- 7	4R3	4	0	4,207,937	70:8
4414	97	312	00:49:14.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1380.47 +/- 7	4R3	4	0	4,207,937	70:8
4415	97	312	00:49:14.333	118LB110A111A4A	7STRP	-0.00813,0.0016,	Slew =,1.01	4R3	4	0	4,207,937	71:0
4416	97	312	00:49:14.333	118JM11A	**SMOS**	GE		4R3	4	0	4,207,937	71:0
4417	97	312	00:49:27.666	175LB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,938	00:0
4418	97	312	00:49:27.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1333.13 +/- 7	4R3	4	0	4,207,938	00:0
4419	97	312	00:49:28.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1332.13 +/- 7	4R3	4	0	4,207,938	01:8
4420	97	312	00:52:34.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1332.13 +/- 7	4R3	4	0	4,207,941	07:0
4421	97	312	00:52:34.333	175LC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,941	07:0
4422	97	312	00:52:35.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1332.25 +/- 7	4R3	4	0	4,207,941	09:1
4423	97	312	00:52:41.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1333.48 +/- 7	4R3	4	0	4,207,941	17:0
4424	97	312	00:52:42.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1333.54 +/- 7	4R3	4	0	4,207,941	18:8
4425	97	312	00:52:45.666	175LC176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,941	24:0
4426	97	312	00:52:46.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1327.24 +/- 7	4R3	4	0	4,207,941	24:8
4427	97	312	00:52:46.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1327.24 +/- 7	4R3	4	0	4,207,941	24:8
4428	97	312	00:53:00.333	175LC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,941	46:0
4429	97	312	00:53:00.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1277.55 +/- 7	4R3	4	0	4,207,941	46:0
4430	97	312	00:53:01.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1276.55 +/- 7	4R3	4	0	4,207,941	47:8
4431	97	312	00:54:05.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1276.55 +/- 7	4R3	4	0	4,207,942	53:0
4432	97	312	00:54:05.666	175LD422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,942	53:0
4433	97	312	00:54:07.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1276.67 +/- 7	4R3	4	0	4,207,942	55:1
4434	97	312	00:54:12.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1277.91 +/- 7	4R3	4	0	4,207,942	63:0
4435	97	312	00:54:13.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1277.97 +/- 7	4R3	4	0	4,207,942	64:8
4436	97	312	00:54:17.000	175LD176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,942	70:0
4437	97	312	00:54:17.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1271.67 +/- 7	4R3	4	0	4,207,942	70:8
4438	97	312	00:54:17.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1271.67 +/- 7	4R3	4	0	4,207,942	70:8
4439	97	312	00:54:31.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1224.33 +/- 7	4R3	4	0	4,207,943	00:0
4440	97	312	00:54:31.000	175LD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,943	00:0
4441	97	312	00:54:32.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1223.33 +/- 7	4R3	4	0	4,207,943	01:8
4442	97	312	00:57:37.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1223.33 +/- 7	4R3	4	0	4,207,946	07:0
4443	97	312	00:57:37.666	175LE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,946	07:0
4444	97	312	00:57:39.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1223.45 +/- 7	4R3	4	0	4,207,946	09:1
4445	97	312	00:57:44.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1224.68 +/- 7	4R3	4	0	4,207,946	17:0
4446	97	312	00:57:45.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1224.74 +/- 7	4R3	4	0	4,207,946	18:8
4447	97	312	00:57:49.000	175LE176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,946	24:0
4448	97	312	00:57:49.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1218.44 +/- 7	4R3	4	0	4,207,946	24:8
4449	97	312	00:57:49.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1218.44 +/- 7	4R3	4	0	4,207,946	24:8
4450	97	312	00:58:03.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1168.75 +/- 7	4R3	4	0	4,207,946	46:0
4451	97	312	00:58:03.666	175LE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,946	46:0
4452	97	312	00:58:04.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1167.75 +/- 7	4R3	4	0	4,207,946	47:8
4453	97	312	00:59:09.000	175LF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,947	53:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4454	97	312	00:59:09.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1167.75 +/- 7	4R3	4	0	4,207,947	53:0
4455	97	312	00:59:10.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1167.87 +/- 7	4R3	4	0	4,207,947	55:1
4456	97	312	00:59:15.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1169.11 +/- 7	4R3	4	0	4,207,947	63:0
4457	97	312	00:59:16.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1169.17 +/- 7	4R3	4	0	4,207,947	64:8
4458	97	312	00:59:20.333	175LF176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,947	70:0
4459	97	312	00:59:20.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1162.87 +/- 7	4R3	4	0	4,207,947	70:8
4460	97	312	00:59:20.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1162.87 +/- 7	4R3	4	0	4,207,947	70:8
4461	97	312	00:59:34.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1115.52 +/- 7	4R3	4	0	4,207,948	00:0
4462	97	312	00:59:34.333	175LF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,948	00:0
4463	97	312	00:59:35.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1114.52 +/- 7	4R3	4	0	4,207,948	01:8
4464	97	312	01:02:41.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1114.52 +/- 7	4R3	4	0	4,207,951	07:0
4465	97	312	01:02:41.000	175LG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,951	07:0
4466	97	312	01:02:42.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1114.64 +/- 7	4R3	4	0	4,207,951	09:1
4467	97	312	01:02:47.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1115.88 +/- 7	4R3	4	0	4,207,951	17:0
4468	97	312	01:02:48.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1115.94 +/- 7	4R3	4	0	4,207,951	18:8
4469	97	312	01:02:52.333	175LG176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,951	24:0
4470	97	312	01:02:52.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1109.64 +/- 7	4R3	4	0	4,207,951	24:8
4471	97	312	01:02:52.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1109.64 +/- 7	4R3	4	0	4,207,951	24:8
4472	97	312	01:03:07.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1059.95 +/- 7	4R3	4	0	4,207,951	46:0
4473	97	312	01:03:07.000	175LG422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,951	46:0
4474	97	312	01:03:08.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1058.95 +/- 7	4R3	4	0	4,207,951	47:8
4475	97	312	01:04:12.333	175LH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,952	53:0
4476	97	312	01:04:12.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1058.95 +/- 7	4R3	4	0	4,207,952	53:0
4477	97	312	01:04:13.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1059.07 +/- 7	4R3	4	0	4,207,952	55:1
4478	97	312	01:04:19.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1060.30 +/- 7	4R3	4	0	4,207,952	63:0
4479	97	312	01:04:20.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1060.36 +/- 7	4R3	4	0	4,207,952	64:8
4480	97	312	01:04:23.666	175LH176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,952	70:0
4481	97	312	01:04:24.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1054.06 +/- 7	4R3	4	0	4,207,952	70:8
4482	97	312	01:04:24.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1054.06 +/- 7	4R3	4	0	4,207,952	70:8
4483	97	312	01:04:37.666	175LH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,953	00:0
4484	97	312	01:04:37.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC *1006.72 +/- 7	4R3	4	0	4,207,953	00:0
4485	97	312	01:04:38.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1005.72 +/- 7	4R3	4	0	4,207,953	01:8
4486	97	312	01:07:44.333	175LI422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,956	07:0
4487	97	312	01:07:44.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1005.72 +/- 7	4R3	4	0	4,207,956	07:0
4488	97	312	01:07:45.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1005.84 +/- 7	4R3	4	0	4,207,956	09:1
4489	97	312	01:07:51.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1007.07 +/- 7	4R3	4	0	4,207,956	17:0
4490	97	312	01:07:52.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC *1007.13 +/- 7	4R3	4	0	4,207,956	18:8
4491	97	312	01:07:55.666	175LI176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,956	24:0
4492	97	312	01:07:56.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC *1000.83 +/- 7	4R3	4	0	4,207,956	24:8
4493	97	312	01:07:56.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 1000.83 +/- 7	4R3	4	0	4,207,956	24:8
4494	97	312	01:08:10.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 951.15 +/- 7	4R3	4	0	4,207,956	46:0
4495	97	312	01:08:10.333	175LI422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,956	46:0
4496	97	312	01:08:11.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 950.15 +/- 7	4R3	4	0	4,207,956	47:8
4497	97	312	01:09:15.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 950.15 +/- 7	4R3	4	0	4,207,957	53:0
4498	97	312	01:09:15.666	175LJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,957	53:0
4499	97	312	01:09:17.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 950.27 +/- 7	4R3	4	0	4,207,957	55:1
4500	97	312	01:09:22.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 951.50 +/- 7	4R3	4	0	4,207,957	63:0
4501	97	312	01:09:23.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 951.56 +/- 7	4R3	4	0	4,207,957	64:8
4502	97	312	01:09:27.000	175LJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,957	70:0
4503	97	312	01:09:27.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 945.26 +/- 7	4R3	4	0	4,207,957	70:8
4504	97	312	01:09:27.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC * 945.26 +/- 7	4R3	4	0	4,207,957	70:8
4505	97	312	01:09:41.000		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 897.92 +/- 7	4R3	4	0	4,207,958	00:0
4506	97	312	01:09:41.000	175LJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,958	00:0
4507	97	312	01:09:42.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 896.92 +/- 7	4R3	4	0	4,207,958	01:8
4508	97	312	01:13:39.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 896.92 +/- 7	4R3	4	0	4,207,961	84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4509	97	312	01:13:39.000	175LK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,961	84:0
4510	97	312	01:13:40.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 897.04 +/- 7	4R3	4	0	4,207,961	86:1
4511	97	312	01:13:45.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 898.27 +/- 7	4R3	4	0	4,207,962	03:0
4512	97	312	01:13:46.866		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 898.33 +/- 7	4R3	4	0	4,207,962	04:8
4513	97	312	01:13:50.333	175LK176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,962	10:0
4514	97	312	01:13:50.866		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC * 892.03 +/- 7	4R3	4	0	4,207,962	10:8
4515	97	312	01:13:50.866		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 892.03 +/- 7	4R3	4	0	4,207,962	10:8
4516	97	312	01:14:31.000	118LB11A	**SMOS**	GE		4R3	4	0	4,207,962	71:0
4517	97	312	01:14:44.333	175LK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,963	00:0
4518	97	312	01:14:44.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 704.06 +/- 7	4R3	4	0	4,207,963	00:0
4519	97	312	01:14:45.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 703.06 +/- 7	4R3	4	0	4,207,963	01:8
4520	97	312	01:18:42.333	175LL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	4	0	4,207,966	84:0
4521	97	312	01:18:42.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 703.06 +/- 7	4R3	4	0	4,207,966	84:0
4522	97	312	01:18:43.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 703.18 +/- 7	4R3	4	0	4,207,966	86:1
4523	97	312	01:18:49.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 704.42 +/- 7	4R3	4	0	4,207,967	03:0
4524	97	312	01:18:50.200		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 704.48 +/- 7	4R3	4	0	4,207,967	04:8
4525	97	312	01:18:53.666	175LL176A6A	6TMREC	HIM	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,207,967	10:0
4526	97	312	01:18:54.200		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 698.18 +/- 7	4R3	4	0	4,207,967	10:8
4527	97	312	01:18:54.200		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC * 698.18 +/- 7	4R3	4	0	4,207,967	10:8
4528	97	312	01:19:48.333	175LL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,207,968	01:0
4529	97	312	01:19:48.333		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 507.87 +/- 7	4R3	4	0	4,207,968	01:0
4530	97	312	01:19:49.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 506.87 +/- 7	4R3	4	0	4,207,968	02:8
4531	97	312	01:40:17.666	488DG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	4,207,988	25:0
4532	97	312	01:50:23.666	488DG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	4,207,998	24:0
4533	97	312	02:57:51.666	165GH4A	7SCAN	NORM,67.546,23.9	Check S/P Position	4R3	4	0	4,208,064	90:0
4534	97	312	03:00:54.333	176GH6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	4,208,068	00:0
4535	97	312	03:01:45.666	117GH	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,208,068	77:0
4536	97	312	03:01:55.000	117GH105A106A4A	7STRP	-0.005,0.0,0,0,0	Slew =,0.21	4R3	4	0	4,208,069	00:0
4537	97	312	03:02:21.666	117GH105A106A4B	7STRP	0.0052,0.0005,0,	Slew =12.01	4R3	4	0	4,208,069	40:0
4538	97	312	03:02:28.333	117GH105A106A4C	7STRP	-0.005,0.0,0,0,0	Slew =,0.21	4R3	4	0	4,208,069	50:0
4539	97	312	03:02:55.000	117GH105A106A4D	7STRP	0.0052,0.0005,0,	Slew =12.01	4R3	4	0	4,208,069	90:0
4540	97	312	03:03:01.666	117GH105A106A4E	7STRP	-0.005,0.0,0,0,0	Slew =,0.21	4R3	4	0	4,208,070	09:0
4541	97	312	03:03:28.333	117GH105A106A4F	7STRP	0.0052,0.0005,0,	Slew =12.01	4R3	4	0	4,208,070	49:0
4542	97	312	03:03:35.000	117GH105A106A4G	7STRP	-0.005,0.0,0,0,0	Slew =,0.21	4R3	4	0	4,208,070	59:0
4543	97	312	03:04:01.666	117GH105A106A4H	7STRP	0.0052,0.0005,0,	Slew =12.01	4R3	4	0	4,208,071	08:0
4544	97	312	03:04:08.333	117GH105A106A4I	7STRP	-0.005,0.0,0,0,0	Slew =,0.21	4R3	4	0	4,208,071	18:0
4545	97	312	03:04:35.000	117GH105A106A4J	7STRP	0.0052,0.0005,0,	Slew =12.01	4R3	4	0	4,208,071	58:0
4546	97	312	03:04:41.666	117GH105A106A4K	7STRP	-0.005,0.0,0,0,0	Slew =,0.21	4R3	4	0	4,208,071	68:0
4547	97	312	03:05:08.333	117GH105A106A4L	7STRP	0.0052,0.0005,0,	Slew =12.01	4R3	4	0	4,208,072	17:0
4548	97	312	03:05:15.000	117GH105A106A4M	7STRP	-0.005,0.0,0,0,0	Slew =,0.21	4R3	4	0	4,208,072	27:0
4549	97	312	03:05:41.666	117GH105A106A4N	7STRP	0.0052,0.0005,0,	Slew =12.01	4R3	4	0	4,208,072	67:0
4550	97	312	03:05:48.333	117GH105A106A4O	7STRP	-0.005,0.0,0,0,0	Slew =,0.21	4R3	4	0	4,208,072	77:0
4551	97	312	03:06:15.000	176GH6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,208,073	26:0
4552	97	312	03:06:15.000	117GH11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,208,073	26:0
4553	97	312	03:06:17.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 506.87 +/- 7	4R3	4	0	4,208,073	29:0
4554	97	312	03:06:17.000	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,208,073	29:0
4555	97	312	03:06:18.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 506.99 +/- 7	4R3	4	0	4,208,073	31:1
4556	97	312	03:06:23.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 508.22 +/- 7	4R3	4	0	4,208,073	39:0
4557	97	312	03:06:24.866		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 508.28 +/- 7	4R3	4	0	4,208,073	40:8
4558	97	312	03:06:26.266		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 508.16 +/- 7	4R3	4	0	4,208,073	42:9
4559	97	312	03:06:27.000		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 507.99 +/- 7	4R3	4	0	4,208,073	44:0
4560	97	312	03:06:41.000	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,073	65:0
4561	97	312	03:06:41.000		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 504.71 +/- 7	4R3	4	0	4,208,073	65:0
4562	97	312	03:06:42.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 504.65 +/- 7	4R3	4	0	4,208,073	66:8
4563	**97**	**312**	**03:19:10.332**	**11NNRELOAD10-**		**-----START------**		**4R3**	**4**	**0**	**:**	**:**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4564	97	312	03:20:11.000	20EK6A	6CKSUM	NIMS	NIMS,1000,14BC	4R3	4	0	4,208,087:06:0	
4565	**97**	**312**	**03:21:11.666**	**20EK5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,208,088:06:0**	
4566	**97**	**312**	**03:22:12.333**	**20EK5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,208,089:06:0**	
4567	**97**	**312**	**03:23:13.000**	**20EK6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,208,090:06:0**	
4568	**97**	**312**	**03:24:13.666**	**20EK6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,208,091:06:0**	
4569	**97**	**312**	**03:25:14.333**	**20EK5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,208,092:06:0**	
4570	97	312	03:25:19.666	165IY4A	7SCAN	NORM,61.493,23.1	Check S/P Position	260	4	0	4,208,092:14:0	
4571	**97**	**312**	**03:26:15.000**	**20EK5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,208,093:06:0**	
4572	**97**	**312**	**03:27:15.666**	**20EK4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,208,094:06:0**	
4573	**97**	**312**	**03:28:16.333**	**20EK4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,208,095:06:0**	
4574	97	312	03:28:47.666		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 504.65 +/- 7	2R3	4	0	4,208,095:53:0	
4575	97	312	03:28:47.666	175IY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	4	0	4,208,095:53:0	
4576	97	312	03:28:49.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 504.77 +/- 7	2R3	4	0	4,208,095:55:1	
4577	97	312	03:28:54.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 506.00 +/- 7	2R3	4	0	4,208,095:63:0	
4578	97	312	03:28:55.533		DMS:	: *RUNUP	R115, TRACK *4, *REV, TIC * 506.06 +/- 7	2R3	4	0	4,208,095:64:8	
4579	97	312	03:28:59.000	175IY176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R3	4	0	4,208,095:70:0	
4580	97	312	03:28:59.533		DMS:	: *AT_SPD	R115, TRACK 4, REV, TIC 499.76 +/- 8	2R3	4	0	4,208,095:70:8	
4581	97	312	03:28:59.533		DMS:	**: *RECORD**	R115, TRACK 4, REV, TIC * 499.76 +/- 7	2R3	4	0	4,208,095:70:8	
4582	97	312	03:29:13.666		DMS:	**: *RUNDOWN**	R115, TRACK 4, REV, TIC * 450.07 +/- 8	2R3	4	0	4,208,096:01:0	
4583	97	312	03:29:13.666	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,208,096:01:0	
4584	97	312	03:29:14.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 449.07 +/- 8	2R3	4	0	4,208,096:02:8	
4585	**97**	**312**	**03:29:16.999**	**11NNRELOAD10-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
4586	**97**	**312**	**03:29:16.999**	**11INCHEMIS04-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
4587	97	312	03:30:13.000	165FL4A	7SCAN	NORM,66.858999,2	Check S/P Position	2R3	4	0	4,208,096:90:0	
4588	97	312	03:31:09.666	127FL	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,208,097:84:0	
4589	**97**	**312**	**03:31:10.333**	**127FL4A**	**37ETB**	**07,C7,02,25,80,0**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,208,097:85:0**	
4590	97	312	03:31:18.333	127FL11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,208,098:06:0	
4591	97	312	03:32:03.000	175FL422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,208,098:73:0	
4592	97	312	03:32:03.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 449.07 +/- 8	2R3	4	0	4,208,098:73:0	
4593	97	312	03:32:04.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 449.19 +/- 8	2R3	4	0	4,208,098:75:1	
4594	97	312	03:32:05.666	117FL	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,208,098:77:0	
4595	97	312	03:32:09.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 450.43 +/- 8	2R3	4	0	4,208,098:83:0	
4596	97	312	03:32:10.866		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 450.49 +/- 8	2R3	4	0	4,208,098:84:8	
4597	97	312	03:32:11.666	175FL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R3	4	0	4,208,098:86:0	
4598	97	312	03:32:12.266		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 450.37 +/- 8	2R3	4	0	4,208,098:86:9	
4599	97	312	03:32:12.266		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 450.37 +/- 8	2R3	4	0	4,208,098:86:9	
4600	97	312	03:32:13.666	165FL4B	7VECT		Inert vect update UTC	2R3	4	0	4,208,098:89:0	
4601	**97**	**312**	**03:32:15.000**	**11INCHEMIS04-**	**NIMPBK**	**301EV**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
4602	97	312	03:32:15.000	117FL105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.03	2R3	4	0	4,208,099:00:0	
4603	97	312	03:35:04.333	117FL11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,208,101:72:0	
4604	**97**	**312**	**03:35:04.333**	**11INCHEMIS04-**	**DESELC**	**300EV**	**MONITORING OF IO'S DAYSIDE**	**2R3**	**4**	**0**	**: :**	
4605	97	312	03:35:16.333	175FL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,208,101:90:0	
4606	97	312	03:35:16.333	175FL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,208,101:90:0	
4607	97	312	03:35:16.333		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 407.23 +/- 8	2R3	4	0	4,208,101:90:0	
4608	97	312	03:35:17.533		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 407.17 +/- 8	2R3	4	0	4,208,102:00:8	
4609	**97**	**312**	**03:35:20.999**	**11INCHEMIS04-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
4610	**97**	**312**	**03:35:20.999**	**11INTHRMAL04-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
4611	97	312	03:36:13.000	125FM	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,208,102:84:0	
4612	**97**	**312**	**03:36:13.000**	**125FM4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,208,102:84:0**	
4613	97	312	03:36:13.000	125FM11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,208,102:84:0	
4614	97	312	03:36:17.000	165FM4A	7SCAN	NORM,66.653999,2	Check S/P Position	4R3	4	0	4,208,102:90:0	
4615	97	312	03:37:13.666	127FM	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,208,103:84:0	
4616	**97**	**312**	**03:37:14.333**	**127FM4A**	**37ETB**	**07,C7,03,A1,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,208,103:85:0**	
4617	97	312	03:37:22.333	127FM11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,208,104:06:0	
4618	97	312	03:38:07.000	175FM422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,208,104:73:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4619	97	312	03:38:07.000		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 407.17 +/- 8	4R3	4	0	4,208,104:73:0	
4620	97	312	03:38:08.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 407.29 +/- 8	4R3	4	0	4,208,104:75:1	
4621	97	312	03:38:09.666	117FM	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,208,104:77:0	
4622	97	312	03:38:13.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 408.52 +/- 8	4R3	4	0	4,208,104:83:0	
4623	97	312	03:38:14.866		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 408.58 +/- 8	4R3	4	0	4,208,104:84:8	
4624	97	312	03:38:15.666	175FM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,208,104:86:0	
4625	97	312	03:38:16.266		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 408.46 +/- 8	4R3	4	0	4,208,104:86:9	
4626	97	312	03:38:16.266		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC 408.46 +/- 8	4R3	4	0	4,208,104:86:9	
4627	97	312	03:38:17.666	165FM4B	7VECT		Inert vect update UTC	4R3	4	0	4,208,104:89:0	
4628	**97**	**312**	**03:38:19.000**	**11INTHRMAL04-**	**NIMPBK**	**301EW**	**MONITORING OF IO'S NIGHTSIDE**	**4R3**	**4**	**0**	**: :**	
4629	97	312	03:38:19.000	117FM105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.03	4R3	4	0	4,208,105:00:0	
4630	97	312	03:41:09.666	117FM11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,208,107:74:0	
4631	**97**	**312**	**03:41:09.666**	**11INTHRMAL04-**	**DESELC**	**300EW**	**MONITORING OF IO'S NIGHTSIDE**	**4R3**	**4**	**0**	**: :**	
4632	97	312	03:41:11.666		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 367.35 +/- 8	4R3	4	0	4,208,107:77:0	
4633	97	312	03:41:11.666	175FM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,107:77:0	
4634	97	312	03:41:11.666	175FM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,208,107:77:0	
4635	97	312	03:41:12.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 367.29 +/- 8	4R3	4	0	4,208,107:78:8	
4636	97	312	03:42:16.333		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 367.29 +/- 8	4R3	4	0	4,208,108:83:0	
4637	97	312	03:42:16.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 367.29 +/- 8	4R3	4	0	4,208,108:83:0	
4638	97	312	03:42:16.333	465KG6A	6DTRN	CMD,6DTRN,465KG6	DMS TRACK TURNAROUND	4R3	4	0	4,208,108:83:0	
4639	97	312	03:42:17.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 367.41 +/- 8	4R3	4	0	4,208,108:85:1	
4640	97	312	03:42:23.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 368.65 +/- 8	4R3	4	0	4,208,109:02:0	
4641	97	312	03:42:24.200		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 368.71 +/- 8	4R3	4	0	4,208,109:03:8	
4642	97	312	03:42:25.600		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 368.59 +/- 8	4R3	4	0	4,208,109:05:9	
4643	**97**	**312**	**03:42:25.666**	**11INTHRMAL04-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
4644	97	312	03:54:25.400		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 8	4R3	4	0	4,208,120:84:6	
4645	97	312	03:54:26.600		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 8	4R3	4	0	4,208,120:86:4	
4646	97	312	03:54:26.600		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 8	4R3	4	0	4,208,120:86:4	
4647	97	312	03:54:28.000		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4R3	4	0	4,208,120:88:5	
4648	97	312	03:54:40.000		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4R3	4	0	4,208,121:15:5	
4649	97	312	03:54:41.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4R3	4	0	4,208,121:17:3	
4650	97	312	03:56:30.333	165AU4A	7SCAN	NORM,57.948,20.3	Check S/P Position	4R3	4	0	4,208,122:90:0	
4651	97	312	03:58:23.000	117AU	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,208,124:77:0	
4652	97	312	03:58:32.333	117AU105A106A4A	7STRP	-0.365029,0.0,0,	Slew =,0.21	4R3	4	0	4,208,125:00:0	
4653	97	312	03:59:25.000	465KH6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R3	4	0	4,208,125:79:0	
4654	97	312	03:59:25.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4R3	4	0	4,208,125:79:0	
4655	97	312	03:59:31.666		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4R3	4	0	4,208,125:89:0	
4656	97	312	03:59:33.066		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	4R3	4	0	4,208,126:00:1	
4657	97	312	03:59:33.066		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	4R3	4	0	4,208,126:00:1	
4658	97	312	04:00:40.333		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC * 218.01 +/-	4R3	4	0	4,208,127:10:0	
4659	97	312	04:00:40.333	465KH6B	6DMSC	RDY,1	DMS Control Tape stop	4R3	4	0	4,208,127:10:0	
4660	97	312	04:00:41.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 218.07 +/-	4R3	4	0	4,208,127:11:8	
4661	97	312	04:01:25.666	175AU422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,208,127:78:0	
4662	97	312	04:01:25.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 218.07 +/-	4R3	4	0	4,208,127:78:0	
4663	97	312	04:01:32.333		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 218.07 +/-	4R3	4	0	4,208,127:88:0	
4664	97	312	04:01:33.666	175AU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,208,127:90:0	
4665	97	312	04:01:33.733		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 218.19 +/-	4R3	4	0	4,208,127:90:1	
4666	97	312	04:01:33.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 218.19 +/-	4R3	4	0	4,208,127:90:1	
4667	97	312	04:28:38.333	117AU11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,208,154:70:0	
4668	97	312	04:28:51.666	165LM4A	7SCAN	NORM,68.273,26.7	Check S/P Position	4R3	4	0	4,208,154:90:0	
4669	97	312	04:28:52.333	175AU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,155:00:0	
4670	97	312	04:28:52.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 602.24 +/-	4R3	4	0	4,208,155:00:0	
4671	97	312	04:28:52.333	175AU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,208,155:00:0	
4672	97	312	04:28:53.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 602.30 +/-	4R3	4	0	4,208,155:01:8	
4673	97	312	04:29:51.666	165LM4B	7VECT		Inert vect update UTC	4R3	4	0	4,208,155:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4674	97	312	04:29:57.000	118LM	**SMOS**	GS		4R3	4	0	4,208,156:06:0	
4675	97	312	04:29:59.000	175LM422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,208,156:09:0	
4676	97	312	04:29:59.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 602.30 +/-	4R3	4	0	4,208,156:09:0	
4677	97	312	04:30:05.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 602.30 +/-	4R3	4	0	4,208,156:19:0	
4678	97	312	04:30:09.000	175LM176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,208,156:24:0	
4679	97	312	04:30:09.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 608.60 +/-	4R3	4	0	4,208,156:25:0	
4680	97	312	04:30:09.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 608.60 +/-	4R3	4	0	4,208,156:25:0	
4681	97	312	04:30:09.666	118LM110A111A4A	7STRP	0.00731,0.0,92,0	Slew =,3.51	4R3	4	0	4,208,156:25:0	
4682	97	312	04:30:23.666	175LM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,156:46:0	
4683	97	312	04:30:23.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 657.81 +/-	4R3	4	0	4,208,156:46:0	
4684	97	312	04:30:24.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 658.81 +/-	4R3	4	0	4,208,156:47:8	
4685	97	312	04:30:29.666	175LN422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,208,156:55:0	
4686	97	312	04:30:29.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 658.81 +/-	4R3	4	0	4,208,156:55:0	
4687	97	312	04:30:36.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 658.81 +/-	4R3	4	0	4,208,156:65:0	
4688	97	312	04:30:39.666	175LN176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,208,156:70:0	
4689	97	312	04:30:40.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 665.11 +/-	4R3	4	0	4,208,156:71:0	
4690	97	312	04:30:40.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 665.11 +/-	4R3	4	0	4,208,156:71:0	
4691	97	312	04:30:40.333	118LM11A	**SMOS**	GE		4R3	4	0	4,208,156:71:0	
4692	97	312	04:30:53.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 711.99 +/-	4R3	4	0	4,208,157:00:0	
4693	97	312	04:30:53.666	175LN422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,157:00:0	
4694	97	312	04:30:54.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 712.99 +/-	4R3	4	0	4,208,157:01:8	
4695	**97**	**312**	**04:47:08.399**	**11NNRELOAD11-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
4696	97	312	04:48:09.000	20EL6A	6CKSUM	NIMS	NIMS,1000,14BC	4R3	4	0	4,208,174:06:0	
4697	**97**	**312**	**04:49:09.666**	**20EL5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,208,175:06:0**	
4698	**97**	**312**	**04:50:10.333**	**20EL5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,208,176:06:0**	
4699	**97**	**312**	**04:51:11.000**	**20EL6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,208,177:06:0**	
4700	**97**	**312**	**04:52:11.666**	**20EL6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,208,178:06:0**	
4701	**97**	**312**	**04:53:12.333**	**20EL5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,208,179:06:0**	
4702	**97**	**312**	**04:54:13.000**	**20EL5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,208,180:06:0**	
4703	**97**	**312**	**04:55:13.666**	**20EL4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,208,181:06:0**	
4704	97	312	04:56:09.666	165AV4A	7SCAN	NORM,68.674999,2	Check S/P Position	2R0	4	0	4,208,181:90:0	
4705	**97**	**312**	**04:56:14.333**	**20EL4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,208,182:06:0**	
4706	**97**	**312**	**04:57:15.066**	**11JNAURVAR01+**		**-----START------**		**2R3**	**4**	**0**	**: :**	
4707	**97**	**312**	**04:57:15.066**	**11NNRELOAD11-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
4708	97	312	04:58:07.000	125LQ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,208,183:84:0	
4709	97	312	04:58:07.000	125LQ11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,208,183:84:0	
4710	**97**	**312**	**04:58:07.000**	**125LQ4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,208,183:84:0**	
4711	97	312	04:58:10.333	165AV4B	7VECT		Inert vect update UTC	4R3	4	0	4,208,183:89:0	
4712	97	312	04:59:07.666	127LQ	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,208,184:84:0	
4713	**97**	**312**	**04:59:08.333**	**127LQ4A**	**37ETB**	**0A,CA,16,07,FE,1**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,208,184:85:0**	
4714	97	312	04:59:16.333	127LQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,208,185:06:0	
4715	**97**	**312**	**05:00:08.333**	**11NNIMSDAC02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
4716	**97**	**312**	**05:00:09.000**	**127LQ4B**	**37ETB**	**07,C7,03,BD,FF,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,208,185:85:0**	
4717	**97**	**312**	**05:00:09.666**	**11NNIMSDAC02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
4718	97	312	05:04:07.000	175AV422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,208,189:78:0	
4719	97	312	05:04:07.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 712.99 +/-	4R3	4	0	4,208,189:78:0	
4720	97	312	05:04:13.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 712.99 +/-	4R3	4	0	4,208,189:88:0	
4721	97	312	05:04:15.000	175AV176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,208,189:90:0	
4722	97	312	05:04:15.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 713.11 +/-	4R3	4	0	4,208,189:90:1	
4723	97	312	05:04:15.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 713.11 +/-	4R3	4	0	4,208,189:90:1	
4724	**97**	**312**	**05:04:17.000**	**11JNAURVAR01+**	**NIMPBK**	**301EX**	**NIMS AURORA OBSERVATION**	**4R3**	**4**	**0**	**: :**	
4725	**97**	**312**	**05:06:19.000**	**11JNAURVAR01+**	**DESELC**	**300EX**	**NIMS AURORA OBSERVATION**	**4R3**	**4**	**0**	**: :**	
4726	97	312	05:14:22.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 855.44 +/-	4R3	4	0	4,208,200:00:0	
4727	97	312	05:14:22.333	175AV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,200:00:0	
4728	97	312	05:14:22.333	175AV6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,208,200:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4729	97	312	05:14:23.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 855.50 +/-	4R3	4	0	4,208,200:01:8	
4730	**97**	**312**	**05:14:26.399**	**11JNAURVAR01+**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
4731	97	312	05:14:29.000	165LO4A	7SCAN	NORM,68.865999,2	Check S/P Position	4R3	4	0	4,208,200:10:0	
4732	97	312	05:15:21.666	165LO4B	7VECT		Inert vect update UTC	4R3	4	0	4,208,200:89:0	
4733	97	312	05:15:27.000	118LO	**SMOS**	GS		4R3	4	0	4,208,201:06:0	
4734	97	312	05:15:29.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 855.50 +/-	4R3	4	0	4,208,201:09:0	
4735	97	312	05:15:29.000	175LO422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,208,201:09:0	
4736	97	312	05:15:35.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 855.50 +/-	4R3	4	0	4,208,201:19:0	
4737	97	312	05:15:39.000	175LO176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,208,201:24:0	
4738	97	312	05:15:39.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 861.80 +/-	4R3	4	0	4,208,201:25:0	
4739	97	312	05:15:39.666	118LO110A111A4A	7STRP	0.00731,0.0005,9	Slew =,3.51	4R3	4	0	4,208,201:25:0	
4740	97	312	05:15:39.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 861.80 +/-	4R3	4	0	4,208,201:25:0	
4741	97	312	05:15:53.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 911.02 +/-	4R3	4	0	4,208,201:46:0	
4742	97	312	05:15:53.666	175LO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,201:46:0	
4743	97	312	05:15:54.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 912.02 +/-	4R3	4	0	4,208,201:47:8	
4744	97	312	05:15:59.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 912.02 +/-	4R3	4	0	4,208,201:55:0	
4745	97	312	05:15:59.666	175LP422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,208,201:55:0	
4746	97	312	05:16:06.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 912.02 +/-	4R3	4	0	4,208,201:65:0	
4747	97	312	05:16:09.666	175LP176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,208,201:70:0	
4748	97	312	05:16:10.333	118LO11A	**SMOS**	GE		4R3	4	0	4,208,201:71:0	
4749	97	312	05:16:10.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 918.32 +/-	4R3	4	0	4,208,201:71:0	
4750	97	312	05:16:10.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC * 918.32 +/-	4R3	4	0	4,208,201:71:0	
4751	97	312	05:16:23.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC * 965.19 +/-	4R3	4	0	4,208,202:00:0	
4752	97	312	05:16:23.666	175LP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,202:00:0	
4753	97	312	05:16:24.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 966.19 +/-	4R3	4	0	4,208,202:01:8	
4754	97	312	05:17:23.666	165AX4A	7SCAN	NORM,66.278,25.5	Check S/P Position	4R3	4	0	4,208,202:90:0	
4755	97	312	05:18:15.666	117AX	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,208,203:77:0	
4756	97	312	05:18:16.333	175AX422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,208,203:78:0	
4757	97	312	05:18:16.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 966.19 +/-	4R3	4	0	4,208,203:78:0	
4758	97	312	05:18:23.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 966.19 +/-	4R3	4	0	4,208,203:88:0	
4759	97	312	05:18:24.333	175AX176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,208,203:90:0	
4760	97	312	05:18:24.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 966.31 +/-	4R3	4	0	4,208,203:90:1	
4761	97	312	05:18:24.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 966.31 +/-	4R3	4	0	4,208,203:90:1	
4762	97	312	05:18:25.000	117AX105A106A4A	7STRP	-0.0845,0.0,0,0,	Slew =,0.06	4R3	4	0	4,208,204:00:0	
4763	**97**	**312**	**05:18:29.066**	**11JNAURVAR02+**		**-----START------**		**4R3**	**4**	**0**	**: :**	
4764	**97**	**312**	**05:22:20.333**	**11JNAURVAR02+**	**NIMPBK**	**301EY**	**NIMS AURORA OBSERVATION**	**4R3**	**4**	**0**	**: :**	
4765	**97**	**312**	**05:22:20.333**	**11JNAURVAR02+**	**NIMPBK**	**301FS**	**NIMS AURORA OBSERVATION**	**4R3**	**4**	**0**	**: :**	
4766	97	312	05:25:51.666	488DG6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	4,208,211:33:0	
4767	**97**	**312**	**05:36:43.666**	**11JNAURVAR02+**	**DESELC**	**300EY**	**NIMS AURORA OBSERVATION**	**4R3**	**4**	**0**	**: :**	
4768	**97**	**312**	**05:36:43.666**	**11JNAURVAR02+**	**DESELC**	**300FS**	**NIMS AURORA OBSERVATION**	**4R3**	**4**	**0**	**: :**	
4769	97	312	05:41:58.333	117AX105A106B4A	7STRP	0.074135,0.0025,	Slew =12.01	4R3	4	0	4,208,227:27:0	
4770	97	312	05:42:07.666	117AX105A106B4B	7STRP	-0.060072,0.0,0,	Slew =,0.06	4R3	4	0	4,208,227:41:0	
4771	97	312	05:58:51.000	117AX11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,208,243:90:0	
4772	97	312	05:58:51.666	175AX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,244:00:0	
4773	97	312	05:58:51.666		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1535.20 +/-	4R3	4	0	4,208,244:00:0	
4774	97	312	05:58:51.666	175AX6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,208,244:00:0	
4775	97	312	05:58:52.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1535.26 +/-	4R3	4	0	4,208,244:01:8	
4776	**97**	**312**	**05:58:55.732**	**11JNAURVAR02+**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
4777	97	312	05:59:51.666	165LQ4A	7SCAN	NORM,69.561999,2	Check S/P Position	4R3	4	0	4,208,244:90:0	
4778	97	312	06:00:51.666	165LQ4B	7VECT		Inert vect update UTC	4R3	4	0	4,208,245:89:0	
4779	97	312	06:00:57.000	118LQ	**SMOS**	GS		4R3	4	0	4,208,246:06:0	
4780	97	312	06:00:59.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1535.26 +/-	4R3	4	0	4,208,246:09:0	
4781	97	312	06:00:59.000	175LQ422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,208,246:09:0	
4782	97	312	06:01:05.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1535.26 +/-	4R3	4	0	4,208,246:19:0	
4783	97	312	06:01:09.000	175LQ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,208,246:24:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4784	97	312	06:01:09.666	118LQ110A111A4A	7STRP	0.00731,0.002,92	Slew =,3.51	4R3	4	0	4,208,246	25:0
4785	97	312	06:01:09.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1541.56 +/-	4R3	4	0	4,208,246	25:0
4786	97	312	06:01:09.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1541.56 +/-	4R3	4	0	4,208,246	25:0
4787	97	312	06:01:21.666	175LQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,246	43:0
4788	97	312	06:01:21.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1583.75 +/-	4R3	4	0	4,208,246	43:0
4789	97	312	06:01:22.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1584.75 +/-	4R3	4	0	4,208,246	44:8
4790	97	312	06:01:29.666	175LR422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,208,246	55:0
4791	97	312	06:01:29.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1584.75 +/-	4R3	4	0	4,208,246	55:0
4792	97	312	06:01:36.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1584.75 +/-	4R3	4	0	4,208,246	65:0
4793	97	312	06:01:39.666	175LR176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,208,246	70:0
4794	97	312	06:01:40.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1591.05 +/-	4R3	4	0	4,208,246	71:0
4795	97	312	06:01:40.333	118LQ11A	**SMOS**	GE		4R3	4	0	4,208,246	71:0
4796	97	312	06:01:40.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1591.05 +/-	4R3	4	0	4,208,246	71:0
4797	97	312	06:01:51.000	175LR422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,246	87:0
4798	97	312	06:01:51.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1628.55 +/-	4R3	4	0	4,208,246	87:0
4799	97	312	06:01:52.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1629.55 +/-	4R3	4	0	4,208,246	88:8
4800	97	312	06:01:53.000	165AY4A	7SCAN	NORM,69.275999,2	Check S/P Position	4R3	4	0	4,208,246	90:0
4801	97	312	06:02:53.000	165AY4B	7VECT		Inert vect update UTC	4R3	4	0	4,208,247	89:0
4802	97	312	06:09:47.666	488DG6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4R3	4	0	4,208,254	74:0
4803	97	312	06:45:29.000	165LS4A	7SCAN	NORM,70.761,26.8	Check S/P Position	4R3	4	0	4,208,290	10:0
4804	97	312	06:46:21.666	165LS4B	7VECT		Inert vect update UTC	4R3	4	0	4,208,290	89:0
4805	97	312	06:46:27.000	118LS	**SMOS**	GS		4R3	4	0	4,208,291	06:0
4806	97	312	06:46:29.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1629.55 +/-	4R3	4	0	4,208,291	09:0
4807	97	312	06:46:29.000	175LS422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,208,291	09:0
4808	97	312	06:46:35.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1629.55 +/-	4R3	4	0	4,208,291	19:0
4809	97	312	06:46:39.000	175LS176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,208,291	24:0
4810	97	312	06:46:39.666	118LS110A111A4A	7STRP	0.00731,0.0015,9	Slew =,3.51	4R3	4	0	4,208,291	25:0
4811	97	312	06:46:39.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1635.85 +/-	4R3	4	0	4,208,291	25:0
4812	97	312	06:46:39.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1635.85 +/-	4R3	4	0	4,208,291	25:0
4813	97	312	06:46:49.000		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1668.66 +/-	4R3	4	0	4,208,291	39:0
4814	97	312	06:46:49.000	175LS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,291	39:0
4815	97	312	06:46:50.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1669.66 +/-	4R3	4	0	4,208,291	40:8
4816	97	312	06:46:59.666	175LT422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,208,291	55:0
4817	97	312	06:46:59.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1669.66 +/-	4R3	4	0	4,208,291	55:0
4818	97	312	06:47:06.333		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1669.66 +/-	4R3	4	0	4,208,291	65:0
4819	97	312	06:47:09.666	175LT176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	4R3	4	0	4,208,291	70:0
4820	97	312	06:47:10.333		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1675.96 +/-	4R3	4	0	4,208,291	71:0
4821	97	312	06:47:10.333		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1675.96 +/-	4R3	4	0	4,208,291	71:0
4822	97	312	06:47:10.333	118LS11A	**SMOS**	GE		4R3	4	0	4,208,291	71:0
4823	97	312	06:47:18.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1704.09 +/-	4R3	4	0	4,208,291	83:0
4824	97	312	06:47:18.333	175LT422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,291	83:0
4825	97	312	06:47:19.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1705.09 +/-	4R3	4	0	4,208,291	84:8
4826	97	312	06:57:05.666	488DG6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	4,208,301	54:0
4827	97	312	07:00:00.333	481UF4A	7VECT	BB1	Inert vect update UTC	4R3	4	0	4,208,304	43:0
4828	97	312	07:21:45.666	165IU4A	7SCAN	NORM,61.396,22.8	Check S/P Position	4R3	4	0	4,208,325	90:0
4829	97	312	07:24:52.333	118IU	**SMOS**	GS		4R3	4	0	4,208,329	06:0
4830	97	312	07:25:22.333	118IU110A111A4A	7STRP	0.0025,0.0,92,0,	Slew =,1.05	4R3	4	0	4,208,329	51:0
4831	97	312	07:26:12.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1705.09 +/-	4R3	4	0	4,208,330	35:0
4832	97	312	07:26:12.333	175IU422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,208,330	35:0
4833	97	312	07:26:19.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 1705.09 +/-	4R3	4	0	4,208,330	45:0
4834	97	312	07:26:22.333	175IU176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	4,208,330	50:0
4835	97	312	07:26:23.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *1711.39 +/-	4R3	4	0	4,208,330	51:0
4836	97	312	07:26:23.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 1711.39 +/-	4R3	4	0	4,208,330	51:0
4837	97	312	07:26:23.666	118IU11A	**SMOS**	GE		4R3	4	0	4,208,330	52:0
4838	97	312	07:26:49.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *1805.14 +/-	4R3	4	0	4,208,331	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4839	97	312	07:26:49.666	175lU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,331:00:0	
4840	97	312	07:26:50.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1806.14 +/-	4R3	4	0	4,208,331:01:8	
4841	**97**	**312**	**08:02:17.066**	**11HNDARK__04-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
4842	97	312	08:03:13.000	165EY4A	7SCAN	NORM,254.300999,	Check S/P Position	4R3	4	0	4,208,366:90:0	
4843	97	312	08:06:11.000	127EY	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,208,369:84:0	
4844	**97**	**312**	**08:06:11.666**	**127EY4A**	**37ETB**	**0A,CA,1D,FF,FF,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,208,369:85:0**	
4845	97	312	08:06:19.666	127EY11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,208,370:06:0	
4846	97	312	08:07:05.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1806.14 +/-	4R3	4	0	4,208,370:74:0	
4847	97	312	08:07:05.000	175EY422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,208,370:74:0	
4848	97	312	08:07:07.000	117EY	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,208,370:77:0	
4849	97	312	08:07:11.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1806.14 +/-	4R3	4	0	4,208,370:84:0	
4850	97	312	08:07:13.000	175EY176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,208,370:86:0	
4851	97	312	08:07:13.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1806.26 +/-	4R3	4	0	4,208,370:86:1	
4852	97	312	08:07:13.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1806.26 +/-	4R3	4	0	4,208,370:86:1	
4853	97	312	08:07:16.333	117EY105A106A4A	7STRP	0.0064,0.0,0,0,0	Slew =,0.11	4R3	4	0	4,208,371:00:0	
4854	**97**	**312**	**08:07:16.333**	**11HNDARK__04-**	**NIMPBK**	**301FW**	**NIMS DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**	
4855	97	312	08:08:17.000	117EY11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,208,372:00:0	
4856	**97**	**312**	**08:08:17.000**	**11HNDARK__04-**	**DESELC**	**300FW**	**NIMS DARK OBSERVATION**	**4R3**	**4**	**0**	**: :**	
4857	97	312	08:08:19.000	175EY422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,208,372:03:0	
4858	97	312	08:08:19.000	175EY6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,208,372:03:0	
4859	97	312	08:08:19.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1821.71 +/-	4R3	4	0	4,208,372:03:0	
4860	97	312	08:08:20.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1821.77 +/-	4R3	4	0	4,208,372:04:8	
4861	**97**	**312**	**08:09:21.732**	**11HNDARK__04-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
4862	**97**	**312**	**08:41:43.066**	**11JNBRG11401-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
4863	**97**	**312**	**08:42:34.333**	**11NNIMSDAC03-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
4864	**97**	**312**	**08:42:35.000**	**125FP4Z**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,208,405:84:0**	
4865	**97**	**312**	**08:42:35.666**	**11NNIMSDAC03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
4866	97	312	08:42:39.000	165FP4A	7SCAN	NORM,78.315,25.6	Check S/P Position	2R3	4	0	4,208,405:90:0	
4867	97	312	08:45:37.000	127FP	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,208,408:84:0	
4868	**97**	**312**	**08:45:37.000**	**127FP4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,208,408:84:0**	
4869	**97**	**312**	**08:45:37.666**	**127FP4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,208,408:85:0**	
4870	97	312	08:45:45.666	127FP11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	4,208,409:06:0	
4871	97	312	08:46:31.000	175FP422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,208,409:74:0	
4872	97	312	08:46:31.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1821.77 +/-	2R5	4	1	4,208,409:74:0	
4873	97	312	08:46:33.000	117FP	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,208,409:77:0	
4874	97	312	08:46:37.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1821.77 +/-	2R5	4	1	4,208,409:84:0	
4875	97	312	08:46:39.000	175FP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,208,409:86:0	
4876	97	312	08:46:39.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1821.89 +/-	2R5	4	1	4,208,409:86:1	
4877	97	312	08:46:39.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1821.89 +/-	2R5	4	1	4,208,409:86:1	
4878	97	312	08:46:42.333	117FP105A106A4A	7STRP	0.026506,0.0,0,0	Slew =,0.11	2R5	4	1	4,208,410:00:0	
4879	97	312	08:50:44.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1879.37 +/-	2R5	4	1	4,208,413:90:0	
4880	97	312	08:50:44.333	175FP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,208,413:90:0	
4881	97	312	08:50:44.333	175FP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,208,413:90:0	
4882	97	312	08:50:45.000	117FP11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,208,414:00:0	
4883	97	312	08:50:45.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1879.43 +/-	2R5	4	1	4,208,414:00:8	
4884	**97**	**312**	**08:50:49.066**	**11JNBRG11401-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
4885	**97**	**312**	**09:12:03.066**	**11JNBRG11402-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
4886	97	312	09:12:59.000	165FQ4A	7SCAN	NORM,78.889999,2	Check S/P Position	2R5	4	1	4,208,435:90:0	
4887	97	312	09:16:51.000	175FQ422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,208,439:74:0	
4888	97	312	09:16:51.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1879.43 +/-	2R5	4	1	4,208,439:74:0	
4889	97	312	09:16:53.000	117FQ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,208,439:77:0	
4890	97	312	09:16:57.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1879.43 +/-	2R5	4	1	4,208,439:84:0	
4891	97	312	09:16:59.000	175FQ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,208,439:86:0	
4892	97	312	09:16:59.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1879.55 +/-	2R5	4	1	4,208,439:86:1	
4893	97	312	09:16:59.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1879.55 +/-	2R5	4	1	4,208,439:86:1	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4894	**97**	**312**	**09:17:02.333**	**11JNBRG11402-**	**NIMPBK**	**301FA**	**BROWN BARGE OBS 114 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
4895	97	312	09:17:02.333	117FQ105A106A4A	7STRP	0.033112,0.0,0,0	Slew =,0.11	2R5	4	1	4,208,440:00:0	
4896	**97**	**312**	**09:19:32.333**	**11JNBRG11402-**	**DESELC**	**300FA**	**BROWN BARGE OBS 114 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
4897	97	312	09:22:04.333	175FQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,208,444:89:0	
4898	97	312	09:22:04.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *1951.10 +/-	2R5	4	1	4,208,444:89:0	
4899	97	312	09:22:04.333	175FQ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,208,444:89:0	
4900	97	312	09:22:05.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1951.16 +/-	2R5	4	1	4,208,444:90:8	
4901	97	312	09:22:05.666	117FQ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,208,445:00:0	
4902	**97**	**312**	**09:22:09.732**	**11JNBRG11402-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
4903	**97**	**312**	**09:41:22.399**	**11JNBRG11403-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
4904	97	312	09:42:18.333	165FR4A	7SCAN	NORM,79.481999,2	Check S/P Position	2R5	4	1	4,208,464:90:0	
4905	97	312	09:46:10.333	175FR422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,208,468:74:0	
4906	97	312	09:46:10.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1951.16 +/-	2R5	4	1	4,208,468:74:0	
4907	97	312	09:46:12.333	117FR	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,208,468:77:0	
4908	97	312	09:46:17.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 1951.16 +/-	2R5	4	1	4,208,468:84:0	
4909	97	312	09:46:18.333	175FR176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,208,468:86:0	
4910	97	312	09:46:18.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *1951.28 +/-	2R5	4	1	4,208,468:86:1	
4911	97	312	09:46:18.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 1951.28 +/-	2R5	4	1	4,208,468:86:1	
4912	**97**	**312**	**09:46:21.666**	**11JNBRG11403-**	**NIMPBK**	**301FB**	**BROWN BARGE OBS 114 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
4913	97	312	09:46:21.666	117FR105A106A4A	7STRP	0.03101,0.0,0,0,	Slew =,0.11	2R5	4	1	4,208,469:00:0	
4914	**97**	**312**	**09:49:31.666**	**11JNBRG11403-**	**DESELC**	**300FB**	**BROWN BARGE OBS 114 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
4915	97	312	09:51:05.666	117FR11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,208,473:62:0	
4916	97	312	09:51:07.666	175FR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,208,473:65:0	
4917	97	312	09:51:07.666	175FR6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,208,473:65:0	
4918	97	312	09:51:07.666		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2019.08 +/-	2R5	4	1	4,208,473:65:0	
4919	97	312	09:51:08.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2019.14 +/-	2R5	4	1	4,208,473:66:8	
4920	**97**	**312**	**09:53:30.399**	**11JNBRG11403-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
4921	**97**	**312**	**10:01:35.732**	**11JNBRG11404-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
4922	97	312	10:02:31.666	165FS4A	7SCAN	NORM,79.879999,2	Check S/P Position	2R5	4	1	4,208,484:90:0	
4923	97	312	10:06:23.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2019.14 +/-	2R5	4	1	4,208,488:74:0	
4924	97	312	10:06:23.666	175FS422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,208,488:74:0	
4925	97	312	10:06:25.666	117FS	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,208,488:77:0	
4926	97	312	10:06:30.333		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2019.14 +/-	2R5	4	1	4,208,488:84:0	
4927	97	312	10:06:31.666	175FS176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,208,488:86:0	
4928	97	312	10:06:31.733		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2019.26 +/-	2R5	4	1	4,208,488:86:1	
4929	97	312	10:06:31.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2019.26 +/-	2R5	4	1	4,208,488:86:1	
4930	97	312	10:06:35.000	117FS105A106A4A	7STRP	0.030509,0.0,0,0	Slew =,0.11	2R5	4	1	4,208,489:00:0	
4931	**97**	**312**	**10:06:35.000**	**11JNBRG11404-**	**NIMPBK**	**301FC**	**BROWN BARGE OBS 114 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
4932	**97**	**312**	**10:11:15.000**	**11JNBRG11404-**	**DESELC**	**300FC**	**BROWN BARGE OBS 114 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
4933	97	312	10:11:15.000	117FS11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,208,493:56:0	
4934	97	312	10:11:17.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2086.12 +/-	2R5	4	1	4,208,493:59:0	
4935	97	312	10:11:17.000	175FS422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,208,493:59:0	
4936	97	312	10:11:17.000	175FS6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,208,493:59:0	
4937	97	312	10:11:18.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2086.18 +/-	2R5	4	1	4,208,493:60:8	
4938	**97**	**312**	**10:13:43.732**	**11JNBRG11404-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
4939	97	312	11:39:41.000	165IV4A	7SCAN	NORM,62.072,22.8	Check S/P Position	2R5	4	1	4,208,581:07:0	
4940	97	312	11:42:42.333	118IV	**SMOS**	GS		2R5	4	1	4,208,584:06:0	
4941	97	312	11:43:07.000	165IV4B	7VECT		Inert vect update UTC	2R5	4	1	4,208,584:43:0	
4942	97	312	11:43:37.666	118IV110A111A4A	7STRP	0.00345,0.0,108,	Slew =,1.61	2R5	4	1	4,208,584:89:0	
4943	97	312	11:44:02.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2086.18 +/-	2R5	4	1	4,208,585:35:0	
4944	97	312	11:44:02.333	175IV422A6A	6DMSC	R115,1	DMS Control	2R5	4	1	4,208,585:35:0	
4945	97	312	11:44:09.000		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2086.18 +/-	2R5	4	1	4,208,585:45:0	
4946	97	312	11:44:12.333	175IV176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R5	4	1	4,208,585:50:0	
4947	97	312	11:44:13.000		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2092.48 +/-	2R5	4	1	4,208,585:51:0	
4948	97	312	11:44:13.000		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2092.48 +/-	2R5	4	1	4,208,585:51:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
4949	97	312	11:44:13.666	118IV110A111A4B	7STRP	-0.00345,0.0,0,0	Slew =,1.05	2R5	4	1	4,208,585:52:0	
4950	97	312	11:44:31.666	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,208,585:79:0	
4951	97	312	11:44:31.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2158.10 +/-	2R5	4	1	4,208,585:79:0	
4952	97	312	11:44:32.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2159.10 +/-	2R5	4	1	4,208,585:80:8	
4953	97	312	11:44:49.666	118IV110A111A4C	7STRP	0.00345,0.0,108,	Slew =,1.61	2R5	4	1	4,208,586:15:0	
4954	97	312	11:45:03.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2159.10 +/-	2R5	4	1	4,208,586:35:0	
4955	97	312	11:45:03.000	175IX422A6A	6DMSC	R115,1	DMS Control	2R5	4	1	4,208,586:35:0	
4956	97	312	11:45:09.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2159.10 +/-	2R5	4	1	4,208,586:45:0	
4957	97	312	11:45:13.000	175IX176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R5	4	1	4,208,586:50:0	
4958	97	312	11:45:13.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2165.40 +/-	2R5	4	1	4,208,586:51:0	
4959	97	312	11:45:13.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2165.40 +/-	2R5	4	1	4,208,586:51:0	
4960	97	312	11:45:25.666	118IV11A	**SMOS**	GE		2R5	4	1	4,208,586:69:0	
4961	97	312	11:45:32.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2231.03 +/-	2R5	4	1	4,208,586:79:0	
4962	97	312	11:45:32.333	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,208,586:79:0	
4963	97	312	11:45:33.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2232.03 +/-	2R5	4	1	4,208,586:80:8	
4964	97	312	11:46:40.333	165CS4A	7SCAN	NORM,62.011,23.0	Check S/P Position	2R5	4	1	4,208,587:90:0	
4965	97	312	11:49:41.666	165CS4B	7VECT		Inert vect update UTC	2R5	4	1	4,208,590:89:0	
4966	97	312	12:02:39.666	488DH6A	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R5	4	1	4,208,603:73:0	
4967	97	312	12:26:57.000	488DH6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R5	4	1	4,208,627:75:0	
4968	97	312	12:32:09.666	432SC6A	6RTDS2	NIMNCG,AACNCG,RT	R/T ENG DESLECT	2R5	4	1	4,208,632:89:0	
4969	97	312	14:53:43.666	165IZ4A	7SCAN	NORM,77.761999,2	Check S/P Position	2R5	4	1	4,208,772:90:0	
4970	97	312	14:57:23.000	175IZ422A6A	6DMSC	R115,1	DMS Control	2R5	4	1	4,208,776:55:0	
4971	97	312	14:57:23.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2232.03 +/-	2R5	4	1	4,208,776:55:0	
4972	97	312	14:57:29.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2232.03 +/-	2R5	4	1	4,208,776:65:0	
4973	97	312	14:57:33.000	175IZ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R5	4	1	4,208,776:70:0	
4974	97	312	14:57:33.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2238.33 +/-	2R5	4	1	4,208,776:71:0	
4975	97	312	14:57:33.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2238.33 +/-	2R5	4	1	4,208,776:71:0	
4976	97	312	14:57:40.333		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2261.76 +/-	2R5	4	1	4,208,776:81:0	
4977	97	312	14:57:40.333	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,208,776:81:0	
4978	97	312	14:57:41.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2262.76 +/-	2R5	4	1	4,208,776:82:8	
4979	97	312	15:29:07.666	411AC6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R5	4	1	4,208,808:00:0	
4980	97	312	15:29:07.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2262.76 +/-	2R5	4	1	4,208,808:00:0	
4981	97	312	15:29:14.333		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2262.76 +/-	2R5	4	1	4,208,808:10:0	
4982	97	312	15:29:15.733		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2262.88 +/-	2R5	4	1	4,208,808:12:1	
4983	97	312	15:29:15.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2262.88 +/-	2R5	4	1	4,208,808:12:1	
4984	97	312	15:29:17.666	411AC6B	6TMREC	BDT	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R5	4	1	4,208,808:15:0	
4985	97	312	15:31:19.000	411AC6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,208,810:15:0	
4986	97	312	15:31:19.666	411AC6D	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,208,810:16:0	
4987	97	312	15:31:19.666		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2291.93 +/-	2R5	4	1	4,208,810:16:0	
4988	97	312	15:31:20.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2291.99 +/-	2R5	4	1	4,208,810:17:8	
4989	97	312	16:00:12.333	488DH6C	6TMSED	NORM,AL1	Sci, Eng, and D/L Chan	2R5	4	1	4,208,838:67:0	
4990	**97**	**312**	**18:24:07.066**	**11NNRELOAD13-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
4991	97	312	18:25:07.666	20EN6A	6CKSUM	NIMS	NIMS,1000,14BC	2R5	4	1	4,208,982:06:0	
4992	**97**	**312**	**18:26:08.333**	**20EN5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R5**	**4**	**1**	**4,208,983:06:0**	
4993	**97**	**312**	**18:27:09.000**	**20EN5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R5**	**4**	**1**	**4,208,984:06:0**	
4994	**97**	**312**	**18:28:09.666**	**20EN6B**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R5**	**4**	**1**	**4,208,985:06:0**	
4995	**97**	**312**	**18:29:10.333**	**20EN6C**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R5**	**4**	**1**	**4,208,986:06:0**	
4996	**97**	**312**	**18:30:11.000**	**20EN5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,208,987:06:0**	
4997	**97**	**312**	**18:31:11.666**	**20EN5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,208,988:06:0**	
4998	**97**	**312**	**18:32:12.333**	**20EN4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,208,989:06:0**	
4999	**97**	**312**	**18:34:13.732**	**11NNRELOAD13-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
5000	97	312	18:41:54.333	488DI6A	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2R0	4	0	4,208,998:60:0	
5001	97	312	18:42:14.333	165IW4A	7SCAN	NORM,73.801,24.5	Check S/P Position	2R0	4	0	4,208,998:90:0	
5002	97	312	18:45:21.000	118IW	**SMOS**	GS		2R0	4	0	4,209,002:06:0	
5003	97	312	18:45:51.000	118IW110A111A4A	7STRP	0.00225,0.00005,	Slew =,1.05	2R0	4	0	4,209,002:51:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
5004	97	312	18:46:41.000	175IW422A6A	6DMSC	R115,1	DMS Control	2R0	4	0	4,209,003:35:0	
5005	97	312	18:46:41.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2291.99 +/-	2R0	4	0	4,209,003:35:0	
5006	97	312	18:46:47.666		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 2291.99 +/-	2R0	4	0	4,209,003:45:0	
5007	97	312	18:46:51.000	175IW176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	2R0	4	0	4,209,003:50:0	
5008	97	312	18:46:51.666		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *2298.29 +/-	2R0	4	0	4,209,003:51:0	
5009	97	312	18:46:51.666		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 2298.29 +/-	2R0	4	0	4,209,003:51:0	
5010	97	312	18:46:52.333	118IW11A	**SMOS**	GE		2R0	4	0	4,209,003:52:0	
5011	97	312	18:47:07.666	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	4,209,003:75:0	
5012	97	312	18:47:07.666		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *2354.54 +/-	2R0	4	0	4,209,003:75:0	
5013	97	312	18:47:08.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2355.54 +/-	2R0	4	0	4,209,003:76:8	
5014	97	312	18:52:21.000	165FU4A	7SCAN	NORM,89.280999,2	Check S/P Position	2R0	4	0	4,209,008:90:0	
5015	**97**	**312**	**18:52:25.732**	**11JNBRG12501-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
5016	97	312	18:55:19.000	127FU	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,209,011:84:0	
5017	**97**	**312**	**18:55:19.000**	**127FU4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,209,011:84:0**	
5018	**97**	**312**	**18:55:19.666**	**127FU4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,209,011:85:0**	
5019	97	312	18:55:27.666	127FU11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	4,209,012:06:0	
5020	97	312	18:56:13.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2355.54 +/-	2R5	4	1	4,209,012:74:0	
5021	97	312	18:56:13.000	175FU422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,209,012:74:0	
5022	97	312	18:56:15.000	117FU	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,209,012:77:0	
5023	97	312	18:56:19.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2355.54 +/-	2R5	4	1	4,209,012:84:0	
5024	97	312	18:56:21.000	175FU176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,209,012:86:0	
5025	97	312	18:56:21.066		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2355.66 +/-	2R5	4	1	4,209,012:86:1	
5026	97	312	18:56:21.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2355.66 +/-	2R5	4	1	4,209,012:86:1	
5027	97	312	18:56:24.333	117FU105A106A4A	7STRP	0.026506,0.0,0,0	Slew =,0.11	2R5	4	1	4,209,013:00:0	
5028	97	312	19:00:26.333		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2413.15 +/-	2R5	4	1	4,209,016:90:0	
5029	97	312	19:00:26.333	175FU6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,209,016:90:0	
5030	97	312	19:00:26.333	175FU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,209,016:90:0	
5031	97	312	19:00:27.000	117FU11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,209,017:00:0	
5032	97	312	19:00:27.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2413.21 +/-	2R5	4	1	4,209,017:00:8	
5033	**97**	**312**	**19:00:31.066**	**11JNBRG12501-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
5034	97	312	19:14:36.333	432SD6A	6RTSL2	NIMNCG,AACNCG,RT	R/T ENG SELECT	2R5	4	1	4,209,031:00:0	
5035	**97**	**312**	**19:16:41.732**	**11JNBRG12502-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
5036	97	312	19:17:37.666	165FV4A	7SCAN	NORM,89.653999,2	Check S/P Position	2R5	4	1	4,209,033:90:0	
5037	97	312	19:20:35.666	127FV	NIMSTAB	GS	%%%%% GROUP START TAB	2R5	4	1	4,209,036:84:0	
5038	**97**	**312**	**19:20:35.666**	**127FV4A**	**37IOP**	**5,1**	**Short Map, Grating Start Position =01**	**2R5**	**4**	**1**	**4,209,036:84:0**	
5039	**97**	**312**	**19:20:36.333**	**127FV4B**	**37ETB**		**Loads wavelength edit table**	**2R5**	**4**	**1**	**4,209,036:85:0**	
5040	97	312	19:20:44.333	127FV11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R5	4	1	4,209,037:06:0	
5041	97	312	19:21:29.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2413.21 +/-	2R5	4	1	4,209,037:74:0	
5042	97	312	19:21:29.666	175FV422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,209,037:74:0	
5043	97	312	19:21:31.666	117FV	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,209,037:77:0	
5044	97	312	19:21:36.333		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2413.21 +/-	2R5	4	1	4,209,037:84:0	
5045	97	312	19:21:37.666	175FV176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,209,037:86:0	
5046	97	312	19:21:37.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2413.33 +/-	2R5	4	1	4,209,037:86:1	
5047	97	312	19:21:37.733		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2413.33 +/-	2R5	4	1	4,209,037:86:1	
5048	**97**	**312**	**19:21:41.000**	**11JNBRG12502-**	**NIMPBK**	**301FE**	**BROWN BARGE OBS 125 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
5049	97	312	19:21:41.000	117FV105A106A4A	7STRP	0.022004,0.0,0,0	Slew =,0.11	2R5	4	1	4,209,038:00:0	
5050	**97**	**312**	**19:23:54.333**	**11JNBRG12502-**	**DESELC**	**300FE**	**BROWN BARGE OBS 125 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
5051	97	312	19:24:15.666	488DI6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R5	4	1	4,209,040:50:0	
5052	97	312	19:25:03.000	175FV422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,209,041:30:0	
5053	97	312	19:25:03.000	175FV6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,209,041:30:0	
5054	97	312	19:25:03.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2461.44 +/-	2R5	4	1	4,209,041:30:0	
5055	97	312	19:25:03.666	117FV11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,209,041:31:0	
5056	97	312	19:25:04.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2461.50 +/-	2R5	4	1	4,209,041:31:8	
5057	**97**	**312**	**19:27:49.066**	**11JNBRG12502-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
5058	**97**	**312**	**19:41:58.399**	**11JNBRG12503-**		**-----START------**		**2R5**	**4**	**1**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
5059	97	312	19:42:54.333	165FW4A	7SCAN	NORM,90.011,25.8	Check S/P Position	2R5	4	1	4,209,058:90:0	
5060	97	312	19:46:46.333	175FW422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,209,062:74:0	
5061	97	312	19:46:46.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2461.50 +/-	2R5	4	1	4,209,062:74:0	
5062	97	312	19:46:48.333	117FW	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,209,062:77:0	
5063	97	312	19:46:53.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2461.50 +/-	2R5	4	1	4,209,062:84:0	
5064	97	312	19:46:54.333	175FW176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,209,062:86:0	
5065	97	312	19:46:54.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2461.62 +/-	2R5	4	1	4,209,062:86:1	
5066	97	312	19:46:54.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2461.62 +/-	2R5	4	1	4,209,062:86:1	
5067	97	312	19:46:57.666	117FW105A106A4A	7STRP	0.022004,0.0,0,0	Slew =,0.11	2R5	4	1	4,209,063:00:0	
5068	**97**	**312**	**19:46:57.666**	**11JNBRG12503-**	**NIMPBK**	**301FF**	**BROWN BARGE OBS 125 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
5069	**97**	**312**	**19:50:17.666**	**11JNBRG12503-**	**DESELC**	**300FF**	**BROWN BARGE OBS 125 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
5070	97	312	19:50:19.666	175FW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,209,066:30:0	
5071	97	312	19:50:19.666	175FW6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,209,066:30:0	
5072	97	312	19:50:19.666		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2509.72 +/-	2R5	4	1	4,209,066:30:0	
5073	97	312	19:50:20.333	117FW11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,209,066:31:0	
5074	97	312	19:50:20.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2509.78 +/-	2R5	4	1	4,209,066:31:8	
5075	**97**	**312**	**19:51:04.399**	**11JNBRG12503-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
5076	**97**	**312**	**20:02:11.732**	**11JNBRG12504-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
5077	97	312	20:03:07.666	165FX4A	7SCAN	NORM,90.292,25.9	Check S/P Position	2R5	4	1	4,209,078:90:0	
5078	97	312	20:06:59.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2509.78 +/-	2R5	4	1	4,209,082:74:0	
5079	97	312	20:06:59.666	175FX422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,209,082:74:0	
5080	97	312	20:07:01.666	117FX	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,209,082:77:0	
5081	97	312	20:07:06.333		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2509.78 +/-	2R5	4	1	4,209,082:84:0	
5082	97	312	20:07:07.666	175FX176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,209,082:86:0	
5083	97	312	20:07:07.733		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2509.90 +/-	2R5	4	1	4,209,082:86:1	
5084	97	312	20:07:07.733		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2509.90 +/-	2R5	4	1	4,209,082:86:1	
5085	**97**	**312**	**20:07:11.000**	**11JNBRG12504-**	**NIMPBK**	**301FG**	**BROWN BARGE OBS 125 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
5086	97	312	20:07:11.000	117FX105A106A4A	7STRP	0.022004,0.0,0,0	Slew =,0.11	2R5	4	1	4,209,083:00:0	
5087	**97**	**312**	**20:10:31.000**	**11JNBRG12504-**	**DESELC**	**300FG**	**BROWN BARGE OBS 125 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
5088	97	312	20:10:33.000	175FX6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,209,086:30:0	
5089	97	312	20:10:33.000		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2558.01 +/-	2R5	4	1	4,209,086:30:0	
5090	97	312	20:10:33.000	175FX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,209,086:30:0	
5091	97	312	20:10:33.666	117FX11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,209,086:31:0	
5092	97	312	20:10:34.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2558.07 +/-	2R5	4	1	4,209,086:31:8	
5093	**97**	**312**	**20:11:17.732**	**11JNBRG12504-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
5094	97	312	22:09:00.333	41SH99A	**POWER**	**PWR MODE change**	**Change to Maneuver/Playback Mode**	2R5	4	1	4,209,203:44:0	
5095	**97**	**312**	**22:10:54.333**	**41SH3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2R5**	**4**	**1**	**4,209,205:33:0**	
5096	**97**	**312**	**22:11:04.333**	**41SH3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2R5**	**4**	**1**	**4,209,205:48:0**	
5097	**97**	**312**	**22:11:14.333**	**41SH3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2R5**	**4**	**1**	**4,209,205:63:0**	
5098	**97**	**312**	**22:11:24.333**	**41SH3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2R5**	**4**	**1**	**4,209,205:78:0**	
5099	97	312	22:20:02.333	490UB412A4B	**7MODE**	**INT**	**AACS INERTIAL MODE**	2R5	4	1	4,209,214:36:0	
5100	97	312	22:25:00.333	490UB412A4D	**7SAFE**	**UNSTOW**	**S/P TO 153 deg cone**	2R5	4	1	4,209,219:28:0	
5101	97	312	22:29:10.333	490UB412A4E	7VECT	RTH	Inert vect update UTC	2R5	4	1	4,209,223:39:0	
5102	97	312	22:29:14.333	490UB412A4F	7TURN	2,RTH	ALERT Thruster	2R5	4	1	4,209,223:45:0	
5103	97	312	22:33:02.333	490UB412A406A4A	7STAR	1,3000,95.710999	Star catalog update	2R5	4	1	4,209,227:23:0	
5104	97	312	22:33:04.333	490UB412A406A4B	7STAR	2,111,257.16	Star catalog update	2R5	4	1	4,209,227:26:0	
5105	97	312	22:33:06.333	490UB412A406A4C	7STAR	3,138,199.44	Star catalog update	2R5	4	1	4,209,227:29:0	
5106	97	312	22:33:08.333	490UB412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	2R5	4	1	4,209,227:32:0	
5107	97	312	22:33:10.333	490UB412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	2R5	4	1	4,209,227:35:0	
5108	97	312	22:33:12.333	490UB412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	2R5	4	1	4,209,227:38:0	
5109	97	312	23:08:23.666	488DI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R5	4	1	4,209,262:20:0	
5110	97	313	00:12:59.666	432OE431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R5	4	1	4,209,326:10:0	
5111	97	313	00:13:00.333	432OE6A	6RTSL1		R/T Select of DDS and	2R5	4	1	4,209,326:11:0	
5112	97	313	00:24:00.333	41SG99A	**POWER**	**PWR MODE change**	**Change to Data Taking Mode**	2R5	4	1	4,209,337:00:0	
5113	**97**	**313**	**00:24:04.333**	**41SG3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**2R5**	**4**	**1**	**4,209,337:06:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
5114	**97**	**313**	**00:24:14.333**	**41SG3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**2R5**	**4**	**1**	**4,209,337:21:0**	
5115	**97**	**313**	**00:24:24.333**	**41SG3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**2R5**	**4**	**1**	**4,209,337:36:0**	
5116	**97**	**313**	**00:24:34.333**	**41SG3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**2R5**	**4**	**1**	**4,209,337:51:0**	
5117	97	313	01:29:03.666	488DJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R5	4	1	4,209,401:31:0	
5118	97	313	01:29:59.666	488DJ6B	6TMSED	NORM,GL7	Sci, Eng, and D/L Chan	2R5	4	1	4,209,402:24:0	
5119	**97**	**313**	**04:57:04.399**	**11JNBRG13501-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
5120	97	313	04:58:00.333	165FZ4A	7SCAN	NORM,97.096999,2	Check S/P Position	2R5	4	1	4,209,607:90:0	
5121	97	313	05:01:52.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2558.07 +/-	2R5	4	1	4,209,611:74:0	
5122	97	313	05:01:52.333	175FZ422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,209,611:74:0	
5123	97	313	05:01:54.333	117FZ	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,209,611:77:0	
5124	97	313	05:01:59.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2558.07 +/-	2R5	4	1	4,209,611:84:0	
5125	97	313	05:02:00.333	175FZ176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,209,611:86:0	
5126	97	313	05:02:00.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2558.19 +/-	2R5	4	1	4,209,611:86:1	
5127	97	313	05:02:00.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2558.19 +/-	2R5	4	1	4,209,611:86:1	
5128	97	313	05:02:03.666	117FZ105A106A4A	7STRP	0.016501,0.0,0,0	Slew =,0.11	2R5	4	1	4,209,612:00:0	
5129	97	313	05:04:35.666	117FZ11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,209,614:46:0	
5130	97	313	05:04:37.666		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2595.05 +/-	2R5	4	1	4,209,614:49:0	
5131	97	313	05:04:37.666	175FZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,209,614:49:0	
5132	97	313	05:04:37.666	175FZ6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,209,614:49:0	
5133	97	313	05:04:38.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2595.11 +/-	2R5	4	1	4,209,614:50:8	
5134	**97**	**313**	**05:05:09.732**	**11JNBRG13501-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
5135	**97**	**313**	**05:21:20.399**	**11JNBRG13502-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
5136	97	313	05:21:35.666	488DJ6C	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	2R5	4	1	4,209,631:29:0	
5137	97	313	05:22:16.333	165KA4A	7SCAN	NORM,97.365999,2	Check S/P Position	2R5	4	1	4,209,631:90:0	
5138	97	313	05:26:08.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2595.11 +/-	2R5	4	1	4,209,635:74:0	
5139	97	313	05:26:08.333	175DP422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,209,635:74:0	
5140	97	313	05:26:10.333	117KA	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,209,635:77:0	
5141	97	313	05:26:15.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2595.11 +/-	2R5	4	1	4,209,635:84:0	
5142	97	313	05:26:16.333	175DP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,209,635:86:0	
5143	97	313	05:26:16.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2595.23 +/-	2R5	4	1	4,209,635:86:1	
5144	97	313	05:26:16.400		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2595.23 +/-	2R5	4	1	4,209,635:86:1	
5145	97	313	05:26:19.666	117KA105A106A4A	7STRP	0.016501,0.0,0,0	Slew =,0.11	2R5	4	1	4,209,636:00:0	
5146	**97**	**313**	**05:26:19.666**	**11JNBRG13502-**	**NIMPBK**	**301FI**	**BROWN BARGE OBS 135 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
5147	**97**	**313**	**05:28:01.666**	**11JNBRG13502-**	**DESELC**	**300FI**	**BROWN BARGE OBS 135 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
5148	97	313	05:28:51.666	117KA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,209,638:46:0	
5149	97	313	05:28:53.666	175DP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,209,638:49:0	
5150	97	313	05:28:53.666		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2632.09 +/-	2R5	4	1	4,209,638:49:0	
5151	97	313	05:28:53.666	175DP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,209,638:49:0	
5152	97	313	05:28:54.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2632.15 +/-	2R5	4	1	4,209,638:50:8	
5153	**97**	**313**	**05:29:25.732**	**11JNBRG13502-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**	
5154	**97**	**313**	**05:46:37.066**	**11JNBRG13503-**		**-----START------**		**2R5**	**4**	**1**	**: :**	
5155	97	313	05:47:32.933	165KB4A	7SCAN	NORM,97.636,25.3	Check S/P Position	2R5	4	1	4,209,656:90:0	
5156	97	313	05:51:24.933	175DI422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,209,660:74:0	
5157	97	313	05:51:24.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2632.15 +/-	2R5	4	1	4,209,660:74:0	
5158	97	313	05:51:26.933	117KB	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,209,660:77:0	
5159	97	313	05:51:31.600		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2632.15 +/-	2R5	4	1	4,209,660:84:0	
5160	97	313	05:51:32.933	175DI176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,209,660:86:0	
5161	97	313	05:51:33.000		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2632.27 +/-	2R5	4	1	4,209,660:86:1	
5162	97	313	05:51:33.000		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2632.27 +/-	2R5	4	1	4,209,660:86:1	
5163	**97**	**313**	**05:51:36.266**	**11JNBRG13503-**	**NIMPBK**	**301FJ**	**BROWN BARGE OBS 135 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
5164	97	313	05:51:36.266	117KB105A106A4A	7STRP	0.016501,0.0,0,0	Slew =,0.11	2R5	4	1	4,209,661:00:0	
5165	97	313	05:54:08.266	117KB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,209,663:46:0	
5166	**97**	**313**	**05:54:08.266**	**11JNBRG13503-**	**DESELC**	**300FJ**	**BROWN BARGE OBS 135 DEG PHASE**	**2R5**	**4**	**1**	**: :**	
5167	97	313	05:54:10.266	175DI6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,209,663:49:0	
5168	97	313	05:54:10.266	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,209,663:49:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
5169	97	313	05:54:10.266		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2669.13 +/-	2R5	4	1	4,209,663:49:0
5170	97	313	05:54:11.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2669.19 +/-	2R5	4	1	4,209,663:50:8
5171	**97**	**313**	**05:54:42.399**	**11JNBRG13503-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
5172	**97**	**313**	**06:06:50.399**	**11JNBRG13504-**		**-----START------**		**2R5**	**4**	**1**	**: :**
5173	97	313	06:07:46.266	165KC4A	7SCAN	NORM,97.839,25.3	Check S/P Position	2R5	4	1	4,209,676:90:0
5174	97	313	06:11:38.266	175DA422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	2R5	4	1	4,209,680:74:0
5175	97	313	06:11:38.266		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2669.19 +/-	2R5	4	1	4,209,680:74:0
5176	97	313	06:11:40.266	117KC	**CSMOS**	GS	***** GROUP START CSMOS	2R5	4	1	4,209,680:77:0
5177	97	313	06:11:44.933		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2669.19 +/-	2R5	4	1	4,209,680:84:0
5178	97	313	06:11:46.266	175DA176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	2R5	4	1	4,209,680:86:0
5179	97	313	06:11:46.333		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2669.31 +/-	2R5	4	1	4,209,680:86:1
5180	97	313	06:11:46.333		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2669.31 +/-	2R5	4	1	4,209,680:86:1
5181	**97**	**313**	**06:11:49.600**	**11JNBRG13504-**	**NIMPBK**	**301FK**	**BROWN BARGE OBS 135 DEG PHASE**	**2R5**	**4**	**1**	**: :**
5182	97	313	06:11:49.600	117KC105A106A4A	7STRP	0.016501,0.0,0,0	Slew =,0.11	2R5	4	1	4,209,681:00:0
5183	**97**	**313**	**06:14:19.600**	**11JNBRG13504-**	**DESELC**	**300FK**	**BROWN BARGE OBS 135 DEG PHASE**	**2R5**	**4**	**1**	**: :**
5184	97	313	06:14:21.600	117KC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R5	4	1	4,209,683:46:0
5185	97	313	06:14:23.600		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2706.17 +/-	2R5	4	1	4,209,683:49:0
5186	97	313	06:14:23.600	175DA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R5	4	1	4,209,683:49:0
5187	97	313	06:14:23.600	175DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	2R5	4	1	4,209,683:49:0
5188	97	313	06:14:24.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2706.23 +/-	2R5	4	1	4,209,683:50:8
5189	**97**	**313**	**06:14:55.732**	**11JNBRG13504-**		**-----STOP-------**		**2R5**	**4**	**1**	**: :**
5190	**97**	**313**	**06:19:59.066**	**11NNCHOPOF01-**		**-----START------**		**2R5**	**4**	**1**	**: :**
5191	**97**	**313**	**06:20:50.933**	**127LR4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**2R0**	**4**	**0**	**4,209,689:84:0**
5192	97	313	06:20:50.933	127LR	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,209,689:84:0
5193	**97**	**313**	**06:20:51.600**	**127LR4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**2R0**	**4**	**0**	**4,209,689:85:0**
5194	97	313	06:20:59.600	127LR11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R0	4	0	4,209,690:06:0
5195	97	313	06:22:25.600	488DJ6D	6TMSED	FILL,GL6	Sci, Eng, and D/L Chan	2R0	4	0	4,209,691:44:0
5196	97	313	06:22:52.266	125LR	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,209,691:84:0
5197	**97**	**313**	**06:22:52.266**	**125LR4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**4,209,691:84:0**
5198	**97**	**313**	**06:23:52.933**	**125LR4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**4,209,692:84:0**
5199	97	313	06:24:53.600	125LR11A	NIMSINIT	GE	##### GROUP END INIT	260	4	0	4,209,693:84:0
5200	**97**	**313**	**06:24:53.600**	**125LR4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O0**	**4**	**0**	**4,209,693:84:0**
5201	**97**	**313**	**06:26:03.066**	**11NNCHOPOF01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
5202	97	313	06:49:14.933	488DJ6E	6TMSED	NORM,GL6	Sci, Eng, and D/L Chan	2O0	4	0	4,209,718:01:0
5203	97	313	10:29:59.600	488DK6A	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	2O0	4	0	4,209,936:30:0
5204	97	313	12:02:39.600	488DK6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2O0	4	0	4,210,027:89:0
5205	97	313	12:55:59.600	488DK6C	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2O0	4	0	4,210,080:66:0
5206	97	313	13:10:55.600	488DK6D	6TMSED	NORM,EL2	Sci, Eng, and D/L Chan	2O0	4	0	4,210,095:45:0
5207	97	313	13:30:07.600	488DK6E	6TMSED	NORM,EL3	Sci, Eng, and D/L Chan	2O0	4	0	4,210,114:44:0
5208	97	313	13:53:35.600	488DL6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2O0	4	0	4,210,137:63:0
5209	97	313	14:48:20.266	488DL6B	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	2O0	4	0	4,210,191:76:0
5210	97	313	15:21:59.600	488DL6C	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2O0	4	0	4,210,225:11:0
5211	**97**	**313**	**16:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**2O0**	**4**	**0**	**4,210,262:64:6**
5212	**97**	**313**	**16:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**4,210,262:64:6**
5213	**97**	**313**	**16:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**4,210,262:64:6**
5214	**97**	**313**	**16:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
5215	**97**	**313**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
5216	**97**	**313**	**16:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
5217	**97**	**313**	**16:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
5218	**97**	**313**	**16:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
5219	**97**	**313**	**16:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
5220	97	313	16:00:00.266		DMS:	: READY	RDY, TRACK 1, FWD, TIC 2706.23 +/-	2O0	4	0	4,210,262:65:0

			Sequence:	E11BEL		Created: 11/4/97	Begin: 97-131/1 6:00:00 Finish: 97-349/08:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	**97**	**313**	**16:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**2O0**	**4**	**0**	**4,210,262:64:6**
2	**97**	**313**	**16:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**4,210,262:64:6**
3	**97**	**313**	**16:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
4	**97**	**313**	**16:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
5	**97**	**313**	**16:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
6	**97**	**313**	**16:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
7	**97**	**313**	**16:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
8	**97**	**313**	**16:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**4,210,262:64:6**
9	**97**	**313**	**16:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**4,210,262:64:6**
10	97	313	16:00:00.266		DMS:	: READY	RDY, TRACK 1, FWD, TIC 2706.23 +/-	2O0	4	0	4,210,262:65:0
11	**97**	**313**	**16:01:16.933**	**432MA6B**	**6RTDS2**	**NIMDSL,AACDSL,RT**	**NIMS R/T DESELECTAACS DESELECT**	**2O0**	**4**	**0**	**4,210,263:89:0**
12	97	313	16:01:35.600	488AA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,210,264:26:0
13	97	313	16:05:21.600	444UA443A4A	**7MODE**	**CRU**	**AACS CRUISE MODE**	2O0	4	0	4,210,268:01:0
14	97	313	16:10:28.266	41SB99A	**POWER**	**PWR MODE change**	**Change to Maneuver/Playback Mode**	2O0	4	0	4,210,273:06:0
15	**97**	**313**	**16:12:22.266**	**41SB3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**4,210,274:86:0**
16	**97**	**313**	**16:12:32.266**	**41SB3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**4,210,275:10:0**
17	**97**	**313**	**16:12:42.266**	**41SB3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**4,210,275:25:0**
18	**97**	**313**	**16:12:52.266**	**41SB3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**4,210,275:40:0**
19	97	313	16:16:25.600	20WA4A	**7SAFE**	**STOP**	**S/P NO MOVEMENT**	2O0	4	0	4,210,278:87:0
20	97	313	16:17:15.600	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	4,210,279:71:0
21	97	313	16:18:29.600	176TN6A	6TMREC	**IPB**	**INITIATE PLAYBACK (PB CONTROL) Record Mod**	2O0	4	0	4,210,281:00:0
22	97	313	20:41:03.600	488AA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	4,210,540:62:0
23	97	313	21:00:15.600	488AA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,210,559:61:0
24	97	313	21:38:00.266	176TR6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	2O0	4	0	4,210,597:00:0
25	97	313	21:41:20.266	20UO4B	**7SAFE**	**UNSTOW**	**S/P TO 153 deg cone**	2O0	4	0	4,210,600:27:0
26	97	313	22:00:20.266	20UO4D	**7MODE**	**INT**	**AACS INERTIAL MODE**	2O0	4	0	4,210,619:08:0
27	97	313	22:03:22.933	488AB6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,210,622:09:0
28	97	313	22:42:02.266	488AB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,210,660:30:0
29	97	314	00:21:44.933	488AB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,210,758:86:0
30	97	314	00:29:19.600	488AB6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2O0	4	0	4,210,766:40:0
31	**97**	**314**	**05:30:15.333**	**11NNRCTRLT01-**		**-----START------**		**2O0**	**4**	**0**	**: :**
32	97	314	09:41:51.600	488AC6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,211,312:82:0
33	97	314	09:42:00.266	444UB443A4A	**7MODE**	**CRU**	**AACS CRUISE MODE**	2O0	4	0	4,211,313:04:0
34	97	314	09:44:20.933	488AC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	4,211,315:33:0
35	97	314	09:47:04.266	20UR4A	**7SAFE**	**STOP**	**S/P NO MOVEMENT**	2O0	4	0	4,211,318:05:0
36	97	314	09:47:54.266	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	4,211,318:80:0
37	97	314	09:48:01.600	176TO6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	2O0	4	0	4,211,319:00:0
38	97	314	11:51:59.600	488AC6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,211,441:55:0
39	97	314	11:59:32.266	41XE99A	**POWER**	**PWR MODE change**	**Change to Calib/Decon Mode**	2O0	4	0	4,211,449:06:0
40	**97**	**314**	**11:59:36.266**	**41XE3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**4,211,449:12:0**
41	**97**	**314**	**11:59:46.266**	**41XE3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**4,211,449:27:0**
42	**97**	**314**	**11:59:56.266**	**41XE3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**4,211,449:42:0**
43	**97**	**314**	**12:00:06.266**	**41XE3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**4,211,449:57:0**
44	97	314	12:10:35.600	176XU6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	2O0	4	0	4,211,460:00:0
45	97	314	12:13:41.600	20XE4A	**7SAFE**	**UNSTOW**	**S/P TO 153 deg cone**	2O0	4	0	4,211,463:06:0
46	97	314	12:17:48.266	20DA4A	**7SAFE**	**STOP**	**S/P NO MOVEMENT**	2O0	4	0	4,211,467:12:0
47	97	314	12:18:38.266	20DA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	4,211,467:87:0
48	97	314	12:20:42.266	176XV6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	2O0	4	0	4,211,470:00:0
49	**97**	**314**	**12:21:42.933**	**185XE10A3A**	**40HRP**	**1**	**RCT Heater ON (primary relay)**	**2O0**	**4**	**0**	**4,211,471:00:0**
50	**97**	**314**	**12:21:48.266**	**185XE10B3A**	**40HRP**	**2**	**RCT Heater ON (primary relay)**	**2O0**	**4**	**0**	**4,211,471:08:0**
51	97	314	12:51:43.533	488AC6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,211,500:62:0
52	97	314	13:06:39.533	488AC6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	4,211,515:41:0
53	97	314	13:23:43.533	488AD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	4,211,532:30:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	97	314	13:53:35.533	488AD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,211,561:79:0	
55	97	314	14:43:30.200	488AD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,211,611:21:0	
56	97	314	15:17:09.533	488AD6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,211,644:47:0	
57	**97**	**314**	**18:52:03.999**	**11NNRCTRLT01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**	
58	97	314	22:04:15.533	488AE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,212,047:13:0	
59	97	314	22:06:19.533	488AE6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,212,049:17:0	
60	97	314	22:35:25.533	488AE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	4,212,077:88:0	
61	97	315	00:16:29.533	125XE	NIMSINIT	GS	##### GROUP START INIT	2O0	4	0	4,212,177:84:0	
62	**97**	**315**	**00:16:29.533**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**4,212,177:84:0**	
63	**97**	**315**	**00:17:30.200**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,212,178:84:0**	
64	**97**	**315**	**00:18:30.866**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**4,212,179:84:0**	
65	97	315	00:19:31.533	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	4,212,180:84:0	
66	**97**	**315**	**00:19:31.533**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**4,212,180:84:0**	
67	97	315	00:21:32.866	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	4,212,182:84:0	
68	**97**	**315**	**00:21:32.866**	**127XE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**4,212,182:84:0**	
69	**97**	**315**	**00:21:33.533**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**4,212,182:85:0**	
70	97	315	00:21:41.533	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	4,212,183:06:0	
71	97	315	00:25:40.200	176XE6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	1R3	4	0	4,212,187:00:0	
72	97	315	00:28:46.200	20XU4A	7SCAN	NORM,327.06,-14.	Check S/P Position	1R3	4	0	4,212,190:06:0	
73	97	315	00:31:44.200	192XE4A	**7CONE**	**17.0,119.7**	**Check S/P Position**	1R3	4	0	4,212,193:00:0	
74	**97**	**315**	**00:34:05.533**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,212,195:30:0**	
75	**97**	**315**	**00:35:04.866**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,212,196:28:0**	
76	97	315	00:37:48.200	192XE4B	**7CONE**	**17.0,0.0**	**Check S/P Position**	1R3	4	0	4,212,199:00:0	
77	**97**	**315**	**00:40:09.533**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,212,201:30:0**	
78	**97**	**315**	**00:42:09.533**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,212,203:28:0**	
79	97	315	00:43:52.200	192XE4C	**7CONE**	**17.0,119.7**	**Check S/P Position**	1R3	4	0	4,212,205:00:0	
80	**97**	**315**	**00:45:53.533**	**185XE10C3A**	**40HRPR**	**1**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**4,212,207:00:0**	
81	**97**	**315**	**00:45:58.866**	**185XE10D3A**	**40HRPR**	**2**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**4,212,207:08:0**	
82	**97**	**315**	**00:46:13.533**	**432XW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,212,207:30:0**	
83	**97**	**315**	**00:47:12.866**	**432XY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,212,208:28:0**	
84	**97**	**315**	**00:48:50.866**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,212,209:84:0**	
85	97	315	00:48:50.866	125DC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,212,209:84:0	
86	97	315	00:48:50.866	125DC11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,212,209:84:0	
87	97	315	00:49:51.533	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,212,210:84:0	
88	**97**	**315**	**00:49:51.533**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,212,210:84:0**	
89	**97**	**315**	**00:49:52.200**	**127DC4B**	**37ETB**	**07,C7,31,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,212,210:85:0**	
90	97	315	00:49:56.200	192XE4D	**7CONE**	**17.0,153.0**	**Check S/P Position**	4R3	4	0	4,212,211:00:0	
91	97	315	00:50:00.200	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,212,211:06:0	
92	**97**	**315**	**00:50:16.200**	**432DC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,212,211:30:0**	
93	**97**	**315**	**00:50:52.200**	**125DD4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**4,212,211:84:0**	
94	97	315	00:50:52.200	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,212,211:84:0	
95	97	315	00:50:52.200	125DD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,212,211:84:0	
96	**97**	**315**	**00:52:53.533**	**125DE4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**4,212,213:84:0**	
97	97	315	00:52:53.533	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,212,213:84:0	
98	97	315	00:52:53.533	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,212,213:84:0	
99	**97**	**315**	**00:53:16.866**	**432DE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,212,214:28:0**	
100	**97**	**315**	**00:56:56.200**	**127XF4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**4,212,217:84:0**	
101	97	315	00:56:56.200	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,212,217:84:0	
102	**97**	**315**	**00:56:56.866**	**127XF4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**4,212,217:85:0**	
103	97	315	00:57:04.866	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	4,212,218:06:0	
104	**97**	**315**	**00:59:58.200**	**125XF4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,212,220:84:0**	
105	97	315	00:59:58.200	125XF	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,212,220:84:0	
106	**97**	**315**	**01:00:58.866**	**125XF4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,212,221:84:0**	
107	97	315	01:01:59.533	125XF11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	4,212,222:84:0	
108	**97**	**315**	**01:01:59.533**	**125XF4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**4,212,222:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	97	315	01:08:12.200	41XU99A	**POWER**	**PWR MODE change**	**Change to Maneuver/Playback Mode**	4O0	4	0	4,212,229:06:0	
110	**97**	**315**	**01:10:06.200**	**41XU3G**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,212,230:86:0**	
111	**97**	**315**	**01:10:16.200**	**41XU3H**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,212,231:10:0**	
112	**97**	**315**	**01:10:26.200**	**41XU3I**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,212,231:25:0**	
113	**97**	**315**	**01:10:36.200**	**41XU3J**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,212,231:40:0**	
114	97	315	01:18:22.866	20DB4A	**7SAFE**	**STOP**	**S/P NO MOVEMENT**	4O0	4	0	4,212,239:12:0	
115	97	315	01:19:12.866	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,212,239:87:0	
116	97	315	01:21:16.866	176XF6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	4,212,242:00:0	
117	97	315	01:24:47.533	488AE6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,212,245:43:0	
118	97	315	03:11:09.533	488AE6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,212,350:61:0	
119	97	315	03:13:35.533	488AF6A	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,212,353:07:0	
120	97	315	03:15:15.533	488AF6B	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,212,354:66:0	
121	97	315	04:11:11.533	488AF6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,212,410:04:0	
122	97	315	05:17:19.533	488AF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,212,475:41:0	
123	97	315	12:15:27.533	488AG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,212,888:90:0	
124	97	315	13:00:15.533	488AG6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,212,933:27:0	
125	97	315	13:30:07.533	488AG6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,212,962:76:0	
126	97	315	20:34:39.466	488AH6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,213,382:64:0	
127	97	315	21:08:18.133	488AH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,213,415:89:0	
128	97	315	21:57:52.133	176TB6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	4,213,465:00:0	
129	97	315	22:01:59.466	20UH4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,213,469:07:0	
130	97	315	22:02:59.466	20UH4D	**7MODE**	**SPNL**	**AACS ALL-SPIN LOW**	4O0	4	0	4,213,470:06:0	
131	97	315	22:04:59.466	20UH4E	**7SAFE**	**UNSTOW**	**S/P TO 153 deg cone**	4O0	4	0	4,213,472:04:0	
132	97	315	22:08:31.466	488AH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,213,475:49:0	
133	97	315	22:10:29.466	20UH4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,213,477:44:0	
134	97	315	22:10:30.133	20UH4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,213,477:45:0	
135	97	315	22:10:50.133	20UH4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,213,477:75:0	
136	97	315	22:10:50.800	20UH4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,213,477:76:0	
137	97	315	22:11:10.800	20UH4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,213,478:15:0	
138	97	315	22:11:11.466	20UH4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,213,478:16:0	
139	97	315	22:11:21.466	20UH4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,213,478:31:0	
140	97	315	22:11:22.133	20UH4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,213,478:32:0	
141	97	315	22:11:32.133	20UH4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,213,478:47:0	
142	97	315	22:11:32.800	20UH4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,213,478:48:0	
143	97	315	22:13:19.466	20UH4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,213,480:26:0	
144	97	315	22:13:20.133	20UH4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,213,480:27:0	
145	97	315	22:13:40.133	20UH4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,213,480:57:0	
146	97	315	22:13:40.800	20UH4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,213,480:58:0	
147	97	315	22:14:00.800	20UH4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,213,480:88:0	
148	97	315	22:14:01.466	20UH4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,213,480:89:0	
149	97	315	22:14:11.466	20UH4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,213,481:13:0	
150	97	315	22:14:12.133	20UH4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,213,481:14:0	
151	97	315	22:14:22.133	20UH4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,213,481:29:0	
152	97	315	22:14:22.800	20UH4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,213,481:30:0	
153	97	315	22:15:19.466	20UH4Z	**7MODE**	**CRU**	**AACS CRUISE MODE**	4O0	4	0	4,213,482:24:0	
154	97	315	22:41:04.133	20UB4A	**7SAFE**	**STOP**	**S/P NO MOVEMENT**	4O0	4	0	4,213,507:66:0	
155	97	315	22:41:54.133	20UB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,213,508:50:0	
156	97	315	22:43:22.133	176TD6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	4,213,510:00:0	
157	97	316	02:03:11.466	488AH6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,213,707:57:0	
158	97	316	02:45:09.466	488AI6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,213,749:12:0	
159	97	316	03:51:42.133	488AI6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,213,814:86:0	
160	97	316	05:10:55.466	488AI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,213,893:27:0	
161	97	316	12:06:55.466	488AJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,214,304:66:0	
162	97	316	12:55:59.466	488AJ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,214,353:23:0	
163	97	316	13:27:59.466	488AJ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,214,384:82:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	97	316	22:19:11.466	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,214,910	24:0
165	97	317	03:02:55.400	488AK6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,215,190	80:0
166	97	317	05:10:55.400	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,215,317	43:0
167	97	317	11:56:15.400	488AM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,215,718	32:0
168	97	317	12:51:43.400	488AM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,215,773	19:0
169	97	317	12:57:58.733	488AM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,215,779	36:0
170	97	317	13:00:15.400	488AM6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,215,781	59:0
171	97	317	13:10:55.400	488AM6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,215,792	18:0
172	97	317	15:03:02.733	488AN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,215,903	08:0
173	97	317	16:23:59.400	488AN6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,215,983	13:0
174	97	317	16:57:38.733	488AN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,216,016	39:0
175	97	317	20:21:51.400	488AN6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,216,218	36:0
176	97	317	20:27:16.733	488AN6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,216,223	69:0
177	97	317	20:38:55.400	488AO6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,216,235	25:0
178	97	318	01:11:11.400	488AO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,216,504	50:0
179	97	318	01:58:55.400	488AO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,216,551	69:0
180	97	318	03:00:00.066	481UF4A	7VECT		Inert vect update UTC	4O0	4	0	4,216,612	15:0
181	97	318	11:49:51.333	488AP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,217,136	18:0
182	97	318	12:45:19.333	488AP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,217,191	05:0
183	97	318	12:55:59.333	488AP6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,217,201	55:0
184	97	318	13:23:43.333	488AP6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,217,229	03:0
185	97	318	22:34:07.333	488AQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,217,773	35:0
186	97	318	23:00:00.000	481UI4A	7VECT	BB1	Inert vect update UTC	4O0	4	0	4,217,798	89:0
187	97	319	01:07:43.333	488AQ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,217,925	27:0
188	97	319	05:00:15.333	488AR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,218,155	25:0
189	97	319	11:41:19.333	488AS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,218,551	85:0
190	97	319	12:41:03.333	488AS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,218,611	01:0
191	97	319	12:51:43.333	488AS6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,218,621	51:0
192	97	319	13:23:43.333	488AS6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,218,653	19:0
193	97	319	22:42:39.266	488AT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,219,206	00:0
194	97	320	01:03:27.266	488AT6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,219,345	23:0
195	97	320	01:48:15.266	488AT6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,219,389	51:0
196	97	320	02:24:19.266	488AT6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,219,425	21:0
197	97	320	04:34:39.266	488AT6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,219,554	12:0
198	97	320	05:00:15.266	488AU6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,219,579	41:0
199	97	320	06:55:27.266	488AU6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,219,693	35:0
200	97	320	20:32:31.266	488AV6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,220,501	43:0
201	97	320	20:43:11.266	488AV6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,220,512	02:0
202	97	320	23:00:59.933	488AV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,220,648	29:0
203	97	321	01:03:27.200	488AV6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,220,769	39:0
204	97	321	01:58:55.200	488AV6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,220,824	26:0
205	97	321	04:49:35.200	488AW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,220,993	07:0
206	97	321	05:53:38.533	488AW6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,221,056	39:0
207	97	321	06:20:28.533	488AW6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,221,082	88:0
208	97	321	10:35:11.200	488AW6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,221,334	80:0
209	97	321	12:30:23.200	488AX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,221,448	74:0
210	97	321	12:45:19.200	488AX6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,221,463	53:0
211	97	321	13:17:19.200	488AX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,221,495	21:0
212	97	321	20:13:47.200	488AY6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,221,907	11:0
213	97	322	01:02:24.533	488AY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,222,192	52:0
214	97	322	01:14:07.200	488AY6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,222,204	14:0
215	97	322	01:58:55.200	488AY6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,222,248	42:0
216	97	322	11:24:15.133	488AZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,222,807	53:0
217	97	322	12:30:23.133	488AZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,222,872	90:0
218	97	322	12:41:03.133	488AZ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,222,883	49:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	97	322	13:13:03.133	488AZ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,222,915:17:0	
220	97	322	20:08:39.133	488BA6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,223,326:20:0	
221	97	323	00:57:16.466	488BA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,223,611:61:0	
222	97	323	01:07:43.133	488BA6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,223,622:00:0	
223	97	323	01:52:31.133	488BA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,223,666:28:0	
224	97	323	11:24:15.133	488BB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,224,231:69:0	
225	97	323	12:23:59.133	488BB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,224,290:76:0	
226	97	323	12:41:03.133	488BB6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,224,307:65:0	
227	97	323	12:58:07.133	488BB6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,224,324:54:0	
228	97	323	13:47:11.133	488BB6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,224,373:11:0	
229	97	323	14:14:49.066	488BC6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,224,400:41:0	
230	97	323	14:48:28.400	488BC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,224,433:67:0	
231	97	323	19:49:51.066	488BC6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,224,731:73:0	
232	97	323	20:21:51.066	488BD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,224,763:41:0	
233	97	323	21:29:51.066	488BD6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,224,830:64:0	
234	97	323	22:03:30.400	488BD6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,224,863:90:0	
235	97	323	22:23:27.066	488BD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,224,883:65:0	
236	97	324	00:48:31.066	488BD6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,225,027:17:0	
237	97	324	04:45:19.066	488BE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,225,261:35:0	
238	97	324	11:19:59.066	488BF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,225,651:65:0	
239	97	324	12:19:43.066	488BF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,225,710:72:0	
240	97	324	12:34:39.066	488BF6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,225,725:51:0	
241	97	324	13:02:23.066	488BF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,225,752:90:0	
242	97	324	22:12:47.000	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,226,297:31:0	
243	97	325	00:48:31.000	488BG6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,226,451:33:0	
244	97	325	04:38:55.000	488BH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,226,679:21:0	
245	97	325	11:19:59.000	488BI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,227,075:81:0	
246	97	325	12:19:43.000	488BI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,227,134:88:0	
247	97	325	12:30:23.000	488BI6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,227,145:47:0	
248	97	325	13:02:23.000	488BI6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,227,177:15:0	
249	97	325	14:54:27.000	176SC6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	4,227,288:00:0	
250	97	325	15:25:02.333	490UA412A4B	**7MODE**	**INT**	**AACS INERTIAL MODE**	4O0	4	0	4,227,318:23:0	
251	97	325	15:30:00.333	490UA412A4D	**7SAFE**	**UNSTOW**	**S/P TO 153 deg cone**	4O0	4	0	4,227,323:15:0	
252	97	325	15:34:10.333	490UA412A4E	7VECT	RTH	Inert vect update UTC	4O0	4	0	4,227,327:26:0	
253	97	325	15:34:14.333	490UA412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	4,227,327:32:0	
254	97	325	15:38:02.333	490UA412A406A4A	7VECT		Inert vect update UTC	4O0	4	0	4,227,331:10:0	
255	97	325	15:38:04.333	490UA412A406A4B	7STAR	1,3000,95.710999	Star catalog update	4O0	4	0	4,227,331:13:0	
256	97	325	15:38:06.333	490UA412A406A4C	7STAR	2,98,27.694,63.4	Star catalog update	4O0	4	0	4,227,331:16:0	
257	97	325	15:38:08.333	490UA412A406A4D	7STAR	3,111,257.16	Star catalog update	4O0	4	0	4,227,331:19:0	
258	97	325	15:38:10.333	490UA412A406A4E	7STAR	4,0,0.0,0.0	Star catalog update	4O0	4	0	4,227,331:22:0	
259	97	325	15:38:12.333	490UA412A406A4F	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	4,227,331:25:0	
260	97	325	15:38:14.333	490UA412A406A4G	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	4,227,331:28:0	
261	97	325	16:47:13.000	490UA412A4L	**7MODE**	**CRU**	**AACS CRUISE MODE**	4O0	4	0	4,227,399:48:0	
262	97	325	16:49:15.000	490UA412A4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,227,401:49:0	
263	97	325	17:06:54.333	176TS6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	4,227,419:00:0	
264	97	325	20:04:47.000	488BJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,227,594:84:0	
265	97	325	20:15:27.000	488BJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,227,605:43:0	
266	97	325	23:23:11.000	488BJ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,227,791:13:0	
267	97	326	00:42:07.000	488BJ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,227,869:19:0	
268	97	326	00:52:47.000	488BJ6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,227,879:69:0	
269	97	326	04:38:54.933	488BK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,228,103:37:0	
270	97	326	11:00:46.933	488BL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,228,481:07:0	
271	97	326	12:09:02.933	488BL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,228,548:54:0	
272	97	326	12:23:58.933	488BL6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,228,563:33:0	
273	97	326	12:43:10.933	488BL6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,228,582:32:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	97	326	13:06:38.933	488BL6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,228,605:51:0	
275	97	326	19:49:50.933	488BM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,229,004:30:0	
276	97	326	20:36:46.933	488BM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,229,050:68:0	
277	97	326	21:15:14.266	488BM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,229,088:71:0	
278	97	326	21:48:53.600	488BM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,229,122:06:0	
279	97	327	00:42:06.933	488BM6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,229,293:35:0	
280	97	327	01:11:58.933	488BN6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,229,322:84:0	
281	97	327	04:34:38.933	488BN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,229,523:33:0	
282	97	327	05:34:26.933	488BN6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,229,582:46:0	
283	97	327	06:01:16.266	488BN6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,229,609:03:0	
284	97	327	10:58:38.866	488BO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,229,903:13:0	
285	97	327	12:04:46.866	488BO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,229,968:50:0	
286	97	327	12:23:58.866	488BO6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,229,987:49:0	
287	97	327	12:43:10.866	488BO6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,230,006:48:0	
288	97	327	13:02:22.866	488BO6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,230,025:47:0	
289	97	327	19:51:58.866	488BP6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,230,430:56:0	
290	97	327	20:02:38.866	488BP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,230,441:15:0	
291	97	327	22:17:02.866	488BP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,230,574:08:0	
292	97	328	00:37:50.866	488BP6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,230,713:31:0	
293	97	328	04:30:22.866	488BQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,230,943:29:0	
294	97	328	11:05:02.866	488BR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,231,333:59:0	
295	97	328	12:04:46.866	488BR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,231,392:66:0	
296	97	328	12:19:42.866	488BR6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,231,407:45:0	
297	97	328	12:36:46.866	488BR6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,231,424:34:0	
298	97	328	12:51:42.866	488BR6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,231,439:13:0	
299	97	328	21:57:50.800	488BS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,231,979:25:0	
300	97	329	00:31:26.800	488BS6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,232,131:17:0	
301	97	329	04:30:22.800	488BT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,232,367:45:0	
302	97	329	11:05:02.800	488BU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,232,757:75:0	
303	97	329	12:04:46.800	488BU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,232,816:82:0	
304	97	329	12:13:18.800	488BU6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,232,825:31:0	
305	97	329	12:32:30.800	488BU6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,232,844:30:0	
306	97	329	12:47:26.800	488BU6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,232,859:09:0	
307	97	329	19:34:54.800	488BV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,233,262:08:0	
308	97	329	20:11:10.800	488BV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,233,297:87:0	
309	97	329	21:05:37.466	488BV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,233,351:73:0	
310	97	329	21:39:16.133	488BV6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,233,385:07:0	
311	97	330	00:27:10.800	488BV6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,233,551:13:0	
312	97	330	00:46:22.800	488BW6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,233,570:12:0	
313	97	330	04:23:58.733	488BW6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,233,785:31:0	
314	97	330	05:29:48.733	488BW6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,233,850:41:0	
315	97	330	05:56:38.066	488BW6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,233,876:89:0	
316	97	330	11:05:02.733	488BX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,234,182:00:0	
317	97	330	11:58:22.733	488BX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,234,234:68:0	
318	97	330	12:13:18.733	488BX6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,234,249:47:0	
319	97	330	12:43:10.733	488BX6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,234,279:05:0	
320	97	330	13:21:34.733	488BX6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,234,317:03:0	
321	97	330	13:50:42.066	488BY6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,234,345:76:0	
322	97	330	14:24:21.400	488BY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,234,379:11:0	
323	97	330	16:08:22.733	176TI6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	4,234,482:00:0	
324	97	330	16:11:42.733	20UJ4B	**7SAFE**	**UNSTOW**	**S/P TO 153 deg cone**	4O0	4	0	4,234,485:27:0	
325	97	330	16:30:42.733	20UJ4D	**7MODE**	**INT**	**AACS INERTIAL MODE**	4O0	4	0	4,234,504:08:0	
326	97	330	18:51:12.066	488BY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,234,643:03:0	
327	97	330	18:58:38.733	488BY6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,234,650:36:0	
328	97	331	01:11:58.733	488BZ6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,235,019:57:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	97	331	01:12:22.733	444UC443A4A	**7MODE**	**CRU**	**AACS CRUISE MODE**	4O0	4	0	4,235,020:02:0	
330	97	331	01:13:37.400	488BZ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,235,021:23:0	
331	97	331	01:17:26.733	20UI4A	**7SAFE**	**STOP**	**S/P NO MOVEMENT**	4O0	4	0	4,235,025:03:0	
332	97	331	01:18:16.733	20UI4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,235,025:78:0	
333	97	331	01:18:25.400	176TQ6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	4,235,026:00:0	
334	97	331	04:19:42.733	488BZ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,235,205:27:0	
335	97	331	11:05:02.666	488CA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,235,606:16:0	
336	97	331	11:58:22.666	488CA6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,235,658:84:0	
337	97	331	12:28:14.666	488CA6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,235,688:42:0	
338	97	331	13:10:54.666	488CA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,235,730:60:0	
339	97	331	13:45:49.333	488CA6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,235,765:17:0	
340	97	331	14:19:28.666	488CB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,235,798:43:0	
341	97	331	19:19:58.666	488CB6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,236,095:61:0	
342	97	331	19:37:02.666	488CB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,236,112:50:0	
343	97	331	21:05:51.333	488CC6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,236,200:35:0	
344	97	331	21:30:06.666	488CC6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,236,224:34:0	
345	97	331	21:36:29.333	488CC6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,236,230:62:0	
346	97	332	00:22:54.666	488CC6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,236,395:25:0	
347	97	332	04:19:42.666	488CD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,236,629:43:0	
348	97	332	11:05:02.666	488CE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,237,030:32:0	
349	97	332	11:51:58.666	488CE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,237,076:70:0	
350	97	332	12:04:46.666	488CE6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,237,089:39:0	
351	97	332	12:32:30.666	488CE6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,237,116:78:0	
352	97	332	21:06:38.600	488CF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,237,625:31:0	
353	97	333	00:20:46.600	488CF6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,237,817:31:0	
354	97	333	04:13:18.600	488CG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,238,047:29:0	
355	97	333	11:02:54.600	488CH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,238,452:38:0	
356	97	333	11:54:06.600	488CH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,238,503:05:0	
357	97	333	12:26:06.600	488CH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,238,534:64:0	
358	97	333	14:47:17.933	488CH6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,238,674:31:0	
359	97	334	00:20:54.533	488CI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,239,241:59:0	
360	97	334	00:31:26.533	488CI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,239,252:06:0	
361	97	334	00:57:02.533	488CI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,239,277:35:0	
362	97	334	11:02:54.533	488CJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,239,876:54:0	
363	97	334	11:47:42.533	488CJ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,239,920:82:0	
364	97	334	12:17:34.533	488CJ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,239,950:40:0	
365	97	334	12:51:42.533	488CJ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,239,984:18:0	
366	97	334	13:36:10.533	488CJ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,240,028:16:0	
367	97	334	14:09:49.200	488CK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,240,061:41:0	
368	97	334	20:51:42.533	488CL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,240,458:84:0	
369	97	334	20:58:58.533	488CL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,240,466:10:0	
370	97	334	21:28:04.533	488CL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,240,494:81:0	
371	97	335	00:12:14.533	488CL6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,240,657:23:0	
372	97	335	01:50:04.533	488CL6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,240,754:01:0	
373	97	335	01:52:30.533	488CM6A	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,240,756:38:0	
374	97	335	01:54:10.533	488CM6B	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,240,758:06:0	
375	97	335	03:24:14.533	488CM6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,240,847:13:0	
376	97	335	04:09:02.533	488CM6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,240,891:41:0	
377	97	335	11:02:54.466	488CN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,241,300:70:0	
378	97	335	11:47:42.466	488CN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,241,345:07:0	
379	97	335	12:15:26.466	488CN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,241,372:46:0	
380	97	335	15:06:06.466	488CN6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,241,541:27:0	
381	97	335	17:14:06.466	488CO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,241,667:81:0	
382	97	335	20:41:02.466	488CO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,241,872:50:0	
383	97	336	00:12:14.466	488CP6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,242,081:39:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	97	336	01:39:24.466	488CP6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,242,167	58:0
385	97	336	01:41:50.466	488CP6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,242,170	04:0
386	97	336	01:43:30.466	488CP6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,242,171	63:0
387	97	336	03:28:30.466	488CP6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,242,275	49:0
388	97	336	04:02:38.466	488CQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,242,309	27:0
389	97	336	10:58:38.466	488CR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,242,720	66:0
390	97	336	11:43:26.466	488CR6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,242,765	03:0
391	97	336	12:11:10.400	488CR6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,242,792	42:0
392	97	336	14:51:10.400	488CR6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,242,950	64:0
393	97	336	17:18:22.400	488CS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,243,096	26:0
394	97	336	20:36:46.400	488CS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,243,292	46:0
395	97	337	00:05:50.400	488CT6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,243,499	25:0
396	97	337	01:28:44.400	488CT6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,243,581	24:0
397	97	337	01:31:10.400	488CT6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,243,583	61:0
398	97	337	01:32:50.400	488CT6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,243,585	29:0
399	97	337	03:28:30.400	488CT6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,243,699	65:0
400	97	337	04:02:38.400	488CU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,243,733	43:0
401	97	337	10:58:38.400	488CV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,244,144	82:0
402	97	337	11:39:10.400	488CV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,244,184	90:0
403	97	337	11:47:42.400	488CV6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,244,193	39:0
404	97	337	12:06:54.400	488CV6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,244,212	38:0
405	97	337	12:36:46.400	488CV6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,244,241	87:0
406	97	337	13:26:29.066	488CW6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,244,291	11:0
407	97	337	14:00:08.400	488CW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,244,324	37:0
408	97	337	20:30:22.333	488CX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,244,710	32:0
409	97	337	20:49:17.666	488CX6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,244,729	06:0
410	97	337	21:18:23.666	488CX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,244,757	77:0
411	97	337	21:57:59.000	176TY6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	4,244,797	00:0
412	97	337	22:01:59.666	20UX4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,244,800	88:0
413	97	337	22:02:59.666	20UX4D	**7MODE**	**SPNL**	**AACS ALL-SPIN LOW**	4O0	4	0	4,244,801	87:0
414	97	337	22:04:59.666	20UX4E	**7SAFE**	**UNSTOW**	**S/P TO 153 deg cone**	4O0	4	0	4,244,803	85:0
415	97	337	22:10:29.666	20UX4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,244,809	34:0
416	97	337	22:10:30.333	20UX4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,244,809	35:0
417	97	337	22:10:50.333	20UX4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,244,809	65:0
418	97	337	22:10:51.000	20UX4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,244,809	66:0
419	97	337	22:11:11.000	20UX4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,244,810	05:0
420	97	337	22:11:11.666	20UX4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,244,810	06:0
421	97	337	22:11:21.666	20UX4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,244,810	21:0
422	97	337	22:11:22.333	20UX4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,244,810	22:0
423	97	337	22:11:32.333	20UX4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,244,810	37:0
424	97	337	22:11:33.000	20UX4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,244,810	38:0
425	97	337	22:13:19.666	20UX4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,244,812	16:0
426	97	337	22:13:20.333	20UX4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,244,812	17:0
427	97	337	22:13:40.333	20UX4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,244,812	47:0
428	97	337	22:13:41.000	20UX4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,244,812	48:0
429	97	337	22:14:01.000	20UX4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,244,812	78:0
430	97	337	22:14:01.666	20UX4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,244,812	79:0
431	97	337	22:14:11.666	20UX4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,244,813	03:0
432	97	337	22:14:12.333	20UX4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,244,813	04:0
433	97	337	22:14:22.333	20UX4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,244,813	19:0
434	97	337	22:14:23.000	20UX4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,244,813	20:0
435	97	337	22:15:19.666	20UX4Z	**7MODE**	**CRU**	**AACS CRUISE MODE**	4O0	4	0	4,244,814	14:0
436	97	337	22:41:04.333	20UY4A	**7SAFE**	**STOP**	**S/P NO MOVEMENT**	4O0	4	0	4,244,839	56:0
437	97	337	22:41:54.333	20UY4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,244,840	40:0
438	97	337	22:43:29.000	176TX6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	4,244,842	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	97	338	00:05:50.333	488CX6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,244,923:41:0	
440	97	338	03:58:22.333	488CY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,245,153:39:0	
441	97	338	10:54:22.333	488CZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,245,564:78:0	
442	97	338	11:39:10.333	488CZ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,245,609:15:0	
443	97	338	11:56:14.333	488CZ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,245,626:04:0	
444	97	338	12:30:22.333	488CZ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,245,659:73:0	
445	97	338	13:21:35.000	488CZ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,245,710:41:0	
446	97	338	13:55:14.333	488DA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,245,743:67:0	
447	97	338	19:17:50.333	488DA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,246,062:72:0	
448	97	338	19:28:30.333	488DA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,246,073:31:0	
449	97	338	20:31:37.000	488DB6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,246,135:69:0	
450	97	338	21:10:16.333	488DB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,246,173:90:0	
451	97	339	00:00:00.333	481UG4A	7VECT		Inert vect update UTC	4O0	4	0	4,246,341:78:0	
452	97	339	00:01:34.333	488DB6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,246,343:37:0	
453	97	339	00:16:30.333	488DB6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,246,358:16:0	
454	97	339	05:02:11.600	488DC6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,246,640:66:0	
455	97	339	05:26:44.933	488DC6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,246,665:01:0	
456	97	339	10:18:06.266	488DC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,246,953:15:0	
457	97	339	11:39:10.266	488DD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,247,033:31:0	
458	97	339	12:00:30.266	488DD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,247,054:40:0	
459	97	339	14:31:58.266	488DD6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,247,204:22:0	
460	97	339	17:18:22.266	488DD6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,247,368:74:0	
461	97	339	20:26:06.266	488DE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,247,554:44:0	
462	97	339	23:55:10.266	488DE6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,247,761:23:0	
463	97	340	01:13:48.266	488DE6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,247,839:02:0	
464	97	340	01:16:14.266	488DE6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,247,841:39:0	
465	97	340	01:17:54.266	488DE6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,247,843:07:0	
466	97	340	03:24:14.266	488DF6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,247,968:02:0	
467	97	340	03:54:06.266	488DF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,247,997:51:0	
468	97	340	10:47:58.200	488DG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,248,406:80:0	
469	97	340	11:28:30.200	488DG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,248,446:88:0	
470	97	340	11:39:10.200	488DG6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,248,457:47:0	
471	97	340	11:56:14.200	488DG6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,248,474:36:0	
472	97	340	12:26:06.200	488DG6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,248,503:85:0	
473	97	340	13:16:47.533	488DH6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,248,554:06:0	
474	97	340	13:50:26.200	488DH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,248,587:31:0	
475	97	340	20:21:50.200	488DI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,248,974:40:0	
476	97	340	20:39:35.533	488DI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,248,992:00:0	
477	97	340	21:08:41.533	488DI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,249,020:71:0	
478	97	340	23:55:10.200	488DI6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,249,185:39:0	
479	97	341	01:13:48.200	488DI6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,249,263:18:0	
480	97	341	01:16:14.200	488DJ6A	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,249,265:55:0	
481	97	341	01:17:54.200	488DJ6B	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,249,267:23:0	
482	97	341	03:17:50.200	488DJ6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,249,385:79:0	
483	97	341	03:47:42.200	488DJ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,249,415:37:0	
484	97	341	10:43:42.200	488DK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,249,826:76:0	
485	97	341	11:22:06.200	488DK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,249,864:74:0	
486	97	341	11:56:14.200	488DK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,249,898:52:0	
487	97	341	14:29:50.200	488DK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,250,050:44:0	
488	97	341	17:03:26.133	488DL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,250,202:36:0	
489	97	341	20:21:50.133	488DL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,250,398:56:0	
490	97	341	23:50:54.133	488DM6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,250,605:35:0	
491	97	342	01:13:48.133	488DM6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,250,687:34:0	
492	97	342	01:16:14.133	488DM6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,250,689:71:0	
493	97	342	01:17:54.133	488DM6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,250,691:39:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	97	342	03:07:10.133	488DM6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,250,799	45:0
495	97	342	03:47:42.133	488DN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,250,839	53:0
496	97	342	10:37:18.133	488DO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,251,244	62:0
497	97	342	11:22:06.133	488DO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,251,288	90:0
498	97	342	11:49:50.133	488DO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,251,316	38:0
499	97	342	14:36:14.133	488DO6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,251,480	90:0
500	97	342	16:52:46.133	488DP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,251,616	02:0
501	97	342	20:19:42.133	488DP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,251,820	62:0
502	97	342	23:50:54.066	488DQ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,252,029	51:0
503	97	343	01:18:04.066	488DQ6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,252,115	70:0
504	97	343	01:20:30.066	488DQ6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,252,118	16:0
505	97	343	01:22:10.066	488DQ6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	4,252,119	75:0
506	97	343	03:02:54.066	488DQ6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,252,219	41:0
507	97	343	03:43:26.066	488DR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,252,259	49:0
508	97	343	10:33:02.066	488DS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,252,664	58:0
509	97	343	11:17:50.066	488DS6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,252,708	86:0
510	97	343	11:41:18.066	488DS6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,252,732	14:0
511	97	343	12:19:42.066	488DS6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,252,770	12:0
512	97	343	13:07:04.066	488DS6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,252,816	89:0
513	97	343	13:40:43.400	488DT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,252,850	24:0
514	97	343	18:51:15.400	488DT6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,253,157	35:0
515	97	343	19:24:54.733	488DT6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,253,190	61:0
516	97	343	20:15:26.066	488DU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,253,240	58:0
517	97	343	20:24:52.733	488DU6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,253,249	89:0
518	97	343	20:53:58.733	488DU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,253,278	69:0
519	97	344	00:31:26.066	488DU6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,253,493	75:0
520	97	344	01:41:46.733	488DU6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,253,563	36:0
521	97	344	02:48:19.400	488DV6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,253,629	19:0
522	97	344	03:37:02.066	488DV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,253,677	35:0
523	97	344	10:28:46.000	488DW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,254,084	54:0
524	97	344	11:13:34.000	488DW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,254,128	82:0
525	97	344	11:16:12.000	488DW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,254,131	46:0
526	97	344	11:26:22.000	488DW6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,254,141	51:0
527	97	344	21:48:02.666	488DX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,254,756	37:0
528	97	344	23:40:14.000	488DX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,254,867	33:0
529	97	344	23:50:54.000	488DX6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,254,877	83:0
530	97	345	03:37:02.000	488DX6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,255,101	51:0
531	97	345	09:18:22.000	488DY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,255,439	13:0
532	97	345	10:37:18.000	488DY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,255,517	19:0
533	97	345	11:08:41.333	488DY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,255,548	23:0
534	97	345	11:13:34.000	488DY6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,255,553	07:0
535	97	345	11:49:50.000	488DY6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,255,588	86:0
536	97	345	21:42:57.933	488DZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,256,175	51:0
537	97	345	23:35:57.933	488DZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,256,287	29:0
538	97	345	23:50:53.933	488DZ6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,256,302	08:0
539	97	346	02:59:59.933	481UJ4A	7VECT		Inert vect update UTC	4O0	4	0	4,256,489	10:0
540	97	346	03:32:45.933	488DZ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,256,521	47:0
541	97	346	06:35:14.600	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,256,701	90:0
542	97	346	06:35:15.266	432MC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,256,702	00:0
543	97	346	09:07:41.933	488EA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,256,852	70:0
544	97	346	10:33:01.933	488EA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,256,937	15:0
545	97	346	11:05:31.266	488EA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,256,969	27:0
546	97	346	11:11:25.933	488EA6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,256,975	13:0
547	97	346	11:26:01.266	488EA6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,256,989	52:0
548	97	346	11:41:17.933	488EB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,257,004	62:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	97	346	19:17:49.933	488EC6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,257,456	18:0
550	97	346	19:36:50.600	488EC6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,257,475	00:0
551	97	346	19:43:25.933	488EC6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,257,481	47:0
552	97	346	19:58:21.933	488EC6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,257,496	26:0
553	97	346	21:59:39.200	488EC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,257,616	22:0
554	97	346	23:27:21.200	488ED6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,257,702	89:0
555	97	346	23:50:53.866	488ED6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,257,726	24:0
556	97	346	23:56:07.200	488ED6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,257,731	39:0
557	97	347	02:21:31.866	488ED6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,257,875	22:0
558	97	347	02:53:21.200	488ED6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,257,906	65:0
559	97	347	03:32:45.866	488EE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,257,945	63:0
560	97	347	10:37:17.866	488EF6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,258,365	51:0
561	97	347	11:00:02.533	488EF6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,258,388	05:0
562	97	347	11:07:09.866	488EF6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,258,395	09:0
563	97	347	11:43:25.866	488EF6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,258,430	88:0
564	97	347	20:39:35.200	488EG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,258,961	21:0
565	97	347	22:07:26.533	488EG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,259,048	11:0
566	97	347	22:41:05.200	488EG6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,259,081	36:0
567	97	347	22:57:52.533	176TK6A	6TMREC	**PPB**	**PAUSE PLAYBACK (PB CONTROL) Record Mode C**	4O0	4	0	4,259,098	00:0
568	97	347	23:29:33.866	488EG6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,259,129	31:0
569	97	348	00:54:53.866	488EG6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,259,213	67:0
570	97	348	03:07:09.866	488EH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,259,344	50:0
571	97	348	04:31:36.466	488EH6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,259,428	06:0
572	97	348	04:37:01.800	20UF4A	**7SAFE**	**STOP**	**S/P NO MOVEMENT**	4O0	4	0	4,259,433	39:0
573	97	348	04:37:51.800	20UF4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,259,434	23:0
574	97	348	04:38:37.133	176TJ6A	6TMREC	**RPB**	**RESUME PLAYBACK (PB CONTROL) Record Mode**	4O0	4	0	4,259,435	00:0
575	97	348	04:58:26.466	488EH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,259,454	55:0
576	97	348	08:16:29.800	488EH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,259,650	44:0
577	97	348	10:11:41.800	488EI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,259,764	38:0
578	97	348	11:02:53.800	488EI6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,259,815	05:0
579	97	348	11:30:37.800	488EI6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,259,842	44:0
580	97	348	12:26:05.800	488EI6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,259,897	31:0
581	97	348	12:47:28.466	488EI6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,259,918	44:0
582	97	348	13:21:07.133	488EJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,259,951	69:0
583	97	348	18:18:05.800	488EJ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,260,245	43:0
584	97	348	18:33:47.800	488EJ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,260,261	00:0
585	97	348	18:45:49.800	488EJ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,260,272	82:0
586	97	348	19:31:25.800	176TM6A	6TMREC	**TPB**	**TERMINATE PLAYBACK (PB CONTROL) Record Mo**	4O0	4	0	4,260,318	00:0
587	97	348	19:37:29.800	465WK6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	4,260,324	00:0
588	97	348	19:37:29.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2706.23 +/-	4O0	4	0	4,260,324	00:0
589	97	348	19:37:29.800		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 2706.23 +/-	4O0	4	0	4,260,324	00:0
590	97	348	19:37:36.466		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 2706.23 +/-	4O0	4	0	4,260,324	10:0
591	97	348	19:37:37.866		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC *2706.35 +/-	4O0	4	0	4,260,324	12:1
592	97	348	22:20:34.600		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/- 1	4O0	4	0	4,260,485	26:2
593	97	348	22:20:35.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/- 1	4O0	4	0	4,260,485	28:0
594	97	348	22:22:43.800	488EK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,260,487	38:0
595	97	348	23:40:13.800	488EK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,260,564	06:0
596	97	349	00:01:59.800	481UH4A	7VECT		Inert vect update UTC	4O0	4	0	4,260,585	54:0
597	97	349	01:01:39.800	488EK6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,260,644	55:0
598	97	349	01:28:29.133	488EK6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,260,671	12:0
599	97	349	01:31:11.133	465WL6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,260,673	73:0
600	97	349	01:31:11.133		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/- 1	4O0	4	0	4,260,673	73:0
601	97	349	01:31:12.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/- 1	4O0	4	0	4,260,673	75:1
602	97	349	01:31:17.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/- 1	4O0	4	0	4,260,673	83:0
603	97	349	01:31:19.000		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/- 1	4O0	4	0	4,260,673	84:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	97	349	01:31:22.866		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/- 1	4O0	4	0	4,260,673:90:6	
605	97	349	01:31:22.866		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/- 1	4O0	4	0	4,260,673:90:6	
606	97	349	01:57:03.133	465WL6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,260,699:35:0	
607	97	349	01:57:03.133		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/- 1	4O0	4	0	4,260,699:35:0	
608	97	349	01:57:04.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/- 1	4O0	4	0	4,260,699:36:8	
609	97	349	03:22:05.800	488EK6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,260,783:45:0	
610	97	349	03:55:51.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/- 1	4O0	4	0	4,260,816:81:0	
611	97	349	03:55:51.800		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/- 1	4O0	4	0	4,260,816:81:0	
612	97	349	03:55:51.800	465WM6A	6DTRN	CMD,6DTRN,465WM6	DMS TRACK TURNAROUND	4O0	4	0	4,260,816:81:0	
613	97	349	03:55:53.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/- 1	4O0	4	0	4,260,816:83:1	
614	97	349	03:55:58.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/- 1	4O0	4	0	4,260,817:00:0	
615	97	349	03:55:59.666		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/- 1	4O0	4	0	4,260,817:01:8	
616	97	349	03:56:01.066		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/- 1	4O0	4	0	4,260,817:03:9	
617	97	349	04:00:01.733		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 1	4O0	4	0	4,260,821:00:9	
618	97	349	04:00:02.933		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 1	4O0	4	0	4,260,821:02:7	
619	97	349	04:00:02.933		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 1	4O0	4	0	4,260,821:02:7	
620	97	349	04:00:04.333		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,260,821:04:8	
621	97	349	04:00:16.333		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,260,821:22:8	
622	97	349	04:00:17.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,260,821:24:6	
623	97	349	04:05:54.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,260,826:75:0	
624	97	349	04:05:54.466	465WN6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,260,826:75:0	
625	97	349	04:06:01.133		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,260,826:85:0	
626	97	349	04:06:05.000		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	4,260,826:90:8	
627	97	349	04:06:05.000		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	4,260,826:90:8	
628	97	349	04:37:48.466		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	4,260,858:34:0	
629	97	349	04:37:48.466	465WN6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	4,260,858:34:0	
630	97	349	04:37:49.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	4,260,858:35:8	
631	97	349	04:53:24.466		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	4,260,873:73:0	
632	97	349	04:53:24.466	465WO6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,260,873:73:0	
633	97	349	04:53:25.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	4,260,873:75:1	
634	97	349	04:53:31.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	4,260,873:83:0	
635	97	349	04:53:32.333		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	4,260,873:84:8	
636	97	349	04:53:36.200		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	4,260,873:90:6	
637	97	349	04:53:36.200		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	4,260,873:90:6	
638	97	349	05:25:32.466		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	4,260,905:53:0	
639	97	349	05:25:32.466	465WP6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,260,905:53:0	
640	97	349	05:25:33.666		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	4,260,905:54:8	
641	97	349	05:25:37.533		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	4,260,905:60:6	
642	97	349	05:25:37.533		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	4,260,905:60:6	
643	97	349	05:57:33.133		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	4,260,937:22:0	
644	97	349	05:57:33.133	465WP6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,260,937:22:0	
645	97	349	05:57:34.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	4,260,937:23:8	
646	97	349	06:12:16.466		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	4,260,951:73:0	
647	97	349	06:12:16.466	465WQ6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,260,951:73:0	
648	97	349	06:12:17.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	4,260,951:75:1	
649	97	349	06:12:23.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	4,260,951:83:0	
650	97	349	06:12:24.333		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	4,260,951:84:8	
651	97	349	06:12:28.200		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	4,260,951:90:6	
652	97	349	06:12:28.200		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	4,260,951:90:6	
653	97	349	06:44:23.800	465WR6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,260,983:52:0	
654	97	349	06:44:23.800		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	4,260,983:52:0	
655	97	349	06:44:25.000		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	4,260,983:53:8	
656	97	349	06:44:28.866		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	4,260,983:59:6	
657	97	349	06:44:28.866		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	4,260,983:59:6	
658	97	349	06:45:29.800		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	4,260,984:60:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	97	349	06:45:29.800	465WR6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,260,984	60:0
660	97	349	06:45:31.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	4,260,984	61:8
661	97	349	06:59:59.800		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	4,260,999	00:0
662	97	349	06:59:59.800	465WS6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,260,999	00:0
663	97	349	07:00:53.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	4,260,999	81:0
664	97	349	07:00:53.800		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	4,260,999	81:0
665	97	349	07:00:53.800	465WT6A	6DTRN	CMD,6DTRN,465WT6	DMS TRACK TURNAROUND	4O0	4	0	4,260,999	81:0
666	97	349	07:00:55.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	4,260,999	83:1
667	97	349	07:01:00.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	4,261,000	00:0
668	97	349	07:01:01.666		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	4,261,000	01:8
669	97	349	07:01:03.066		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	4,261,000	03:9
670	97	349	07:12:28.866		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,261,011	31:6
671	97	349	07:12:30.066		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,261,011	33:4
672	97	349	07:12:30.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,261,011	33:4
673	97	349	07:12:31.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,261,011	35:5
674	97	349	07:12:43.466		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,261,011	53:5
675	97	349	07:12:44.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,261,011	55:3
676	97	349	07:59:59.800		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,261,058	31:0
677	**97**	**349**	**08:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**4,261,058**	**31:3**
678	**97**	**349**	**08:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**4,261,058**	**31:3**
679	**97**	**349**	**08:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,261,058**	**31:3**
680	**97**	**349**	**08:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,261,058**	**31:3**
681	**97**	**349**	**08:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,261,058**	**31:3**
682	**97**	**349**	**08:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,261,058**	**31:3**
683	**97**	**349**	**08:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,261,058**	**31:3**
684	**97**	**349**	**08:00:00.000**	**20A3FE**	**40T1P**	**Final Condition**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,261,058**	**31:3**
685	**97**	**349**	**08:00:00.000**	**20A3FF**	**40T2**	**Final Condition**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,261,058**	**31:3**

11HNDARK__01

OAPEL: 11HNDARK__01 ALIAS: 11HNDARK__01
EXT: A PSID: DA
SCLK1: 04204053:00:0 SCLK2: 04204054:00:0
SCET1: 97-309/07:21:17.866 SCET2: 97-309/07:22:18.533
TARGET: SKY PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 32 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: 0326032001 03 26 032 001
WTGRP_SIZ: 26

EDIT TABLE

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

11JNBRG53M01

OAPEL: 11JNBRG53M01 ALIAS: 11JNBRG53M01
EXT: A PSID: DC
SCLK1: 04204580:00:0 SCLK2: 04204583:00:0
SCET1: 97-309/16:14:09.133 SCET2: 97-309/16:17:11.133
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: 83 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: 0326083001 03 26 083 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01003	0,0001,0000,0000,0011
1	01003	0,0001,0000,0000,0011
2	01003	0,0001,0000,0000,0011
3	01103	0,0001,0001,0000,0011
4	00103	0,0000,0001,0000,0011
5	01107	0,0001,0001,0000,0111
6	00107	0,0000,0001,0000,0111
7	00107	0,0000,0001,0000,0111
8	00107	0,0000,0001,0000,0111
9	00107	0,0000,0001,0000,0111
10	00107	0,0000,0001,0000,0111
11	00107	0,0000,0001,0000,0111
12	00107	0,0000,0001,0000,0111
13	00107	0,0000,0001,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	00007	0,0000,0000,0000,0111
17	00007	0,0000,0000,0000,0111
18	00007	0,0000,0000,0000,0111
19	00007	0,0000,0000,0000,0111
20	00007	0,0000,0000,0000,0111
21	00007	0,0000,0000,0000,0111
22	00007	0,0000,0000,0000,0111
23	00007	0,0000,0000,0000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11JNBRG53M02

OAPEL: 11JNBRG53M02 ALIAS: 11JNBRG53M02
EXT: A PSID: DD
SCLK1: 04204646:00:0 SCLK2: 04204665:71:0
SCET1: 97-309/17:20:53.133 SCET2: 97-309/17:40:53.133
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: 83 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: 0326083001 03 26 083 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	01003	0,0001,0000,0000,0011
1	01003	0,0001,0000,0000,0011
2	01003	0,0001,0000,0000,0011
3	01103	0,0001,0001,0000,0011
4	00103	0,0000,0001,0000,0011
5	01107	0,0001,0001,0000,0111
6	00107	0,0000,0001,0000,0111
7	00107	0,0000,0001,0000,0111
8	00107	0,0000,0001,0000,0111
9	00107	0,0000,0001,0000,0111
10	00107	0,0000,0001,0000,0111
11	00107	0,0000,0001,0000,0111
12	00107	0,0000,0001,0000,0111
13	00107	0,0000,0001,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	00007	0,0000,0000,0000,0111
17	00007	0,0000,0000,0000,0111
18	00007	0,0000,0000,0000,0111
19	00007	0,0000,0000,0000,0111
20	00007	0,0000,0000,0000,0111
21	00007	0,0000,0000,0000,0111
22	00007	0,0000,0000,0000,0111
23	00007	0,0000,0000,0000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11JNBRG09401

```
OAPEL:  11JNBRG09401            ALIAS:  11JNBRG09401
EXT:    A                       PSID:   DE
SCLK1:  04204680:00:0           SCLK2:  04204682:43:0
SCET1:    97-309/17:55:15.800   SCET2:    97-309/17:57:45.800
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

11JNBRG09402

```
OAPEL:  11JNBRG09402            ALIAS:  11JNBRG09402
EXT:    A                       PSID:   DF
SCLK1:  04204712:00:0           SCLK2:  04204716:86:0
SCET1:    97-309/18:27:37.133   SCET2:    97-309/18:32:37.133
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:     4                 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:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
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

11JNBRG09403

```
OAPEL:  11JNBRG09403              ALIAS:  11JNBRG09403
EXT:    A                         PSID:   DG
SCLK1:  04204736:00:0             SCLK2:  04204740:86:0
SCET1:    97-309/18:51:53.133     SCET2:    97-309/18:56:53.133
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

11JNBRG09404

```
OAPEL:  11JNBRG09404              ALIAS:  11JNBRG09404
EXT:    A                         PSID:   DH
SCLK1:  04204769:00:0             SCLK2:  04204772:27:0
SCET1:    97-309/19:25:15.133     SCET2:    97-309/19:28:35.133
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

11JNCYLMOS01

```
OAPEL:  11JNCYLMOS01            ALIAS:  11JNCYLMOS01
EXT:    A                       PSID:   DL
SCLK1:  04204821:00:0           SCLK2:  04204830:81:0
SCET1:    97-309/20:17:49.800   SCET2:    97-309/20:27:49.800
TARGET: JUPITER                 PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:     5                 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:     0713005001          07  13  005  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

11JNCYLMOS02

```
OAPEL:  11JNCYLMOS02              ALIAS:  11JNCYLMOS02
EXT:    A                         PSID:   DN
SCLK1:  04204914:00:0             SCLK2:  04204923:81:0
SCET1:    97-309/21:51:51.800     SCET2:    97-309/22:01:51.800
TARGET: JUPITER                   PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:     5                   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:     0713005001          07  13  005  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

11JNCYLMOS03

```
OAPEL:  11JNCYLMOS03              ALIAS:  11JNCYLMOS03
EXT:    A                         PSID:   DO
SCLK1:  04204988:00:0             SCLK2:  04204997:81:0
SCET1:    97-309/23:06:41.133     SCET2:    97-309/23:16:41.133
TARGET: JUPITER                   PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:     5                   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:     0713005001          07  13  005  001
WTGRP_SIZ:  13
```

EDIT TABLE

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

11ENM20HR_01

```
OAPEL:  11ENM20HR_01            ALIAS:  11ENM20HR_01
EXT:    A                       PSID:   ME
SCLK1:  04205060:00:0           SCLK2:  04205066:55:0
SCET1:    97-310/00:19:29.133   SCET2:    97-310/00:26:10.466
TARGET: EUROPA                  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:   360                 TLMFMT:     MPW

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

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

EDIT TABLE

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

11ENM20HR_01

OAPEL: 11ENM20HR_01 ALIAS: 11ENM20HR_01
EXT: B PSID: ME
SCLK1: 04205068:13:0 SCLK2: 04205076:03:0
SCET1: 97-310/00:27:43.133 SCET2: 97-310/00:35:42.466
TARGET: EUROPA PARTITION: 1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11JNCYLMOS05

OAPEL: 11JNCYLMOS05 ALIAS: 11JNCYLMOS05
EXT: A PSID: DU
SCLK1: 04205137:00:0 SCLK2: 04205146:81:0
SCET1: 97-310/01:37:20.466 SCET2: 97-310/01:47:20.466
TARGET: JUPITER PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 5 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: 0713005001 07 13 005 001
WTGRP_SIZ: 13

EDIT TABLE

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

11ENM17HR_01

OAPEL: 11ENM17HR_01 ALIAS: 11ENM17HR_01
EXT: A PSID: DX
SCLK1: 04205219:00:0 SCLK2: 04205227:64:0
SCET1: 97-310/03:00:15.133 SCET2: 97-310/03:09:03.800
TARGET: EUROPA 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: 360 TLMFMT: MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

11ENM17HR_01

OAPEL: 11ENM17HR_01 ALIAS: 11ENM17HR_01
EXT: B PSID: DX
SCLK1: 04205229:00:0 SCLK2: 04205237:78:0
SCET1: 97-310/03:10:21.800 SCET2: 97-310/03:19:19.800
TARGET: EUROPA PARTITION: 1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11ENM15HR_01

OAPEL: 11ENM15HR_01 ALIAS: 11ENM15HR_01
EXT: A PSID: DY
SCLK1: 04205362:00:0 SCLK2: 04205371:66:0
SCET1: 97-310/05:24:50.466 SCET2: 97-310/05:34:41.133
TARGET: EUROPA 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: 360 TLMFMT: MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

11ENM15HR_01

OAPEL: 11ENM15HR_01 ALIAS: 11ENM15HR_01
EXT: B PSID: DY
SCLK1: 04205373:00:0 SCLK2: 04205382:66:0
SCET1: 97-310/05:35:57.800 SCET2: 97-310/05:45:48.466
TARGET: EUROPA PARTITION: 1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11JNRTBRG_01

OAPEL: 11JNRTBRG_01 ALIAS: 11JNRTBRG_01
EXT: R PSID: KH
SCLK1: 04205860:00:0 SCLK2: 04205864:12:0
SCET1: 1997-310/13:48:22.466 SCET2: 1997-310/13:52:33.133
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

11JNBRG04202

```
OAPEL:  11JNBRG04202            ALIAS:  11JNBRG04202
EXT:    A                       PSID:   EB
SCLK1:  04205878:00:0           SCLK2:  04205884:54:0
SCET1:    97-310/14:06:34.466   SCET2:    97-310/14:13:14.466
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:     4                 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:     0507004001          05  07  004  001
WTGRP_SIZ:  7
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00000	0,0000,0000,0000,0000
1	01900	0,0001,1001,0000,0000
2	10000	1,0000,0000,0000,0000
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

11JNRTBRG_02

OAPEL: 11JNRTBRG_02 ALIAS: 11JNRTBRG_02
EXT: R PSID: KY
SCLK1: 04205887:00:0 SCLK2: 04205891:12:0
SCET1: 1997-310/14:15:50.466 SCET2: 1997-310/14:19:51.133
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

11JNBRG04203

```
OAPEL:  11JNBRG04203              ALIAS:  11JNBRG04203
EXT:    A                         PSID:   EC
SCLK1:  04205903:00:0             SCLK2:  04205909:54:0
SCET1:    97-310/14:31:51.133     SCET2:    97-310/14:38:31.133
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

11JNBRG04204

```
OAPEL:  11JNBRG04204              ALIAS:  11JNBRG04204
EXT:    A                         PSID:   ED
SCLK1:  04205957:00:0             SCLK2:  04205963:54:0
SCET1:    97-310/15:26:27.133     SCET2:    97-310/15:33:07.133
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

11JNBRG04205

```
OAPEL:  11JNBRG04205            ALIAS:  11JNBRG04205
EXT:    A                       PSID:   EE
SCLK1:  04206038:00:0           SCLK2:  04206044:55:0
SCET1:    97-310/16:48:21.733   SCET2:    97-310/16:55:01.733
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

11NNHEALTH01

```
OAPEL:  11NNHEALTH01              ALIAS:  11NNHEALTH01
EXT:    R                         PSID:   KA
SCLK1:  04206121:00:0             SCLK2:  04206121:12:0
SCET1:  1997-310/18:12:16.400     SCET2:  1997-310/18:12:24.400
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

11ENDRKLIT01

```
OAPEL:  11ENDRKLIT01            ALIAS:  11ENDRKLIT01
EXT:    A                       PSID:   EJ
SCLK1:  04206158:00:0           SCLK2:  04206164:01:0
SCET1:    97-310/18:49:41.066   SCET2:    97-310/18:55:45.733
TARGET: EUROPA                  PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11ENEURORT01

OAPEL: 11ENEURORT01 ALIAS: 11ENEURORT01
EXT: R PSID: EI
SCLK1: 04206188:00:0 SCLK2: 04206188:12:0
SCET1: 1997-310/19:20:01.066 SCET2: 1997-310/19:20:09.066
TARGET: EUROPA 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

11ENCYCLOD01

OAPEL: 11ENCYCLOD01 ALIAS: 11ENCYCLOD01
EXT: A PSID: EK
SCLK1: 04206195:00:0 SCLK2: 04206206:65:0
SCET1: 97-310/19:27:05.733 SCET2: 97-310/19:38:57.066
TARGET: EUROPA PARTITION: 1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11ENLEADRT01

```
OAPEL:  11ENLEADRT01            ALIAS:  11ENLEADRT01
EXT:    R                       PSID:   KQ
SCLK1:  04206270:00:0           SCLK2:  04206277:12:0
SCET1:  1997-310/20:42:55.733   SCET2:  1997-310/20:50:08.400
TARGET: EUROPA                  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

11HNDARK__02

OAPEL: 11HNDARK__02 ALIAS: 11HNDARK__02
EXT: A PSID: EG
SCLK1: 04206434:00:0 SCLK2: 04206435:00:0
SCET1: 97-310/23:28:45.733 SCET2: 97-310/23:29:45.733
TARGET: SKY PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 32 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: 0326032001 03 26 032 001
WTGRP_SIZ: 26

EDIT TABLE

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

11JNBRG02001

```
OAPEL:  11JNBRG02001            ALIAS:  11JNBRG02001
EXT:    A                       PSID:   EO
SCLK1:  04206482:00:0           SCLK2:  04206484:44:0
SCET1:    97-311/00:17:17.733   SCET2:    97-311/00:19:47.733
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

11JNRTBRG_03

OAPEL: 11JNRTBRG_03 ALIAS: 11JNRTBRG_03
EXT: R PSID: KX
SCLK1: 04206492:00:0 SCLK2: 04206496:12:0
SCET1: 1997-311/00:27:23.733 SCET2: 1997-311/00:31:34.400
TARGET: JUPITER PARTITION: 1

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

11JNBRG02002

```
OAPEL:  11JNBRG02002              ALIAS:  11JNBRG02002
EXT:    A                         PSID:   EP
SCLK1:  04206511:00:0             SCLK2:  04206515:38:0
SCET1:    97-311/00:46:37.066     SCET2:    97-311/00:51:04.400
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

11JNTHRMNS01

```
OAPEL:  11JNTHRMNS01              ALIAS:  11JNTHRMNS01
EXT:    A                         PSID:   EQ
SCLK1:  04206531:00:0             SCLK2:  04206576:59:0
SCET1:    97-311/01:06:49.733     SCET2:    97-311/01:52:59.066
TARGET: JUPITER                   PARTITION: 1

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

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

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

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

EDIT TABLE

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

11HNDARK__03

OAPEL: 11HNDARK__03 ALIAS: 11HNDARK__03
EXT: A PSID: EX
SCLK1: 04206616:00:0 SCLK2: 04206617:00:0
SCET1: 97-311/02:32:46.400 SCET2: 97-311/02:33:47.066
TARGET: SKY PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 32 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: 0326032001 03 26 032 001
WTGRP_SIZ: 26

EDIT TABLE

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

11JNBRGFUL01

OAPEL: 11JNBRGFUL01 ALIAS: 11JNBRGFUL01
EXT: A PSID: ES
SCLK1: 04206632:00:0 SCLK2: 04206634:48:0
SCET1: 97-311/02:48:57.066 SCET2: 97-311/02:51:30.400
TARGET: JUPITER PARTITION: 1

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

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

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

WETGID: 0326253001 03 26 253 001
WTGRP_SIZ: 26

EDIT TABLE

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

11JNBRGFUL01

OAPEL: 11JNBRGFUL01 ALIAS: 11JNBRGFUL01
EXT: B PSID: ES
SCLK1: 04206639:54:0 SCLK2: 04206644:12:0
SCET1: 97-311/02:56:37.733 SCET2: 97-311/03:01:13.066
TARGET: JUPITER PARTITION: 1

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

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

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

WETGID: 0326253001 03 26 253 001
WTGRP_SIZ: 26

EDIT TABLE

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

11JNBRGFUL01

OAPEL: 11JNBRGFUL01 ALIAS: 11JNBRGFUL01
EXT: C PSID: ES
SCLK1: 04206649:26:0 SCLK2: 04206651:74:0
SCET1: 97-311/03:06:25.733 SCET2: 97-311/03:08:59.066
TARGET: JUPITER PARTITION: 1

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

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

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

WETGID: 0326253001 03 26 253 001
WTGRP_SIZ: 26

EDIT TABLE

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

11JNBRG02003

```
OAPEL:  11JNBRG02003              ALIAS:  11JNBRG02003
EXT:    A                         PSID:   ET
SCLK1:  04206679:00:0             SCLK2:  04206683:86:0
SCET1:    97-311/03:36:28.400     SCET2:    97-311/03:41:28.400
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

11JNBRG02004

```
OAPEL:  11JNBRG02004              ALIAS:  11JNBRG02004
EXT:    A                         PSID:   EU
SCLK1:  04206729:01:0             SCLK2:  04206733:86:0
SCET1:    97-311/04:27:02.400     SCET2:    97-311/04:32:01.733
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

11INCHEMIS01

```
OAPEL:  11INCHEMIS01              ALIAS:  11INCHEMIS01
EXT:    A                         PSID:   EV
SCLK1:  04206926:00:0             SCLK2:  04206928:48:0
SCET1:    97-311/07:46:13.066     SCET2:    97-311/07:48:46.400
TARGET: IO                        PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   360                   TLMFMT:     MPW

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

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

EDIT TABLE

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

11JNBRG07204

```
OAPEL:  11JNBRG07204              ALIAS:  11JNBRG07204
EXT:    A                         PSID:   FA
SCLK1:  04207287:00:0             SCLK2:  04207293:55:0
SCET1:    97-311/13:51:14.400     SCET2:    97-311/13:57:54.400
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

11JNBRG07205

```
OAPEL:  11JNBRG07205            ALIAS:  11JNBRG07205
EXT:    A                       PSID:   FB
SCLK1:  04207322:00:0           SCLK2:  04207328:55:0
SCET1:    97-311/14:26:37.066   SCET2:    97-311/14:33:17.733
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

11INCHEMIS02

OAPEL: 11INCHEMIS02 ALIAS: 11INCHEMIS02
EXT: A PSID: FC
SCLK1: 04207427:00:0 SCLK2: 04207429:75:0
SCET1: 97-311/16:12:47.066 SCET2: 97-311/16:15:38.400
TARGET: IO PARTITION: 1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	02580	0,0010,0101,1000,0000
1	1BDFF	1,1011,1101,1111,1111
2	02580	0,0010,0101,1000,0000
3	1BDFF	1,1011,1101,1111,1111
4	02580	0,0010,0101,1000,0000
5	1BDFF	1,1011,1101,1111,1111
6	02580	0,0010,0101,1000,0000
7	1BDFF	1,1011,1101,1111,1111
8	02580	0,0010,0101,1000,0000
9	1BDFF	1,1011,1101,1111,1111
10	02580	0,0010,0101,1000,0000
11	1BDFF	1,1011,1101,1111,1111
12	02580	0,0010,0101,1000,0000
13	1BDFF	1,1011,1101,1111,1111
14	02580	0,0010,0101,1000,0000
15	1BDFF	1,1011,1101,1111,1111
16	02580	0,0010,0101,1000,0000
17	1BDFF	1,1011,1101,1111,1111
18	02580	0,0010,0101,1000,0000
19	1BDFF	1,1011,1101,1111,1111
20	02580	0,0010,0101,1000,0000
21	1BDFF	1,1011,1101,1111,1111
22	02580	0,0010,0101,1000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11INVOLCAN01

OAPEL: 11INVOLCAN01 ALIAS: 11INVOLCAN01
EXT: A PSID: FD
SCLK1: 04207608:01:0 SCLK2: 04207610:74:0
SCET1: 97-311/19:15:48.400 SCET2: 97-311/19:18:39.066
TARGET: IO PARTITION: 1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

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

11NNHEALTH03

OAPEL: 11NNHEALTH03 ALIAS: 11NNHEALTH03
EXT: R PSID: KC
SCLK1: 04207614:00:0 SCLK2: 04207614:12:0
SCET1: 1997-311/19:21:51.733 SCET2: 1997-311/19:21:59.733
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

11INCHEMIS03

OAPEL: 11INCHEMIS03 ALIAS: 11INCHEMIS03
EXT: A PSID: FE
SCLK1: 04207639:00:0 SCLK2: 04207641:00:0
SCET1: 97-311/19:47:09.066 SCET2: 97-311/19:49:09.733
TARGET: IO PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 360 TLMFMT: MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

11INVOLCAN02

OAPEL: 11INVOLCAN02 ALIAS: 11INVOLCAN02
EXT: A PSID: FF
SCLK1: 04207667:00:0 SCLK2: 04207669:75:0
SCET1: 97-311/20:15:27.733 SCET2: 97-311/20:18:18.400
TARGET: IO PARTITION: 1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

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

11INVOLCAN03

OAPEL: 11INVOLCAN03 ALIAS: 11INVOLCAN03
EXT: A PSID: FG
SCLK1: 04207723:00:0 SCLK2: 04207725:75:0
SCET1: 97-311/21:12:05.066 SCET2: 97-311/21:14:55.733
TARGET: IO PARTITION: 1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

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

11INHRSPEC01

```
OAPEL:  11INHRSPEC01              ALIAS:  11INHRSPEC01
EXT:    A                         PSID:   FI
SCLK1:  04207875:00:0             SCLK2:  04207877:74:0
SCET1:    97-311/23:45:45.666     SCET2:    97-311/23:48:36.333
TARGET: IO                        PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   360                   TLMFMT:     MPW

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

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

EDIT TABLE

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

11INNSPEC_01

```
OAPEL:  11INNSPEC_01              ALIAS:  11INNSPEC_01
EXT:    A                         PSID:   FJ
SCLK1:  04207882:00:0             SCLK2:  04207884:72:0
SCET1:    97-311/23:52:50.333     SCET2:    97-311/23:55:39.666
TARGET: IO                        PARTITION: 1

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

MB_DOWN:    00000                 MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                   EST_COMPV:  0.3
RATE_CON1:  00000                 RATE_CON2:  65525
NWAVETOT:   360                   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:     0326360001          03  26  360  001
WTGRP_SIZ:  26
```

EDIT TABLE

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

11INCHEMIS04

OAPEL: 11INCHEMIS04 ALIAS: 11INCHEMIS04
EXT: A PSID: FL
SCLK1: 04208099:00:0 SCLK2: 04208101:71:0
SCET1: 97-312/03:32:15.000 SCET2: 97-312/03:35:04.333
TARGET: IO PARTITION: 1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	02580	0,0010,0101,1000,0000
1	1BDFF	1,1011,1101,1111,1111
2	02580	0,0010,0101,1000,0000
3	1BDFF	1,1011,1101,1111,1111
4	02580	0,0010,0101,1000,0000
5	1BDFF	1,1011,1101,1111,1111
6	02580	0,0010,0101,1000,0000
7	1BDFF	1,1011,1101,1111,1111
8	02580	0,0010,0101,1000,0000
9	1BDFF	1,1011,1101,1111,1111
10	02580	0,0010,0101,1000,0000
11	1BDFF	1,1011,1101,1111,1111
12	02580	0,0010,0101,1000,0000
13	1BDFF	1,1011,1101,1111,1111
14	02580	0,0010,0101,1000,0000
15	1BDFF	1,1011,1101,1111,1111
16	02580	0,0010,0101,1000,0000
17	1BDFF	1,1011,1101,1111,1111
18	02580	0,0010,0101,1000,0000
19	1BDFF	1,1011,1101,1111,1111
20	02580	0,0010,0101,1000,0000
21	1BDFF	1,1011,1101,1111,1111
22	02580	0,0010,0101,1000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11INTHRMAL04

OAPEL: 11INTHRMAL04 ALIAS: 11INTHRMAL04
EXT: A PSID: FM
SCLK1: 04208105:00:0 SCLK2: 04208107:73:0
SCET1: 97-312/03:38:19.000 SCET2: 97-312/03:41:09.666
TARGET: IO PARTITION: 1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

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

11JNAURVAR01

```
OAPEL:  11JNAURVAR01              ALIAS:  11JUAURVAR01
EXT:    A                         PSID:   AV
SCLK1:  04208190:00:0             SCLK2:  04208192:03:0
SCET1:    97-312/05:04:15.666     SCET2:    97-312/05:06:19.000
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:    37                   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:     0326037001          03  26  037  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00060	0,0000,0000,0110,0000
1	00060	0,0000,0000,0110,0000
2	00060	0,0000,0000,0110,0000
3	00060	0,0000,0000,0110,0000
4	00060	0,0000,0000,0110,0000
5	00060	0,0000,0000,0110,0000
6	00060	0,0000,0000,0110,0000
7	00060	0,0000,0000,0110,0000
8	00060	0,0000,0000,0110,0000
9	00060	0,0000,0000,0110,0000
10	00060	0,0000,0000,0110,0000
11	00040	0,0000,0000,0100,0000
12	00040	0,0000,0000,0100,0000
13	00040	0,0000,0000,0100,0000
14	00040	0,0000,0000,0100,0000
15	00040	0,0000,0000,0100,0000
16	00040	0,0000,0000,0100,0000
17	00040	0,0000,0000,0100,0000
18	00040	0,0000,0000,0100,0000
19	00040	0,0000,0000,0100,0000
20	000C0	0,0000,0000,1100,0000
21	00040	0,0000,0000,0100,0000
22	000C0	0,0000,0000,1100,0000
23	00040	0,0000,0000,0100,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11JNAURVAR02

```
OAPEL:  11JNAURVAR02              ALIAS:  11JUAURVAR02
EXT:    A                         PSID:   AX
SCLK1:  04208207:78:0             SCLK2:  04208222:09:0
SCET1:    97-312/05:22:19.666     SCET2:    97-312/05:36:43.666
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:   228                   TLMFMT:     LPU

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	00170	0,0000,0001,0111,0000
2	1BDFF	1,1011,1101,1111,1111
3	00170	0,0000,0001,0111,0000
4	1BDFF	1,1011,1101,1111,1111
5	00170	0,0000,0001,0111,0000
6	1BDFF	1,1011,1101,1111,1111
7	00170	0,0000,0001,0111,0000
8	1BDFF	1,1011,1101,1111,1111
9	00170	0,0000,0001,0111,0000
10	1BDFF	1,1011,1101,1111,1111
11	00170	0,0000,0001,0111,0000
12	1BDFF	1,1011,1101,1111,1111
13	00170	0,0000,0001,0111,0000
14	1BDFF	1,1011,1101,1111,1111
15	00170	0,0000,0001,0111,0000
16	1BDFF	1,1011,1101,1111,1111
17	00170	0,0000,0001,0111,0000
18	1BDFF	1,1011,1101,1111,1111
19	00170	0,0000,0001,0111,0000
20	1BDFF	1,1011,1101,1111,1111
21	00170	0,0000,0001,0111,0000
22	1BDFF	1,1011,1101,1111,1111
23	00170	0,0000,0001,0111,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

11HNDARK__04

OAPEL: 11HNDARK__04 ALIAS: 11HNDARK__04
EXT: A PSID: EY
SCLK1: 04208371:00:0 SCLK2: 04208372:00:0
SCET1: 97-312/08:07:16.333 SCET2: 97-312/08:08:17.000
TARGET: SKY PARTITION: 1

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

MB_DOWN: 00000 MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0 EST_COMPV: 0.3
RATE_CON1: 00000 RATE_CON2: 65525
NWAVETOT: 32 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: 0326032001 03 26 032 001
WTGRP_SIZ: 26

EDIT TABLE

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

11JNBRG11402

OAPEL: 11JNBRG11402 ALIAS: 11JNBRG11402
EXT: A PSID: FQ
SCLK1: 04208440:00:0 SCLK2: 04208442:43:0
SCET1: 97-312/09:17:02.333 SCET2: 97-312/09:19:32.333
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

11JNBRG11403

OAPEL: 11JNBRG11403 ALIAS: 11JNBRG11403
EXT: A PSID: FR
SCLK1: 04208469:00:0 SCLK2: 04208472:12:0
SCET1: 97-312/09:46:21.666 SCET2: 97-312/09:49:31.666
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

11JNBRG11404

```
OAPEL:  11JNBRG11404              ALIAS:  11JNBRG11404
EXT:    A                         PSID:   FS
SCLK1:  04208489:00:0             SCLK2:  04208493:55:0
SCET1:    97-312/10:06:35.000     SCET2:    97-312/10:11:15.000
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

11JNBRG12502

```
OAPEL:  11JNBRG12502            ALIAS:  11JNBRG12502
EXT:    A                       PSID:   FV
SCLK1:  04209038:00:0           SCLK2:  04209040:17:0
SCET1:    97-312/19:21:41.000   SCET2:    97-312/19:23:54.333
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

11JNBRG12503

```
OAPEL:  11JNBRG12503              ALIAS:  11JNBRG12503
EXT:    A                         PSID:   FW
SCLK1:  04209063:00:0             SCLK2:  04209066:27:0
SCET1:    97-312/19:46:57.666     SCET2:    97-312/19:50:17.666
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

11JNBRG12504

```
OAPEL:  11JNBRG12504              ALIAS:  11JNBRG12504
EXT:    A                         PSID:   FX
SCLK1:  04209083:00:0             SCLK2:  04209086:27:0
SCET1:    97-312/20:07:11.000     SCET2:    97-312/20:10:31.000
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

11JNBRG13502

```
OAPEL:  11JNBRG13502            ALIAS:  11JNBRG13502
EXT:    A                       PSID:   KA
SCLK1:  04209636:00:0           SCLK2:  04209637:61:0
SCET1:    97-313/05:26:19.666   SCET2:    97-313/05:28:01.666
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

11JNBRG13503

```
OAPEL:  11JNBRG13503              ALIAS:  11JNBRG13503
EXT:    A                         PSID:   KB
SCLK1:  04209661:00:0             SCLK2:  04209663:45:0
SCET1:    97-313/05:51:36.266     SCET2:    97-313/05:54:08.266
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

11JNBRG13504

```
OAPEL:  11JNBRG13504              ALIAS:  11JNBRG13504
EXT:    A                         PSID:   KC
SCLK1:  04209681:00:0             SCLK2:  04209683:42:0
SCET1:    97-313/06:11:49.600     SCET2:    97-313/06:14:19.600
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

11NNRCTRLT01

OAPEL: 11NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: R PSID: XU
SCLK1: 04212196:00:0 SCLK2: 04212196:12:0
SCET1: 1997-315/00:34:46.200 SCET2: 1997-315/00:34:54.200
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

11NNRCTRLT01

OAPEL: 11NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: S PSID: XU
SCLK1: 04212202:00:0 SCLK2: 04212203:12:0
SCET1: 1997-315/00:40:50.200 SCET2: 1997-315/00:41:58.866
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

11NNRCTRLT01

OAPEL: 11NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: T PSID: XU
SCLK1: 04212208:00:0 SCLK2: 04212208:12:0
SCET1: 1997-315/00:46:54.200 SCET2: 1997-315/00:47:02.200
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

11NNOPCAL_01

```
OAPEL:  11NNOPCAL_01            ALIAS:  LSNNOPCAL_01
EXT:    R                       PSID:   DC
SCLK1:  04212212:00:0           SCLK2:  04212214:12:0
SCET1:  1997-315/00:50:56.866   SCET2:  1997-315/00:53:06.200
TARGET: CAL                     PARTITION: 1

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

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

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

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

EDIT TABLE

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

NIMS E11 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS E11 data. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry. Included items come from NIMS commands in (1) the Standard Sequence Data File (SSDF) and (2) the Playback Table Update Process (PTUP), plus some items from (3) the NIMS/CDS software load.

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

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

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

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

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

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

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# WETGID       10 319 - 328     .Wavelength selection group ID (unique)         PBK: WET_GID    (realtime <tbd>)
                                  Rule of formation: mmeellllnnn where
                                   mm  = instrument mode (0-15)
                                   ee  = # entries in group
                                   lll = number of wavelengths selected
                                   nnn = sequence number
* WETGRPSIZ     2 329 - 330     .# Wavelength Edit entries (1-26)               PBK: ED_GRP_LEN (realtime SEF: 37ETB <tbd>)
* WETGRP      182 331 - 512     .Wavelength Edit Table group:  WETGRPSIZ        PBK: ED_GRP     (realtime SEF: 37ETB data bytes 2..)
                                  entries, each one has 7 characters.  The
                                  first 2 characters are the repeat count
                                  (01-26).  The other 5 characters contain
                                  5 hex digits, representing the detector
                                  mask in the form BHHHH where B is 0 or 1
                                  and H has range 0-15.  (These entries are
                                  from the 37ETB instrument edit group for
                                  realtime data and from the logical AND of
                                  corresponding entries in the instrument
                                  and playback edit groups for playback data.)
--------------------------------
.The TARGET names used are:
   CAL      - N - non-science targets, usually calibration targets
   EARTH    - W - Earth
   MOON     - L - Moon
   SKY      - H - Stellar Space (space and stars)
   VENUS    - V - Venus
   GASPRA   - P - Gaspra
   IDA      - U - Ida
   JUPITER  - J - Jupiter
   IO       - I - Io
   EUROPA   - E - Europa
   GANYMEDE - G - Ganymede
   CALLISTO - C - Callisto
   J_RING   - R - Jupiter rings
   (the single letter abbreviation appears as the third character in the OAPEL name ).
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11HNDARK__0111HNDARK__01ADA04204053:00:004204054:00:01         SKY      3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  32LPU  97-309/07:21:17.866  97-309/07:22:18.533
           000000000000000000000000000000000000000000000000000032603200126011FDFF011FDFF01000000010000000100000001000000010000001000
0001000000010000000100000001000000010000000100000001000000010000000100000001000000010000000100000001000000010000000100000100000
11JNBRG53M0111JNBRG53M01ADC04204580:00:004204583:00:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  83LPU  97-309/16:14:09.133  97-309/16:17:11.133
           000000000000000000000000000000000000000000000000000032608300126010100301010030101003010110301001030101107010010701001
0701001070100107010010701001070100107010010701000070100007010000701000070100007010000701000070100007010000701000070100000100000
11JNBRG53M0211JNBRG53M02ADD04204646:00:004204665:71:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  83LPU  97-309/17:20:53.133  97-309/17:40:53.133
           000000000000000000000000000000000000000000000000000032608300126010100301010030101003010110301001030101107010010701001
0701001070100107010010701001070100107010010701000070100007010000701000070100007010000701000070100007010000701000070100000100000
11JNBRG0940111JNBRG09401ADE04204680:00:004204682:43:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  25LPU  97-309/17:55:15.800  97-309/17:57:45.800
           0000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201 0B8100100C010100000

11JNBRG0940211JNBRG09402ADF04204712:00:004204716:86:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   4LPU  97-309/18:27:37.133  97-309/18:32:37.133
           0000000000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000010000000100000

11JNBRG0940311JNBRG09403ADG04204736:00:004204740:86:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  25LPU  97-309/18:51:53.133  97-309/18:56:53.133
           0000000000000000000000000000000000000000000000000000507025001 701004000111D8101199000101902010B8100100C010100000

11JNBRG0940411JNBRG09404ADH04204769:00:004204772:27:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                  25LPU  97-309/19:25:15.133  97-309/19:28:35.133
           0000000000000000000000000000000000000000000000000000507025001 701004000111D8101199000101902010B8100100C010100000

11JNCYLMOS0111JNCYLMOS01ADL04204821:00:004204830:81:01         JUPITER  7214 1 1 0 5 012 1 1 0 5 01200010 0000000000 1 2.00.3000
0065525                   5LPU  97-309/20:17:49.800  97-309/20:27:49.800
           00000000000000000000000000000000000000000000000000007130050011301015810101581010158101015810101581010158101015810101581 01015
81010158101015810101581010158101 00000
11JNCYLMOS0211JNCYLMOS02ADN04204914:00:004204923:81:01         JUPITER  7214 1 1 0 5 012 1 1 0 5 01200010 0000000000 1 2.00.3000
0065525                   5LPU  97-309/21:51:51.800  97-309/22:01:51.800
           0000000000000000000000000000000000000000000000000000713005001130101581010158101015810101581010158101015810101581 01015
810101581010158101015810101581 0100000
11JNCYLMOS0311JNCYLMOS03ADO04204988:00:004204997:81:01         JUPITER  7214 1 1 0 5 012 1 1 0 5 01200010 0000000000 1 2.00.3000
0065525                   5LPU  97-309/23:06:41.133  97-309/23:16:41.133
           0000000000000000000000000000000000000000000000000000713005001130101581010158101015810101581010158101015810101581 01015
810101581010158101015810101581 0100000
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11ENM20HR_0111ENM20HR_01AME04205060:00:004205066:55:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  97-310/00:19:29.133  97-310/00:26:10.466
          00000000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
11ENM20HR_0111ENM20HR_01BME04205068:13:004205076:03:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  228LPU  97-310/00:27:43.133  97-310/00:35:42.466
          00000000000000000000000000000000000000000000000000003262280012601 03C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
11JNCYLMOS0511JNCYLMOS05ADU04205137:00:004205146:81:01         JUPITER  7214 1 1 0 5 012 1 1 0 5 01200010 0000000000 1 2.00.3000
0065525                    5LPU  97-310/01:37:20.466  97-310/01:47:20.466
          00000000000000000000000000000000000000000000000000007130050011301015810101581010158101015810101581010158101015810101
810101581010158101015810101581010015810100000
11ENM17HR_0111ENM17HR_01ADX04205219:00:004205227:64:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  97-310/03:00:15.133  97-310/03:09:03.800
          00000000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
11ENM17HR_0111ENM17HR_01BDX04205229:00:004205237:78:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  228LPU  97-310/03:10:21.800  97-310/03:19:19.800
          00000000000000000000000000000000000000000000000000003262280012601 03C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
11ENM15HR_0111ENM15HR_01ADY04205362:00:004205371:66:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  97-310/05:24:50.466  97-310/05:34:41.133
          00000000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
11ENM15HR_0111ENM15HR_01BDY04205373:00:004205382:66:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  228LPU  97-310/05:35:57.800  97-310/05:45:48.466
          00000000000000000000000000000000000000000000000000003262280012601 03C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
11JNRTBRG_0111JNRTBRG_01RKH04205860:00:004205864:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1997-310/13:48:22.4661997-310/13:52:33.133
          00000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

11JNBRG0420211JNBRG04202AEB04205878:00:004205884:54:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                    4LPU  97-310/14:06:34.466  97-310/14:13:14.466
          00000000000000000000000000000000000000000000000000000507004001 701000000101900011000001000000100000010000001000000100000

11JNRTBRG_0211JNRTBRG_02RKY04205887:00:004205891:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1997-310/14:15:50.4661997-310/14:19:51.133
          00000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

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11JNBRG0420311JNBRG04203AEC04205903:00:004205909:54:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-310/14:31:51.133  97-310/14:38:31.133
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG0420411JNBRG04204AED04205957:00:004205963:54:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-310/15:26:27.133  97-310/15:33:07.133
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG0420511JNBRG04205AEE04206038:00:004206044:55:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-310/16:48:21.733  97-310/16:55:01.733
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11NNHEALTH0111NNHEALTH01RKA04206121:00:004206121:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                   003RT 1997-310/18:12:16.4001997-310/18:12:24.400
          000000000000000000000000000000000000000000000000000302003000 201080442500000

11ENDRKLIT0111ENDRKLIT01AEJ04206158:00:004206164:01:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   228LPU  97-310/18:49:41.066  97-310/18:55:45.733
          000000000000000000000000000000000000000000000000000032622800126010 3C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
11ENEURORT0111ENEURORT01REI04206188:00:004206188:12:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                   408RT 1997-310/19:20:01.0661997-310/19:20:09.066
          000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

11ENCYCLOD0111ENCYCLOD01AEK04206195:00:004206206:65:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   228LPU  97-310/19:27:05.733  97-310/19:38:57.066
          000000000000000000000000000000000000000000000000000032622800126010 3C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
11ENLEADRT0111ENLEADRT01RKQ04206270:00:004206277:12:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                   408RT 1997-310/20:42:55.7331997-310/20:50:08.400
          000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

11HNDARK__0211HNDARK__02AEG04206434:00:004206435:00:01         SKY      3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                    32LPU  97-310/23:28:45.733  97-310/23:29:45.733
          000000000000000000000000000000000000000000000000000032603200126011FDFF011FDFF0100000010000001000000100000010000001000
0001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
11JNBRG0200111JNBRG02001AEO04206482:00:004206484:44:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-311/00:17:17.733  97-311/00:19:47.733
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

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11JNRTBRG_0311JNRTBRG_03RKX04206492:00:004206496:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1997-311/00:27:23.7331997-311/00:31:34.400
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

11JNBRG0200211JNBRG02002AEP04206511:00:004206515:38:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-311/00:46:37.066  97-311/00:51:04.400
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNTHRMNS0111JNTHRMNS01AEQ04206531:00:004206576:59:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   80LPU  97-311/01:06:49.733  97-311/01:52:59.066
          00000000000000000000000000000000000000000000000000326080001260100007010000701000070100007010000701011070100007010000
07010000701100070100007010000701000070100080701000070100007010000701000070100007010000F010000F010000F010000F01000000100000
11HNDARK__0311HNDARK__03AEX04206616:00:004206617:00:01         SKY      3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   32LPU  97-311/02:32:46.400  97-311/02:33:47.066
          00000000000000000000000000000000000000000000000000326032001260011FDFF011FDFF0100000010000001000000100000010000001000
00010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
11JNBRGFUL0111JNBRGFUL01AES04206632:00:004206634:48:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   253LPU  97-311/02:48:57.066  97-311/02:51:30.400
          00000000000000000000000000000000000000000000000000326253001260011BD87011BD87011BD87011BD87011BD87011BD87011BD87011BD
87011BD87011BD87011BD87011BD87011BD87011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD0701000000100000
11JNBRGFUL0111JNBRGFUL01BES04206639:54:004206644:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   253LPU  97-311/02:56:37.733  97-311/03:01:13.066
          00000000000000000000000000000000000000000000000000326253001260011BD87011BD87011BD87011BD87011BD87011BD87011BD87011BD
87011BD87011BD87011BD87011BD87011BD87011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD0701000000100000
11JNBRGFUL0111JNBRGFUL01CES04206649:26:004206651:74:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   253LPU  97-311/03:06:25.733  97-311/03:08:59.066
          00000000000000000000000000000000000000000000000000326253001260011BD87011BD87011BD87011BD87011BD87011BD87011BD87011BD
87011BD87011BD87011BD87011BD87011BD87011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD07011BD0701000000100000
11JNBRG0200311JNBRG02003AET04206679:00:004206683:86:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-311/03:36:28.400  97-311/03:41:28.400
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG0200411JNBRG02004AEU04206729:01:004206733:86:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-311/04:27:02.400  97-311/04:32:01.733
          00000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11INCHEMIS0111INCHEMIS01AEV04206926:00:004206928:48:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   360MPW  97-311/07:46:13.066  97-311/07:48:46.400
          03003003000003002902802802902803203403103103203002903263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
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11JNBRG0720411JNBRG07204AFA04207287:00:004207293:55:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-311/13:51:14.400  97-311/13:57:54.400
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG0720511JNBRG07205AFB04207322:00:004207328:55:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-311/14:26:37.066  97-311/14:33:17.733
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11INCHEMIS0211INCHEMIS02AFC04207427:00:004207429:75:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   228LPU  97-311/16:12:47.066  97-311/16:15:38.400
          030030030000030029028028029028032034031031032030029032622800126010258001 1BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BD
FF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF01000000100000
11INVOLCAN0111INVOLCAN01AFD04207608:01:004207610:74:01         IO       3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   228LPU  97-311/19:15:48.400  97-311/19:18:39.066
          030030030000030029028028029028032034031031032030029032622800126011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BD
FF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF01000000100000
11NNHEALTH0311NNHEALTH03RKC04207614:00:004207614:12:01         CAL      3214 1 1 0 0 124 1 1 0 0 12400100 0000000000 0 0.00.0000
0000000                   003RT 1997-311/19:21:51.7331997-311/19:21:59.733
          000000000000000000000000000000000000000000000000000302003000 201080442500000

11INCHEMIS0311INCHEMIS03AFE04207639:00:004207641:00:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   360MPW  97-311/19:47:09.066  97-311/19:49:09.733
          030030030000030029028028029028032034031031032030029032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
11INVOLCAN0211INVOLCAN02AFF04207667:00:004207669:75:01         IO       3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   228LPU  97-311/20:15:27.733  97-311/20:18:18.400
          030030030000030029028028029028032034031031032030029032622800126011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BD
FF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF01000000100000
11INVOLCAN0311INVOLCAN03AFG04207723:00:004207725:75:01         IO       3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   228LPU  97-311/21:12:05.066  97-311/21:14:55.733
          030030030000030029028028029028032034031031032030029032622800126011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BD
FF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF01000000100000
11INHRSPEC0111INHRSPEC01AFI04207875:00:004207877:74:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   360MPW  97-311/23:45:45.666  97-311/23:48:36.333
          030030030000030029028028029028032034031031032030029032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
11INNSPEC_0111INNSPEC_01AFJ04207882:00:004207884:72:01         IO       3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   360MPW  97-311/23:52:50.333  97-311/23:55:39.666
          030030030000030029028028029028032034031031032030029032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
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11INCHEMIS0411INCHEMIS04AFL04208099:00:004208101:71:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  228LPU  97-312/03:32:15.000  97-312/03:35:04.333
          0300300300000300290280280290280320340310310320300290326228001260102580011BDFF0102580011BDFF0102580011BDFF0102580011BD
FF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF0102580011BDFF01000000100000
11INTHRMAL0411INTHRMAL04AFM04208105:00:004208107:73:01         IO       3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  228LPU  97-312/03:38:19.000  97-312/03:41:09.666
          0300300300000300290280280290280320340310310320300290326228001260011A100011BDFF011A100011BDFF011A100011BDFF011A100011BD
FF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF011A100011BDFF01000000100000
11JNAURVAR0111JUAURVAR01AAV04208190:00:004208192:03:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   37LPU  97-312/05:04:15.666  97-312/05:06:19.000
          0000000000000000000000000000000000000000000000000032603700126010006001000600100060010006001000600100060010006001000
6001000600100060010006001000400100040010004001000400100040010004001000400100040010004001000C0010004001000C0010004001000000100000
11JNAURVAR0211JUAURVAR02AAX04208207:78:004208222:09:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  228LPU  97-312/05:22:19.666  97-312/05:36:43.666
          0000000000000000000000000000000000000000000000000032622800126011BDFF0100170011BDFF0100170011BDFF0100170011BDFF01001
70011BDFF0100170011BDFF0100170011BDFF0100170011BDFF0100170011BDFF0100170011BDFF0100170011BDFF0100170011BDFF01001700100000100000
11HNDARK__0411HNDARK__04AEY04208371:00:004208372:00:01         SKY      3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   32LPU  97-312/08:07:16.333  97-312/08:08:17.000
          0000000000000000000000000000000000000000000000000032603200126011FDFF011FDFF0100000010000001000000100000010000001000
0001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000
11JNBRG1140211JNBRG11402AFQ04208440:00:004208442:43:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-312/09:17:02.333  97-312/09:19:32.333
          0000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG1140311JNBRG11403AFR04208469:00:004208472:12:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-312/09:46:21.666  97-312/09:49:31.666
          0000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG1140411JNBRG11404AFS04208489:00:004208493:55:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-312/10:06:35.000  97-312/10:11:15.000
          0000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG1250211JNBRG12502AFV04209038:00:004209040:17:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-312/19:21:41.000  97-312/19:23:54.333
          0000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG1250311JNBRG12503AFW04209063:00:004209066:27:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-312/19:46:57.666  97-312/19:50:17.666
          0000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

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11JNBRG1250411JNBRG12504AFX04209083:00:004209086:27:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-312/20:07:11.000  97-312/20:10:31.000
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG1350211JNBRG13502AKA04209636:00:004209637:61:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-313/05:26:19.666  97-313/05:28:01.666
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG1350311JNBRG13503AKB04209661:00:004209663:45:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-313/05:51:36.266  97-313/05:54:08.266
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11JNBRG1350411JNBRG13504AKC04209681:00:004209683:42:01         JUPITER  5214 1 1 0 1 4 6 1 1 0 1 4 600010 0000000000 1 2.00.3000
0065525                   25LPU  97-313/06:11:49.600  97-313/06:14:19.600
          000000000000000000000000000000000000000000000000000507025001 701004000111D810119900010190201OB8100100C010100000

11NNRCTRLT01LSNNRCTRTA01RXU04212196:00:004212196:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                   252RT 1997-315/00:34:46.2001997-315/00:34:54.200
          000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

11NNRCTRLT01LSNNRCTRTA01SXU04212202:00:004212203:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                   252RT 1997-315/00:40:50.2001997-315/00:41:58.866
          000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

11NNRCTRLT01LSNNRCTRTA01TXU04212208:00:004212208:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                   252RT 1997-315/00:46:54.2001997-315/00:47:02.200
          000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

11NNOPCAL_01LSNNOPCAL_01RDC04212212:00:004212214:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12401100 1101111011 0 0.00.0000
0000000                   048RT 1997-315/00:50:56.8661997-315/00:53:06.200
          000000000000000000000000000000000000000000000000000302048000 224180000200000

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Chapter 5 - Detailed Observation Designs

Contents

Introduction to Chapter 5

Detailed Observation Designs

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

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

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

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

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

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

NIMS Chopper On

ACTIVITY ID: 11NNCHOPON01-
START TIME: 97-309/07:06:11.734

Activity ID: Orbit 11 Target N Inst N OAPEL CHOPON SeqNo 01 -

Title	NIMS Chopper On			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	11/05/97	Week 45
Start	EEE-CDS 00002221:00:0	97-309/07:06:11.734		EEE-001/13:25:40.666	
End	EEE-CDS 00002213:00:0	97-309/07:14:17.067		EEE-001/13:17:35.333	
Duration	00000008:00:0	000/00:08:05.333		000/00:08:05.333	

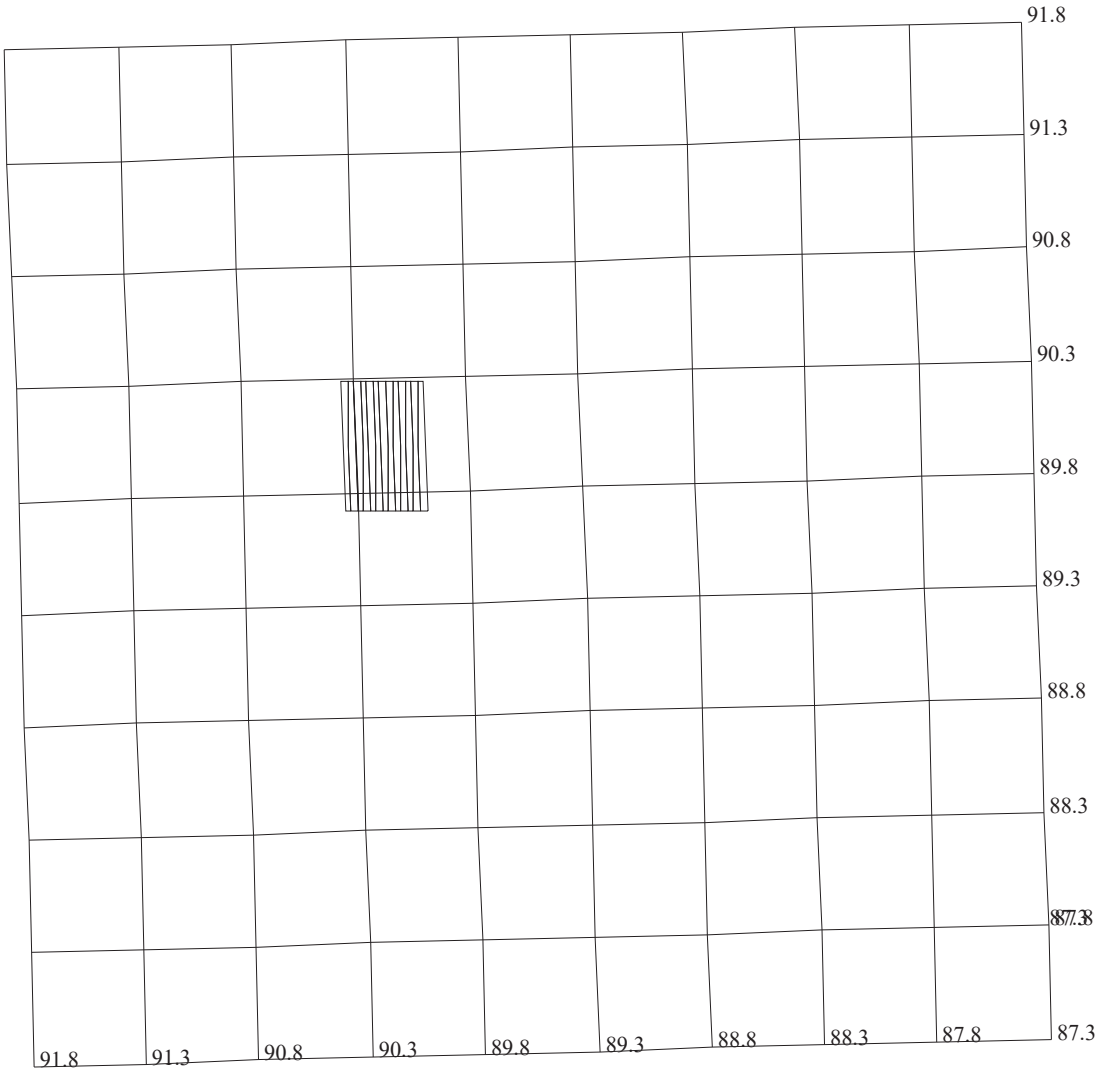
Top Label	11NNCHOPON01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

NIMS chopper turned on.

Design Detail

Galileo Activity Plan Form 09/25/97 15:49:56 rev 6/95



165EF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6633 TC= 2(90 90)
A= 728 pD= 0 SR=17.450 RA50=218.97 DEC50=-22.70 cone= 90.00 clock= 90.00
117EF:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6633
1:#s= 1 Cs= 6.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

11HNDARK__01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11HNDARK__01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 2453:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:11HNDARK__01 **DESCRIP:NIMS_Dark_Observation**

NIMS Dark Observation

ACTIVITY ID: 11HNDARK__01-
START TIME: 97-309/07:15:17.733

Activity ID: Orbit 11 Target H Inst N OAPEL DARK__ SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	11/05/97 Week 45
Start	JEE-CDS 00002459:00:0	97-309/07:15:17.733		JEE-001/17:26:19.333	
End	JEE-CDS 00002452:00:0	97-309/07:22:22.400		JEE-001/17:19:14.666	
Duration	00000007:00:0	000/00:07:04.667		000/00:07:04.667	

Top Label	11HNDARK__01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation.

Obtain 1 Rim of dark sky data.

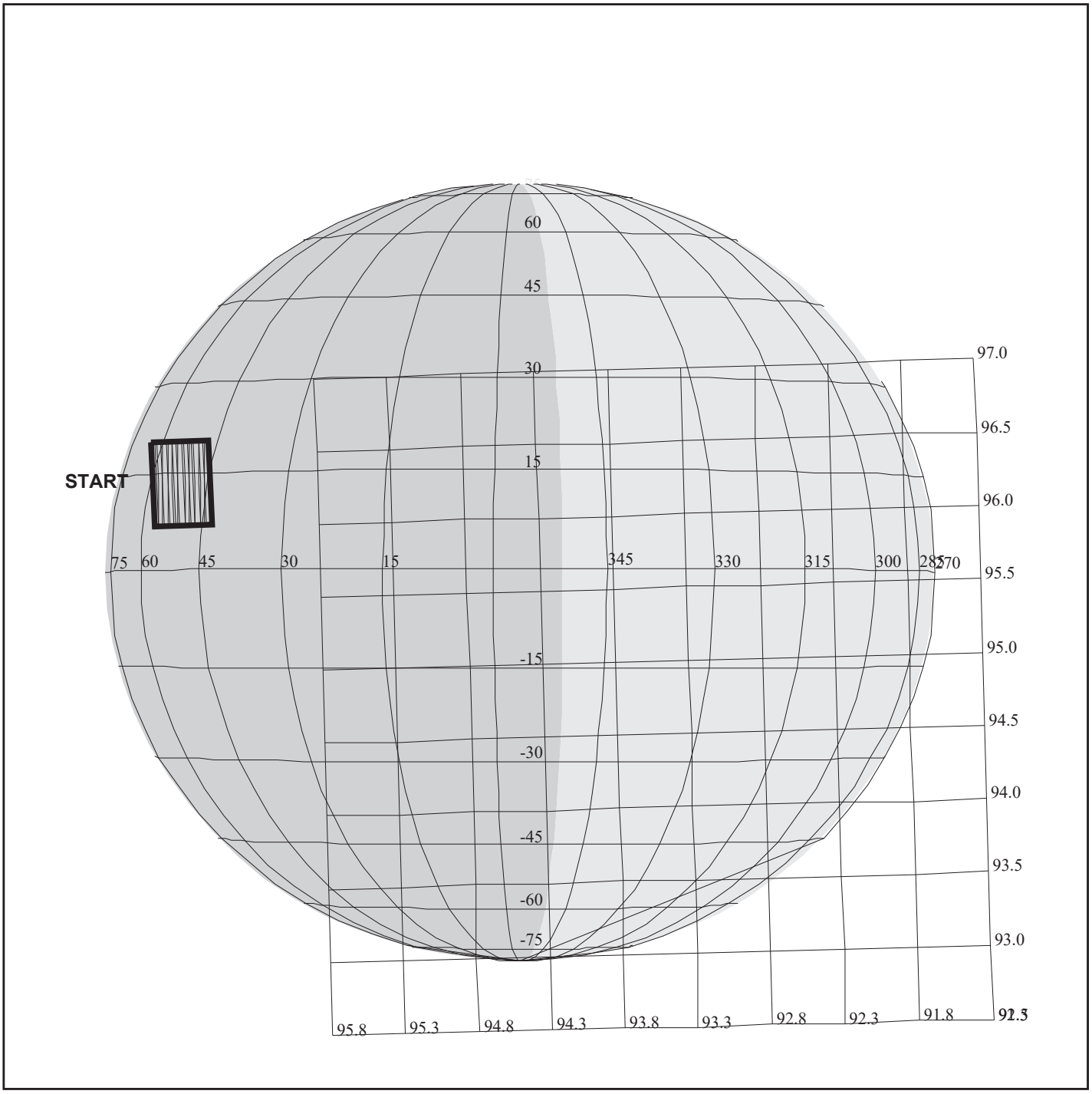
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 Rim.

Long Map (LM), Gain 3, Grating Start 0, LPU, E11DRK252, E11DRK32

Galileo Activity Plan Form 09/25/97 15:49:56 rev 6/95



165DC:TT= 0 TMC= 1 C= 2.90 XC= 0.00 BS= 0/2547 TC= 1(13.5 52)
A= 586 pD= 4368 SR=17.450 RA50=228.19 DEC50=-19.07 cone= 96.95 clock= 96.27
117DC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2547
1:#s= 1 Cs= -5.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 546 rD= 2

11JNBRG53M01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG53M01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 1926:00:0 **BODY PLOT TIME:TARGET-TIME D= 4368 S= 0.800**

OBSERVATION:11JNBRG53M01 **DESCRIP:Brown_Barge_Observation**

NIMS 5 and 3 Micron Brown Barge Obs ACTIVITY ID: 11JNBRG53M01-
START TIME: 97-309/16:10:10.400

Activity ID: Orbit 11 Target J Inst N OAPEL BRG53M SeqNo 01 -

Title	NIMS 5 and 3 Micron Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97 Week 45
Start	JEE-CDS 00001930:00:0	97-309/16:10:10.400		JEE-001/08:31:26.666	
End	JEE-CDS 00001923:00:0	97-309/16:17:15.066		JEE-001/08:24:22.000	
Duration	00000007:00:0	000/00:07:04.666		000/00:07:04.666	

Top Label	11JNBRG53M01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of two oapels constituting a five and three micron observation of the Brown Barge feature.

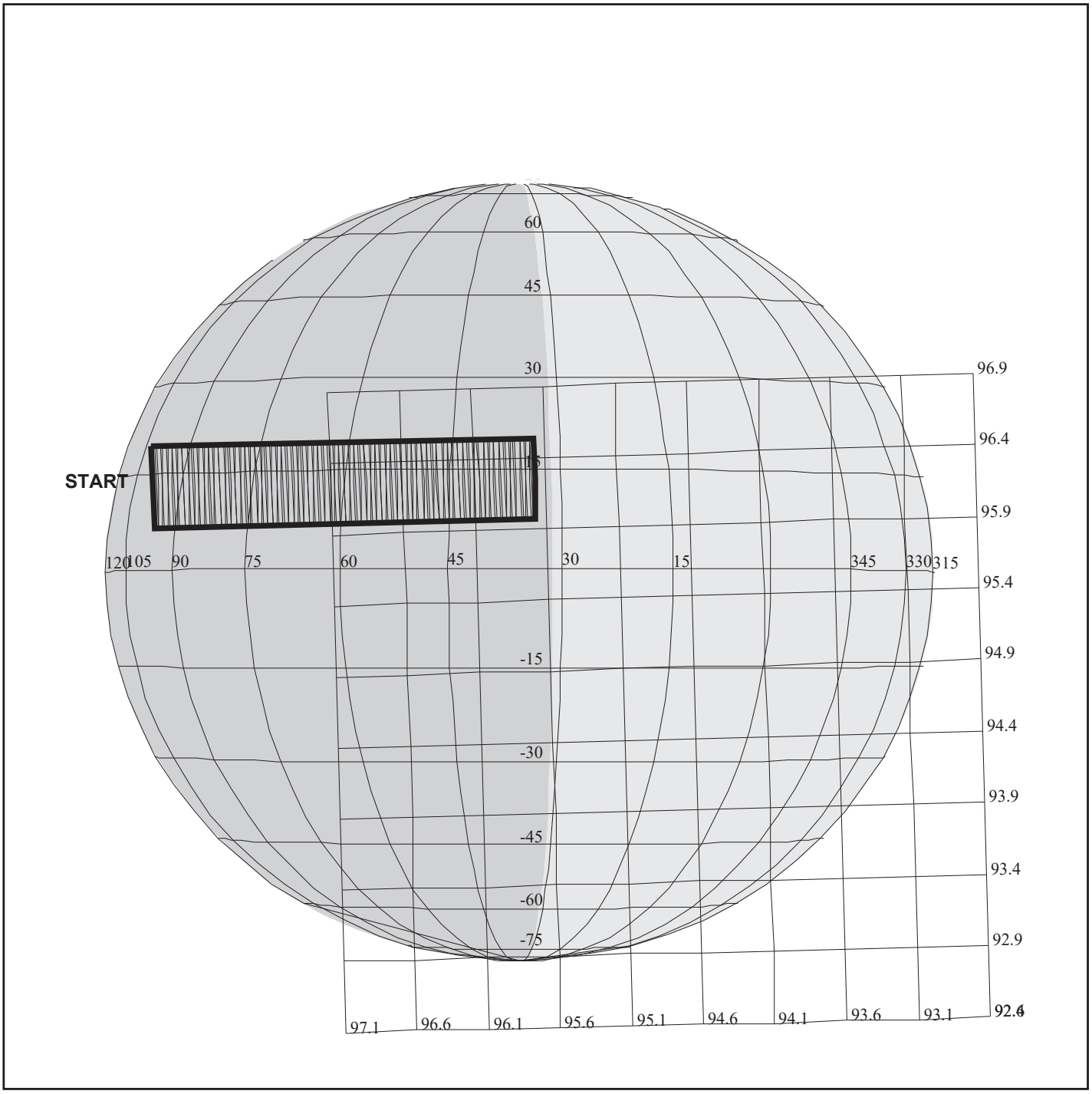
Data Returned

Design Detail

Long map, Nyquist sampling. Location is 52 degrees West longitude, 14 degrees North latitude. Brown Barge location has a large uncertainty: 40-65 degrees West longitude.
Range is 19.8 Rj,
incidence angle is 150.2 degrees,
emission angle is 61.6 degrees.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11J35157, E11J35083

Galileo Activity Plan Form 09/25/97 15:49:56 rev 6/95



165DD:TT= 0 TMC= 1 C= 30.00 XC= 0.00 BS= 0/4559 TC= 1(13.5 52)
A= 728 pD= 4368 SR=17.450 RA50=229.65 DEC50=-19.46 cone= 98.38 clock= 96.30
117DD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4559
1:#s= 1 Cs= -38.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3822 rD= 2

11JNBRG53M02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG53M02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1860:00:0

BODY PLOT TIME:TARGET-TIME D= 4368 S= 0.800

OBSERVATION:11JNBRG53M02

DESCRIP:Brown_Barge_Observation

NIMS 5 and 3 Micron Brown Barge Obs ACTIVITY ID: 11JNBRG53M02-
START TIME: 97-309/17:15:53.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG53M SeqNo 02 -

Title	NIMS 5 and 3 Micron Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97 Week 45
Start	JEE-CDS 00001865:00:0	97-309/17:15:53.733		JEE-001/07:25:43.333	
End	JEE-CDS 00001839:00:0	97-309/17:42:11.066		JEE-001/06:59:26.000	
Duration	00000026:00:0	000/00:26:17.333		000/00:26:17.333	

Top Label	11JNBRG53M02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of two oapels constituting five and three micron mapping of the Brown Barge feature. There will be 157 wavelengths acquired in the 2.7 micron and 5 micron thermal emission bands.

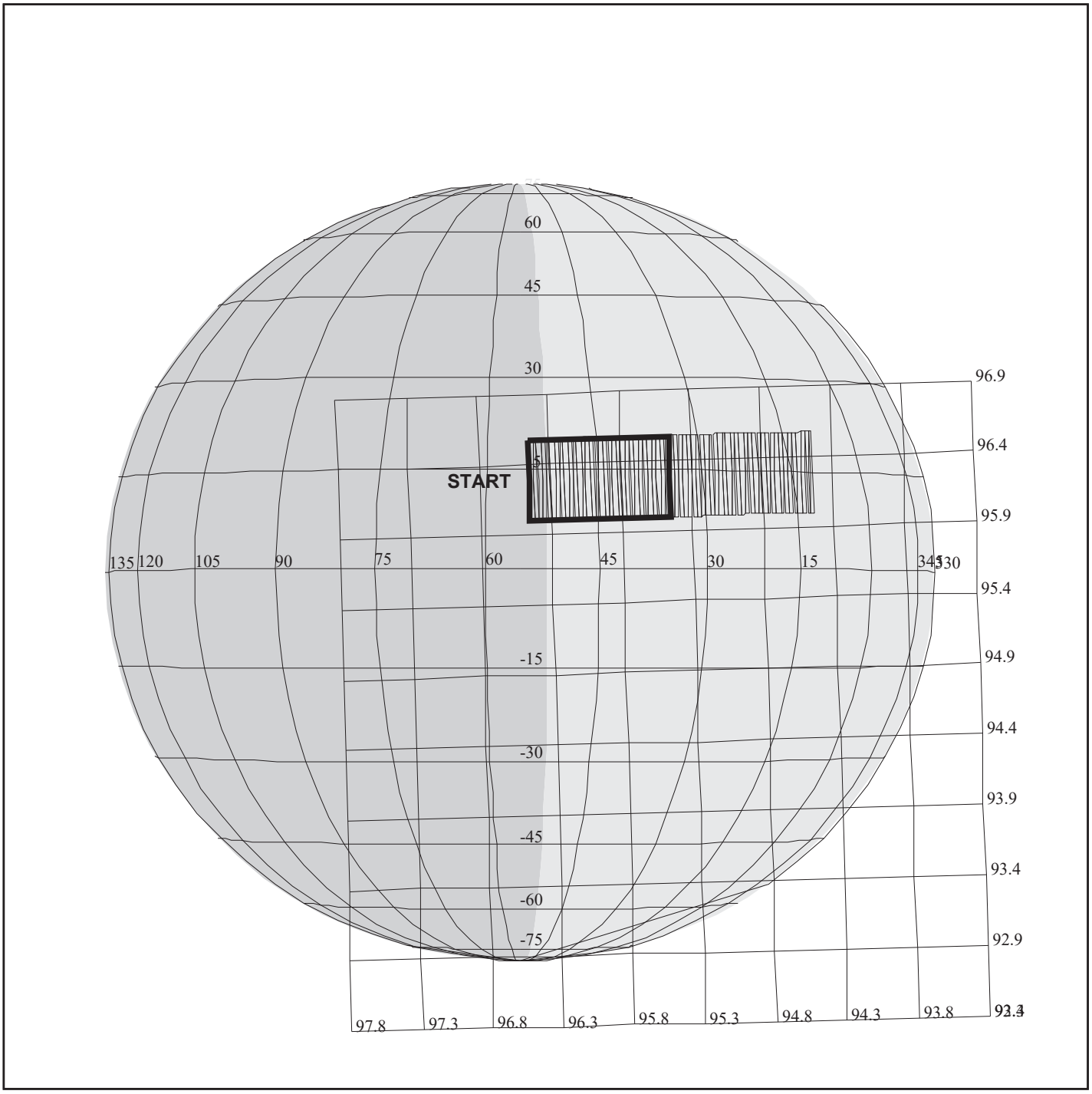
Data Returned

Design Detail

Long map, Nyquist sampling. Location: 52 degrees West longitude, 14 degrees North latitude. Brown Barge feature has a large uncertainty of 40-65 degrees West longitude. Coverage includes 4 X 1 area imaged along 17 degrees West longitude, spanning about 60 degrees of longitude from 35-95 degrees on the night side. NIMS INFOV about 680 km.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11J35157, E11J35083

Galileo Activity Plan Form 09/25/97 15:49:56 rev 6/95



165DE:TT= 0 TMC= 1 C= 2.00 XC= 0.00 BS= 0/0747 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=227.73 DEC50=-18.88 cone= 96.48 clock= 96.31
117DE:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0747
1:#s= 1 Cs= -32.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 902 rD= 2

11JNBRG09401

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG09401

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 1826:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:11JNBRG09401 **DESCRIP:Brown_Barge_Ob_94_Deg_Phase**

Brown Barge Observation 94 deg phase ACTIVITY ID: 11JNBRG09401-
START TIME: 97-309/17:52:17.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG094 SeqNo 01 -

Title	Brown Barge Observation 94 deg phase		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97 Week 45
Start	JEE-CDS 00001829:00:0	97-309/17:52:17.733		JEE-001/06:49:19.333	
End	JEE-CDS 00001821:00:0	97-309/18:00:23.066		JEE-001/06:41:14.000	
Duration	00000008:00:0	000/00:08:05.333		000/00:08:05.333	

Top Label	11JNBRG09401-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of four OAPels constituting observations of the Brown Barge, near-terminator observations, feature at 94 degrees phase. Twenty-five wavelengths acquired.

Data Returned

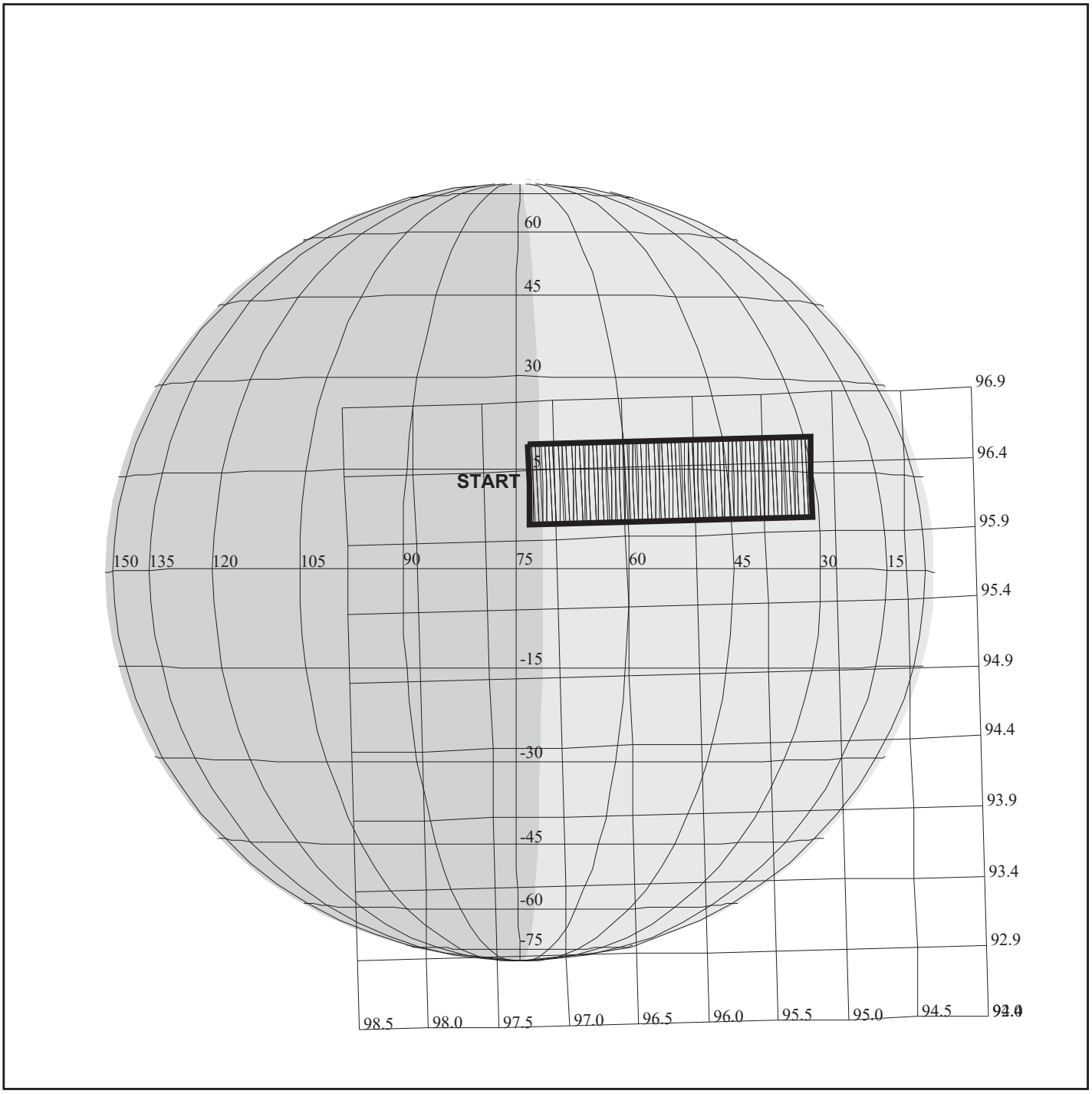
Design Detail

Short map, Nyquist sampling, 25 colors acquired, 3 X 1 map extending from terminator at approximately 50 degrees longitude to 13 degrees longitude, 14 degrees North latitude.
Range is 18.5 Rj, incidence angle is 81.3 degrees, emission angle is 19.6 degrees. NIMS IFOV about 670 km. Four RIMS reserved for targetting.

Only first half of swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:49:56 rev 6/95



165DF:TT= 0 TMC= 1 C= 19.00 XC= 0.00 BS= 0/6571 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=228.45 DEC50=-19.10 cone= 97.19 clock= 96.31
117DF:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6571
1:#s= 1 Cs= -33.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNBRG09402

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG09402

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1794:00:0

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

OBSERVATION:11JNBRG09402

DESCRIP:Brown_Barge_Ob_94_Deg_Phase

Brown Barge Observation 94 deg phase ACTIVITY ID: 11JNBRG09402-
START TIME: 97-309/18:25:39.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG094 SeqNo 02 -

Title	Brown Barge Observation 94 deg phase		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97 Week 45
Start	JEE-CDS 00001796:00:0	97-309/18:25:39.733		JEE-001/06:15:57.333	
End	JEE-CDS 00001789:00:0	97-309/18:32:44.400		JEE-001/06:08:52.666	
Duration	00000007:00:0	000/00:07:04.667		000/00:07:04.667	

Top Label	11JNBRG09402-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of two OAPels constituting observations of the Brown Barge feature at 94 degrees phase. Observation acquired about 15 degrees away from terminator.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired, 3 X 1 map extending from terminator at approximately 70 degrees longitude to approximately 33 degrees longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude.
Range is 18.4 Rj, NIMS IFOV about 660 km. Incidence angle at 52 degrees, longitude is 70 degrees, emission angle is 29 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT04B

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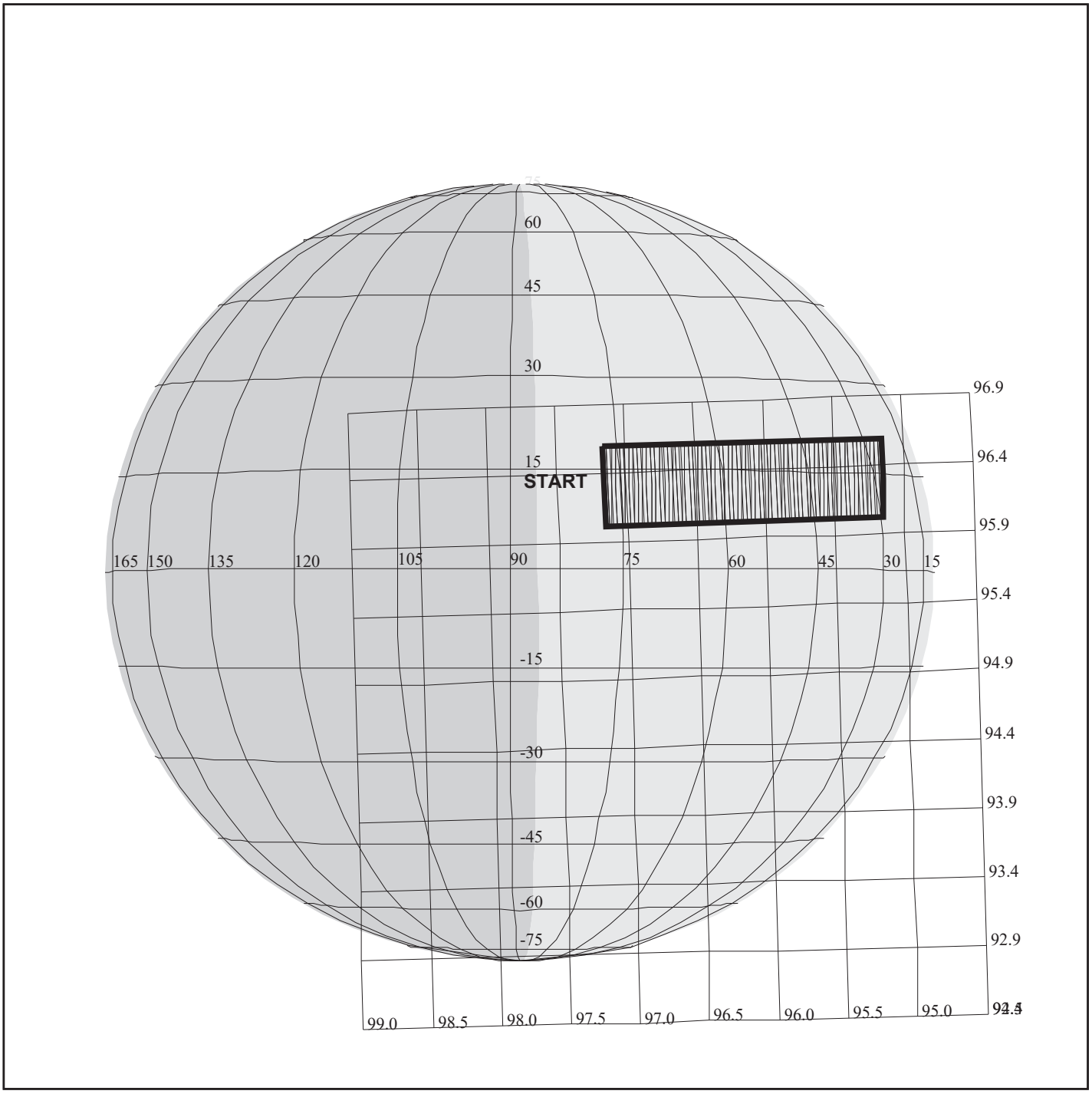


165DG:TT= 0 TMC= 1 C= 21.00 XC= 0.00 BS= 0/0939 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=228.45 DEC50=-19.10 cone= 97.19 clock= 96.31
117DG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0939
1:#s= 1 Cs= -33.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNBRG09403

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG09403

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1770:00:0

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

OBSERVATION:11JNBRG09403

DESCRIP:Brown_Barge_Ob_94_Deg_Phase

Brown Barge Observation 94 deg phase ACTIVITY ID: 11JNBRG09403-
START TIME: 97-309/18:49:55.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG094 SeqNo 03 -

Title	Brown Barge Observation 94 deg phase		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97 Week 45
Start	JEE-CDS 00001772:00:0	97-309/18:49:55.733		JEE-001/05:51:41.333	
End	JEE-CDS 00001765:00:0	97-309/18:57:00.400		JEE-001/05:44:36.666	
Duration	00000007:00:0	000/00:07:04.667		000/00:07:04.667	

Top Label	11JNBRG09403-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of four OAPels constituting observations of the Brown Barge feature at 94 degrees phase angle. Observation acquired near minimum airmass.

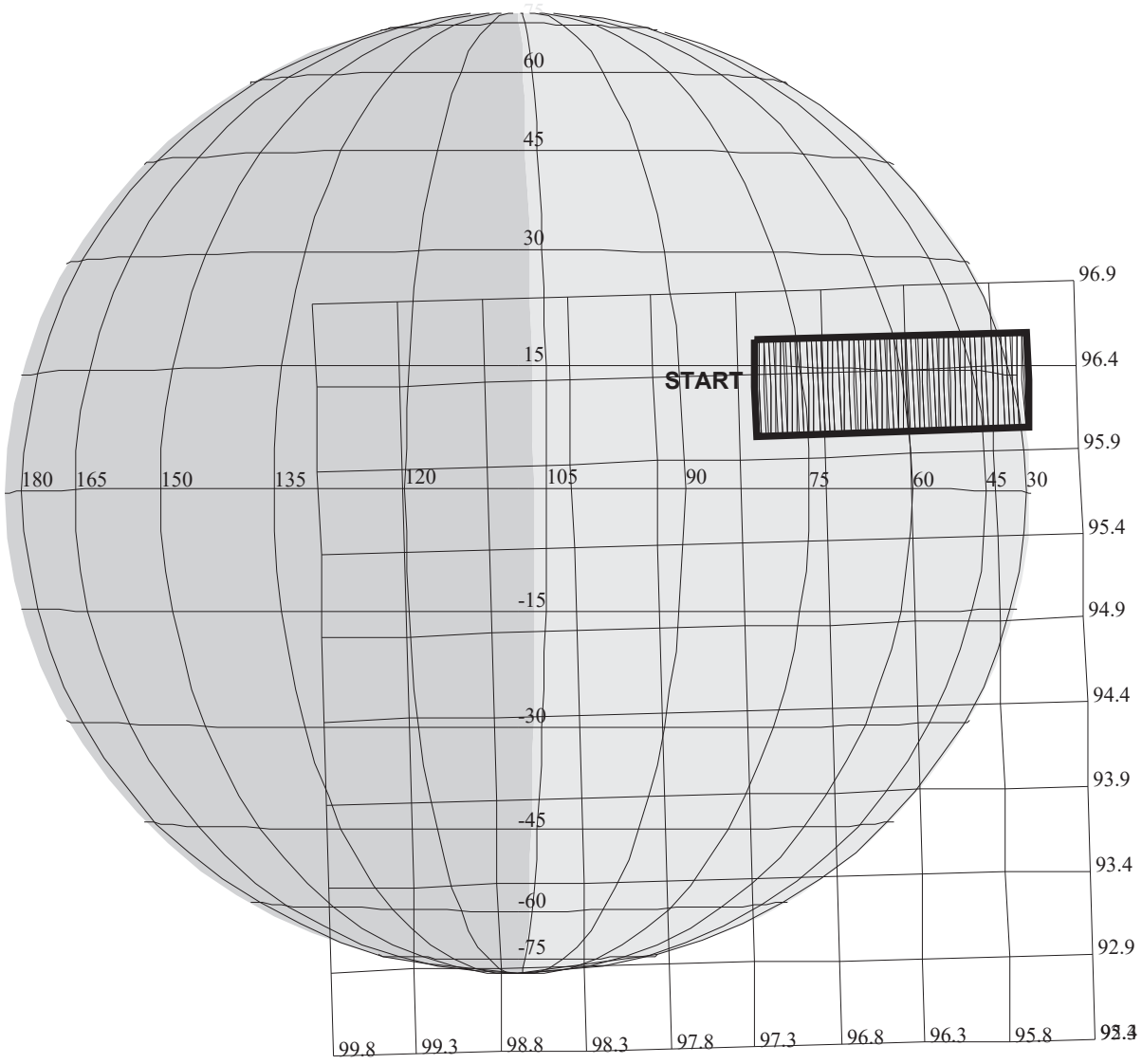
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired, 3 X 1 map centered at 52 degrees West longitude, 14 degrees North latitude.
Barge location has a large uncertainty of 40-65 degrees West longitude.
Range is 18.4 Rj, NIMS IFOV 650 km. Incidence angle is 54 degrees, emission angle is 42.0 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:49:57 rev 6/95



165DH:TT= 0 TMC= 1 C= 19.50 XC= 0.00 BS= 0/6945 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=228.41 DEC50=-19.09 cone= 97.16 clock= 96.30
117DH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6945
1:#s= 1 Cs= -26.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

11JNBRG09404

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG09404

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 1737:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:11JNBRG09404 **DESCRIP:Brown_Barge_Ob_94_Deg_Phase**

Brown Barge Observation 94 deg phase ACTIVITY ID: 11JNBRG09404-
START TIME: 97-309/19:23:17.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG094 SeqNo 04 -

Title	Brown Barge Observation 94 deg phase		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97 Week 45
Start	JEE-CDS 00001739:00:0	97-309/19:23:17.733		JEE-001/05:18:19.333	
End	JEE-CDS 00001733:00:0	97-309/19:29:21.733		JEE-001/05:12:15.333	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	11JNBRG09404-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Four of four OAPels constituting observations of the Brown Barge feature at 94 degrees phase angle.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired, 3 X 1 map centered near 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude.
Range is 18.4 Rj, NIMS IFOV 650 km. Incidence angle is 36 degrees, emission 61 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD01- / START TIME: 97-309/19:31:23.066

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 01 -

Title	NIMS Real-Time Software Reload	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 11/05/97 Week 45
Start	JEE-CDS 1731:00:0	97-309/19:31:23.066	JEE-001/05:10:14.000
End	JEE-CDS 1721:00:0	97-309/19:41:29.733	JEE-001/05:00:07.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 11NNRELOAD01-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

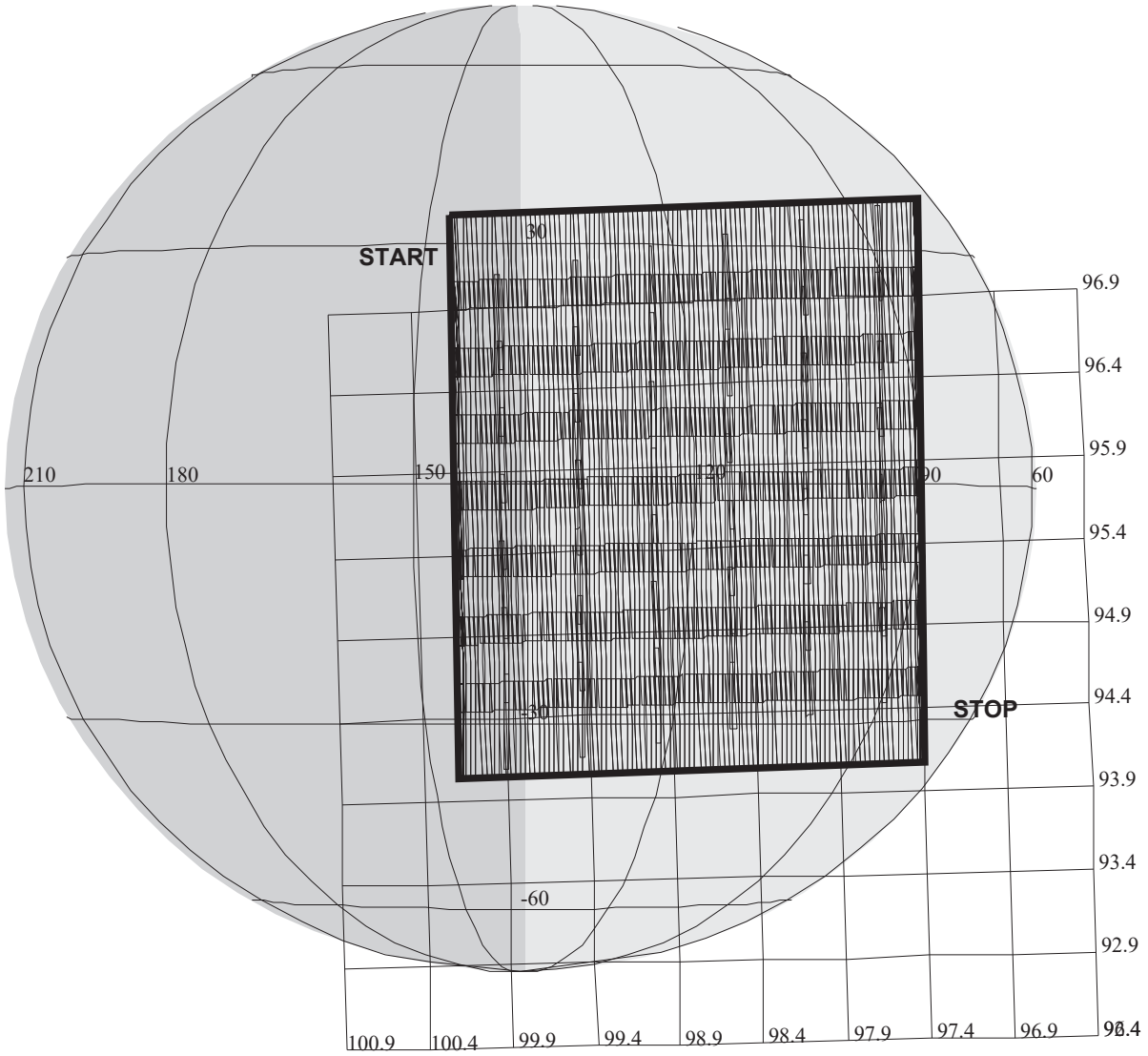
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

Galileo Activity Plan Form 09/25/97 15:49:57 rev 6/95



165DL:TT= 0 TMC= 1 C= 0.70 XC= -12.50 BS= 0/6409 TC= 1(45 148)
A= 162 pD= 0 SR=17.450 RA50=231.73 DEC50=-19.18 cone=100.18 clock= 97.15
117DL:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/6409
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.70 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1685:00:0

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

OBSERVATION:11JNCYLMOS01

DESCRIP:Jupiter_Cylindrical_Mosaic_01

Jupiter Cylindrical Mosaic Part 1 ACTIVITY ID: 11JNCYLMOS01-
START TIME: 97-309/20:14:51.733

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 01 -

Title	Jupiter Cylindrical Mosaic Part 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 11/05/97 Week 45
Start	JEE-CDS 00001688:00:0	97-309/20:14:51.733	JEE-001/04:26:45.333
End	JEE-CDS 00001675:00:0	97-309/20:28:00.400	JEE-001/04:13:36.666
Duration	00000013:00:0	000/00:13:08.667	000/00:13:08.667

Top Label 11JNCYLMOS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part one of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 630 km/NIMSel resolution. This map acquired near 135 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks. Four minutes reserved for targetting. Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

Galileo Activity Plan Form 09/25/97 15:49:57 rev 6/95

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD02- / START TIME: 97-309/21:13:30.400

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 02 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date 11/05/97 Week 45
Start	JEE-CDS 1630:00:0	97-309/21:13:30.400	JEE-001/03:28:06.666
End	JEE-CDS 1620:00:0	97-309/21:23:37.066	JEE-001/03:18:00.000
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 11NNRELOAD02-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

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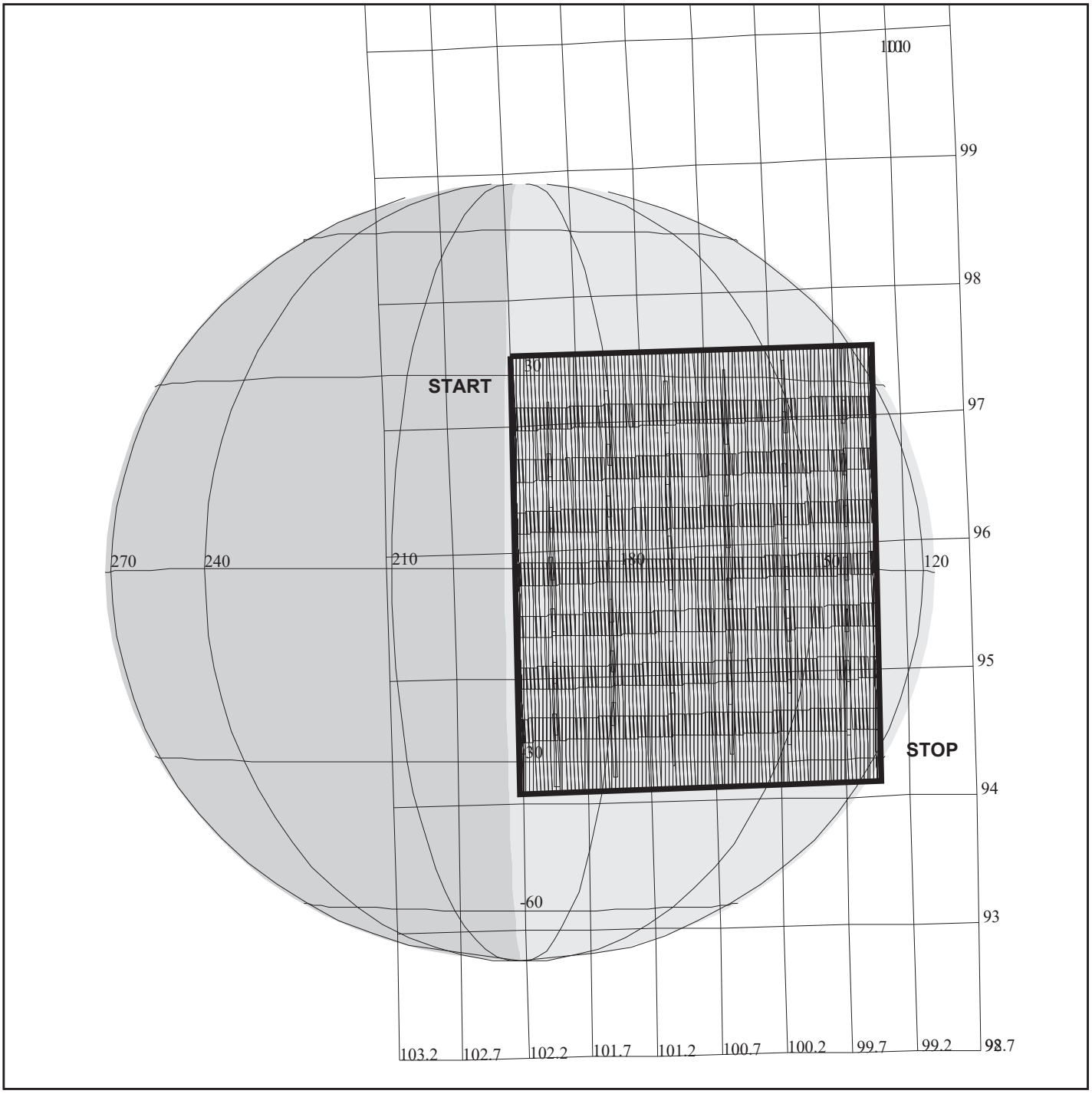


165DM:TT= 0 TMC= 1 C= 0.00 XC= -13.50 BS= 0/3335 TC= 1(45 195)
A= 182 pD= 0 SR=17.450 RA50=233.79 DEC50=-19.65 cone=102.18 clock= 97.26
117DM:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/3335
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.70 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1592:00:0

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

OBSERVATION:11JNCYLMOS02

DESCRIP:Jupiter_Cylindrical_Mosaic_02

Jupiter Cylindrical Mosaic Part 2 ACTIVITY ID: 11JNCYLMOS02-
START TIME: 97-309/21:48:53.733

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 02 -

Title	Jupiter Cylindrical Mosaic Part 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 11/05/97 Week 45

Start	JEE-CDS 00001595:00:0	97-309/21:48:53.733	JEE-001/02:52:43.333
End	JEE-CDS 00001582:00:0	97-309/22:02:02.400	JEE-001/02:39:34.666
Duration	00000013:00:0	000/00:13:08.667	000/00:13:08.667

Top Label 11JNCYLMOS02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part two of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 605 km/NIMSel resolution. This map acquired near 195 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

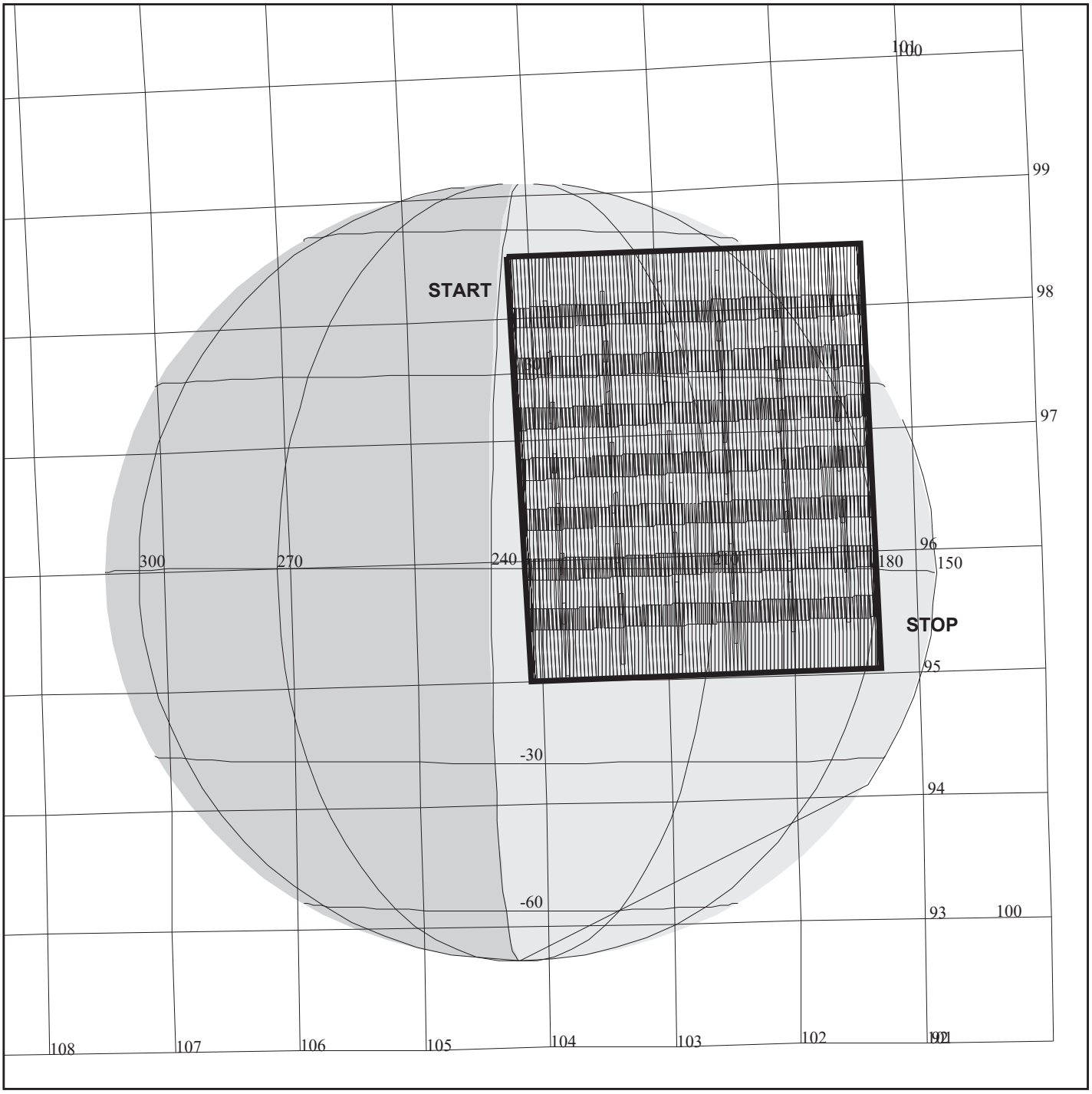
Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks. Four minutes reserved for targetting. Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

Galileo Activity Plan Form 09/25/97 15:49:57 rev 6/95



165DO:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6803 TC= 1(45 238)
A= 728 pD= 0 SR=17.450 RA50=236.08 DEC50=-19.30 cone=104.16 clock= 98.21
117DO:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/6803
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.50 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1518:00:0

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

OBSERVATION:11JNCYLMOS03

DESCRIP:Jupiter_Cylindrical_Mosaic_03

Jupiter Cylindrical Mosaic Part 3 ACTIVITY ID: 11JNCYLMOS03-
START TIME: 97-309/23:01:41.733

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 03 -

Title	Jupiter Cylindrical Mosaic Part 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 11/05/97 Week 45

Start	JEE-CDS 00001523:00:0	97-309/23:01:41.733	JEE-001/01:39:55.333
End	JEE-CDS 00001508:00:0	97-309/23:16:51.733	JEE-001/01:24:45.333
Duration	00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label 11JNCYLMOS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	160	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part three of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 590 km/NIMSel resolution. This map acquired near 240 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
Four minutes reserved for targetting.
Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD03- / START TIME: 97-309/23:36:04.400

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 03 -

Title	NIMS Real-Time Software Reload	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 11/05/97 Week 45
Start	JEE-CDS 1489:00:0	97-309/23:36:04.400	JEE-001/01:05:32.666
End	JEE-CDS 1479:00:0	97-309/23:46:11.066	JEE-001/00:55:26.000
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 11NNRELOAD03-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

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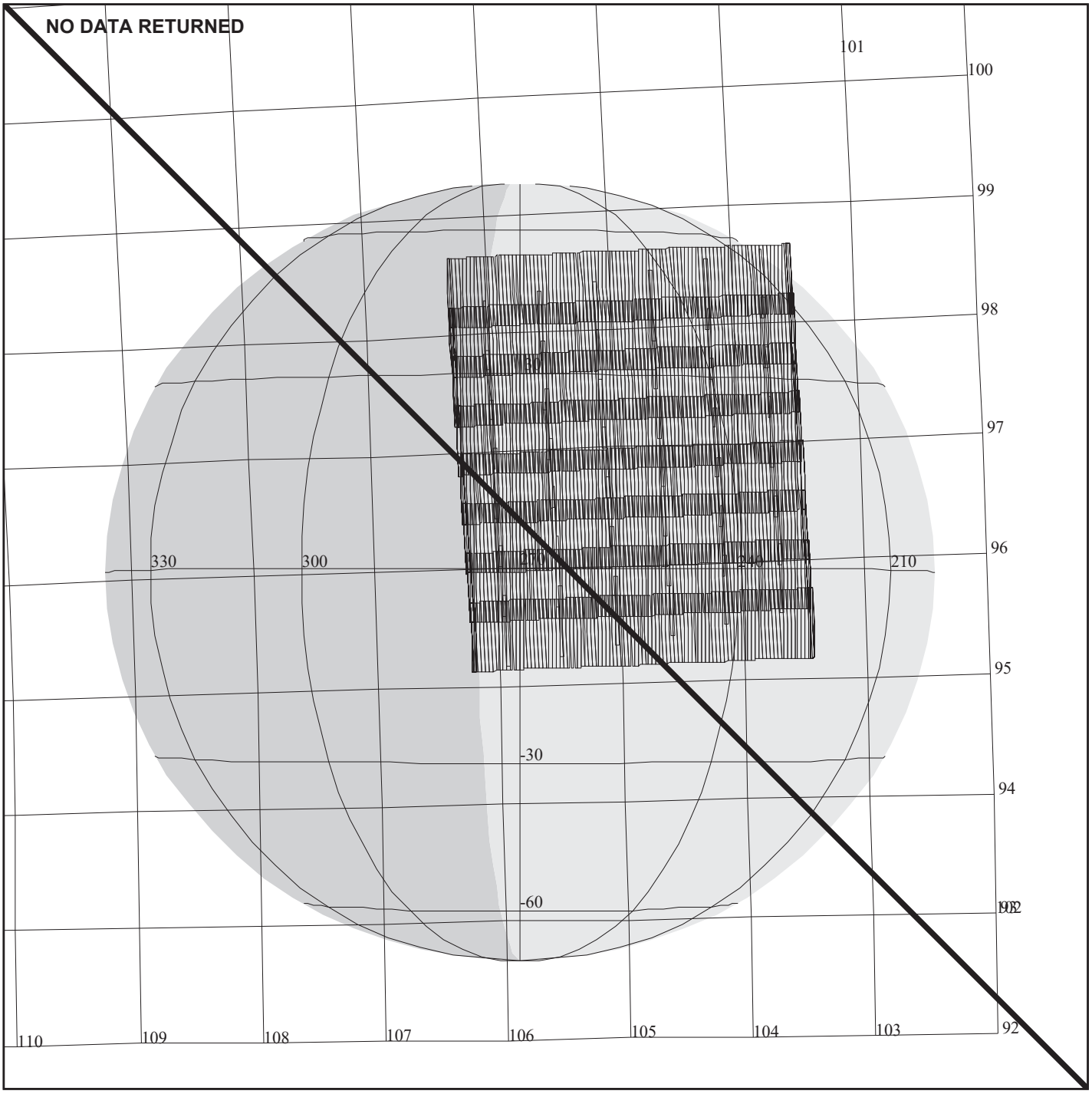

165DQ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7359 TC= 1(45 283)
A= 546 pD= 0 SR=17.450 RA50=238.33 DEC50=-19.71 cone=106.31 clock= 98.37
117DQ:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/7359
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.50 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS04

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1460:00:0

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

OBSERVATION:11JNCYLMOS04

DESCRIP:Jupiter_Cylindrical_Mosaic_04

Jupiter Cylindrical Mosaic Part 4 ACTIVITY ID: 11JNCYLMOS04-
START TIME: 97-310/00:01:21.066

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 04 -

Title	Jupiter Cylindrical Mosaic Part 4	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 11/06/97 Week 45

Start	JEE-CDS 00001464:00:0	97-310/00:01:21.066	JEE-001/00:40:16.000
End	JEE-CDS 00001450:00:0	97-310/00:15:30.400	JEE-001/00:26:06.666
Duration	00000014:00:0	000/00:14:09.334	000/00:14:09.334

Top Label 11JNCYLMOS04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part four of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 570 km/NIMSel resolution. This map acquired near 220 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

No Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator).
About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
Four minutes reserved for targetting.
Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

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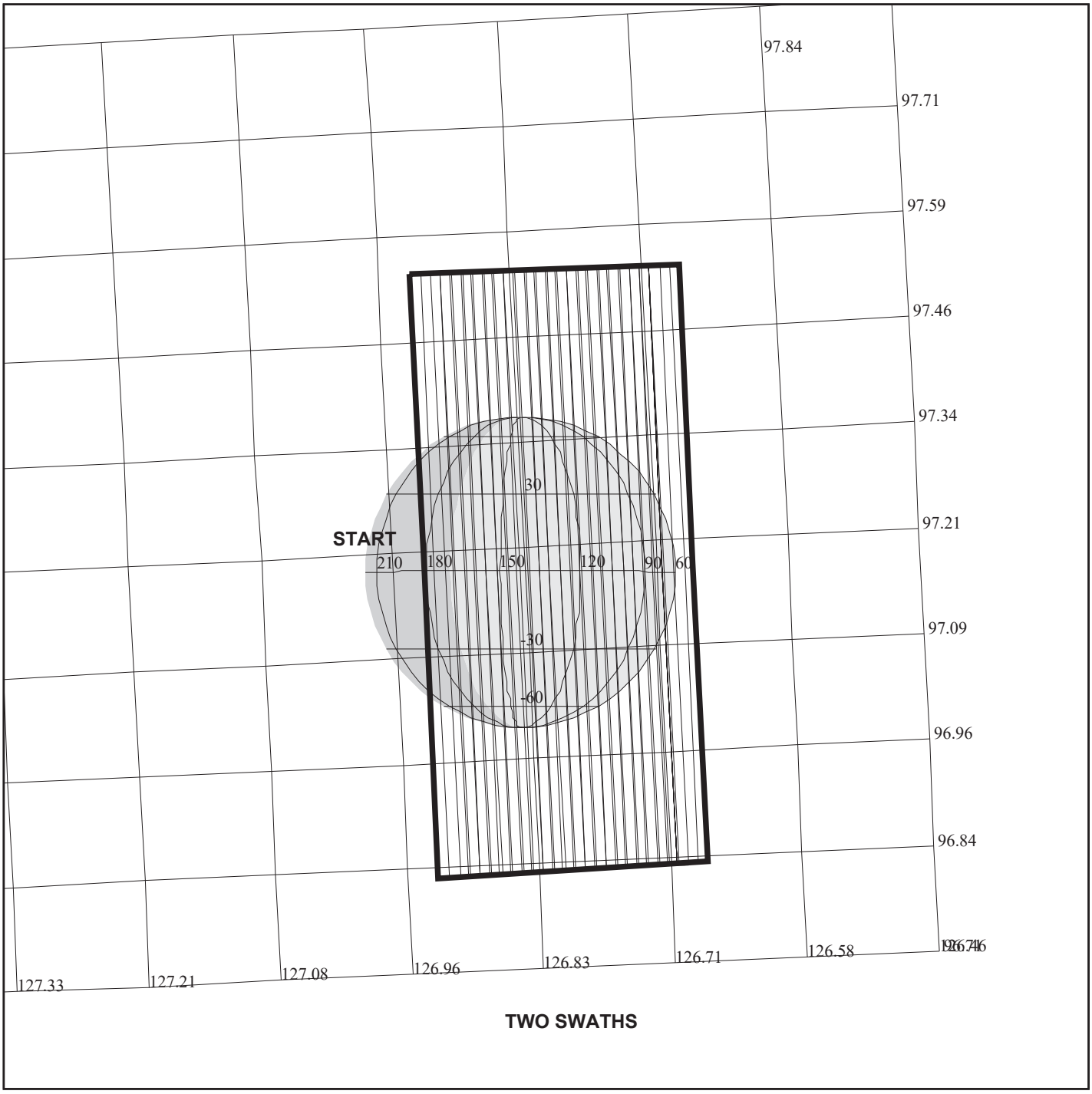

165ME:TT= 0 TMC= 1 C= 1.40 XC= 0.00 BS= 0/9907 TC= 3
A= 546 pD= 2940 SR=17.450 RA50=260.01 DEC50=-24.54 cone=126.92 clock= 97.18
117ME:#SB= 1 OR= 0.010 RR=17.000 BM=F RC= 1 BS= 0/9907
1:#s= 2 Cs= -4.00 XCs= 0.00 Cr= 4.00 XCr= 0.00 sD= 1456 rD= 28

11ENM20HR_01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENM20HR_01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-310/20:31:52.400 -CDS 1199:00:0 **BODY PLOT TIME:TARGET-TIME D= 2940 S= 0.300**

OBSERVATION:11ENM20HR_01 **DESCRIP:Europa_Global_Mosaic**

Europa Obs Beyond 15 Rj

ACTIVITY ID: 11ENM20HR_01-
START TIME: 97-310/00:15:30.400

Activity ID: Orbit 11 Target E Inst N OAPEL M20HR_ SeqNo 01 -

Title	Europa Obs Beyond 15 Rj			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date 11/06/97 Week 45
Start	EEE-CDS 00001203:00:0	97-310/00:15:30.400	EEE-000/20:16:22.000
End	EEE-CDS 00001180:00:0	97-310/00:38:45.734	EEE-000/19:53:06.666
Duration	00000023:00:0	000/00:23:15.334	000/00:23:15.334

Top Label 11ENM20HR_01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To observe Europa beyond 15 Jupiter radii at NIMS most sensitive gain state 4. One scan at gain state 4 and a second scan at gain state 3. This is the first of a set of three distant Europa observations.

Data Returned

Design Detail

NIMS mode = LM. Gains State = 4, 3 Record Mode = MPW and LPU.
This observation will require two scans.
First scan at MPW record mode at 8 RIMS in gain state 4
and the second scan at LPU record mode at 8 RIMS in gain state 3.
Assume three RIMS targetting. If targetting is less than three RIMS,
consume the extra time on the first scan.

Latitude coverage = plus/minus 90 degrees.
West longitude coverage = 53 - 174 degrees.
Resolution = 300 km.
Cone angle = 126 degrees.
Phase angle = 63 degrees.

Two Swaths.
Long Map (LM), Gain 4, Grating Start 0, MPW, E11ELM442, E11ELM360
Long Map (LM), Gain 3, Grating Start 0, LPU, E11ELM243C, E11ELM228C

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD04- / START TIME: 97-310/01:05:03.066

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 04 -

Title	NIMS Real-Time Software Reload	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS — Load ID — Calendar Date 11/06/97 Week 45

Start	JEE-CDS 1401:00:0	97-310/01:05:03.066	JEE-000/23:36:34.000
End	JEE-CDS 1391:00:0	97-310/01:15:09.733	JEE-000/23:26:27.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 11NNRELOAD04-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

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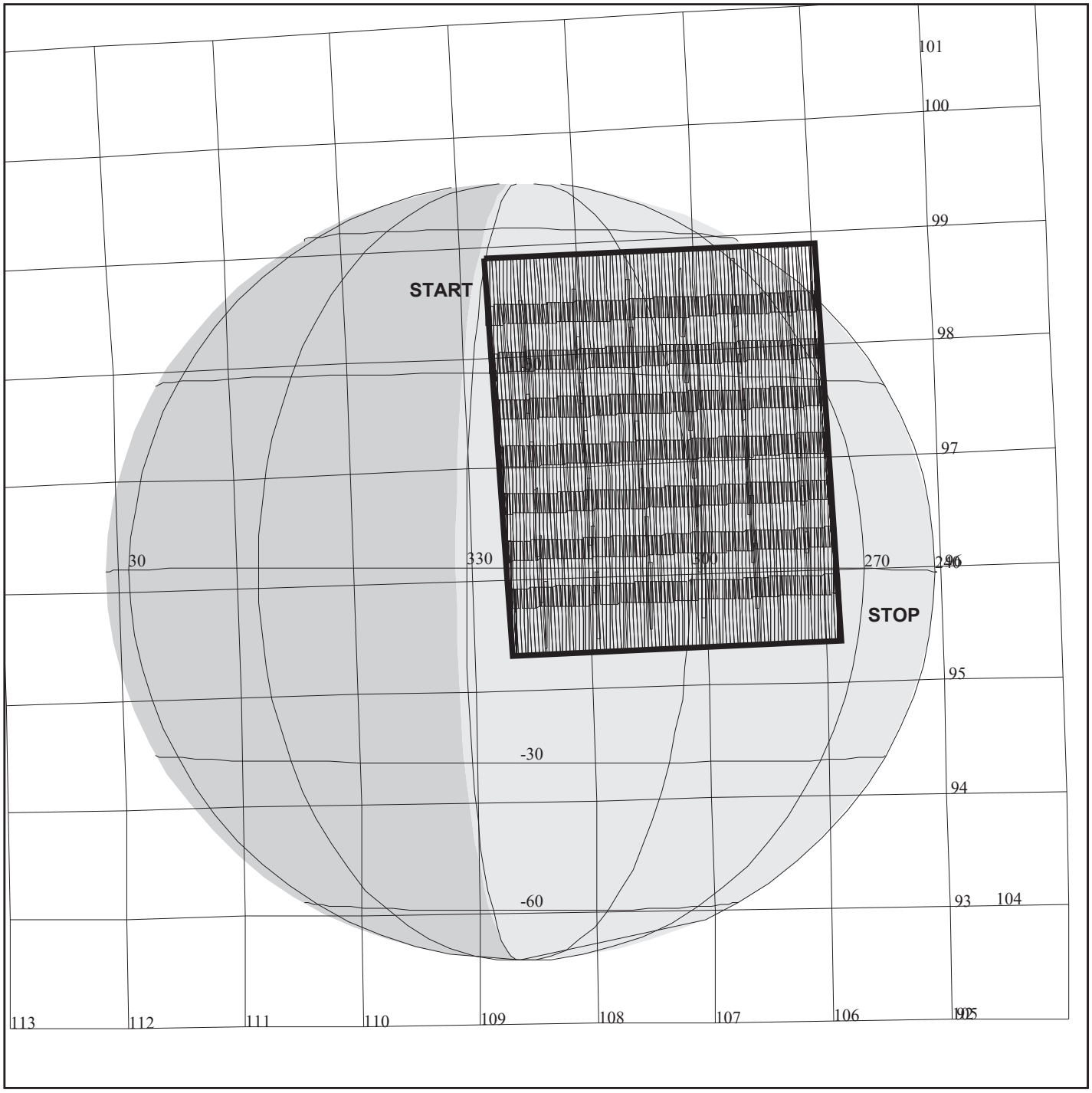

165DU:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3921 TC= 1(45 329)
A= 728 pD= 0 SR=17.450 RA50=240.93 DEC50=-20.11 cone=108.78 clock= 98.60
117DU:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/3921
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.50 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS05

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS05

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1369:00:0

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

OBSERVATION:11JNCYLMOS05

DESCRIP:Jupiter_Cylindrical_Mosaic_05

Jupiter Cylindrical Mosaic Part 5 ACTIVITY ID: 11JNCYLMOS05-
START TIME: 97-310/01:32:21.066

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 05 -

Title	Jupiter Cylindrical Mosaic Part 5	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS Load ID Calendar Date 11/06/97 Week 45

Start	JEE-CDS 00001374:00:0	97-310/01:32:21.066	JEE-000/23:09:16.000
End	JEE-CDS 00001358:00:0	97-310/01:48:31.733	JEE-000/22:53:05.333
Duration	00000016:00:0	000/00:16:10.667	000/00:16:10.667

Top Label 11JNCYLMOS05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part five of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 550 km/NIMSel resolution. This map acquired near 320 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator).
About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
Four minutes reserved for targetting.
Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD05-
START TIME: 97-310/02:14:49.066

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 05 -

Title	NIMS Real-Time Software Reload	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 11/06/97 Week 45
Start	JEE-CDS 1332:00:0	97-310/02:14:49.066	JEE-000/22:26:48.000
End	JEE-CDS 1322:00:0	97-310/02:24:55.733	JEE-000/22:16:41.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 11NNRELOAD05-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

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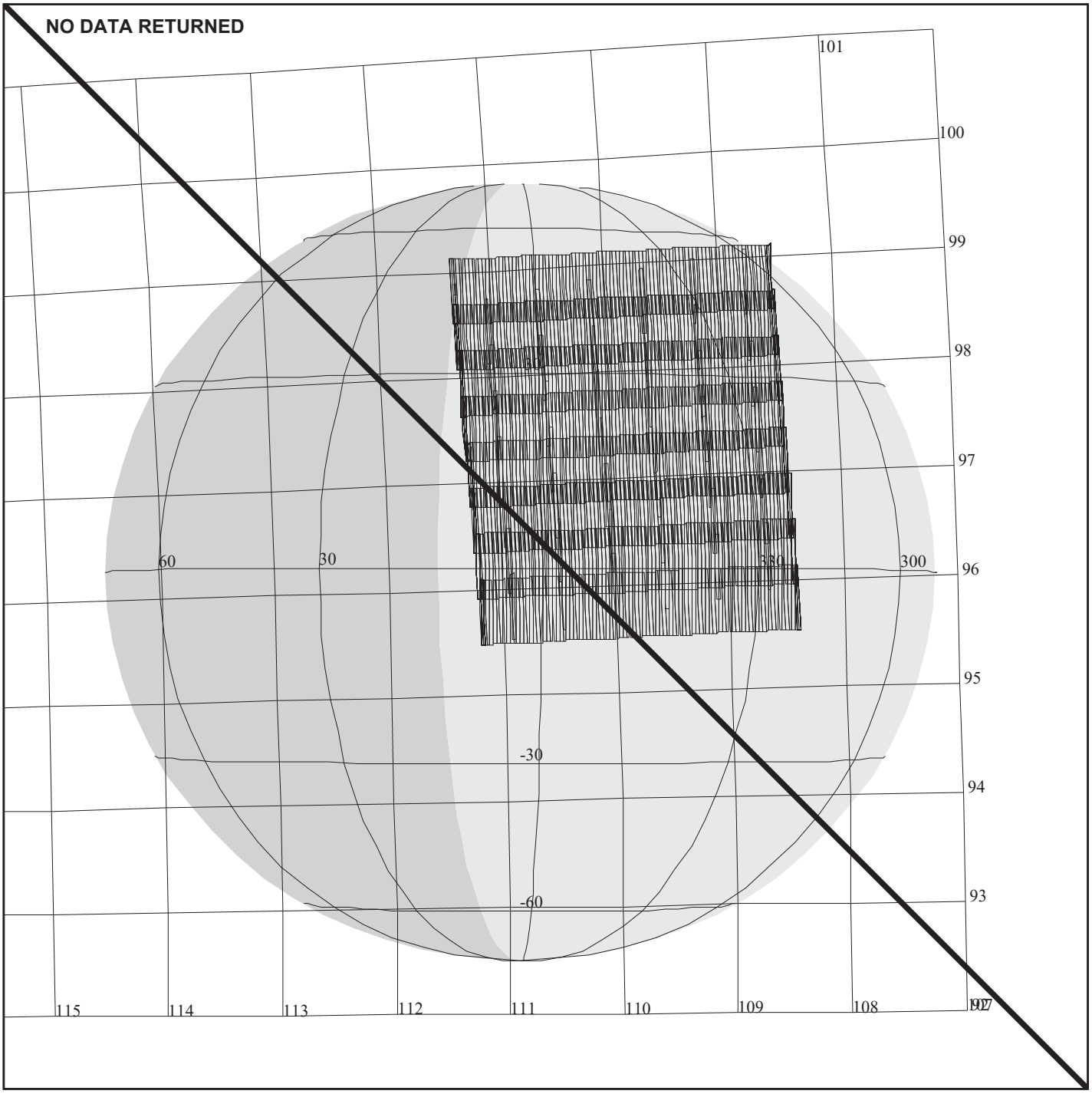

165DW:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6479 TC= 1(45 15)
A= 728 pD= 0 SR=17.450 RA50=243.62 DEC50=-20.51 cone=111.33 clock= 98.82
117DW:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/6479
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.50 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS06

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS06

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1300:00:0

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

OBSERVATION:11JNCYLMOS06

DESCRIP:Jupiter_Cylindrical_Mosaic_06

Jupiter Cylindrical Mosaic Part 6 ACTIVITY ID: 11JNCYLMOS06-
START TIME: 97-310/02:42:07.066

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 06 -

Title	Jupiter Cylindrical Mosaic Part 6	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 11/06/97 Week 45
Start	JEE-CDS 00001305:00:0	97-310/02:42:07.066	JEE-000/21:59:30.000
End	JEE-CDS 00001290:00:0	97-310/02:57:17.066	JEE-000/21:44:20.000
Duration	00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label 11JNCYLMOS06-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part six of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 530 km/NIMSel resolution. This map acquired near 310 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

No Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator).
About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
Four minutes reserved for targetting.
Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

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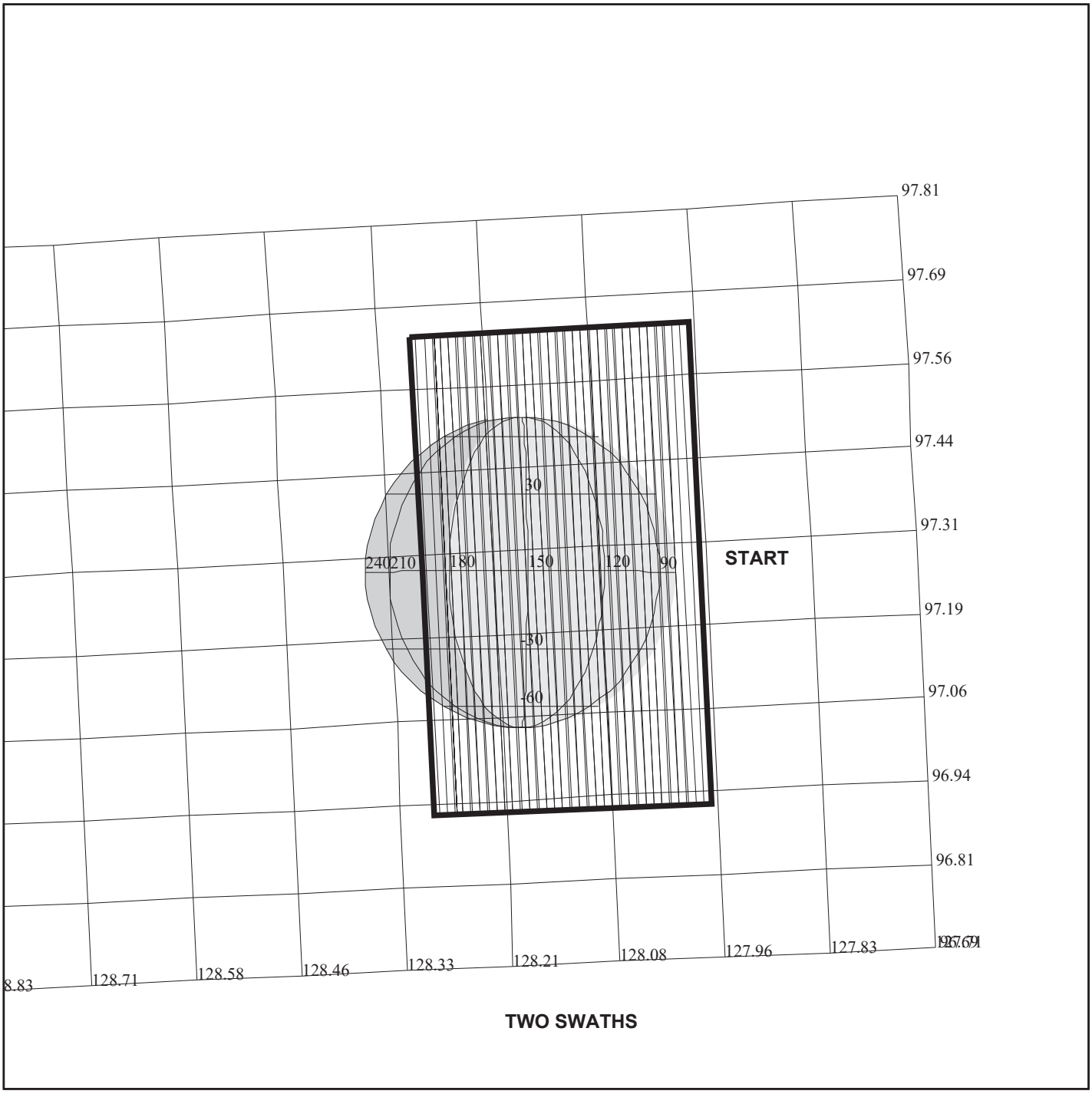


TWO SWATHS

165DX:TT= 0 TMC= 1 C= -3.50 XC= 0.00 BS= 0/8845 TC= 3
A= 364 pD= 3446 SR=17.450 RA50=261.18 DEC50=-24.57 cone=127.98 clock= 97.28
117DX:#SB= 2 OR= 0.010 RR=17.000 BM=F RC= 1 BS= 0/8845
1:#s= 1 Cs= 5.36 XCs= 0.00 Cr= -5.36 XCr= 0.00 sD= 1800 rD= 28
2:#s= 1 Cs= 5.36 XCs= 0.00 Cr= -5.36 XCr= 0.00 sD= 1618 rD= 28

11ENM17HR_01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENM17HR_01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 97-310/20:31:52.400 -CDS 1040:00:0

BODY PLOT TIME:TARGET-TIME D= 3446 S= 0.300

OBSERVATION:11ENM17HR_01

DESCRIP:Europa_Global_Mosaic

Europa Obs Beyond 15 Rj

ACTIVITY ID: 11ENM17HR_01-
START TIME: 97-310/02:57:17.067

Activity ID: Orbit 11 Target E Inst N OAPEL M17HR_ SeqNo 01 -

Title	Europa Obs Beyond 15 Rj			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45
Start	EEE-CDS 00001043:00:0	97-310/02:57:17.067		EEE-000/17:34:35.333	
End	EEE-CDS 00001018:00:0	97-310/03:22:33.734		EEE-000/17:09:18.666	
Duration	00000025:00:0	000/00:25:16.667		000/00:25:16.667	

Top Label 11ENM17HR_01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To observe Europa beyond 15 Jupiter radii in NIMS most sensitive gain state (GS = 4). One scan and second scan at gain state 3. This is the second of a set of three distant Europa observations.

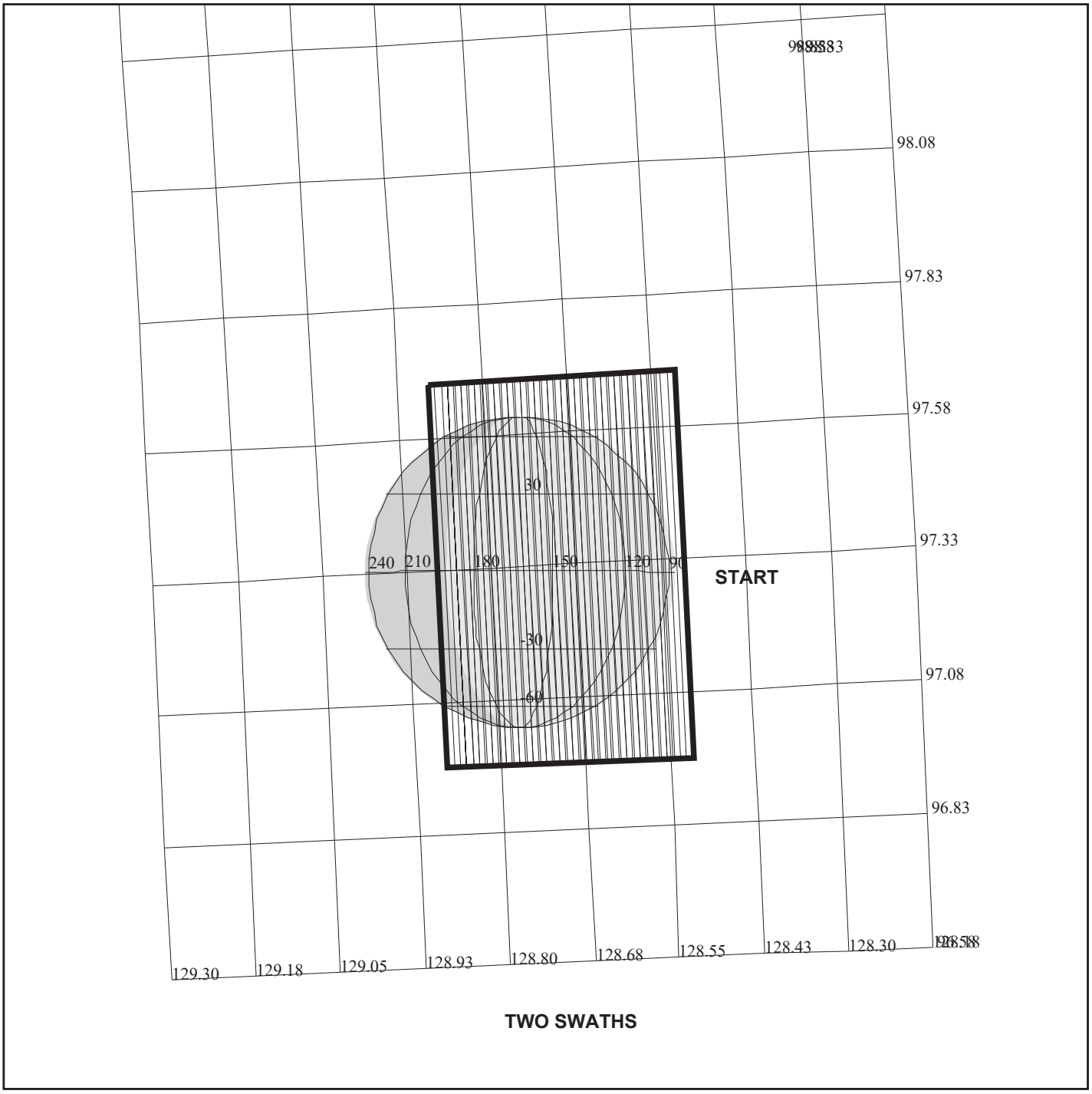
Data Returned

Design Detail

NIMS mode = LM Gain State = 3,4 Record Mode = MPW and LPU.
The first scan is at MPW record mode at 9 RIMS in gain state 4.
The second scan is at LPU record mode at 8 RIMS in gain state 3.
Assume three RIMS targetting. If targetting time is less than three RIMS, use remaining time on first scan.

Latitude coverage = plus/minus 90 degrees.
West longitude coverage = 72 - 129 degrees.
Resolution = 235 km.
Number of scans = 1.
Percentage overlap = 80%.
Cone = 128 degrees.
Phase angle = 62 degrees.
Two Swaths
Long Map (LM), Gain 4, Grating Start 0, MPW, E11ELM442, E11ELM360
Long Map (LM), Gain 3, Grating Start 0, LPU, E11ELM243C, E11ELM228C

Galileo Activity Plan Form 09/25/97 15:49:58 rev 6/95



TWO SWATHS

165DY:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/4871 TC= 3
A= 546 pD= 3814 SR=17.450 RA50=261.79 DEC50=-24.60 cone=128.53 clock= 97.32
117DY:#SB= 2 OR= 0.010 RR=17.000 BM=F RC= 1 BS= 0/4871
1:#s= 1 Cs= 5.95 XCs= 0.00 Cr= -5.95 XCr= 0.00 sD= 1980 rD= 28
2:#s= 1 Cs= 5.95 XCs= 0.00 Cr= -5.95 XCr= 0.00 sD= 1806 rD= 28

11ENM15HR_01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENM15HR_01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 97-310/20:31:52.400 -CDS 897:00:0

BODY PLOT TIME:TARGET-TIME D= 3814 S= 0.300

OBSERVATION:11ENM15HR_01

DESCRIP:Europa_Global_Mosaic

Europa Observation at Minus 15 Hours ACTIVITY ID: 11ENM15HR_01-
START TIME: 97-310/05:20:51.734

Activity ID: Orbit 11 Target E Inst N OAPEL M15HR_ SeqNo 01 -

Title	Europa Observation at Minus 15 Hours	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 11/06/97 Week 45
Start	EEE-CDS 00000901:00:0	97-310/05:20:51.734	EEE-000/15:11:00.666
End	EEE-CDS 00000875:00:0	97-310/05:47:09.067	EEE-000/14:44:43.333
Duration	00000026:00:0	000/00:26:17.333	000/00:26:17.333

Top Label 11ENM15HR_01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To observe Europa at minus 15 hours. The first scan is in gain state 4 and the second scan is in gain state 3. This is the last of a set of three observations.

Data Returned

Design Detail

NIMS Mode = LM Gain State = 4,3. Record Mode = MPW and LPU.
First scan is at MPW record mode at 10 RIMS in gain state 4.
The second scan is at LPU record mode at 10 RIMS in gain state 3.
Assume three RIMS targetting time. If targetting time is less than three RIMS, then use remaining time on the first scan.

Latitude coverage = plus/minus 90 degrees.
West longitude = 80 - 122 degrees.
Resolution = 190 km.
Cone angle = 128 degrees.
Phase angle = 61 degrees.

Two Swaths

Long Map (LM), Gain 4, Grating Start 0, MPW, E11ELM442, E11ELM360
Long Map (LM), Gain 3, Grating Start 0, LPU, E11ELM243C, E11ELM228C

Galileo Activity Plan Form 09/25/97 15:49:59 rev 6/95

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD06- / START TIME: 97-310/13:14:03.733

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 06 -

Title	NIMS Real-Time Software Reload	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System CDS — Load ID — Calendar Date 11/06/97 Week 45

Start	JEE-CDS 680:00:0	97-310/13:14:03.733	JEE-000/11:27:33.333
End	JEE-CDS 670:00:0	97-310/13:24:10.400	JEE-000/11:17:26.666
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 11NNRELOAD06-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

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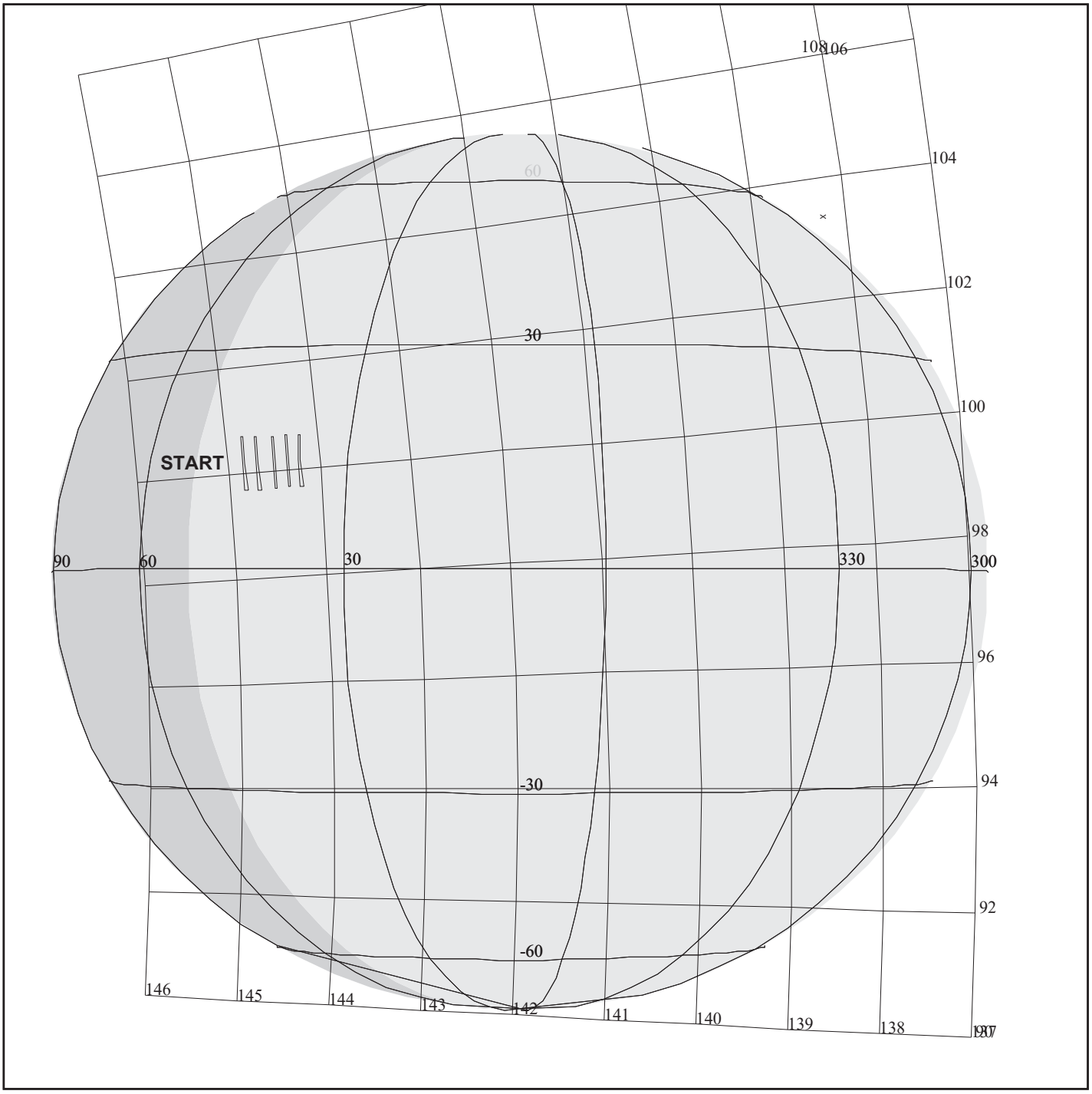

165KH:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/4961 TC= 1(14 40)
A= 728 pD= 0 SR=17.450 RA50=279.73 DEC50=-23.39 cone=144.84 clock=100.18
117KH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4961
1:#s= 1 Cs= -9.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNRTBRG_01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNRTBRG_01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 649:00:0

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

OBSERVATION:11JNRTBRG_01

DESCRIP:NIMS_Real_Time_Brown_Barge

NIMS Real-Time Brown Barge Obs

ACTIVITY ID: 11JNRTBRG_01-
START TIME: 97-310/13:39:20.400

Activity ID: Orbit 11 Target J Inst N OAPEL RTBRG_ SeqNo 01 -

Title	NIMS Real-Time Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45
Start	JEE-CDS 00000655:00:0	97-310/13:39:20.400		JEE-000/11:02:16.666	
End	JEE-CDS 00000641:00:0	97-310/13:53:29.733		JEE-000/10:48:07.333	
Duration	00000014:00:0	000/00:14:09.333		000/00:14:09.333	

Top Label 11JNRTBRG_01-
Bottom Label

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

Observation Objective

To observe the Brown Barge feature in real-time.

Data Returned

Design Detail

Long map, Nyquist sampling. Location is 52 degrees West longitude,
14 degrees North latitude. Barge location has a large uncertainty of
40-65 degrees West longitude.
Range is 10.4 Rj, incidence angle is 89.0 degrees,
emission angle is 40.5 degrees. Assume four RIMS of targetting.

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

Long Map (LM), Gain 2, Grating Start 0, R/T, E11JLM442/MB

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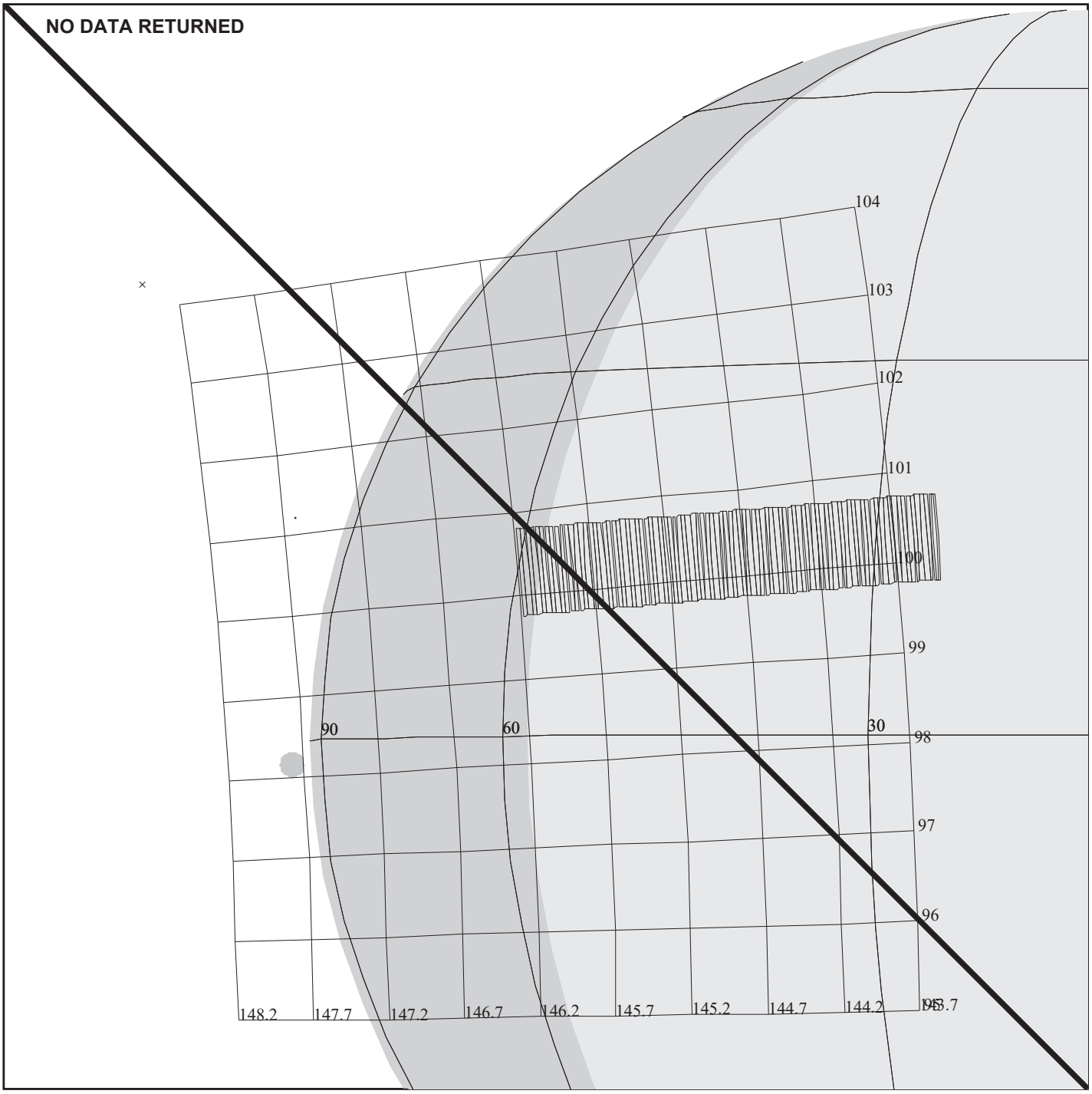


165EA:TT= 0 TMC= 1 C= 9.00 XC= 0.00 BS= 0/6781 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=281.23 DEC50=-23.33 cone=146.22 clock=100.28
117EA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6781
1:#s= 1 Cs= -46.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1270 rD= 2

11JNBRG04201

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG04201

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 639:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:11JNBRG04201 **DESCRIP:BROWN_BARGE_OBS_42_DEG_PHASE**

Brown Barge Observation 42 deg phase ACTIVITY ID: 11JNBRG04201-
START TIME: 97-310/13:53:29.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG042 SeqNo 01 -

Title	Brown Barge Observation 42 deg phase		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45
Start	JEE-CDS 00000641:00:0	97-310/13:53:29.733		JEE-000/10:48:07.333	
End	JEE-CDS 00000632:00:0	97-310/14:02:35.733		JEE-000/10:39:01.333	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	11JNBRG04201-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of five OAPels constituting observations at the Brown Barge feature at 42 degrees phase.

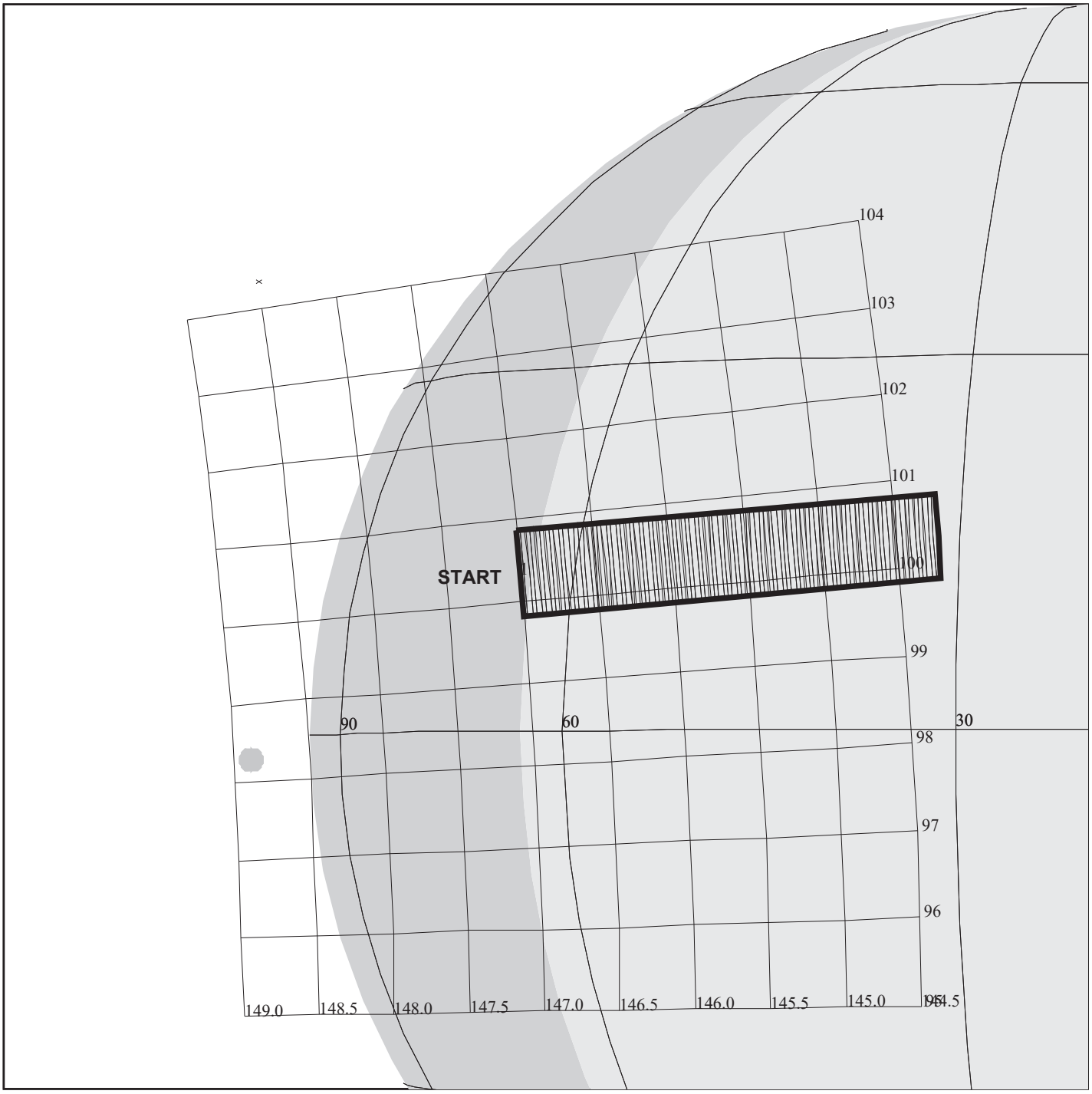
No Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has large uncertainty of 40-65 degrees. Range is 10.4 Rj, NIMS IFOV 370 km. Nominal incidence angle is 83.9 degrees, emission angle is 41.9 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:49:59 rev 6/95



165EB:TT= 0 TMC= 1 C= 17.00 XC= 0.00 BS= 0/8783 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50=282.06 DEC50=-23.28 cone=146.98 clock=100.36
117EB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8783
1:#s= 1 Cs= -46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG04202

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG04202

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 628:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:11JNBRG04202 **DESCRIP:BROWN_BARGE_OBS_42_DEG_PHASE**

Brown Barge Observation 42 deg phase ACTIVITY ID: 11JNBRG04202-
START TIME: 97-310/14:02:35.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG042 SeqNo 02 -

Title	Brown Barge Observation 42 deg phase		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45
Start	JEE-CDS 00000632:00:0	97-310/14:02:35.733		JEE-000/10:39:01.333	
End	JEE-CDS 00000621:14:0	97-310/14:13:33.733		JEE-000/10:28:03.333	
Duration	00000010:77:0	000/00:10:58.000		000/00:10:58.000	

Top Label	11JNBRG04202-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of five OAPels constituting observation of the Brown Barge feature at 42degrees phase angle.

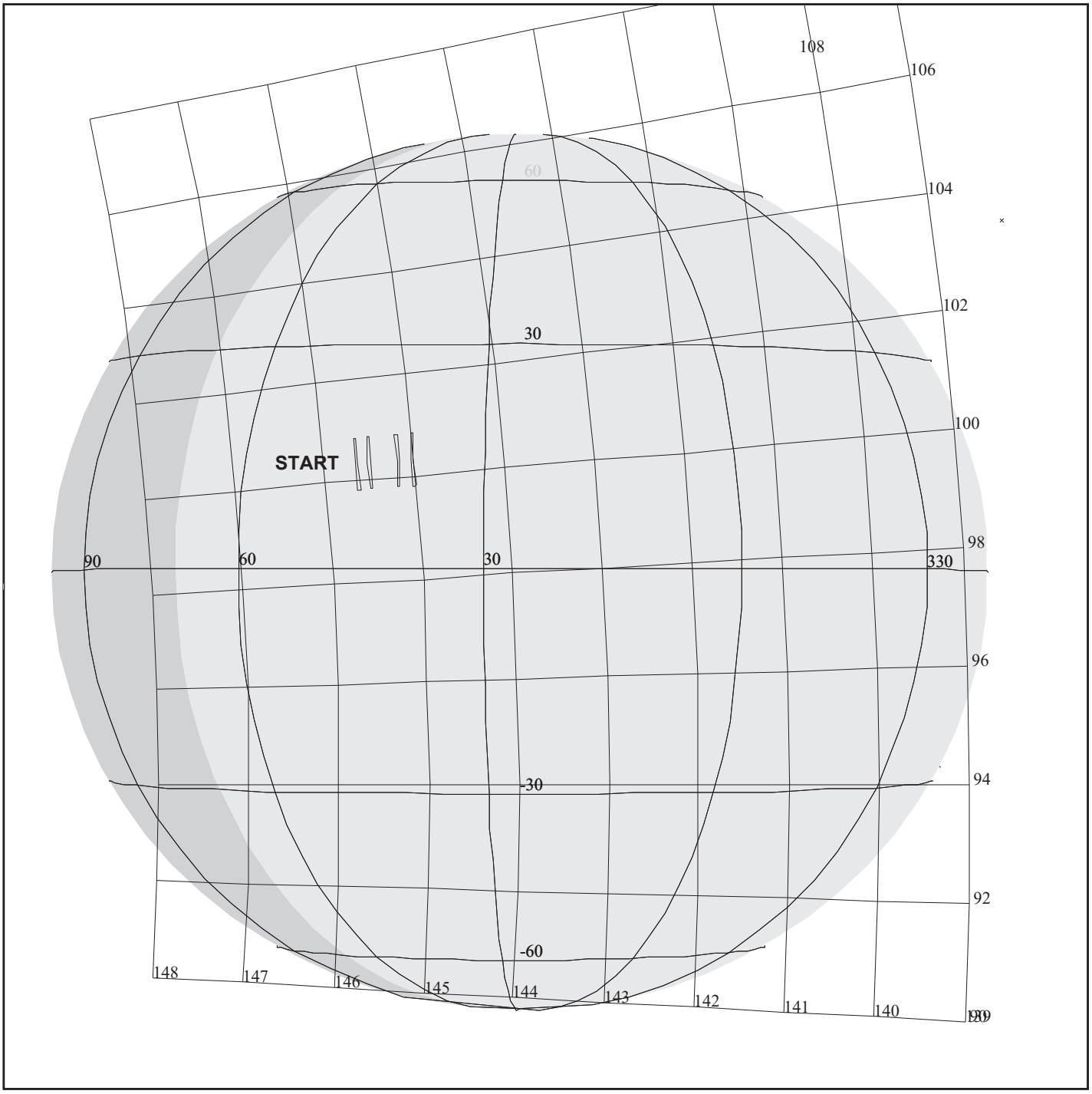
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude.
Range is 10.1 Rj, NIMS IFOV = 370 km.
Nominal incidence angle is 76.6 degrees, emission angle is 35.4 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT04B

Galileo Activity Plan Form 09/25/97 15:49:59 rev 6/95



165KI:TT= 0 TMC= 1 C= 8.50 XC= 0.00 BS= 0/0421 TC= 1(14 40)
A= 182 pD= 0 SR=17.450 RA50=280.61 DEC50=-23.30 cone=145.65 clock=100.34
117KI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0421
1:#s= 1 Cs= -14.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1456 rD= 2

11JNRTBRG_02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNRTBRG_02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 7

START:JEE 97-311/00:41:37.066 -CDS 619:00:0

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

OBSERVATION:11JNRTBRG_02

DESCRIP:NIMS_Real_Time_Brown_Barge

NIMS Real-Time Brown Barge Obs

ACTIVITY ID: 11JNRTBRG_02-
START TIME: 97-310/14:13:34.400

Activity ID: Orbit 11 Target J Inst N OAPEL RTBRG_ SeqNo 02 -

Title	NIMS Real-Time Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date 11/06/97 Week 45
Start	JEE-CDS 00000621:13:0	97-310/14:13:34.400	JEE-000/10:28:02.666
End	JEE-CDS 00000611:00:0	97-310/14:23:49.733	JEE-000/10:17:47.333
Duration	00000010:13:0	000/00:10:15.333	000/00:10:15.333

Top Label 11JNRTBRG_02-
Bottom Label

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

Observation Objective

To observe the Brown Barge feature in real-time.

Data Returned

Design Detail

Long map, Nyquist sampling. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has large uncertainty of 40-65 degrees. Range is 10.4 Rj, incidence angle is 89.0 degrees, emission angle is 40.4 degrees. Assume one RIMS of targetting.

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

Long Map (LM), Gain 2, Grating Start 0, R/T, E11JLM442/MB

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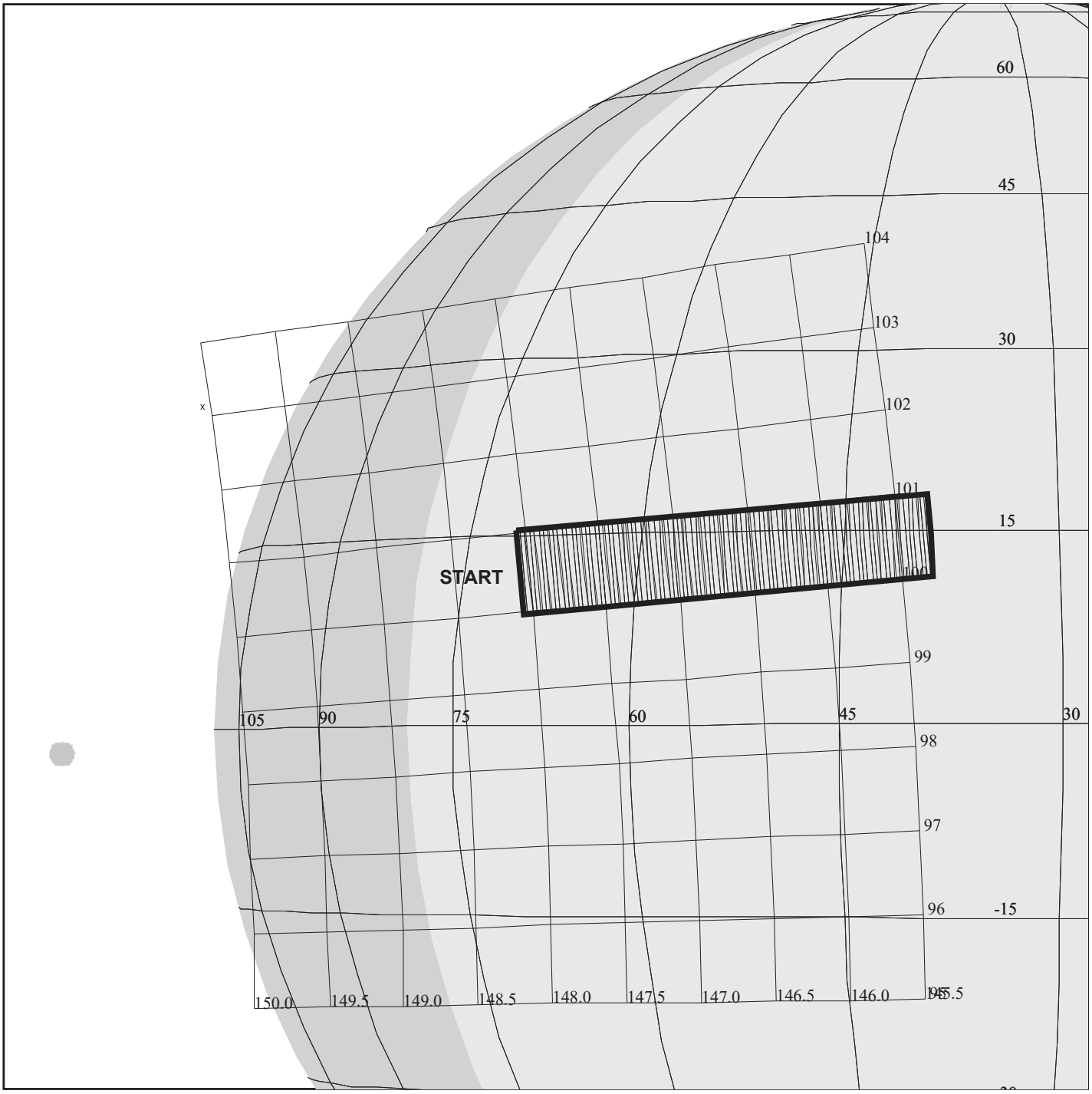

165EC:TT= 0 TMC= 1 C= 26.50 XC= 0.00 BS= 0/3333 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=283.28 DEC50=-23.19 cone=148.10 clock=100.51
117EC:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3333
1:#s= 1 Cs= -46.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1270 rD= 2

11JNBRG04203

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG04203

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 603:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:11JNBRG04203 **DESCRIP:BROWN_BARGE_OBS_42_DEG_PHASE**

Brown Barge Observation 42 deg phase ACTIVITY ID: 11JNBRG04203-
START TIME: 97-310/14:29:53.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG042 SeqNo 03 -

Title	Brown Barge Observation 42 deg phase		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45
Start	JEE-CDS 00000605:00:0	97-310/14:29:53.733		JEE-000/10:11:43.333	
End	JEE-CDS 00000596:00:0	97-310/14:38:59.733		JEE-000/10:02:37.333	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	11JNBRG04203-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	160	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of five OAPels constituting observations of the Brown Barge feature of 42 degrees phase angle.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 9.8 Rj, NIMS IFOV = 360 km. Nominal incidence angle is 60.9 degrees, emission angle is 22.4 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

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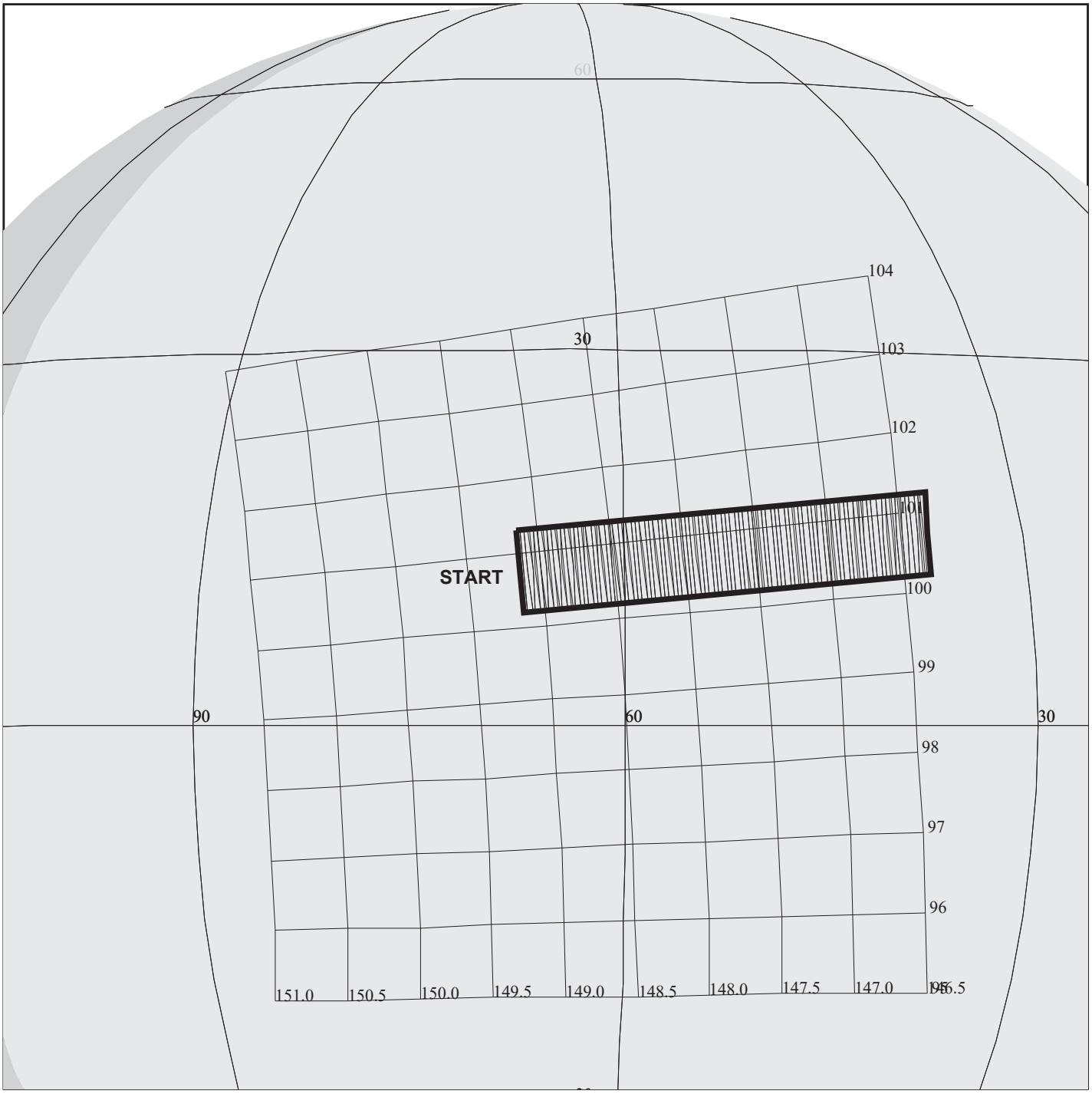

165ED:TT= 0 TMC= 1 C= 26.50 XC= 0.00 BS= 0/3161 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=284.37 DEC50=-23.04 cone=149.11 clock=100.74
117ED:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3161
1:#s= 1 Cs= -46.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1270 rD= 2

11JNBRG04204

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG04204

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 549:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:11JNBRG04204 **DESCRIP:BROWN_BARGE_OBS_42_DEG_PHASE**

Brown Barge Observation 42 deg phase ACTIVITY ID: 11JNBRG04204-
START TIME: 97-310/15:24:29.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG042 SeqNo 04 -

Title	Brown Barge Observation 42 deg phase		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45
Start	JEE-CDS 00000551:00:0	97-310/15:24:29.733		JEE-000/09:17:07.333	
End	JEE-CDS 00000542:00:0	97-310/15:33:35.733		JEE-000/09:08:01.333	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	11JNBRG04204-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	160	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of five OAPels constituting observations of the Brown Barge feature at 42 degrees phase. Observation acquired near central meridian.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 9.7 Rj, NIMS IFOV approximately 350 km. Nominal incidence angle is 30.2 degrees, emission angle is 21.0 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

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Test of special load

ACTIVITY ID: 11NNLDTEST01-
START TIME: 97-310/16:41:20.400

Activity ID: Orbit 11 Target N Inst N OAPEL LDTEST SeqNo 01 -

Title	Test of special load			Instrument	NIMS
Requestor	NIMS-SWG/m. segura	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	11/06/97	Week 45
Start	JEE-CDS 00000475:00:0	97-310/16:41:20.400		JEE-000/08:00:16.666	
End	JEE-CDS 00000471:00:0	97-310/16:45:23.066		JEE-000/07:56:14.000	
Duration	00000004:00:0	000/00:04:02.666		000/00:04:02.666	

Top Label	11NNLDTEST01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

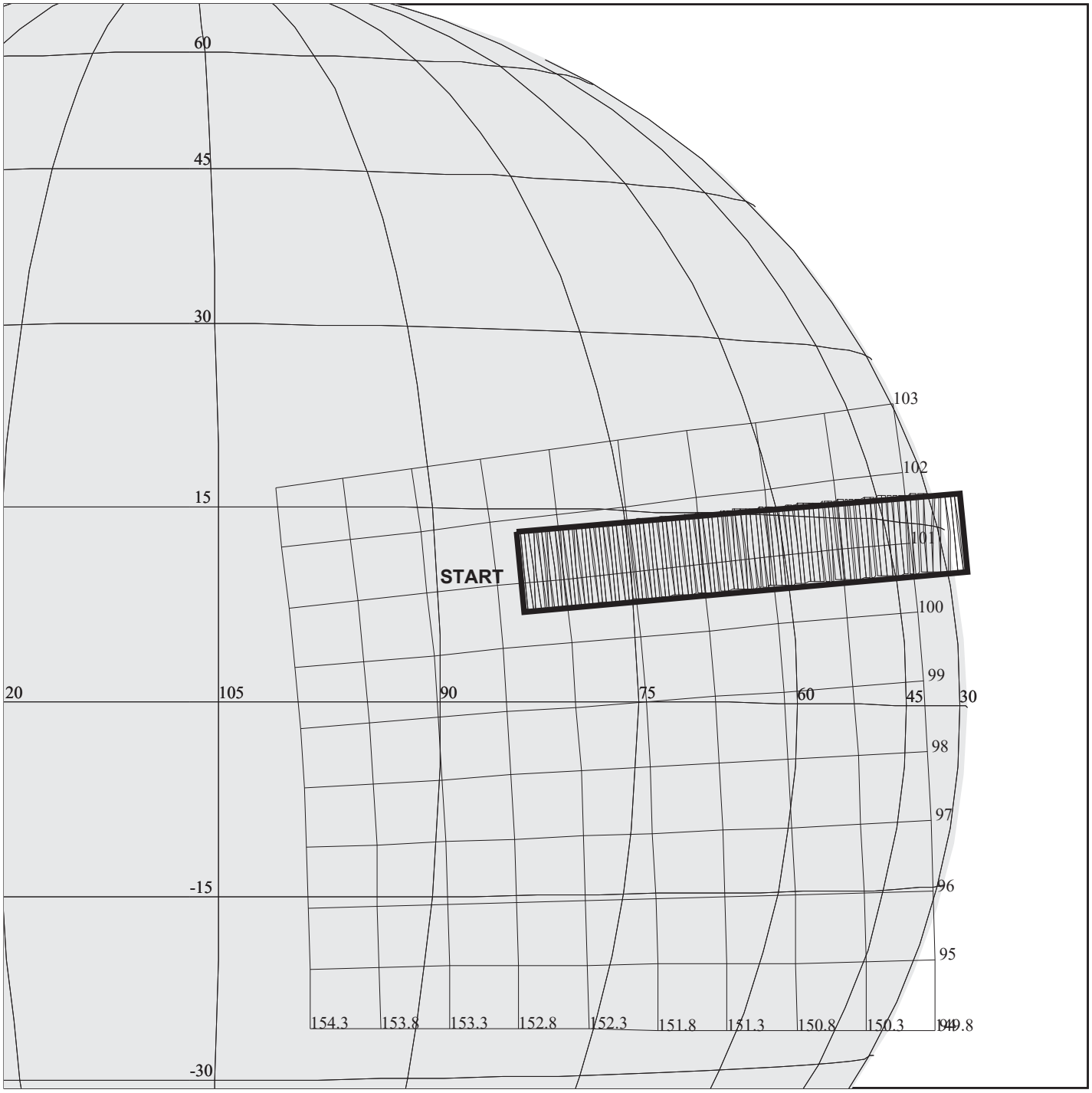
This Test Load loads the NIMS software in a much shorter time
than the nominal time.
This is being tested for use during GEM.

Design Detail

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

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

Galileo Activity Plan Form 09/25/97 15:50:00 rev 6/95



165EE:TT= 0 TMC= 1 C= 41.00 XC= 0.00 BS= 0/7903 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=288.12 DEC50=-22.72 cone=152.58 clock=101.18
117EE:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7903
1:#s= 1 Cs= -46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG04205

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG04205

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 468:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:11JNBRG04205 **DESCRIP:BROWN_BARGE_OBS_42_DEG_PHASE**

Brown Barge Observation 42 deg phase ACTIVITY ID: 11JNBRG04205-
START TIME: 97-310/16:46:23.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG042 SeqNo 05 -

Title	Brown Barge Observation 42 deg phase		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45
Start	JEE-CDS 00000470:00:0	97-310/16:46:23.733		JEE-000/07:55:13.333	
End	JEE-CDS 00000461:00:0	97-310/16:55:29.733		JEE-000/07:46:07.333	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	11JNBRG04205-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	160	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fifth of five OAPels constituting observations of the Brown Barge feature at 42 degrees phase angle. Observation acquired near bright limb.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 9.7 Rj, NIMS IFOV = 345 km. Nominal incidence angle is 26.2 degrees, emission angle is 63.8 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:00 rev 6/95

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD07- / START TIME: 97-310/17:59:11.734

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 07 -

Title	NIMS Real-Time Software Reload	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 11/06/97 Week 45
Start	EEE-CDS 151:00:0	97-310/17:59:11.734	EEE-000/02:32:40.666
End	EEE-CDS 141:00:0	97-310/18:09:18.400	EEE-000/02:22:34.000
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 11NNRELOAD07-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

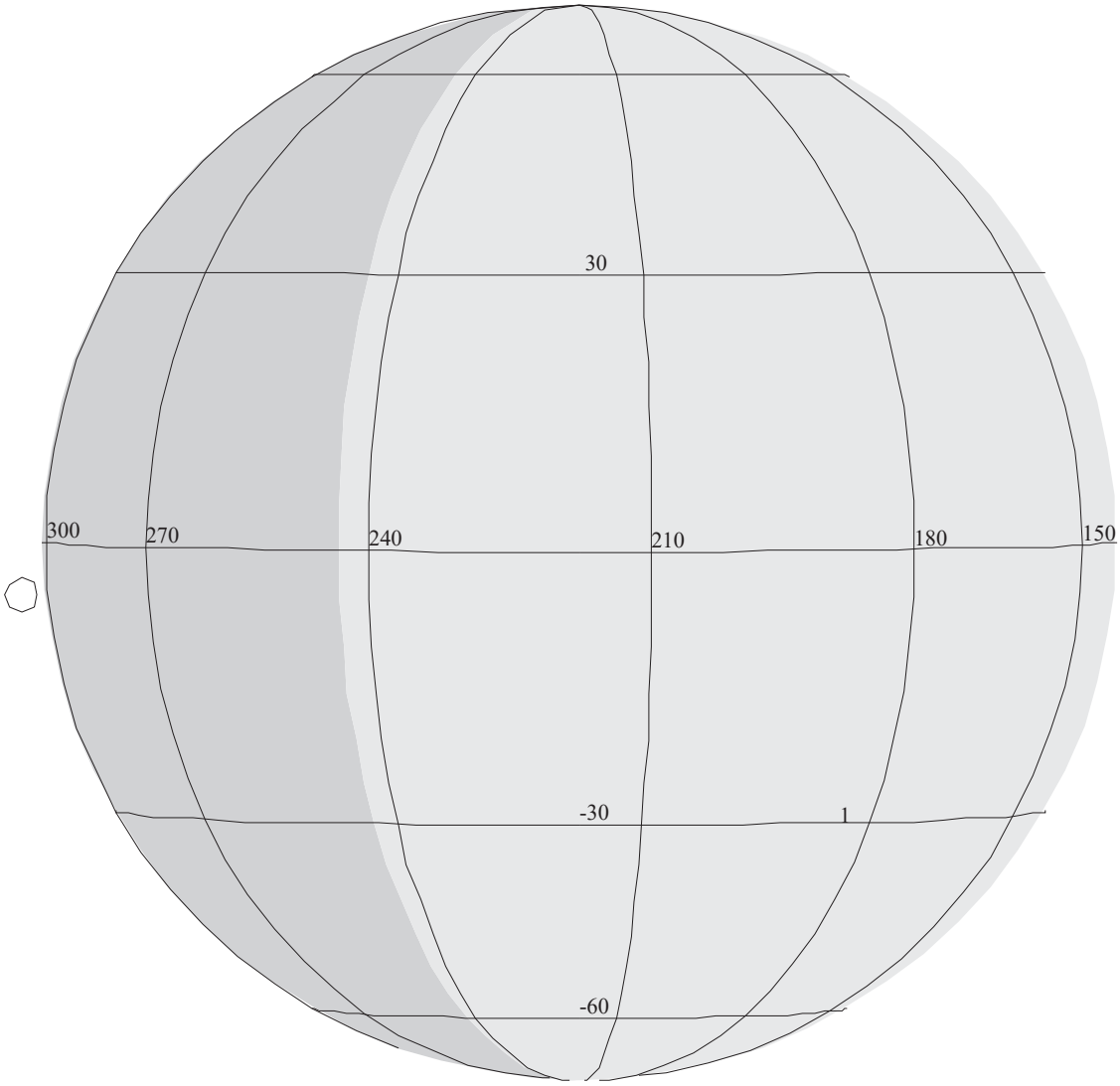
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

Galileo Activity Plan Form 09/25/97 15:50:00 rev 6/95



165GD:TT= 0 TMC= 1 C= 4.00 XC= 0.00 BS= 0/9733 TC= 1(30 297)
A= 728 pD= 9646 SR=17.450 RA50=261.03 DEC50=-25.07 cone=127.89 clock= 96.64
117GD:#SB= 3 OR= 0.300 RR=12.000 BM=F RC= 1 BS= 0/9733
1:#s= 20 Cs= -16.00 XCs= 0.00 Cr= 16.10 XCr= -1.00 sD= 172 rD= 28
2:#s= 1 Cs= 0.00 XCs= 0.00 Cr= 18.00 XCr= -20.00 sD= 16 rD= 32
3:#s= 15 Cs= 21.00 XCs= 0.00 Cr= -21.00 XCr= 1.00 sD= 218 rD= 30

11NNHEALTH01

DESIGN G3.2 jdods: 9/22/1997 10:44:17

FILE:P.11EPHOTSPT01

TARGET BODY : EUROPA

MINI:m.11EPHOTSPT01

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING: :PPR 1

START:EEE 97-310/20:31:52.400 -CDS 156:00:0

BODY PLOT TIME:TARGET-TIME D= 9646 S= 0.800

OBSERVATION:11EPHOTSPT01

DESCRIP:Europa_Hot_Spots_01

NIMS Health Observation

ACTIVITY ID: 11NNHEALTH01-
START TIME: 97-310/18:09:18.400

Activity ID: Orbit 11 Target N Inst N OAPEL HEALTH SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45
Start	JEE-CDS 00000388:00:0	97-310/18:09:18.400		JEE-000/06:32:18.666	
End	JEE-CDS 00000382:00:0	97-310/18:15:22.400		JEE-000/06:26:14.666	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	11NNHEALTH01-				
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

To observe the health and state of the NIMS instrument.

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 of Jupiter for a target.

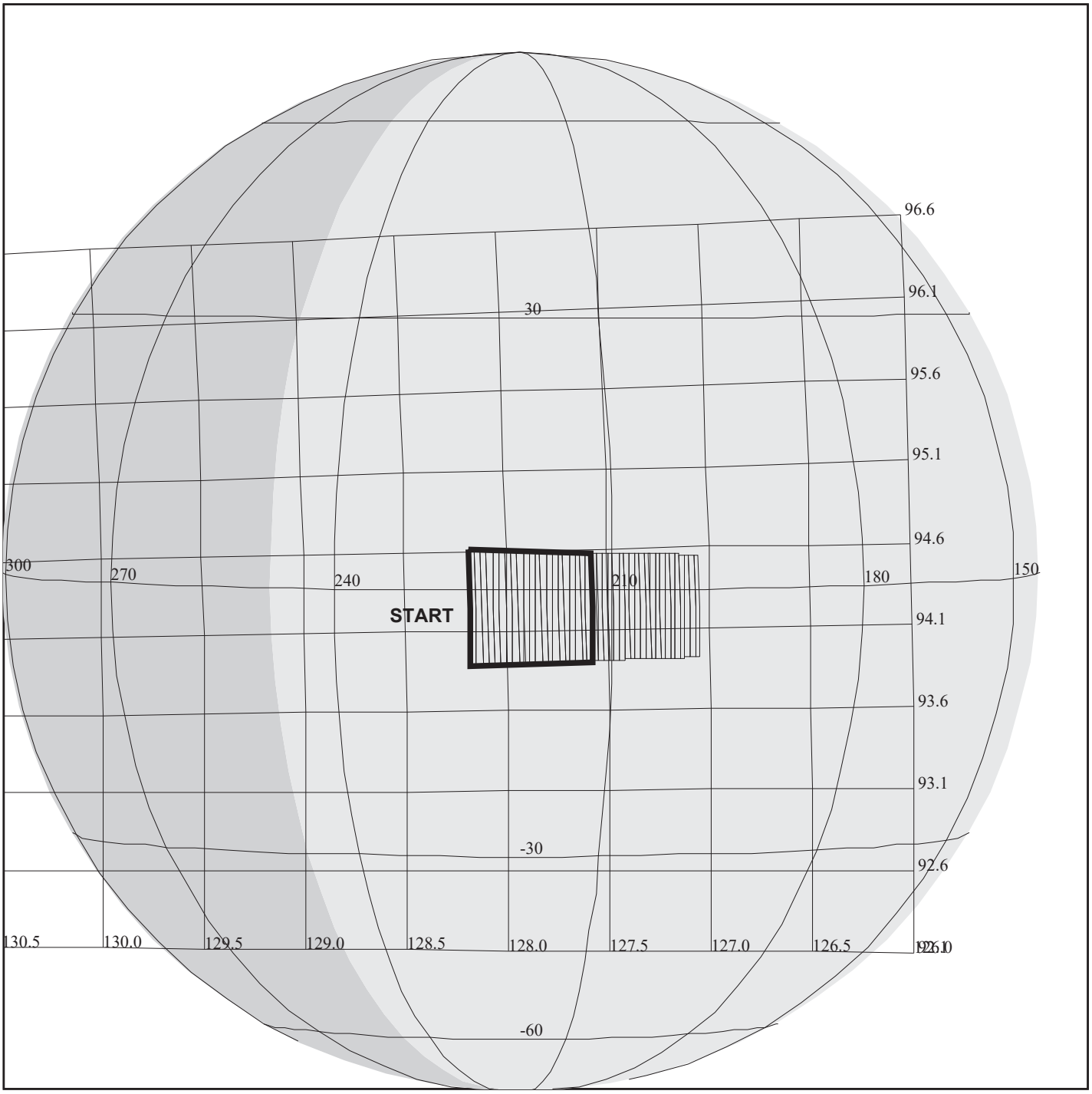
Data Returned

Design Detail

No scan platform commanding.
The scan platform is at the end of the slew of the previous observation: 11EPHOTSPT01

Long Map (LM), Gain 2, Grating Start 0, R/T, E11RCVY3

Galileo Activity Plan Form 09/25/97 15:50:00 rev 6/95



165EJ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9743 TC= 1(-2 225)
A= 182 pD= 2184 SR=17.450 RA50=261.17 DEC50=-27.00 cone=128.17 clock= 94.21
117EJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9743
1:#s= 1 Cs= -21.70 XCs= 0.00 Cr= 21.50 XCr= -7.00 sD= 2184 rD= 20

11ENDRKLIT01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENDRKLIT01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-310/20:31:52.400 -CDS 101:00:0 **BODY PLOT TIME:TARGET-TIME D= 2184 S= 1.000**

OBSERVATION:11ENDRKLIT01 **DESCRIP:Europa_Pwyll_Mosaic**

EUROPA Dark Mosaic

ACTIVITY ID: 11ENDRKLIT01-
START TIME: 97-310/18:46:43.067

Activity ID: Orbit 11 Target E Inst N OAPEL DRKLIT SeqNo 01 -

Title	EUROPA Dark Mosaic			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date 11/06/97 Week 45
Start	EEE-CDS 00000104:00:0	97-310/18:46:43.067	EEE-000/01:45:09.333
End	EEE-CDS 00000088:00:0	97-310/19:02:53.734	EEE-000/01:28:58.666
Duration	00000016:00:0	000/00:16:10.667	000/00:16:10.667

Top Label 11ENDRKLIT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Target to latitude -2 degrees and West longitude 225 degrees covering the area of the Pwyll impact crater, pull apart bands and bright and dark plains. This observation has been coordinated with SSI.

Data Returned

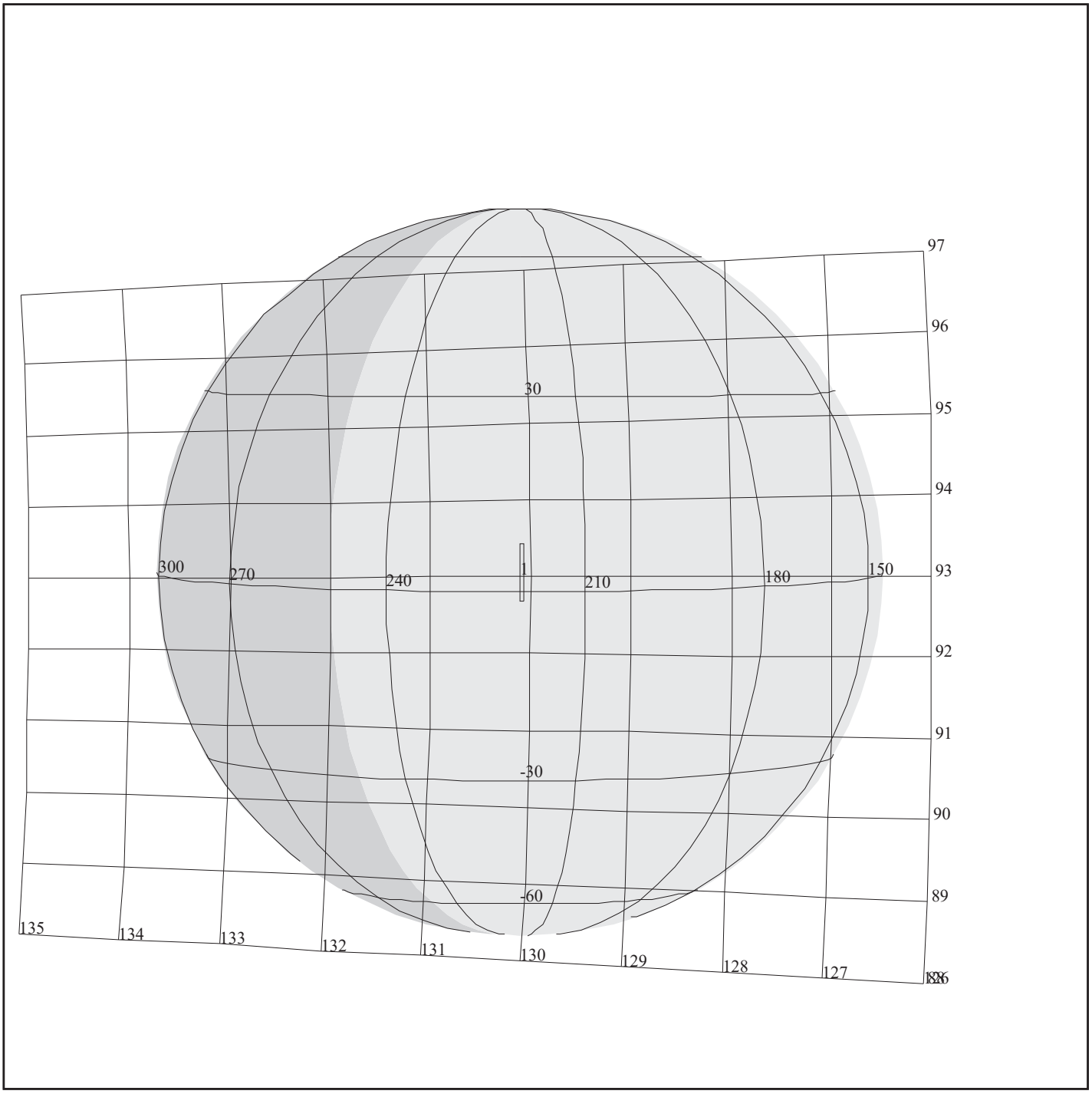
Design Detail

DISTANCE: 29,430	MODE: LONG MAP	TRACKS 0.0188
PHASE:	SLEW RATE: 110 MR/S	LONG SPAN: 210-250
CONE:	% OVERLAP: 50	LAT SPAN: N/S 5 DEG
WAVELENGTHS: 398	NUM STRIPS: 1	COVERAGE: 30%
RESOLUTION: 15 KM/PIX	NIMS F.O.V./STRIP: 25	SUB S/C LONG: 216 DEG
BOOMS: NOT IN F.O.V.	DMS MODE: 7.68	SUB S/C LAT: +1.04 DEG
ASD: 0.897 DEG	AREA COV. IN PIX: 968	GAIN: 3
INCID ANGLE: 67-43 DEG	EMM ANGLE: 14-69 DEG	TLM:LPU

Observation has one RIM for targetting; CSMOS is 12 RIMS.

Only first half of swath returned.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ELM243C, E11CLM228C



165El:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/5203 TC= 3
A= 728 pD= 182 SR=17.450 RA50=263.30 DEC50=-27.98 cone=130.10 clock= 93.07
117El:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5203
1:#s= 1 Cs= -1.75 XCs= 0.00 Cr= 12.00 XCr= -4.00 sD= 182 rD= 20

11ENEURORT01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENEURORT01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 7

START:EEE 97-310/20:31:52.400 -CDS 71:00:0

BODY PLOT TIME:TARGET-TIME D= 182 S= 0.700

OBSERVATION:11ENEURORT01

DESCRIP:NIMS_Europa_Real_Time_Obs

NIMS Europa Real-Time Observation

ACTIVITY ID: 11ENEURORT01-
START TIME: 97-310/19:15:01.734

Activity ID: Orbit 11 Target E Inst N OAPEL EURORT SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date 11/06/97 Week 45
Start	EEE-CDS 00000076:00:0	97-310/19:15:01.734	EEE-000/01:16:50.666
End	EEE-CDS 00000069:00:0	97-310/19:22:06.400	EEE-000/01:09:46.000
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label 11ENEURORT01-
Bottom Label

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

Observation Objective

To observe Europa in real-time.

Data Returned

Design Detail

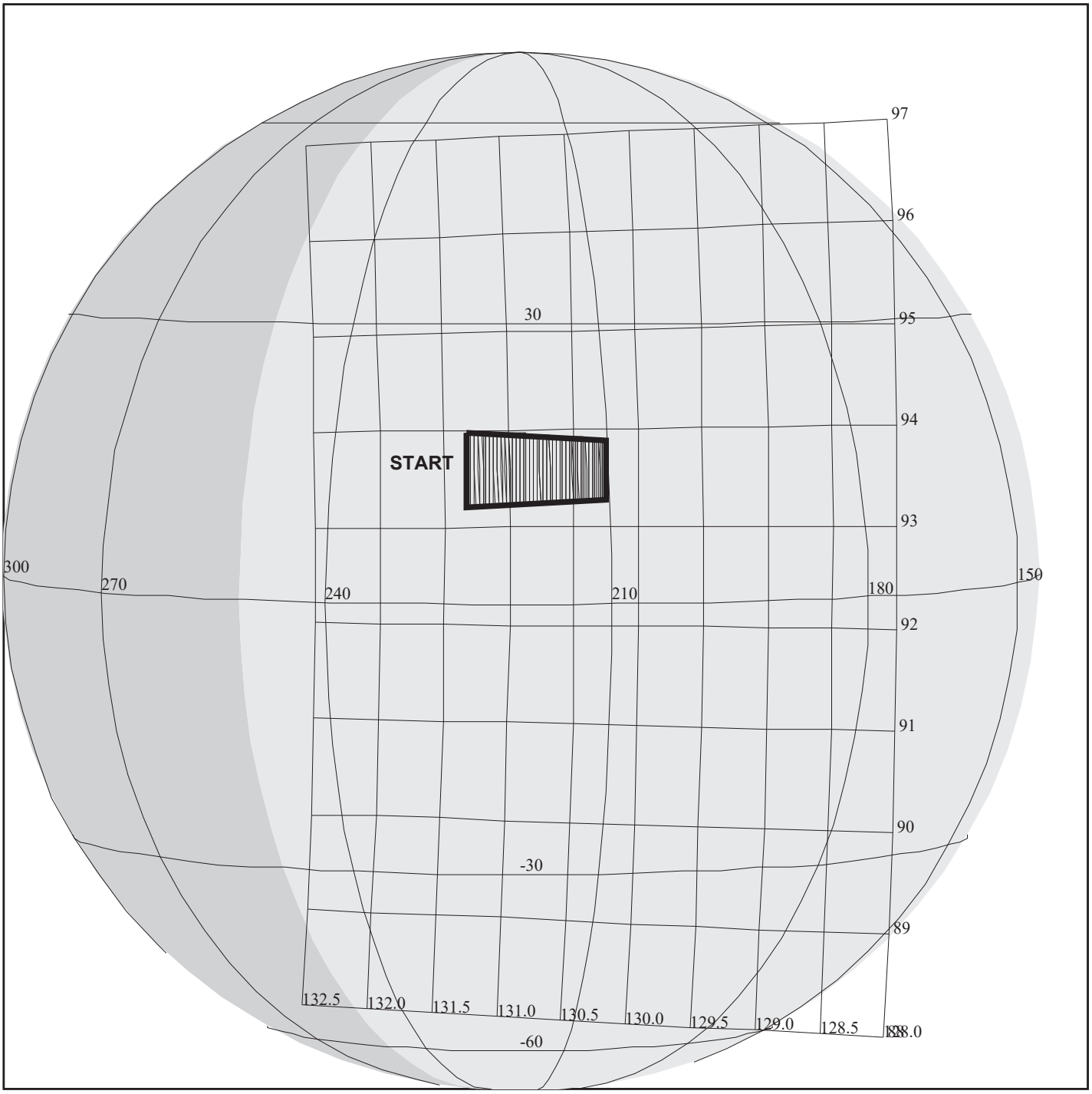
TLM = R/T
Mode = LM
Gain = 3
Resolution = 11 km
Latitude = 2 degrees
West longitude = 219 degrees

S/C Range = 22815 km
No. of strips = 1
Percentage overlap = 50%
Cone angle = 130 deg.

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

Long Map (LM), Gain 4, Grating Start 0, R/T, E11ELM442/MB

Galileo Activity Plan Form 09/25/97 15:50:00 rev 6/95



165EK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6477 TC= 1(14 225)
A= 182 pD= 2184 SR=17.450 RA50=264.69 DEC50=-27.61 cone=131.32 clock= 93.60
117EK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6477
1:#s= 1 Cs= -21.70 XCs= 0.00 Cr= 21.50 XCr= -7.00 sD= 2184 rD= 20

11ENCYCLOD01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENCYCLOD01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 97-310/20:31:52.400 -CDS 64:00:0

BODY PLOT TIME:TARGET-TIME D= 2184 S= 1.000

OBSERVATION:11ENCYCLOD01

DESCRIP:Europa_Cyclodial_Observation

EUROPA CYCLODIAL OBSERVATION

ACTIVITY ID: 11ENCYCLOD01-
START TIME: 97-310/19:25:08.400

Activity ID: Orbit 11 Target E Inst N OAPEL CYCLOD SeqNo 01 -

Title	EUROPA CYCLODIAL OBSERVATION			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45
Start	EEE-CDS 00000066:00:0	97-310/19:25:08.400		EEE-000/01:06:44.000	
End	EEE-CDS 00000048:00:0	97-310/19:43:20.400		EEE-000/00:48:32.000	
Duration	00000018:00:0	000/00:18:12.000		000/00:18:12.000	

Top Label 11ENCYCLOD01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Targetted to latitude 14 degrees and West longitude 225 degrees to observe cyclodial and triple bands. This observation has been coordinated with SSI.

Data Returned

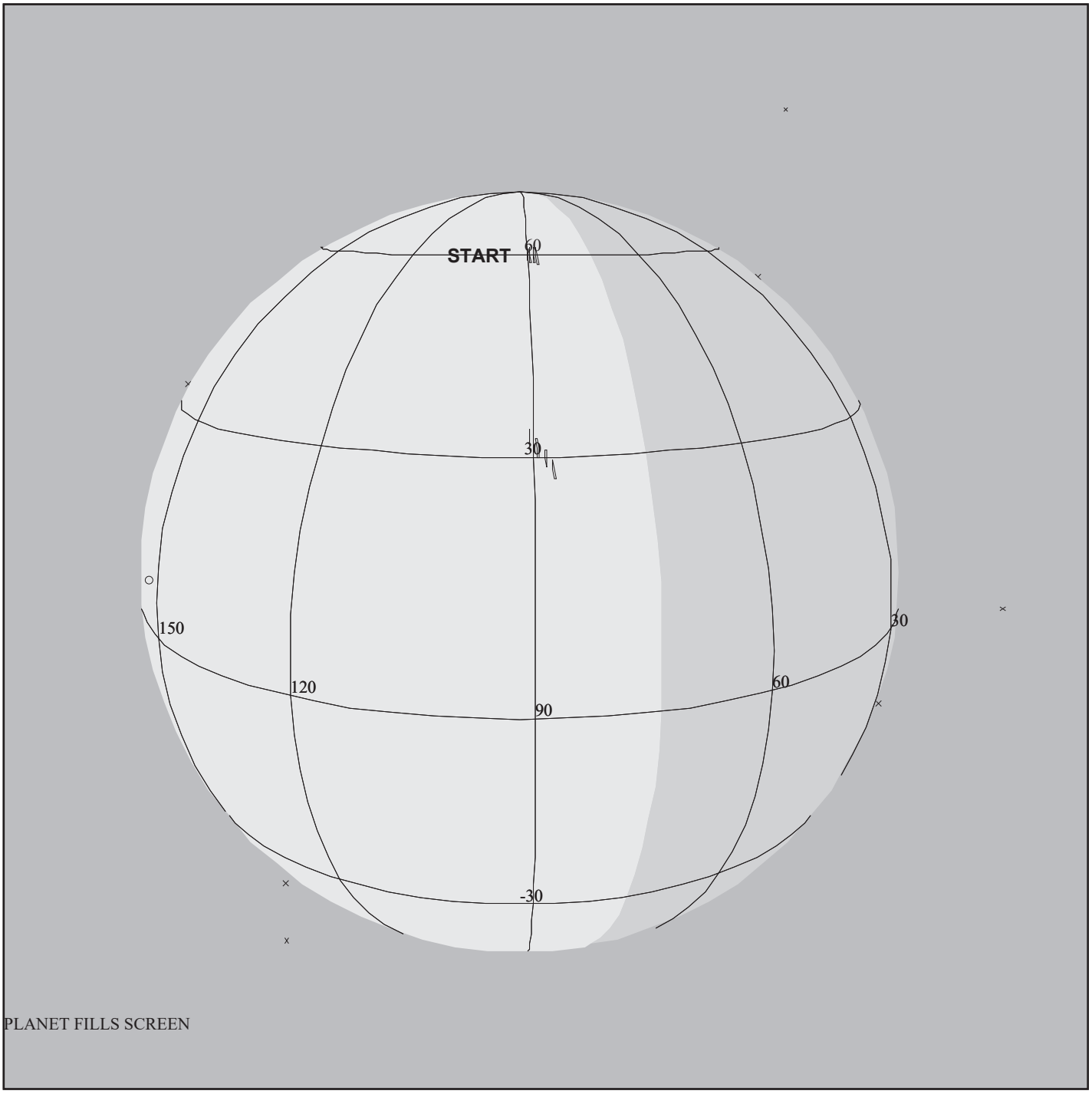
Design Detail

DISTANCE: 16,800 KM	MODE: LONG MAP	TRACKS:0.047
PHASE: 67.3 DEG	SLEW RATE: 110 MR/S	LONG SPAN: 211 - 224 DEG
CONE: 131 DEG	% OVERLAP: 50	LAT SPAN: 14 -13 DEG
NO. WAVELENGTHS: 204	NUM STRIPS: 1	COVERAGE: 0.01%
RESOLUTION: 8.4 KM/PIX	NIMS F.O.V./STRIP: 50	SUB S/C LONG: 232 DEG
BOOMS: NOT IN F.O.V.	DMS MODE: 7.68	SUB S/C N LAT: +6.64 DEG
ASD: 4.33 DEG	AREA COV IN PIX: 1208	TLM:LPU
INCID ANGLE:	EMM ANGLE:	

GAIN: 3 Observation has one RIM for targetting; CSMOS is 12 RIMS.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ELM243C, E11CLM228C

Galileo Activity Plan Form 09/25/97 15:50:00 rev 6/95



PLANET FILLS SCREEN

165CM:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0127 TC= 1(60 90)
A= 182 pD= 2730 SR=17.450 RA50= 35.31 DEC50= 13.43 cone= 96.58 clock=277.41
117CA:#SB= 3 OR= 0.030 RR=17.000 BM=F RC= 1 BS= 0/0127
1:#s= 1 Cs= 5.37 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 546 rD= 16
2:#s= 1 Cs= 6.60 XCs= 0.00 Cr= -20.00 XCr= 110.00 sD= 668 rD= 60
3:#s= 1 Cs= 6.70 XCs= 0.00 Cr= -20.00 XCr= 100.00 sD= 678 rD= 50

11ENLEADRT01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11EULEAD__01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:EEE 97-310/20:31:52.400 +CDS 11:00:0

BODY PLOT TIME:TARGET-TIME D= 2730 S= 0.700

OBSERVATION:11EULEAD__01

DESCRIP:UVS_Leading_Hemisphere

NIMS Europa Leading Hemisphere Obs ACTIVITY ID: 11ENLEADRT01+
START TIME: 97-310/20:36:55.733

Activity ID: Orbit 11 Target E Inst N OAPEL LEADRT SeqNo 01 +

Title	NIMS Europa Leading Hemisphere Obs	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 11/06/97	Week 45
Start	EEE+CDS 00000005:00:0	97-310/20:36:55.733	EEE+000/00:05:03.333	
End	EEE+CDS 00000024:00:0	97-310/20:56:08.400	EEE+000/00:24:16.000	
Duration	00000019:00:0	000/00:19:12.667	000/00:19:12.667	

Top Label 11ENLEADRT01+
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	130	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

NIMS Europa ride-along observation with UVS to observe 90 degrees West longitude that has never been observed before at high resolution. This observation will serve for preparation to I25.

Data Returned

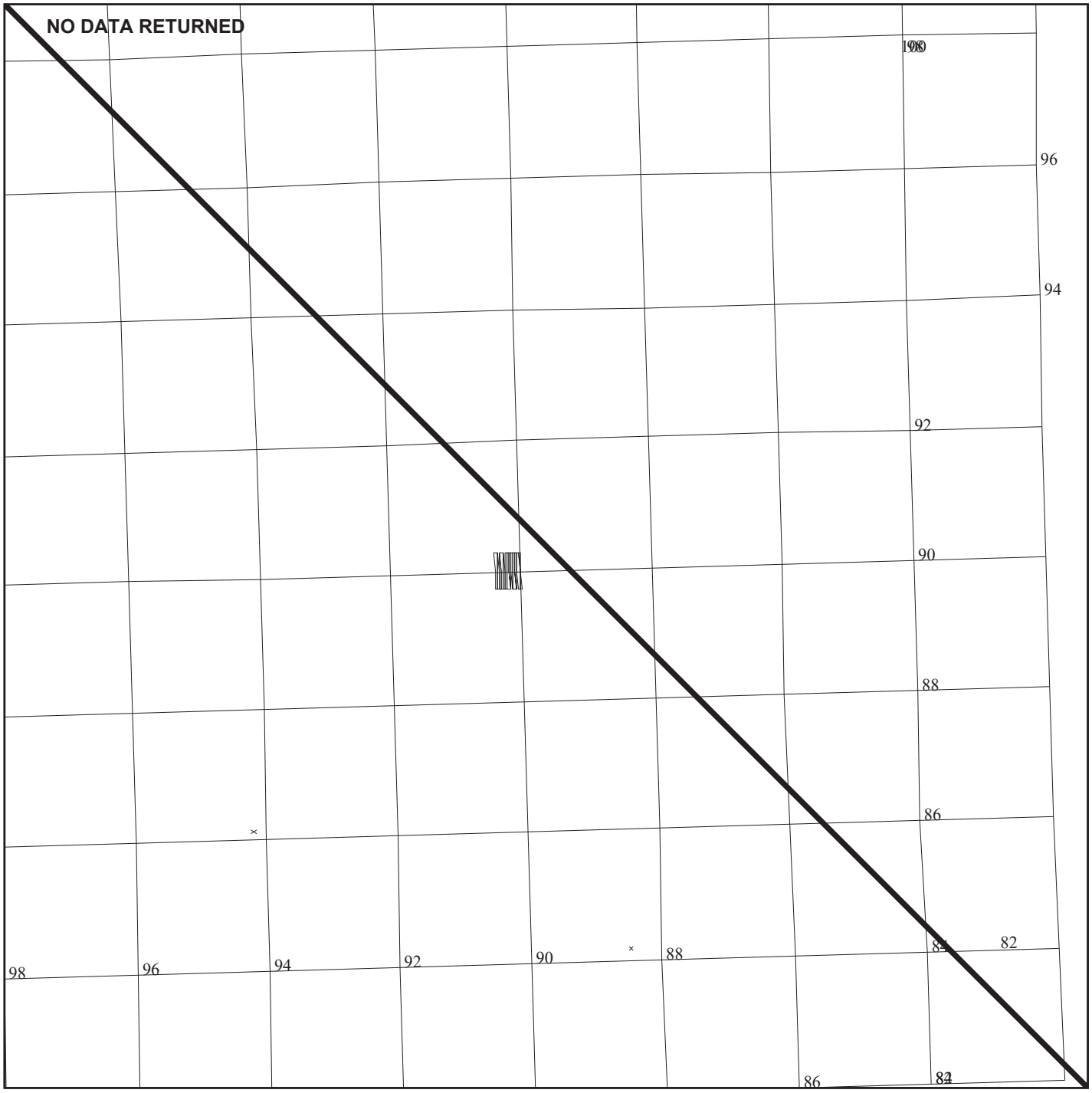
Design Detail

Instrument mode = LM Gain State = 3, 4

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

Long Map (LM), Gain 4, Grating Start 0, R/T, E11ELM442/MB

Galileo Activity Plan Form 09/25/97 15:50:00 rev 6/95



165EG:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9975 TC= 2(90 90)
A= 728 pD= 0 SR=17.450 RA50=218.97 DEC50=-22.70 cone= 90.00 clock= 90.00
117EG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9975
1:#s= 1 Cs= 6.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

11HNDARK__02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11HNDARK__02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 72:00:0

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

OBSERVATION:11HNDARK__02

DESCRIP:NIMS_Dark_Observation

NIMS Dark Observation

ACTIVITY ID: 11HNDARK__02-
START TIME: 97-310/23:23:45.733

Activity ID: Orbit 11 Target H Inst N OAPEL DARK__ SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45
Start	JEE-CDS 00000077:00:0	97-310/23:23:45.733		JEE-000/01:17:51.333	
End	JEE-CDS 00000071:00:0	97-310/23:29:49.733		JEE-000/01:11:47.333	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	11HNDARK__02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation

Obtain 1 Rim of dark sky data.

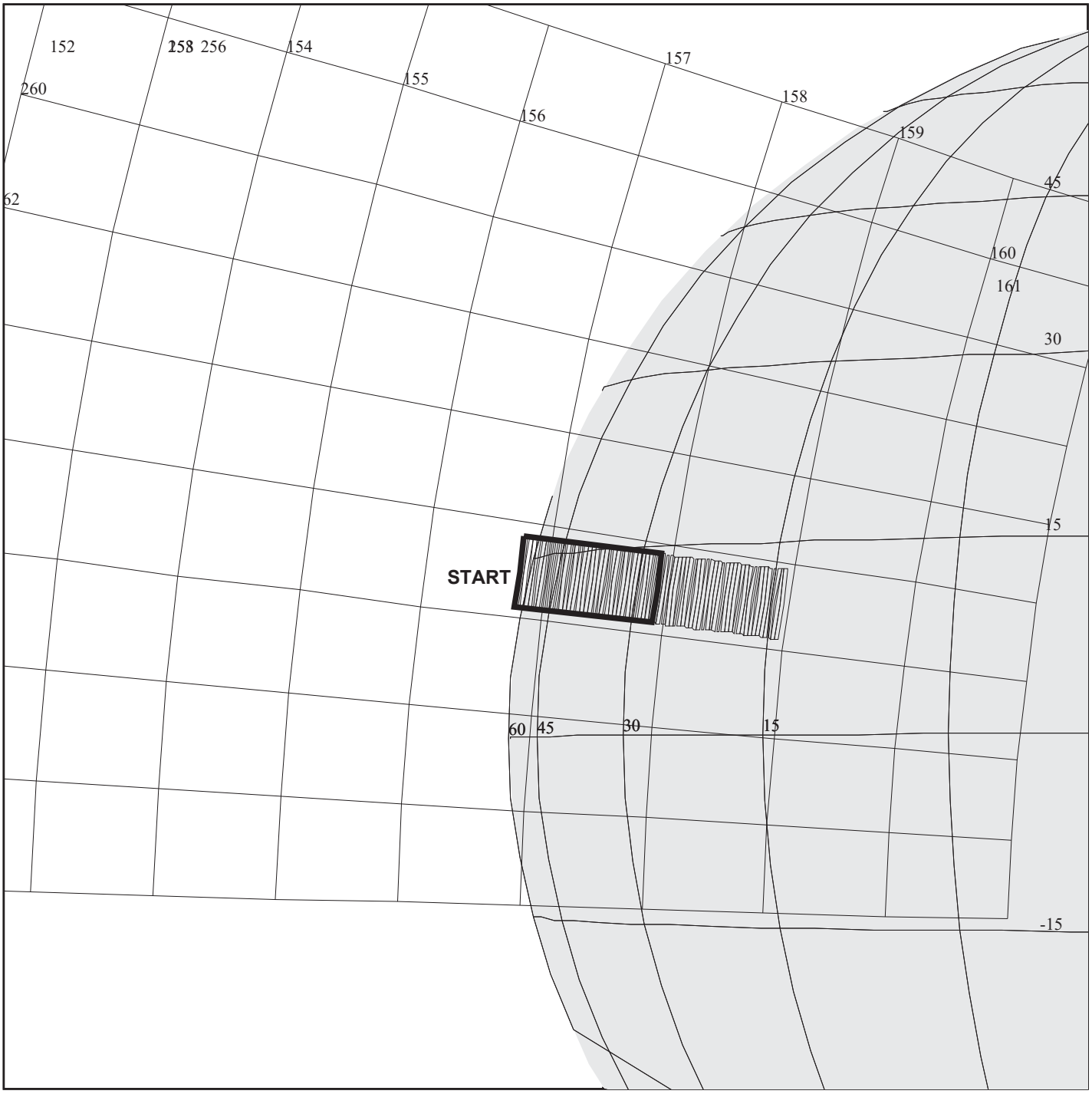
No Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 Rim.

Long Map (LM), Gain 2, Grating Start 0, LPU, E11DRK252, E11DRK32

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165EO:TT= 0 TMC= 1 C= -2.30 XC= 0.00 BS= 0/8711 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50=337.99 DEC50= -7.45 cone=156.78 clock=267.04
117EO:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8711
1:#s= 1 Cs= 33.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNBRG02001

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG02001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 24:00:0

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

OBSERVATION:11JNBRG02001

DESCRIP:BROWN_BARGE_OBS_20_DEG_PHASE

Brown Barge Obs 20 deg phase

ACTIVITY ID: 11JNBRG02001-
START TIME: 97-311/00:12:17.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG020 SeqNo 01 -

Title	Brown Barge Obs 20 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	JEE-CDS 00000029:00:0	97-311/00:12:17.733		JEE-000/00:29:19.333	
End	JEE-CDS 00000019:00:0	97-311/00:22:24.400		JEE-000/00:19:12.666	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label	11JNBRG02001-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of six OAPels constituting the Brown Barge feature at 20 degrees phase. Brown Barge imaged near bright limb.

Data Returned

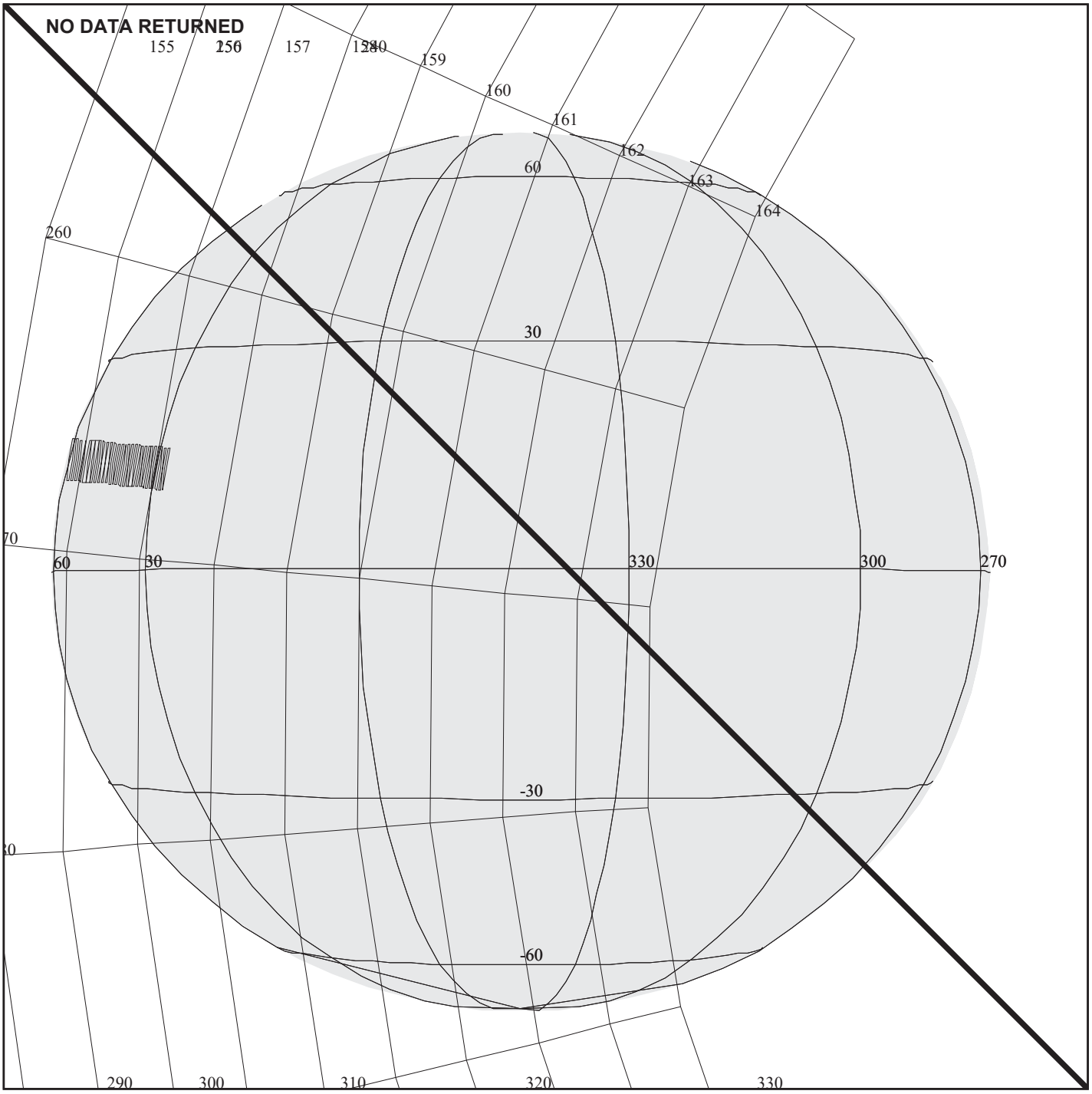
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.7 Rj, NIMS IFOV = 300km. Nominal incidence angle is 69 degrees, emission angle 83 degrees.

Only first half of swath recorded and returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165KM:TT= 0 TMC= 1 C= -10.00 XC= 0.00 BS= 0/0531 TC= 1(14 40)
A= 364 pD= 0 SR=17.450 RA50=338.73 DEC50= -6.95 cone=155.89 clock=266.94
117KM:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0531
1:#s= 1 Cs= 14.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1456 rD= 2

11JNRTBRG_03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNRTBRG_03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 14:00:0

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

OBSERVATION:11JNRTBRG_03

DESCRIP:NIMS_Real_Time_Brown_Barge

NIMS Real-Time Brown Barge Obs ACTIVITY ID: 11JNRTBRG_03-
START TIME: 97-311/00:23:25.066

Activity ID: Orbit 11 Target J Inst N OAPEL RTBRG_ SeqNo 03 -

Title	NIMS Real-Time Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	JEE-CDS 00000018:00:0	97-311/00:23:25.066		JEE-000/00:18:12.000	
End	JEE-CDS 00000008:00:0	97-311/00:33:31.733		JEE-000/00:08:05.333	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label	11JNRTBRG_03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To observe the Brown Barge feature in real-time.

No Data Returned - Data lost in transmission.

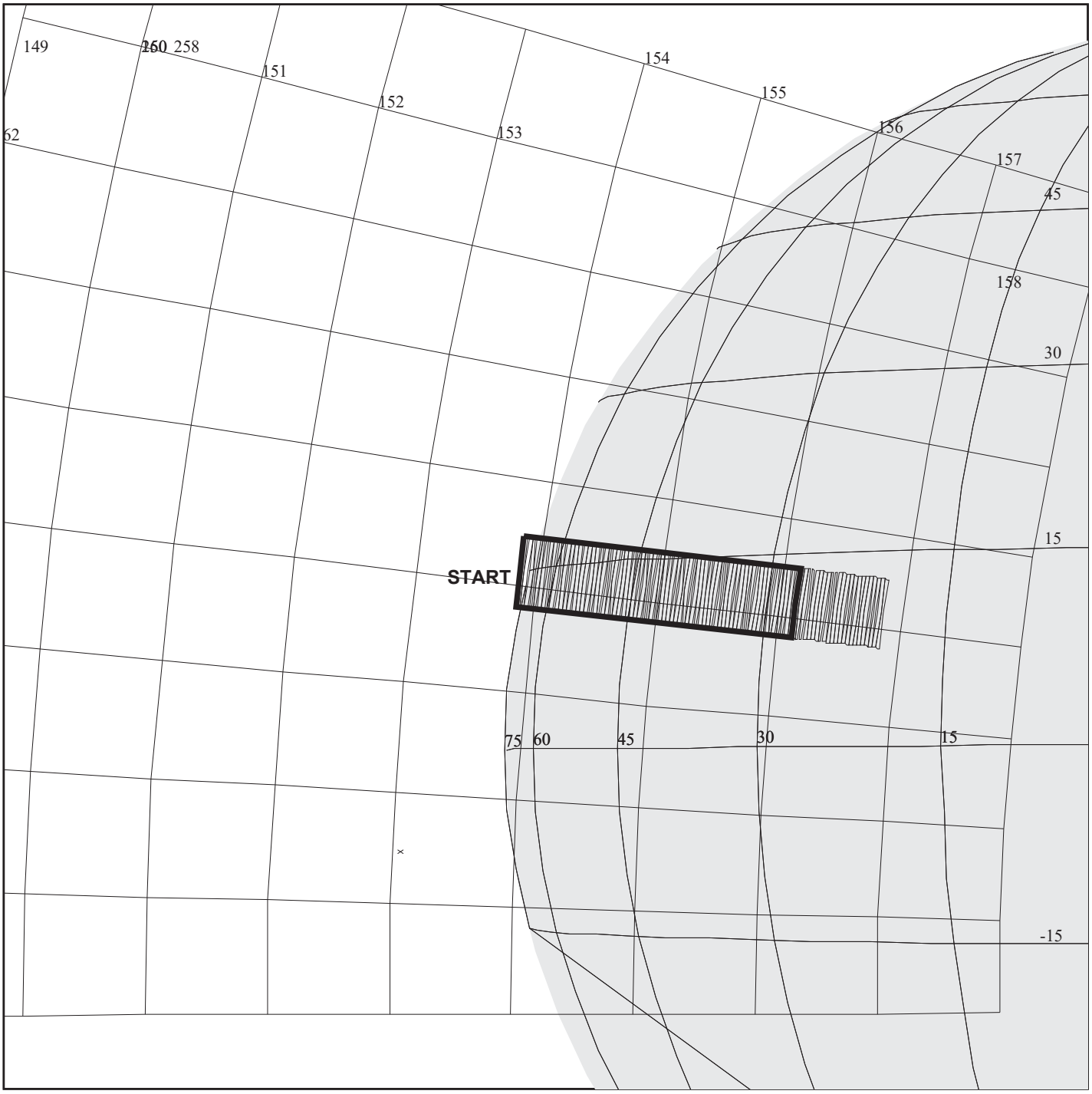
Design Detail

Long map, Nyquist sampling. Location is 52 degrees West longitude,
14 degrees North latitude. Barge location has a large uncertainty
of 40-65 degrees West longitude.
Range is 8.9 Rj, incidence angle is 73.5 degrees,
emission angle is 85.6 degrees. Assume one RIM of targetting.

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

Long Map (LM), Gain 2, Grating Start 0, R/T, E11JLM442/MB

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165EP:TT= 0 TMC= 1 C= -10.00 XC= 0.00 BS= 0/3989 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=340.66 DEC50= -6.16 cone=153.85 clock=267.75
117EP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3989
1:#s= 1 Cs= 46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG02002

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG02002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 05:00:0

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

OBSERVATION:11JNBRG02002

DESCRIP:BROWN_BARGE_OBS_20_DEG_PHASE

Brown Barge Obs 20 deg phase

ACTIVITY ID: 11JNBRG02002-
START TIME: 97-311/00:44:39.066

Activity ID: Orbit 11 Target J Inst N OAPEL BRG020 SeqNo 02 -

Title	Brown Barge Obs 20 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	JEE+CDS 00000003:00:0	97-311/00:44:39.066		JEE+000/00:03:02.000	
End	JEE+CDS 00000012:00:0	97-311/00:53:45.066		JEE+000/00:12:08.000	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	11JNBRG02002-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of six OAPels constituting observations of the Brown Barge feature at 20 degrees phase. Observations of Brown Barge acquired near bright limb.

Data Returned

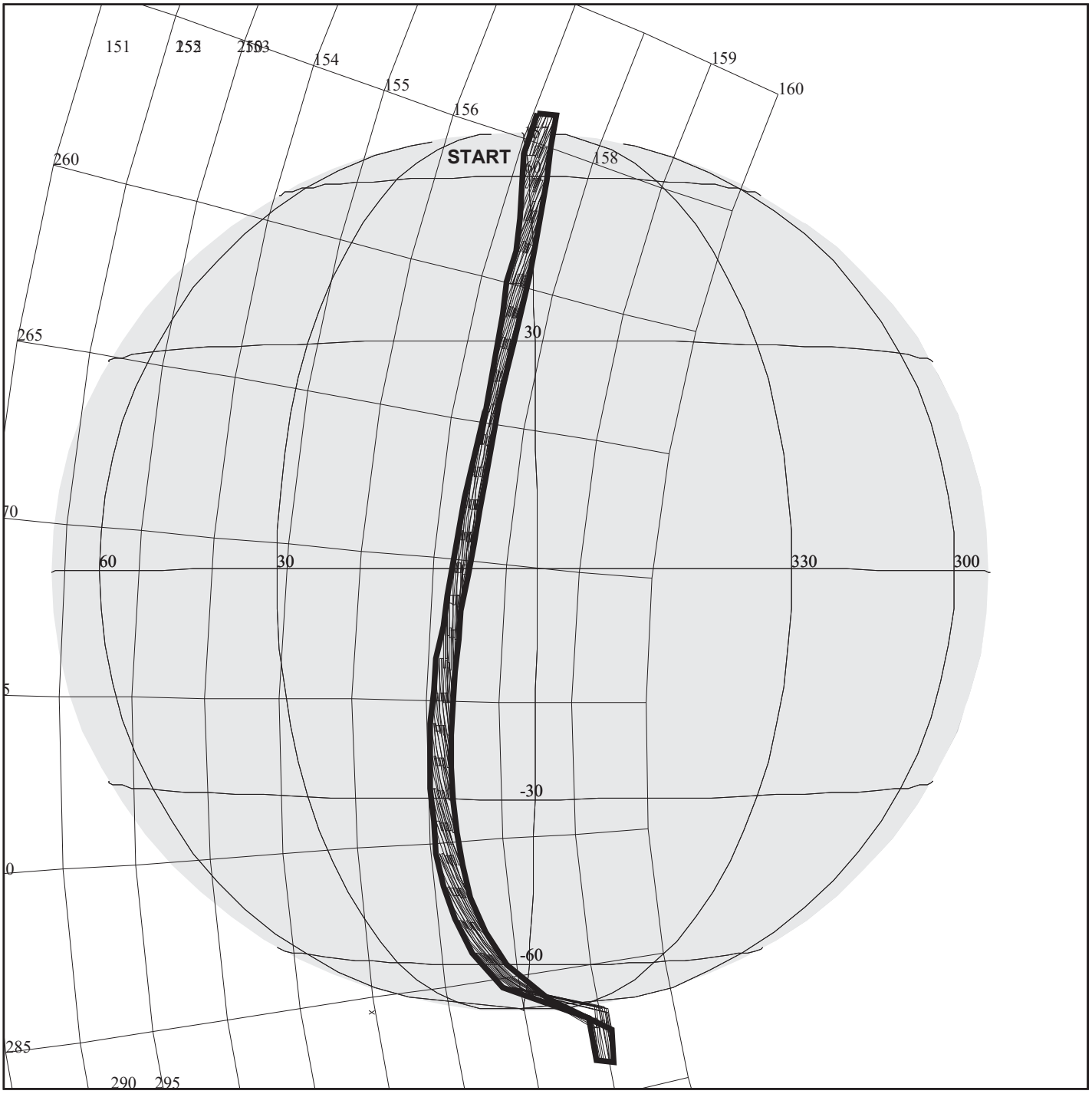
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.4 Rj, NIMS IFOV = 305km. Nominal incidence angle is 51.4 degrees, emission angle is 66.6 degrees.

3/4 of swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165EQ:TT= 0 TMC= 1 C= -20.00 XC= -100.00 BS= 0/7629 TC= 3
A= 728 pD= 0 SR=17.450 RA50=334.84 DEC50= -3.81 cone=157.06 clock=254.77
117EQ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7629
1:#s= 29 Cs= 2.00 XCs= 0.00 Cr= -1.80 XCr= 8.00 sD= 272 rD= 32

11JNTHRMNS01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNTHRMNS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 25:00:0

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

OBSERVATION:11JNTHRMNS01

DESCRIP:JUPITER_THERMAL_NORTH_SOUTH_STRI

Jupiter Thermal North-South Stripe ACTIVITY ID: 11JNTHRMNS01-
START TIME: 97-311/01:01:50.399

Activity ID: Orbit 11 Target J Inst N OAPEL THRMNS SeqNo 01 -

Title	Jupiter Thermal North-South Stripe	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 11/07/97 Week 45
Start	JEE+CDS 00000020:00:0	97-311/01:01:50.399	JEE+000/00:20:13.333
End	JEE+CDS 00000075:00:0	97-311/01:57:27.066	JEE+000/01:15:50.000
Duration	00000055:00:0	000/00:55:36.667	000/00:55:36.667

Top Label 11JNTHRMNS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	185	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

North-South stripe covering thermal wavelengths from 4.2786 to 5.2198 microns. Determine phosphine and other trace species abundances over latitude. Eighty wavelengths acquired. High-spatial resolution accomplished by begining observation at perijove.

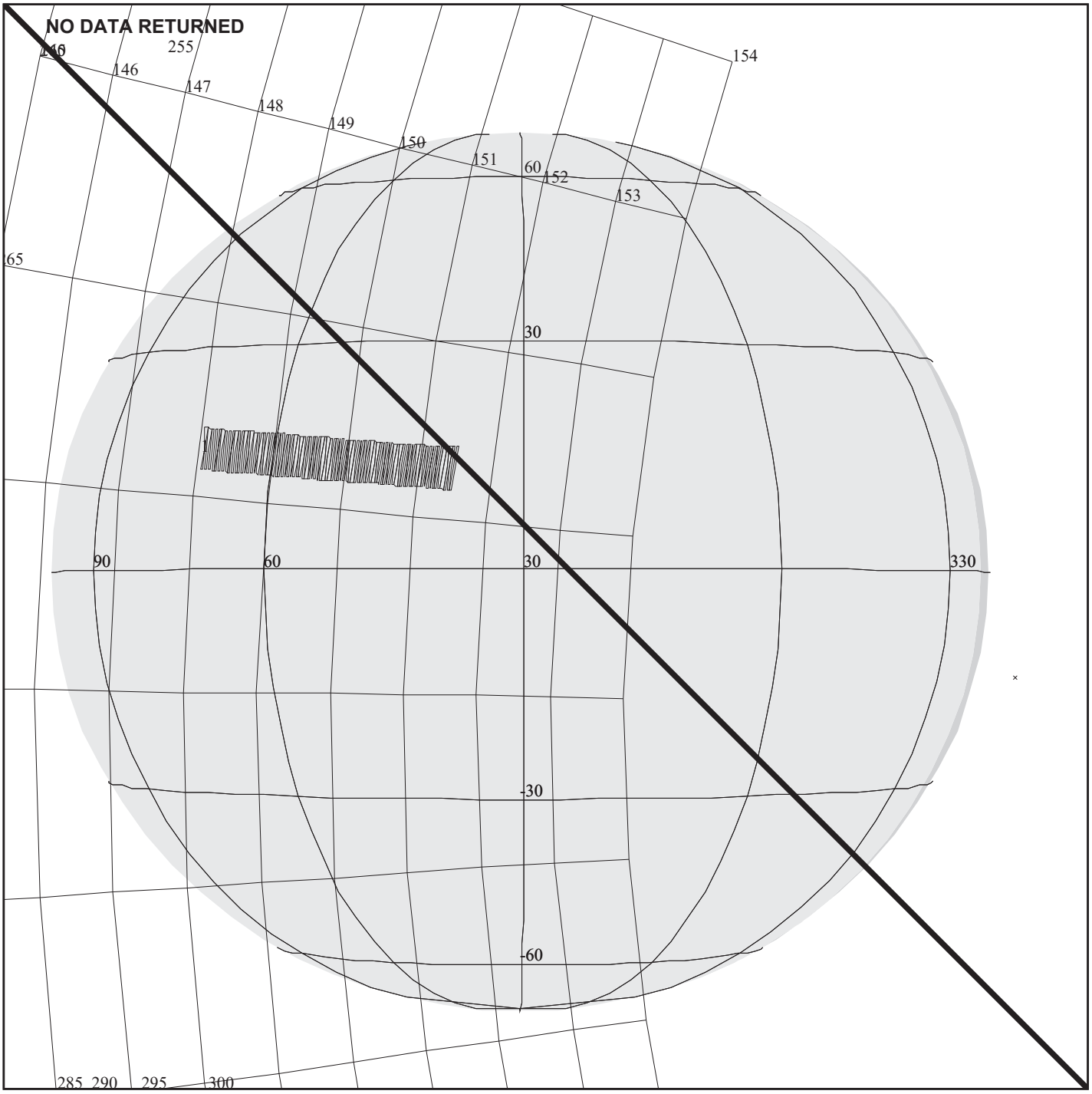
Data Returned

Design Detail

Follows description in OPG, page A-20, North-South stripe follows classic Z-pattern, each stripe being approximately two degrees wide in longiutde. NIMS long map spatially-contiguous spectra. Data acquired in 1/5 NIMS record mode. Uses J5M80A playback table. Observation occurs 8.0 Rj. About 31 tiers cover the planet. Ten samples in each tier take 10*8.666 + 13.3 which is approximately 100 seconds to accumulate, including 13.3 seconds for repositioning.
NIMS scan takes 51 minutes, 27 seconds.
Data accumulated: (3086.7 seconds) [(80)(200)/8.6666 + 168] = 6.217 MB, 2:1 compression yields 3.109 MBTG.
Tape used: 3087*0.00003363 = 0.1038 tracks.
Four RIMS reserved for targetting, plus 70 seconds extra time.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11J5M253A, E11J5M80A

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165ER:TT= 0 TMC= 1 C= -31.00 XC= 0.00 BS= 0/7821 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50=345.86 DEC50= -3.58 cone=148.08 clock=268.76
117ER:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7821
1:#s= 1 Cs= 43.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4368 rD= 40

11JNBRGSUB01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRGSUB01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 81:00:0

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

OBSERVATION:11JNBRGSUB01

DESCRIP:BROWN_BARGE_OBS

Brown Barge Obs

ACTIVITY ID: 11JNBRGSUB01-
START TIME: 97-311/01:58:27.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRGSUB SeqNo 01 -

Title	Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	JEE+CDS 00000076:00:0	97-311/01:58:27.732		JEE+000/01:16:50.666	
End	JEE+CDS 00000105:00:0	97-311/02:27:47.066		JEE+000/01:46:10.000	
Duration	00000029:00:0	000/00:29:19.334		000/00:29:19.334	

Top Label	11JNBRGSUB01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	182	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of six OAPels constituting observations of the Brown Barge feature at 20 degrees phase. Sub-spectra observation acquired about 20 degrees from central meridian.

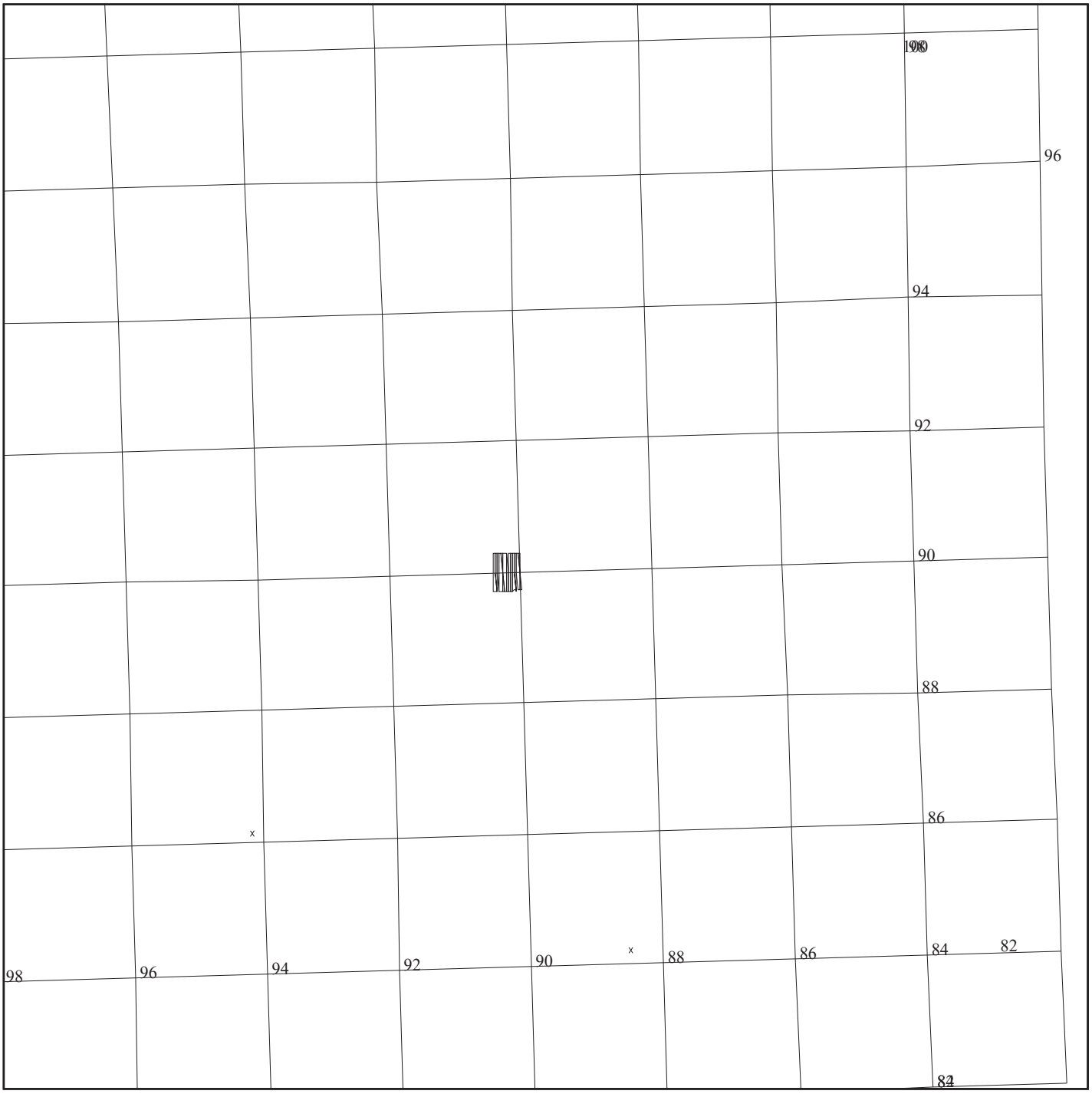
No Data Returned

Design Detail

Long map, Nyquist sampling, 80 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.1 Rj, NIMS IFOV = 290km. Nominal incidence angle is 13.8 degrees, emission angle is 23.8 degrees.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11JSB253A, E11JSB80A

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165EX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3099 TC= 2(90 90)
A= 728 pD= 0 SR=17.450 RA50=218.97 DEC50=-22.70 cone= 90.00 clock= 90.00
117EX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3099
1:#s= 1 Cs= 6.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

11HNDARK__03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11HNDARK__03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 110:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:11HNDARK__03 **DESCRIP:NIMS_Dark_Observation**

NIMS Dark Observation

ACTIVITY ID: 11HNDARK__03-
START TIME: 97-311/02:27:47.066

Activity ID: Orbit 11 Target H Inst N OAPEL DARK__ SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	JEE+CDS 00000105:00:0	97-311/02:27:47.066		JEE+000/01:46:10.000	
End	JEE+CDS 00000111:00:0	97-311/02:33:51.066		JEE+000/01:52:14.000	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	11HNDARK__03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation.

Obtain 1 Rim of dark sky data.

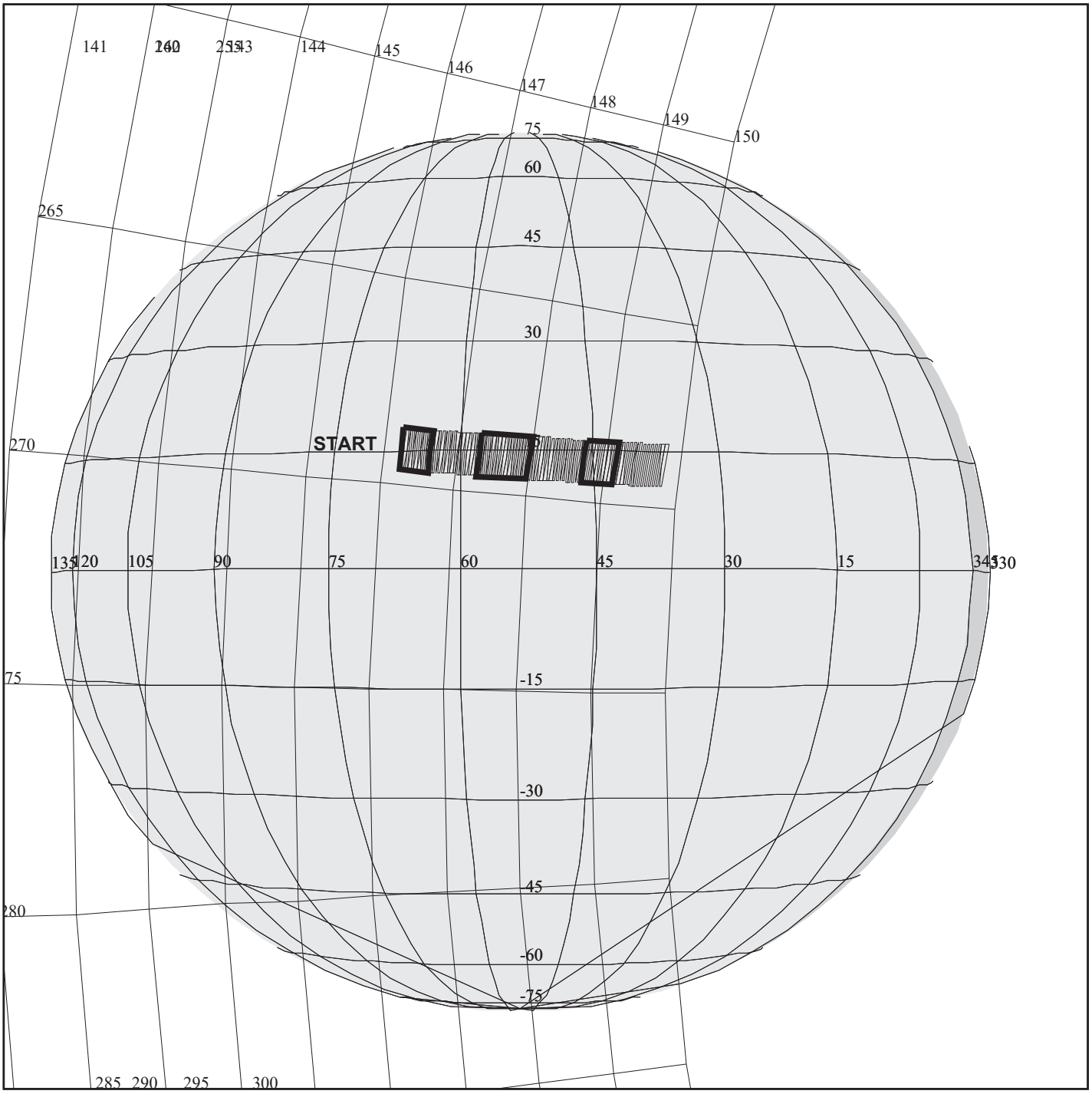
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 Rim.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11DRK252, E11DRK32

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165ES:TT= 0 TMC= 1 C= -31.00 XC= 0.00 BS= 0/6011 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50=347.54 DEC50= -2.82 cone=146.25 clock=269.14
117ES:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6011
1:#s= 1 Cs= 43.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4368 rD= 40

11JNBRGFUL01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRGFUL01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 126:00:0

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

OBSERVATION:11JNBRGFUL01

DESCRIP:BROWN_BARGE_OBS

Brown Barge Obs

ACTIVITY ID: 11JNBRGFUL01-
START TIME: 97-311/02:43:57.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRGFUL SeqNo 01 -

Title	Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date 11/07/97 Week 45
Start	JEE+CDS 00000121:00:0	97-311/02:43:57.732	JEE+000/02:02:20.666
End	JEE+CDS 00000150:00:0	97-311/03:13:17.066	JEE+000/02:31:40.000
Duration	00000029:00:0	000/00:29:19.334	000/00:29:19.334

Top Label 11JNBRGFUL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	180	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of six OAPels constituting observations of the Brown Barge feature at 20 degrees phase. Full spectra observations in reflected light acquired at the central meridian.

Data Returned

Design Detail

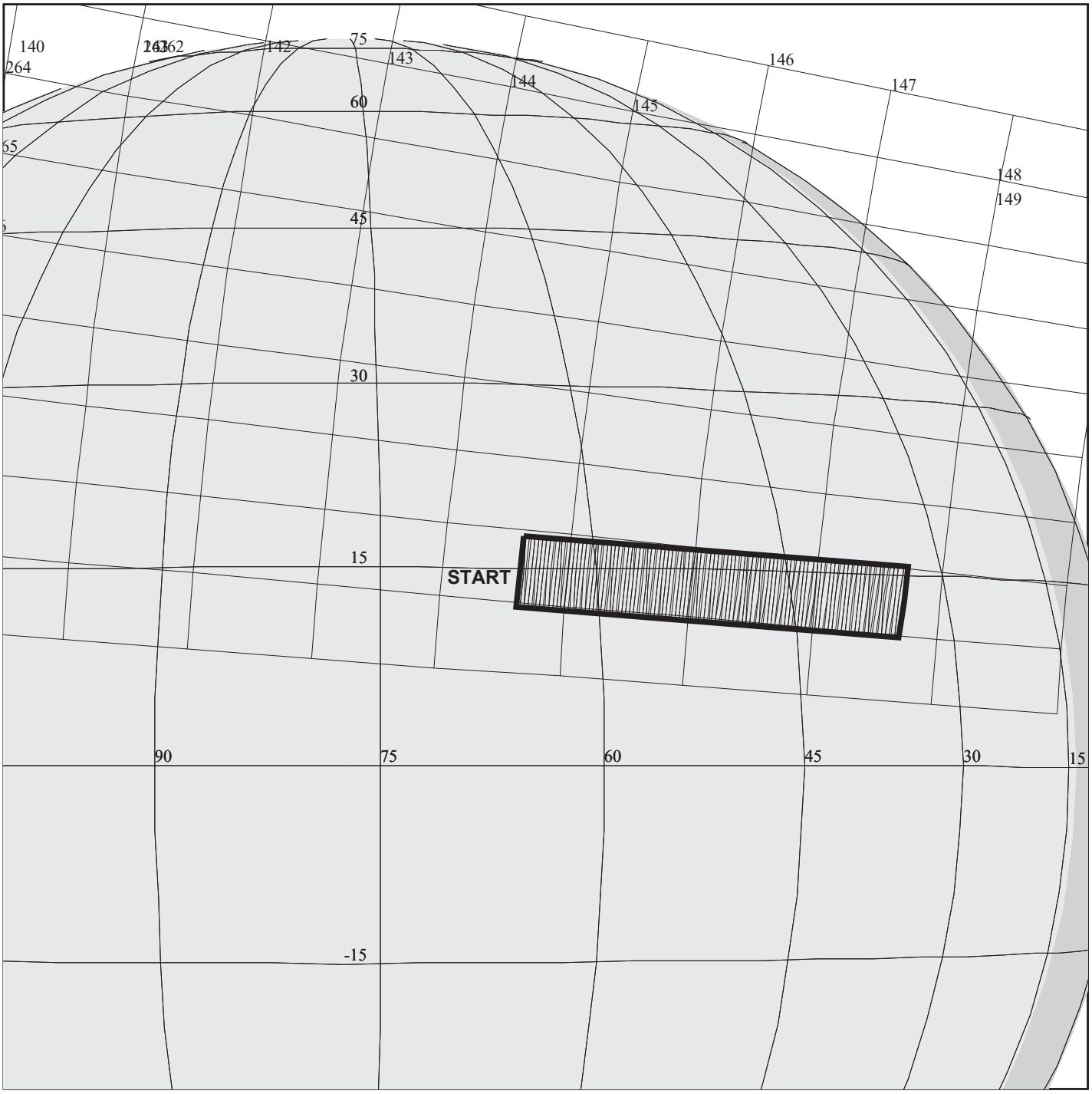
Long map, Nyquist sampling, 253 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.1 Rj, NIMS IFOV = 290km. Nominal incidence angle is 33.2 degrees, emission angle is 28.0 degrees.

3 segments returned from beginning, middle and end of the swath.

Last 4 Rims of swath not recorded.

Long Map (LM), Gain 2, Grating Start 0, LPU, E11JFE253A, E11JFE253A

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165ET:TT= 0 TMC= 1 C= -26.00 XC= 0.00 BS= 0/4565 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50=349.07 DEC50= -2.20 cone=144.62 clock=269.59
117ET:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4565
1:#s= 1 Cs= 46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG02003

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG02003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 173:00:0

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

OBSERVATION:11JNBRG02003

DESCRIP:BROWN_BARGE_OBS_20_DEG_PHASE

Brown Barge Obs 20 deg phase

ACTIVITY ID: 11JNBRG02003-
START TIME: 97-311/03:31:29.066

Activity ID: Orbit 11 Target J Inst N OAPEL BRG020 SeqNo 03 -

Title	Brown Barge Obs 20 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	JEE+CDS 00000168:00:0	97-311/03:31:29.066		JEE+000/02:49:52.000	
End	JEE+CDS 00000180:00:0	97-311/03:43:37.066		JEE+000/03:02:00.000	
Duration	00000012:00:0	000/00:12:08.000		000/00:12:08.000	

Top Label	11JNBRG02003-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fifth of six OAPels constituting observations of the Brown Barge feature at 20 degrees phase.

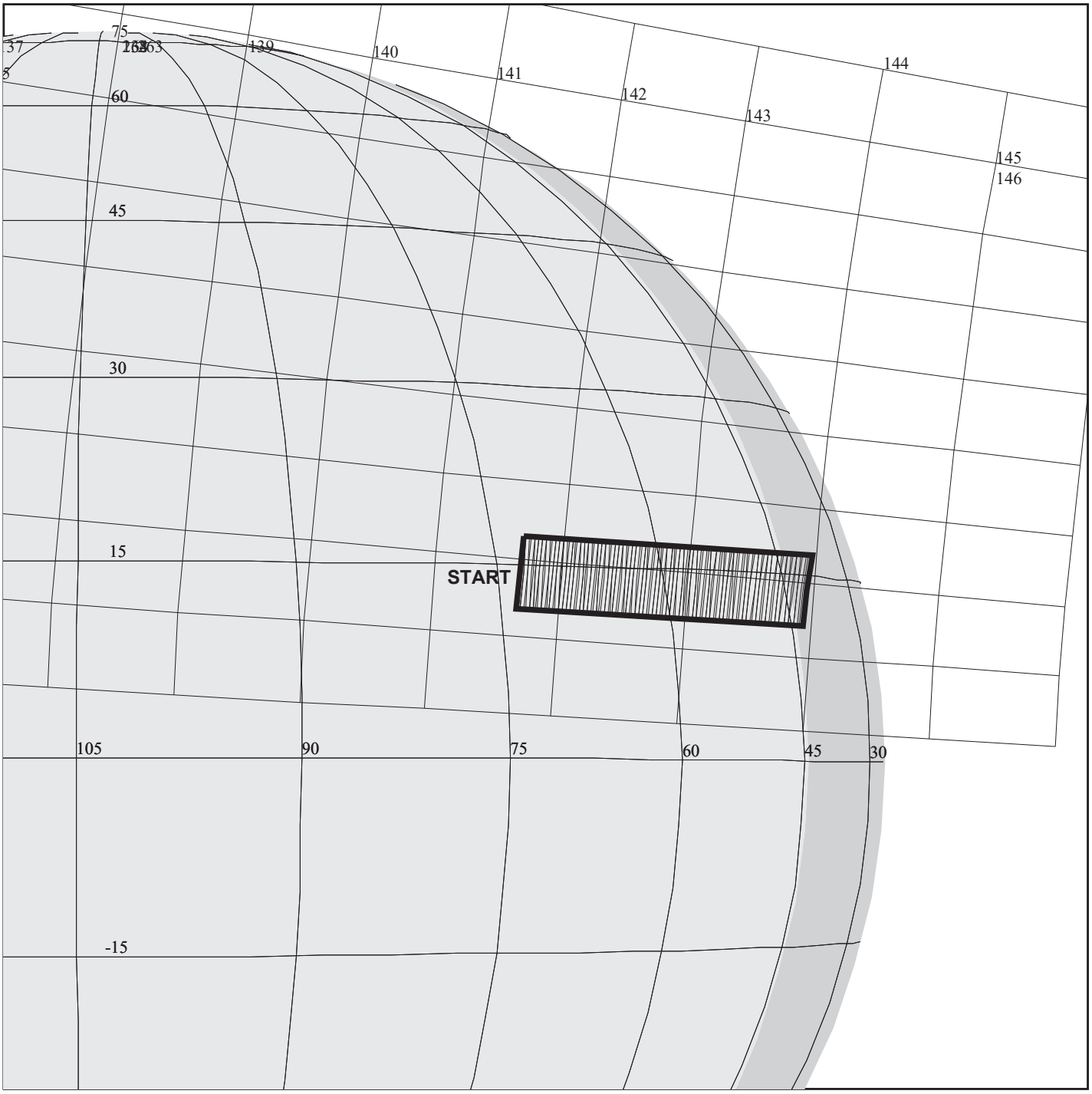
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.4 Rj, NIMS IFOV = 300km. Nominal incidence angle is 55.0 degrees, emission angle is 33.7 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95



165EU:TT= 0 TMC= 1 C= -30.00 XC= 0.00 BS= 0/3665 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50=351.79 DEC50= -1.02 cone=141.68 clock=270.18
117EU:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3665
1:#s= 1 Cs= 33.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNBRG02004

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG02004

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 223:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:11JNBRG02004 **DESCRIP:BROWN_BARGE_OBS_20_DEG_PHASE**

Brown Barge Obs 20 deg phase

ACTIVITY ID: 11JNBRG02004-
START TIME: 97-311/04:22:02.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG020 SeqNo 04 -

Title	Brown Barge Obs 20 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	JEE+CDS 00000218:00:0	97-311/04:22:02.399		JEE+000/03:40:25.333	
End	JEE+CDS 00000228:00:0	97-311/04:32:09.066		JEE+000/03:50:32.000	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label	11JNBRG02004-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Sixth of six OAPels constituting observations of the Brown Barge feature at 20 degrees phase. Observations acquired near terminator.

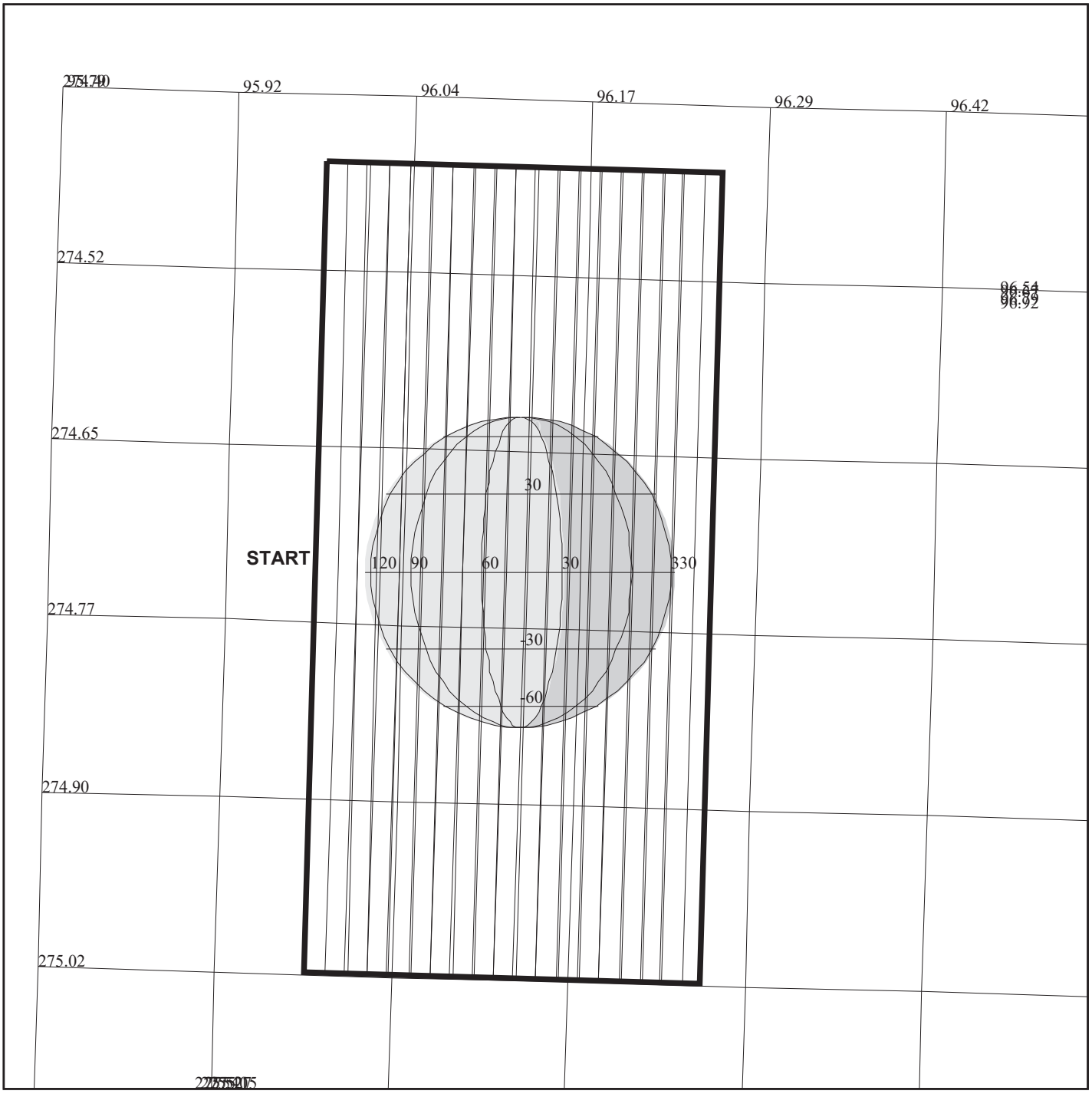
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.4 Rj, NIMS IFOV = 310km. Nominal incidence angle is 84.7 degrees, emission angle is 59.7 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95



165EV:TT= 0 TMC= 1 C= -2.40 XC= 0.00 BS= 0/9519 TC= 3
A= 546 pD= 512 SR=17.450 RA50= 34.87 DEC50= 16.12 cone= 95.99 clock=274.73
117EV:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9519
1:#s= 1 Cs= 4.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 460 rD= 2

11INCHEMIS01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INCHEMIS01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 -CDS 949:00:0

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.300

OBSERVATION:11INCHEMIS01

DESCRIP:Monitoring_Of_Io_Dayside

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: 11INCHEMIS01-
START TIME: 97-311/07:42:14.333

Activity ID: Orbit 11 Target I Inst N OAPEL CHEMIS SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	IEE-CDS 00000953:00:0	97-311/07:42:14.333		IEE-000/16:03:35.333	
End	IEE-CDS 00000946:00:0	97-311/07:49:19.000		IEE-000/15:56:30.666	
Duration	00000007:00:0	000/00:07:04.667		000/00:07:04.667	

Top Label	11INCHEMIS01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. so2 distribution) at resolutions better than ~800km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

Design Detail

Partial or full disk mosaic 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, 360 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits to ground per orbit: 0.3 to 2.2 Mbits.
Record Mode = MPW
Gain State = 2

Long Map (LM), Gain 2, Grating Start 0, MPW, E11ILM442, E11ILM360

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD08-
START TIME: 97-311/12:49:37.066

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 08 -

Title	NIMS Real-Time Software Reload	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 11/07/97 Week 45
Start	JEE+CDS 720:00:0	97-311/12:49:37.066	JEE+000/12:08:00.000
End	JEE+CDS 730:00:0	97-311/12:59:43.732	JEE+000/12:18:06.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 11NNRELOAD08-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

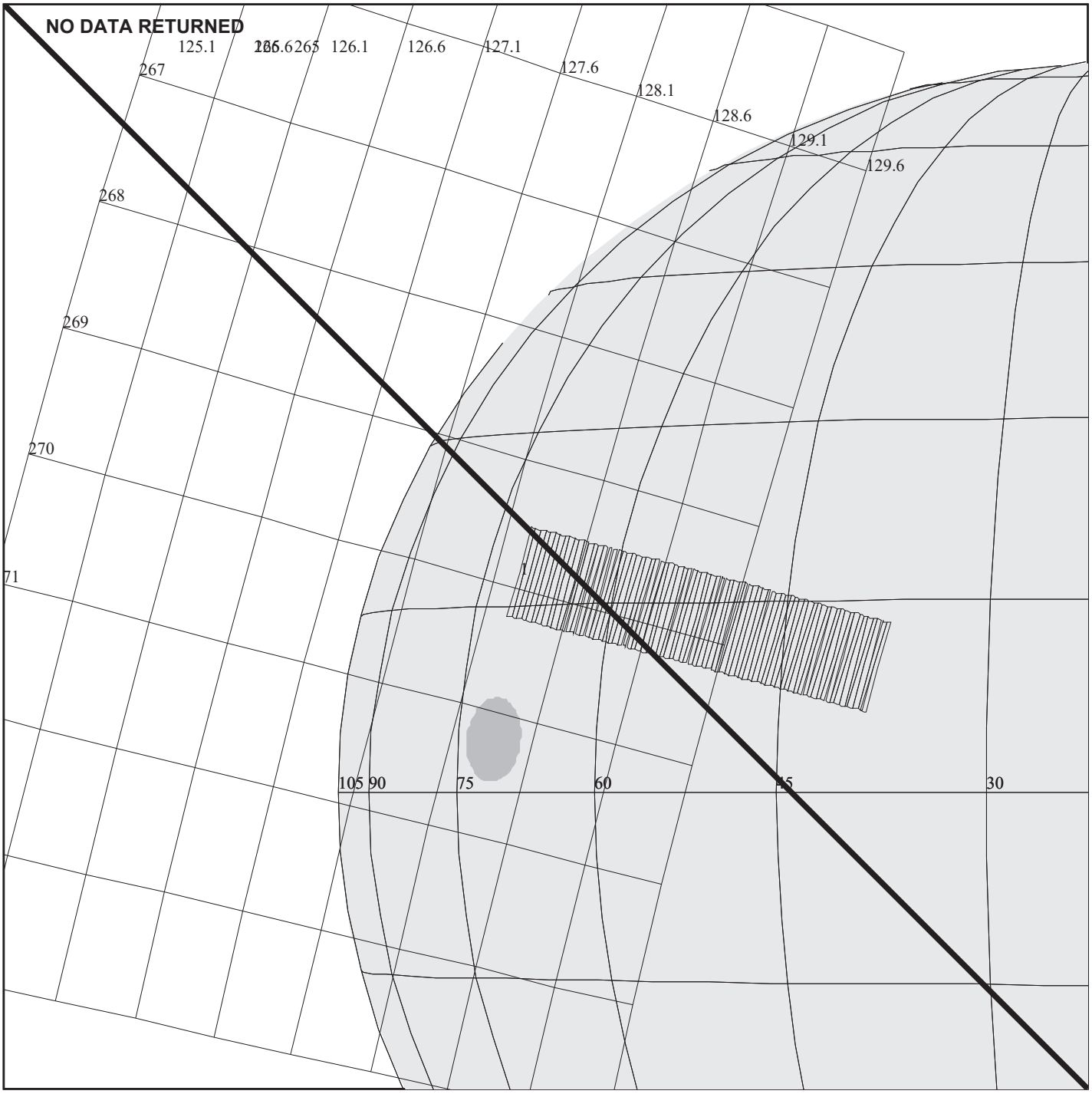
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95



165EZ:TT= 0 TMC= 1 C= -20.00 XC= 0.00 BS= 0/8487 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 35.89 DEC50= 17.86 cone=128.22 clock=269.87
117EZ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8487
1:#s= 1 Cs= 39.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1070 rD= 2

11JNBRG07203

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG07203

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 744:00:0

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

OBSERVATION:11JNBRG07203

DESCRIP:BROWN_BARGE_OBS_72_DEG_PHASE

Brown Barge Obs 72 deg phase

ACTIVITY ID: 11JNBRG07203-
START TIME: 97-311/13:08:49.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG072 SeqNo 03 -

Title	Brown Barge Obs 72 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	JEE+CDS 00000739:00:0	97-311/13:08:49.732		JEE+000/12:27:12.666	
End	JEE+CDS 00000751:00:0	97-311/13:20:57.732		JEE+000/12:39:20.666	
Duration	00000012:00:0	000/00:12:08.000		000/00:12:08.000	

Top Label	11JNBRG07203-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of five OAPels constituting observations of the Brown Barge feature at 72 degrees phase.

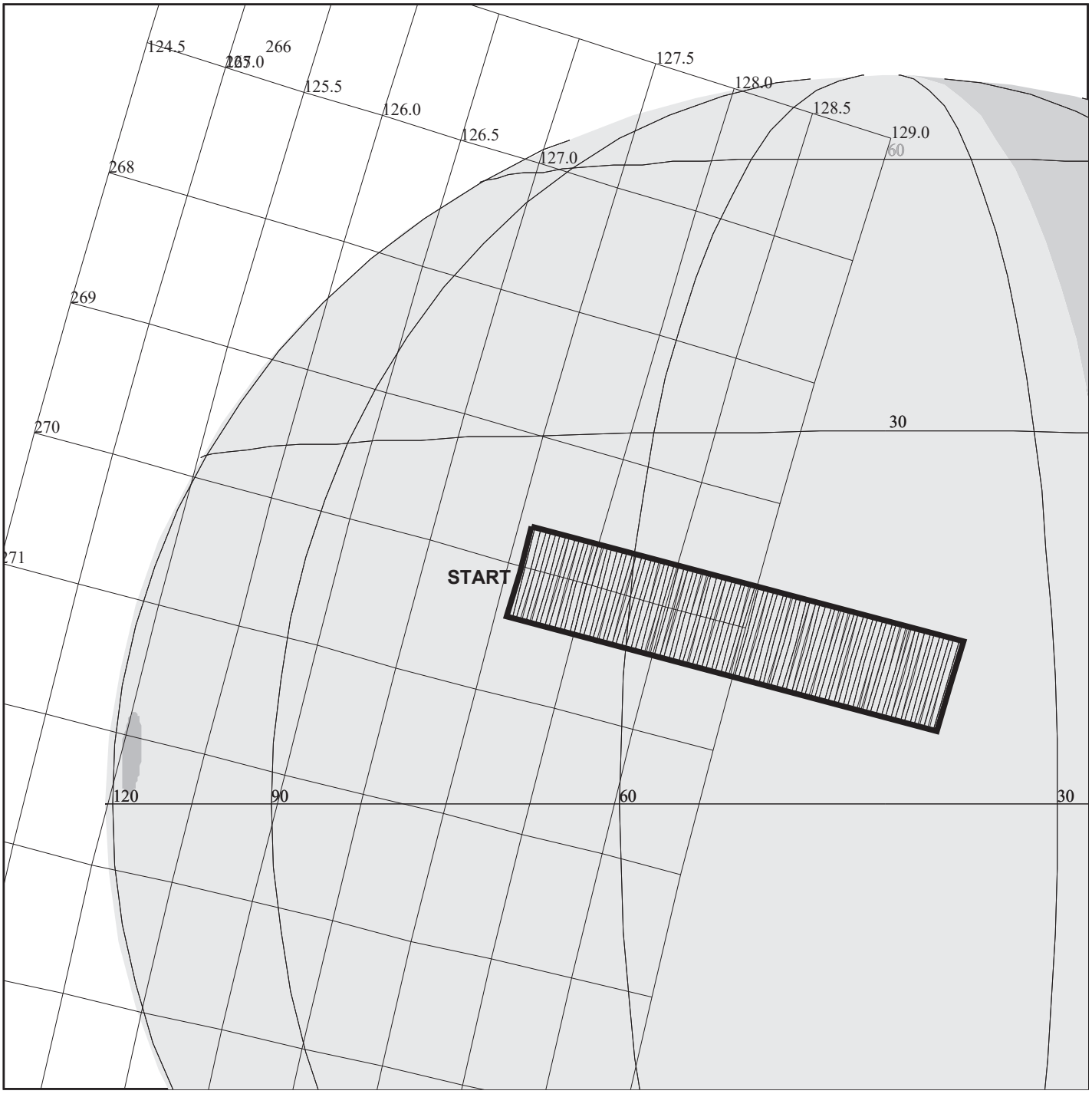
No Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors . Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 11.0 Rj, IFOV = 290km. Nominal incidence angle is 44.0 degrees, emission angle is 34 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95



165FA:TT= 0 TMC= 1 C= -24.00 XC= 0.00 BS= 0/5221 TC= 1(13.5 52)
A= 272 pD= 0 SR=17.450 RA50= 36.53 DEC50= 18.11 cone=127.57 clock=270.05
117FA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5221
1:#s= 1 Cs= 46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG07204

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG07204

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 781:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:11JNBRG07204 **DESCRIP:BROWN_BARGE_OBS_72_DEG_PHASE**

Brown Barge Obs 72 deg phase

ACTIVITY ID: 11JNBRG07204-
START TIME: 97-311/13:49:16.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG072 SeqNo 04 -

Title	Brown Barge Obs 72 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	JEE+CDS 00000779:00:0	97-311/13:49:16.399		JEE+000/13:07:39.333	
End	JEE+CDS 00000788:00:0	97-311/13:58:22.399		JEE+000/13:16:45.333	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	11JNBRG07204-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	164	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Four of five OAPels constituting observations of the Brown Barge feature at 72 degrees phase.

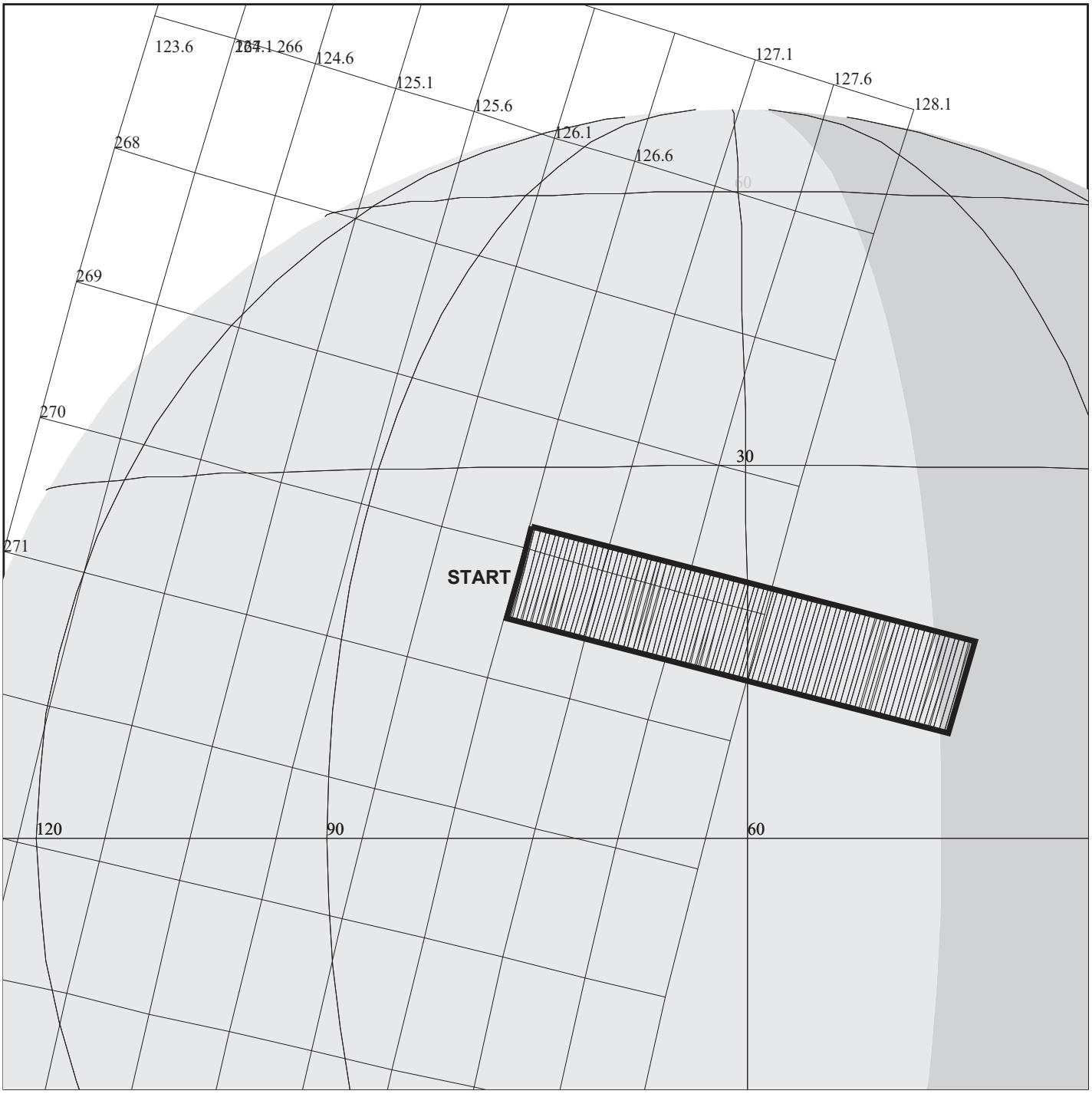
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a very large uncertainty of 40-65 degrees West longitude. Range is 11.2 Rj, NIMS IFOV = 400km. Nominal incidence angle is 65.9 degrees, emission angle is 17.5 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95



165FB:TT= 0 TMC= 1 C= -37.00 XC= 0.00 BS= 0/1591 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 37.45 DEC50= 18.59 cone=126.59 clock=270.17
117FB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1591
1:#s= 1 Cs= 46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG07205

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG07205

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 816:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:11JNBRG07205 **DESCRIP:BROWN_BARGE_OBS_72_DEG_PHASE**

Brown Barge Obs 72 deg phase

ACTIVITY ID: 11JNBRG07205-
START TIME: 97-311/14:21:37.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG072 SeqNo 05 -

Title	Brown Barge Obs 72 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	JEE+CDS 00000811:00:0	97-311/14:21:37.732		JEE+000/13:40:00.666	
End	JEE+CDS 00000823:00:0	97-311/14:33:45.732		JEE+000/13:52:08.666	
Duration	00000012:00:0	000/00:12:08.000		000/00:12:08.000	

Top Label	11JNBRG07205-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	164	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Five of five OAPels constituting observations of the Brown Barge feature at 72 degrees phase. Observations acquired near terminator.

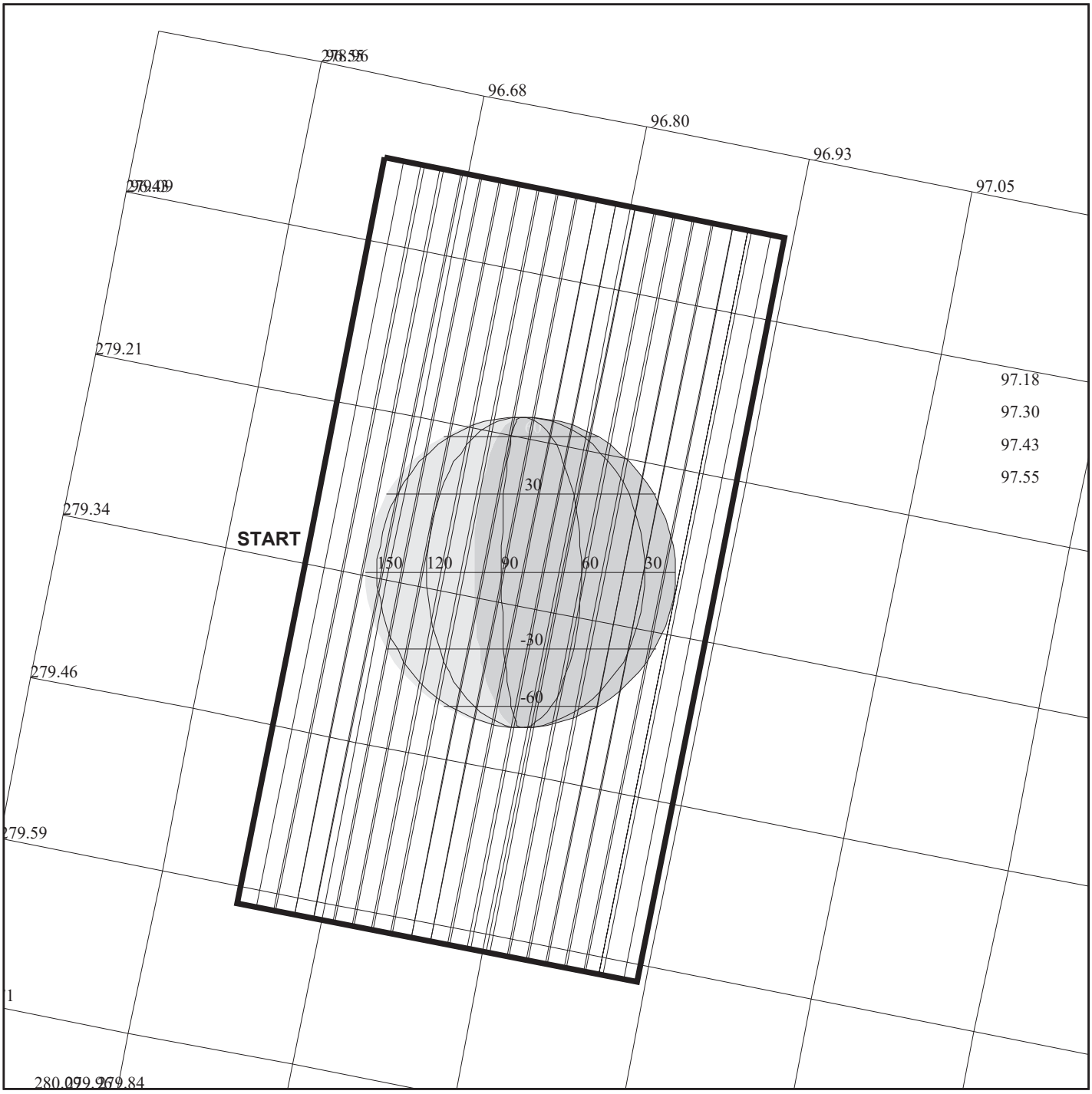
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 11.5 Rj, NIMS IFOV = 680km. Nominal incidence angle is 35 degrees, emission angle is 83 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95



165FC:TT= 0 TMC= 1 C= -2.70 XC= 0.00 BS= 0/0701 TC= 3
A= 364 pD= 546 SR=17.450 RA50= 70.37 DEC50= 24.49 cone= 96.62 clock=279.31
117FC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0701
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 546 rD= 2

11INCHEMIS02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INCHEMIS02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 -CDS 448:00:0

BODY PLOT TIME:TARGET-TIME D= 546 S= 0.300

OBSERVATION:11INCHEMIS02

DESCRIP:Monitoring_Of_Io_Dayside

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: 11INCHEMIS02-
START TIME: 97-311/16:09:49.000

Activity ID: Orbit 11 Target I Inst N OAPEL CHEMIS SeqNo 02 -

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

Time System	CDS	Load ID	Calendar Date	11/07/97	Week 45

Start	IEE-CDS 00000451:00:0	97-311/16:09:49.000	IEE-000/07:36:00.666
End	IEE-CDS 00000445:00:0	97-311/16:15:53.000	IEE-000/07:29:56.666
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	11INCHEMIS02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	156	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. so2 distribution) at resolutions better than ~800km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

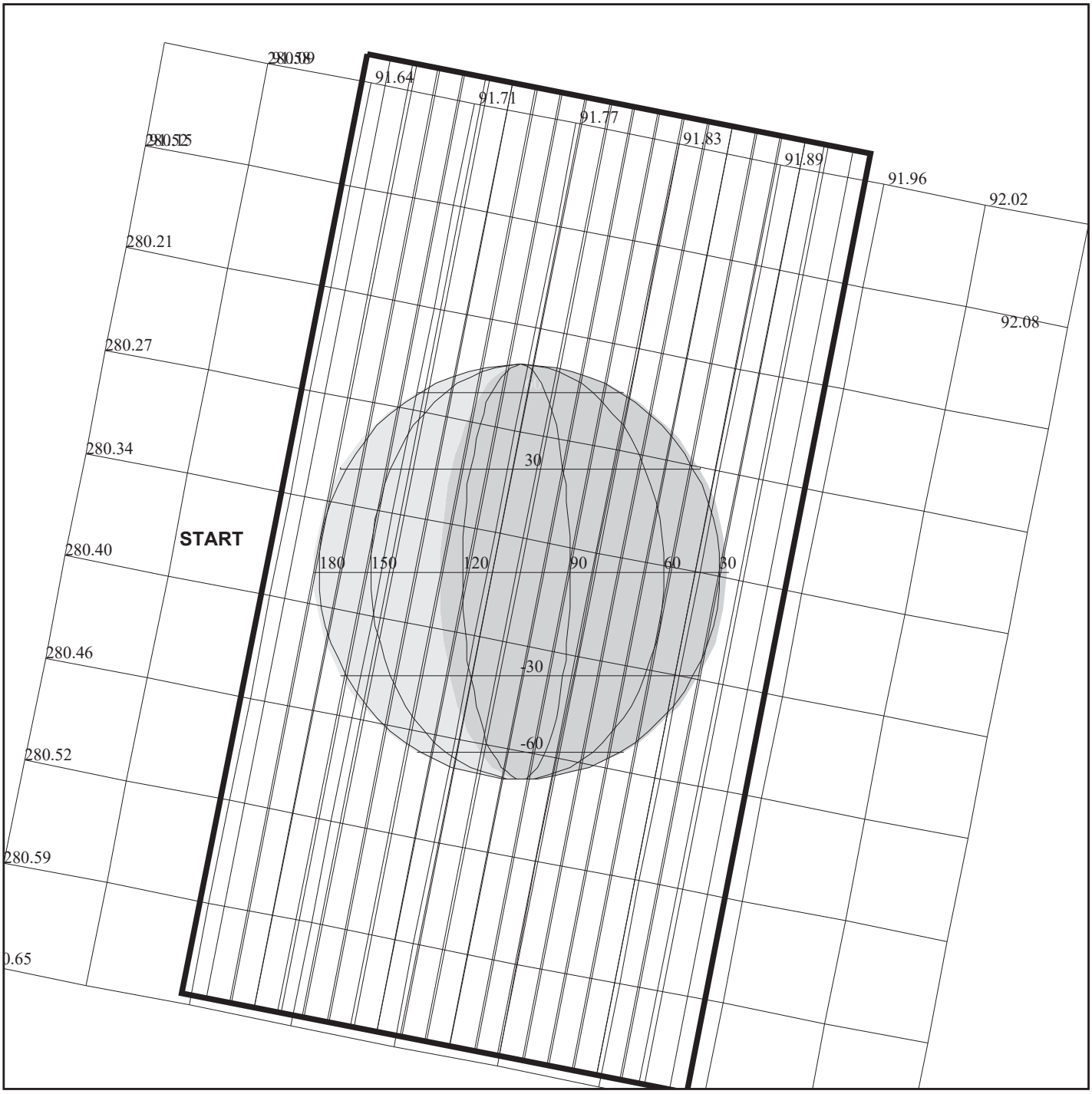
Design Detail

Partial or full disk mosaic 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, 360 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits to ground per orbit: 0.3 to 2.2 Mbits.
Record Mode = LPU
Gain State = 2

Long Map (LM), Gain 2, Grating Start 0, LPU, E11ILM243C, E11ILM228C

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95



165FD:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/3643 TC= 3
A= 728 pD= 512 SR=17.450 RA50= 75.94 DEC50= 24.99 cone= 91.65 clock=280.36
117FD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3643
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11INVOLCAN01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 -CDS 267:00:0

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

OBSERVATION:11INVOLCAN01

DESCRIP:Monitoring_Of_Selected_Volc_Reg

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: 11INVOLCAN01-
START TIME: 97-311/19:10:48.333

Activity ID: Orbit 11 Target I Inst N OAPEL VOLCAN SeqNo 01 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS	Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date	11/07/97	Week 45
Start	IEE-CDS 00000272:00:0	97-311/19:10:48.333		IEE-000/04:35:01.333	
End	IEE-CDS 00000263:00:0	97-311/19:19:54.333		IEE-000/04:25:55.333	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	11INVOLCAN01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	151	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

Data Returned

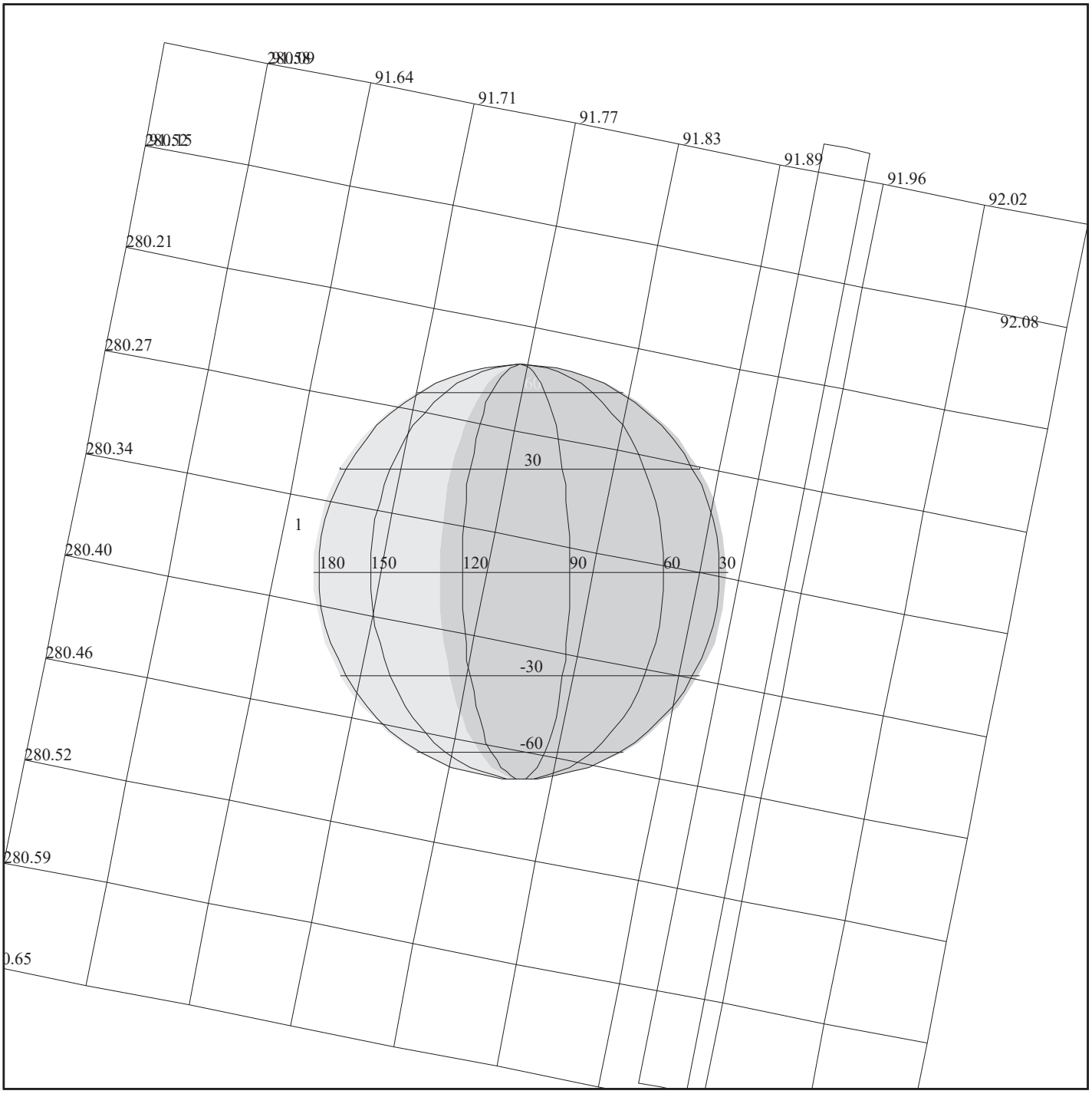
Design Detail

Long Map, 228 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.
Nyquist Sampling.

Locations of features: Kanehekili (-10 d. lat., +40 d. long.)
Pelee (-20 d. lat., -255 d. long.)
Loki (+12 d. lat., 310 d. long.)
Record mode = LPU
Gain State = 4

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ILMDRK243D, E11ILMDRK228D

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95



165FD:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/3643 TC= 3
A= 728 pD= 512 SR=17.450 RA50= 75.94 DEC50= 24.99 cone= 91.65 clock=280.36
117FD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3643
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11NNHEALTH03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 -CDS 267:00:0

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

OBSERVATION:11INVOLCAN01

DESCRIP:Monitoring_Of_Selected_Volc_Reg

NIMS Health Observation

ACTIVITY ID: 11NNHEALTH03-
START TIME: 97-311/19:19:54.333

Activity ID: Orbit 11 Target N Inst N OAPEL HEALTH SeqNo 03 -

Title	NIMS Health Observation			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	IEE-CDS 263:00:0	97-311/19:19:54.333		IEE-000/04:25:55.333	
End	IEE-CDS 258:00:0	97-311/19:24:57.666		IEE-000/04:20:52.000	
Duration	00000005:00:0	000/00:05:03.333		000/00:05:03.333	

Top Label	11NNHEALTH03-				
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

To observe the health and state of the NIMS instrument.

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 of Jupiter for a target.

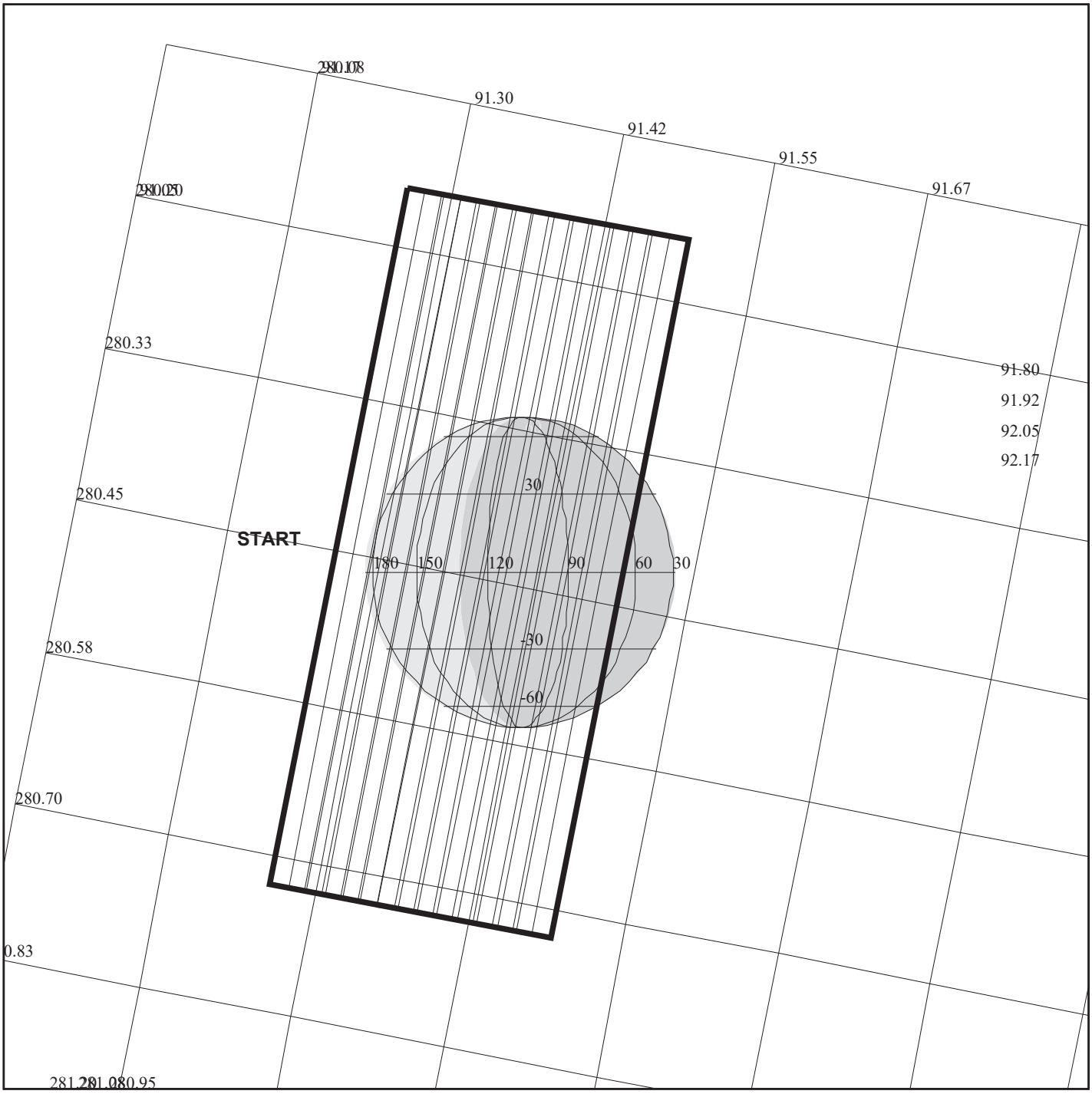
Data Returned

Design Detail

No scan platform commanding.
The scan platform is at the end of the slew of the previous observation: 11INVOLCAN01

Long Map (LM), Gain 2, Grating Start 0, R/T, E11RCVY3

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95



165FE:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/9285 TC= 3
A= 182 pD= 182 SR=17.450 RA50= 76.37 DEC50= 25.02 cone= 91.26 clock=280.44
117FE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9285
1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

11INCHEMIS03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INCHEMIS03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 -CDS 236:00:0

BODY PLOT TIME:TARGET-TIME D= 182 S= 0.300

OBSERVATION:11INCHEMIS03

DESCRIP:Monitoring_Of_Io_Dayside

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: 11INCHEMIS03-
START TIME: 97-311/19:45:11.000

Activity ID: Orbit 11 Target I Inst N OAPEL CHEMIS SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	IEE-CDS 00000238:00:0	97-311/19:45:11.000		IEE-000/04:00:38.666	
End	IEE-CDS 00000234:00:0	97-311/19:49:13.666		IEE-000/03:56:36.000	
Duration	00000004:00:0	000/00:04:02.666		000/00:04:02.666	

Top Label	11INCHEMIS03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	156	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. so2 distribution) at resolutions better than ~800km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

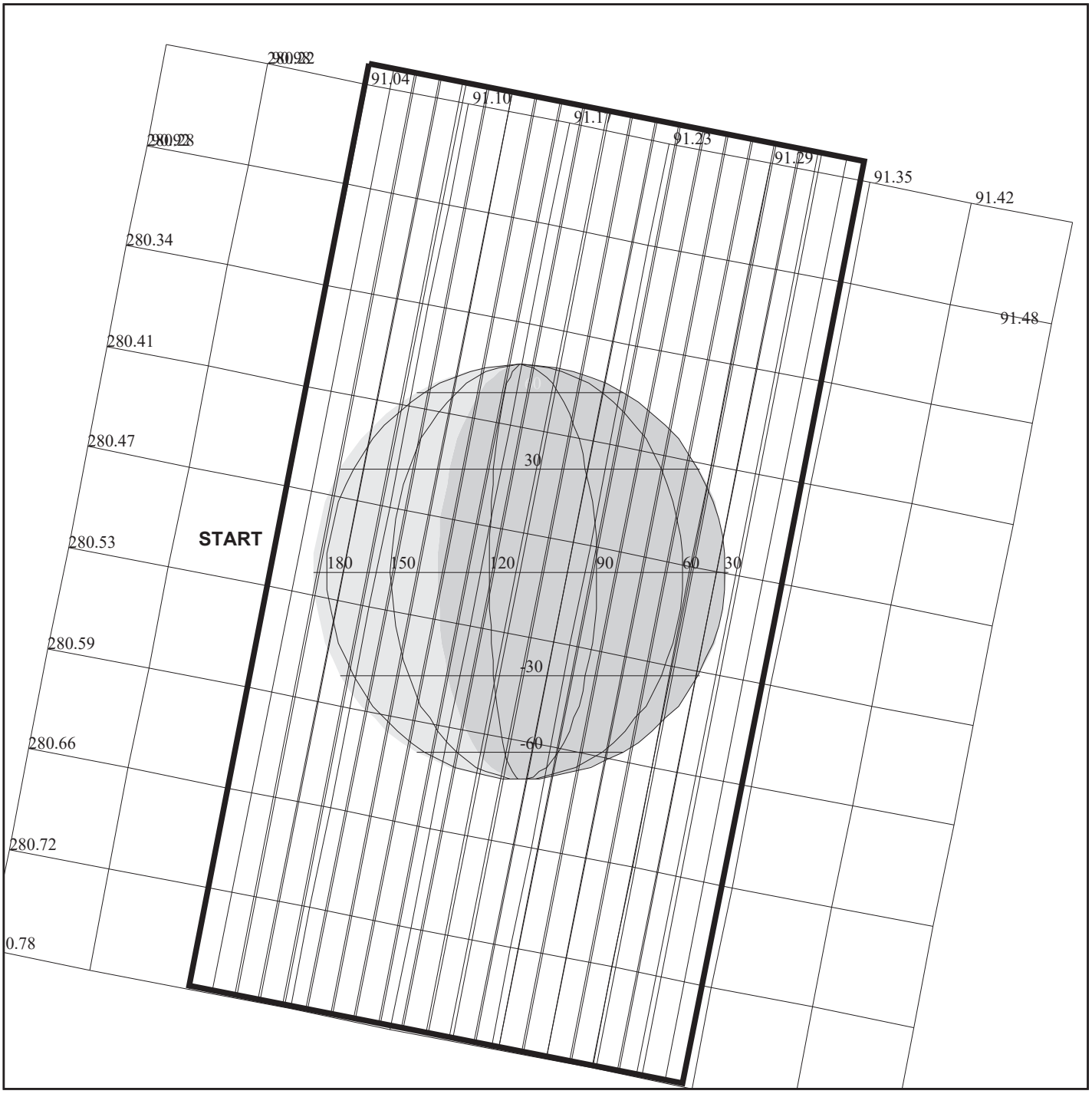
Design Detail

Partial or full disk mosaic 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, 360 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits to ground per orbit: 0.3 to 2.2 Mbits.
Record Mode = MPW
Gain State = 2

Long Map (LM), Gain 2, Grating Start 0, MPW, E11ILM442, E11ILM360

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95



165FF:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/4381 TC= 3
A= 728 pD= 512 SR=17.450 RA50= 76.62 DEC50= 25.03 cone= 91.05 clock=280.49
117FF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4381
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11INVOLCAN02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INVOLCAN02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:IEE 97-311/23:45:49.666 -CDS 208:00:0 **BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400**

OBSERVATION:11INVOLCAN02 **DESCRIP:Monitoring_Of_Selected_Volc_Reg**

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: 11INVOLCAN02-
START TIME: 97-311/20:10:27.666

Activity ID: Orbit 11 Target I Inst N OAPEL VOLCAN SeqNo 02 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS	Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date 11/07/97 Week 45
Start	IEE-CDS 00000213:00:0	97-311/20:10:27.666	IEE-000/03:35:22.000
End	IEE-CDS 00000204:00:0	97-311/20:19:33.666	IEE-000/03:26:16.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label 11INVOLCAN02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	161	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

Data Returned

Design Detail

Long Map, 228 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.
Nyquist Sampling.

Locations of features: Kanehekili (-10 d. lat., +40 d. long.)
Pelee (-20 d. lat., -255 d. long.)
Loki (+12 d. lat., 310 d. long.)
Record mode = LPU
Gain State = 4

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ILMDK243D, E11ILMDRK228D

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95

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Test of special load

ACTIVITY ID: 11NNLDTEST02-
START TIME: 97-311/20:20:34.333

Activity ID: Orbit 11 Target N Inst N OAPEL LDTEST SeqNo 02 -

Title	Test of special load			Instrument	NIMS
Requestor	NIMS-SWG/m. segura	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	11/07/97	Week 45
Start	IEE-CDS	00000203:00:0	97-311/20:20:34.333	IEE-000/03:25:15.333	
End	IEE-CDS	00000199:00:0	97-311/20:24:37.000	IEE-000/03:21:12.666	
Duration		00000004:00:0	000/00:04:02.667	000/00:04:02.667	

Top Label 11NNLDTEST02-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

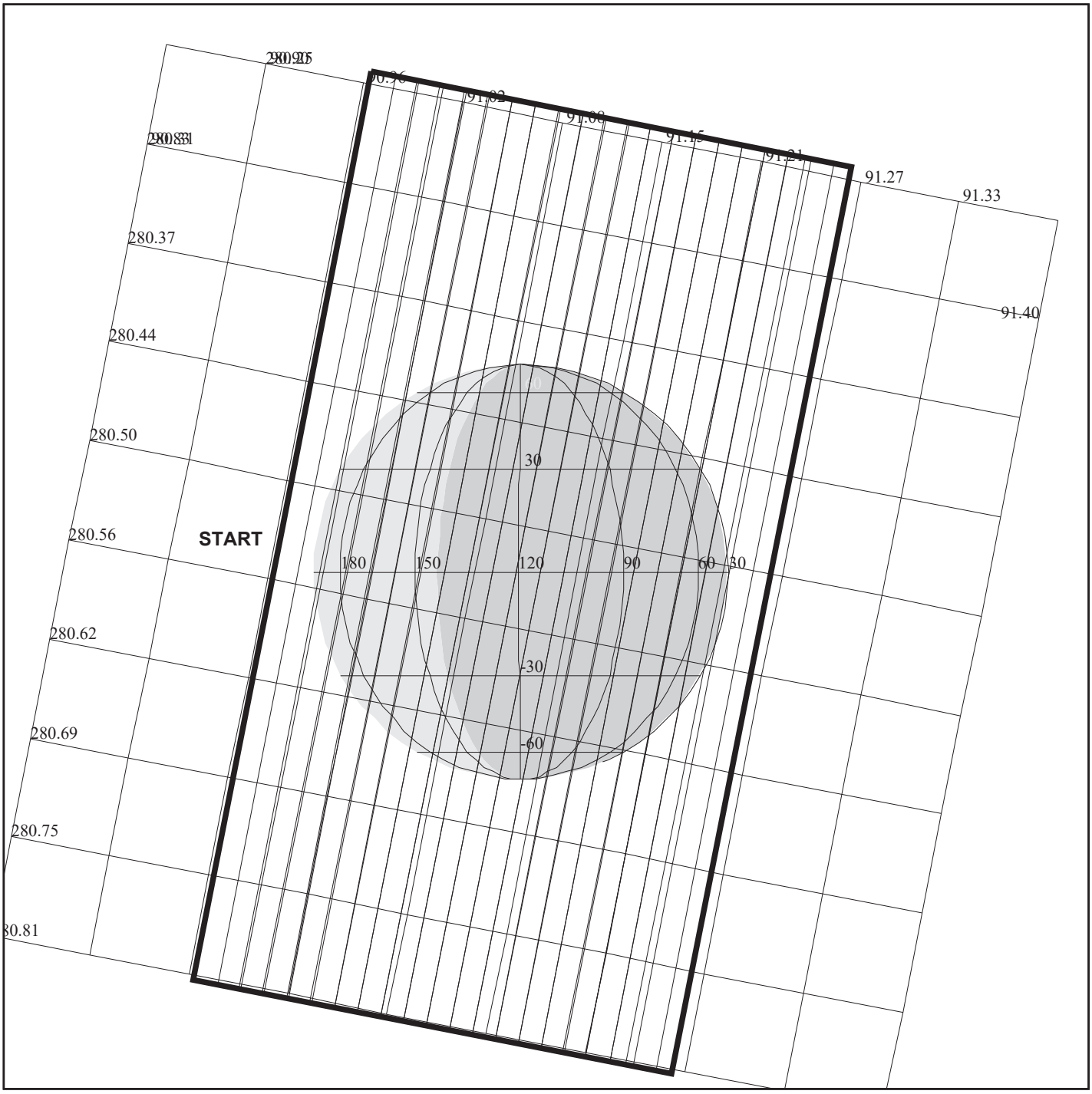
This Test Load loads the NIMS software in a much shorter time
than the nominal time.
This is being tested for use during GEM.

Design Detail

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

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

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95



165FG:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/4573 TC= 3
A= 364 pD= 182 SR=17.450 RA50= 76.71 DEC50= 25.01 cone= 90.97 clock=280.53
117FG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4573
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 514 rD= 2

11INVOLCAN03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INVOLCAN03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 -CDS 152:00:0

BODY PLOT TIME:TARGET-TIME D= 182 S= 0.400

OBSERVATION:11INVOLCAN03

DESCRIP:Monitoring_Of_Selected_Volc_Reg

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: 11INVOLCAN03-
START TIME: 97-311/21:09:06.333

Activity ID: Orbit 11 Target I Inst N OAPEL VOLCAN SeqNo 03 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS	Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date 11/07/97 Week 45
Start	IEE-CDS 00000155:00:0	97-311/21:09:06.333	IEE-000/02:36:43.333
End	IEE-CDS 00000149:00:0	97-311/21:15:10.333	IEE-000/02:30:39.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label 11INVOLCAN03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	161	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

Data Returned

Design Detail

Long Map, 228 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.
Nyquist Sampling.

Locations of features: Kanehekili (-10 d. lat., +40 d. long.)
Pelee (-20 d. lat., -255 d. long.)
Loki (+12 d. lat., 310 d. long.)
Record mode = LPU
Gain State = 4

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ILMDK243D, E11ILMDRK228D

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD09- / START TIME: 97-311/21:21:14.333

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 09 -

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

Time System	CDS	Load ID	Calendar Date 11/07/97 Week 45
Start	IEE-CDS 143:00:0	97-311/21:21:14.333	IEE-000/02:24:35.333
End	IEE-CDS 133:00:0	97-311/21:31:21.000	IEE-000/02:14:28.666
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 11NNRELOAD09-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

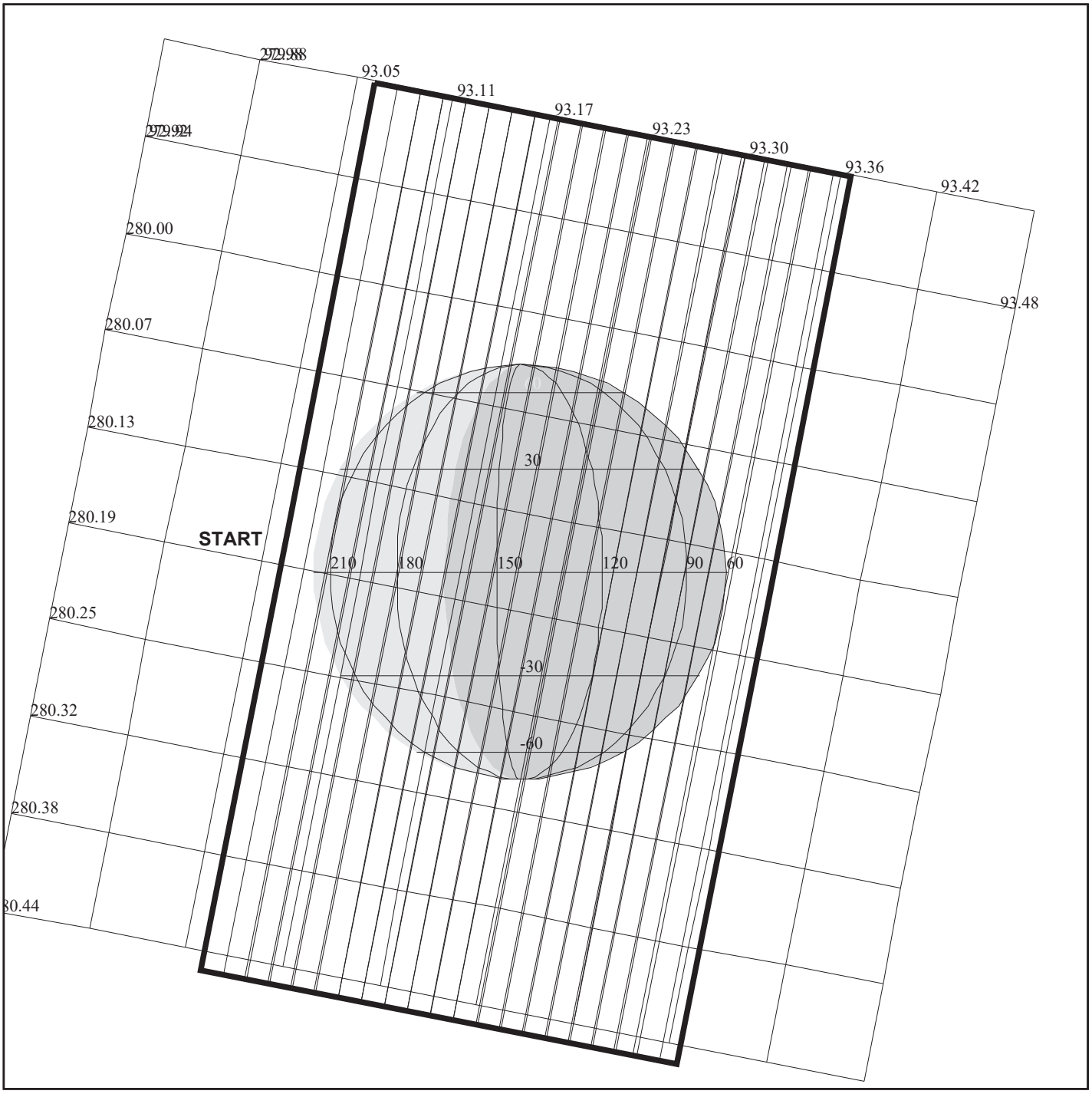
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95



165Fl:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/2237 TC= 3
A= 728 pD= 512 SR=17.450 RA50= 74.38 DEC50= 24.77 cone= 93.07 clock=280.17
117Fl:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2237
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11INHRSPEC01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INHRSPEC01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 +CDS 00:00:0

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

OBSERVATION:11INHRSPEC01

DESCRIP:Monitoring_Of_Io_Dayside

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: 11INHRSPEC01-
START TIME: 97-311/23:40:46.333

Activity ID: Orbit 11 Target I Inst N OAPEL HRSPEC SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45
Start	IEE-CDS 00000005:00:0	97-311/23:40:46.333		IEE-000/00:05:03.333	
End	IEE+CDS 00000003:00:0	97-311/23:48:51.666		IEE+000/00:03:02.000	
Duration	00000008:00:0	000/00:08:05.333		000/00:08:05.333	

Top Label	11INHRSPEC01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Mapping observation of Io's dayside at high spatial and spectral resolutions. Objective is to search for both know and yet unknown spetral features.

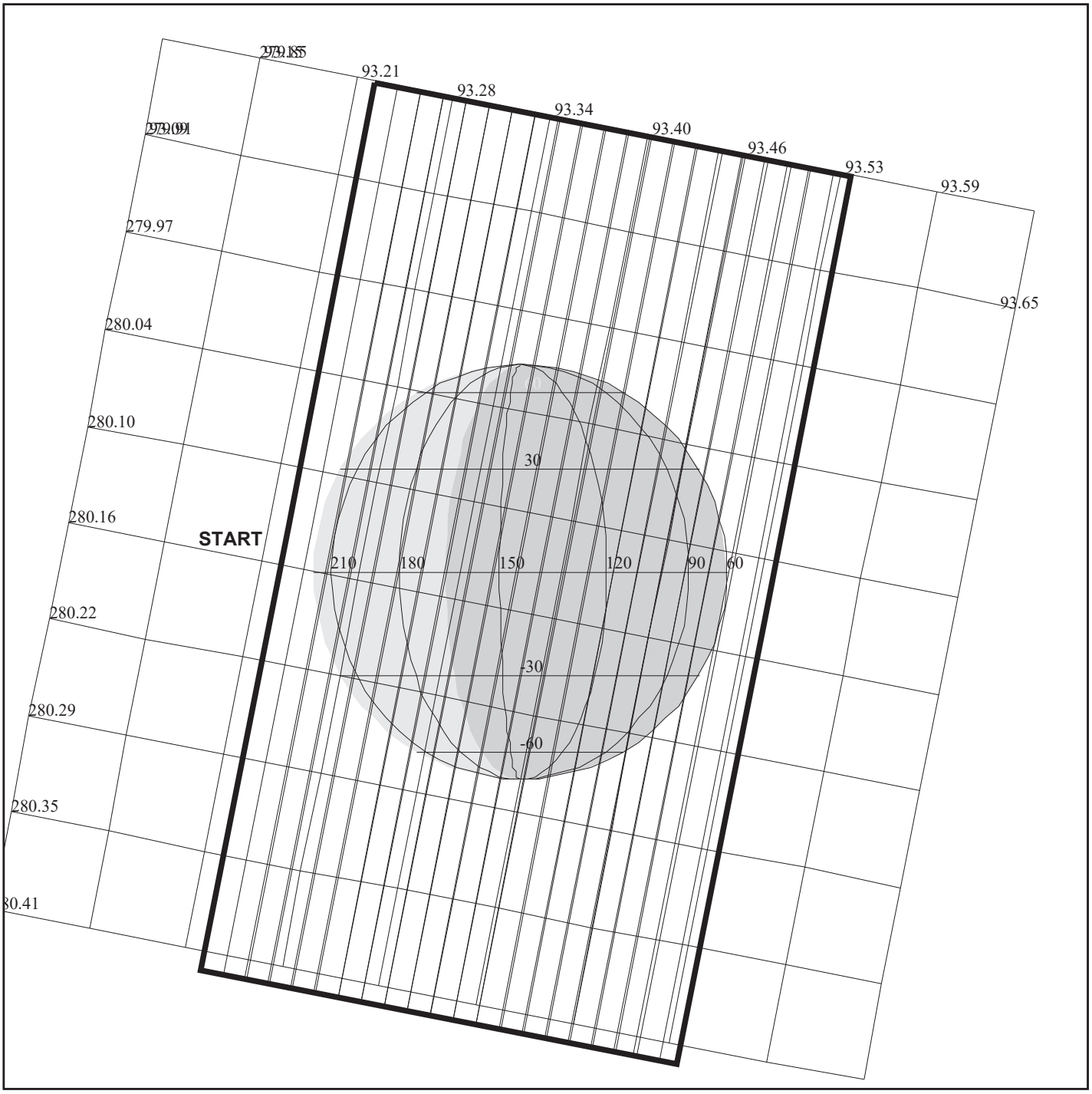
Data Returned

Design Detail

Global mosaic in Long Map (360 wavelengths).
Record Mode = MPW.
Gain State = 2

Long Map (LM), Gain 2, Grating Start 0, MPW, E11ILM442, E11ILM360

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95



165FJ:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/3511 TC= 3
A= 728 pD= 512 SR=17.450 RA50= 74.19 DEC50= 24.75 cone= 93.23 clock=280.14
117FJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3511
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11INNSPEC_01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INNSPEC_01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 +CDS 07:00:0

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

OBSERVATION:11INNSPEC_01

DESCRIP:Nightside_Spectra_At_High_Res

NIGHTSIDE SPECTRA AT HIGH RESOLUTION ACTIVITY ID: 11INNSPEC 01-
START TIME: 97-311/23:48:51.666

Activity ID: Orbit 11 Target I Inst N OAPEL NSPEC SeqNo 01 -

Title	NIGHTSIDE SPECTRA AT HIGH RESOLUTION	Instrument	NIMS
Requestor	NIMS-SWG/R.	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 11/07/97 Week 45
Start	IEE+CDS 3:00:0	97-311/23:48:51.666	IEE+000/00:03:02.000
End	IEE+CDS 10:00:0	97-311/23:55:56.332	IEE+000/00:10:06.666
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label 11INNSPEC 01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	168	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor the activity of Io's hotspots at high spatial and spectral resolution.

Data Returned

Design Detail

Full disk mosaic, Nyquist samplig,
Number of wavelengths = 360.
Record mode = MPW
Gain state = 4

Long Map (LM), Gain 4, Grating Start 0, MPW, E11ILM442, E11ILM360

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD10-
START TIME: 97-312/03:19:10.332

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 10 -

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

Time System	CDS	Load ID	Calendar Date	11/08/97	Week 45
Start	IEE+CDS 00000211:00:0	97-312/03:19:10.332		IEE+000/03:33:20.666	
End	IEE+CDS 00000221:00:0	97-312/03:29:16.999		IEE+000/03:43:27.333	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label	11NNRELOAD10-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

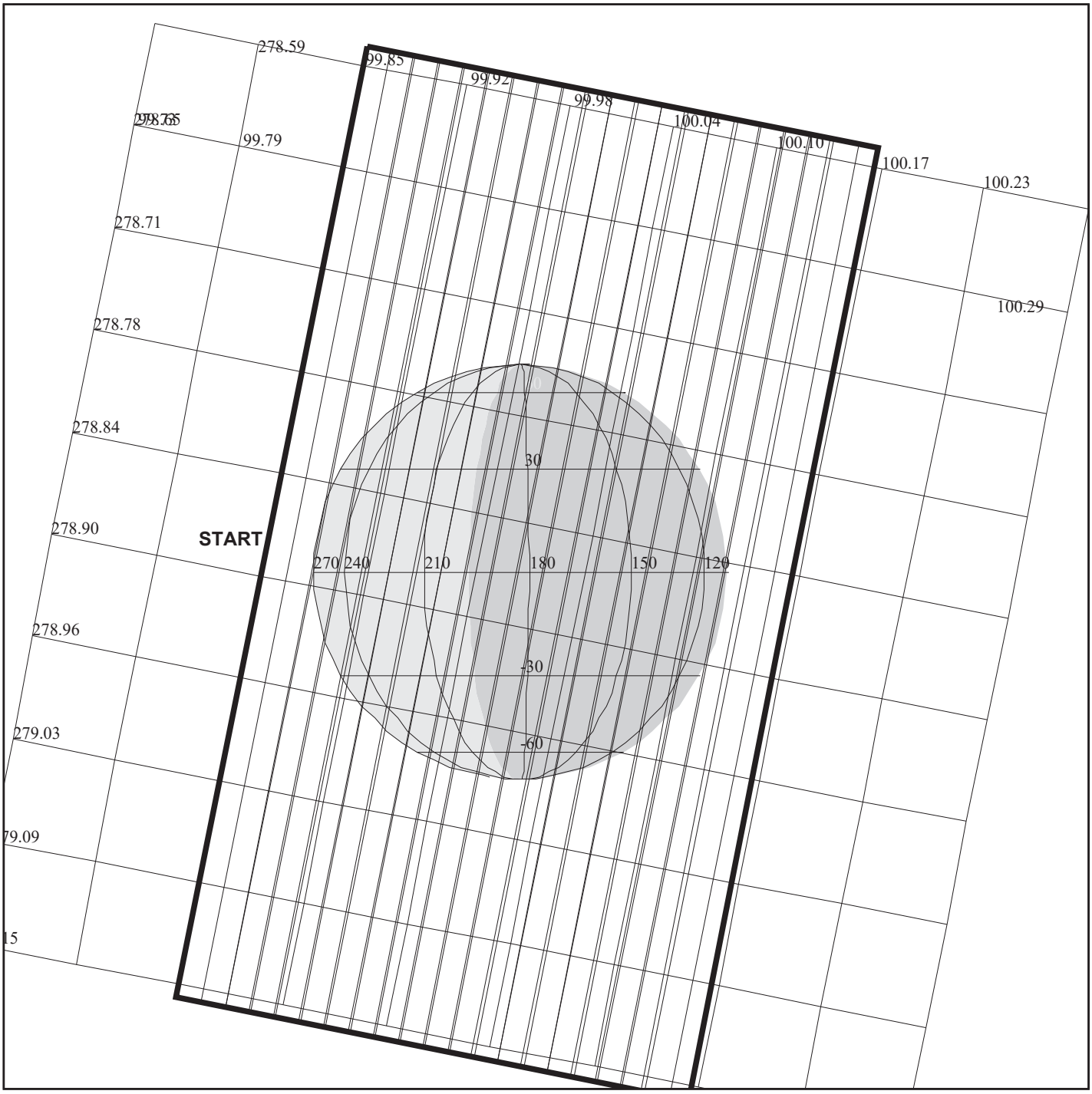
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

Galileo Activity Plan Form 09/25/97 15:50:04 rev 6/95



165FL:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/3005 TC= 3
A= 364 pD= 508 SR=17.450 RA50= 66.86 DEC50= 23.82 cone= 99.86 clock=278.87
117FL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3005
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 508 rD= 2

11INCHEMIS04

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INCHEMIS04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 +CDS 224:00:0

BODY PLOT TIME:TARGET-TIME D= 508 S= 0.400

OBSERVATION:11INCHEMIS04

DESCRIP:Monitoring_Of_Io_Dayside

ONITORING OF IO'S DAYSIDE CTIVITY ID: 11INCHEMIS04-
START TIME: 97-312/03:29:16.999

Activity ID: Orbit 11 Target I Inst N OAPEL CHEMIS SeqNo 04 -

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

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45
Start	IEE+CDS 00000221:00:0	97-312/03:29:16.999		IEE+000/03:43:27.333	
End	IEE+CDS 00000227:00:0	97-312/03:35:20.999		IEE+000/03:49:31.333	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	11INCHEMIS04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	156	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. so2 distribution) at resolutions better than ~800km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

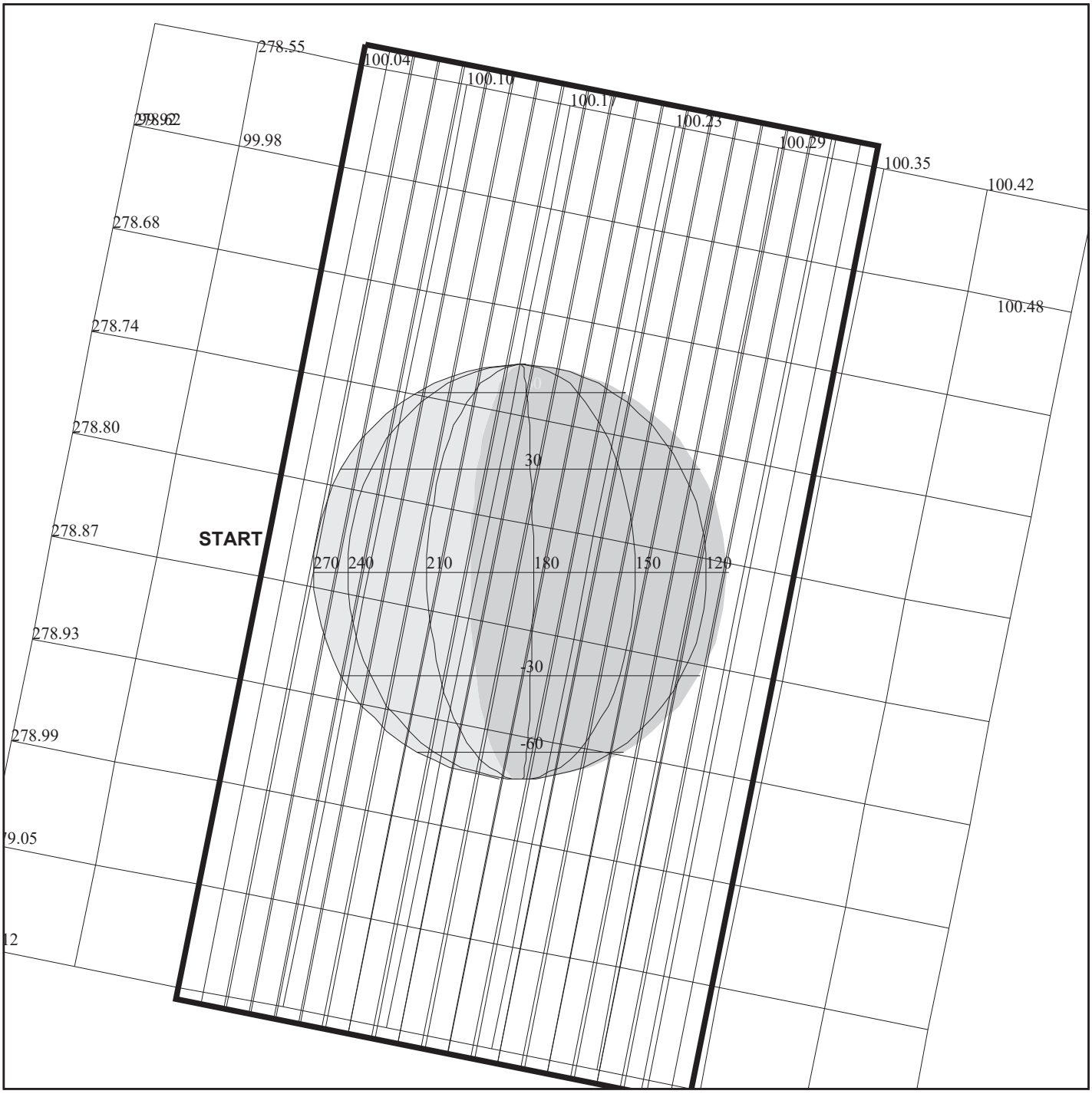
Design Detail

Partial or full disk mosaic 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, 360 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits to ground per orbit: 0.3 to 2.2 Mbits.
Record Mode = LPU
Gain State = 2

Long Map (LM), Gain 2, Grating Start 0, LPU, E11ILM243C, E11ILM228C

Galileo Activity Plan Form 09/25/97 15:50:04 rev 6/95



165FM:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/4097 TC= 3
A= 364 pD= 512 SR=17.450 RA50= 66.65 DEC50= 23.79 cone=100.05 clock=278.83
117FM:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4097
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11INTHRMAL04

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INTHRMAL04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 +CDS 230:00:0

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

OBSERVATION:11INTHRMAL04

DESCRIP:Monitoring_Of_Io_Nightside

MONITORING OF IO'S NIGHTSIDE

ACTIVITY ID: 11INTHRMAL04-
START TIME: 97-312/03:35:20.999

Activity ID: Orbit 11 Target I Inst N OAPEL THRMAL SeqNo 04 -

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

Time System	CDS	Load ID	Calendar Date	11/08/97	Week 45
Start	IEE+CDS 00000227:00:0	97-312/03:35:20.999		IEE+000/03:49:31.333	
End	IEE+CDS 00000234:00:0	97-312/03:42:25.666		IEE+000/03:56:36.000	
Duration	00000007:00:0	000/00:07:04.667		000/00:07:04.667	

Top Label 11INTHRMAL04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	154	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Thermal monitorimg 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.

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 resolutions for Loki.

Instrument Mode: Long Map,
Number of Wavelengths: 228,
Tracks used per orbit: 0.01 to 0.1,
Bits to ground used per orbit: 0.01 to 0.5 Mbits.
Record mode = LPU, Nyquist sampling,
gain state = 4.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ILMDRK243D, E11ILMDRK228D

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD11-
START TIME: 97-312/04:47:08.399

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 11 -

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

Time System	CDS	Load ID	Calendar Date	11/08/97	Week 45
Start	JEE+CDS 00001667:00:0	97-312/04:47:08.399		JEE+001/04:05:31.333	
End	JEE+CDS 00001677:00:0	97-312/04:57:15.066		JEE+001/04:15:38.000	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label 11NNRELOAD11-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

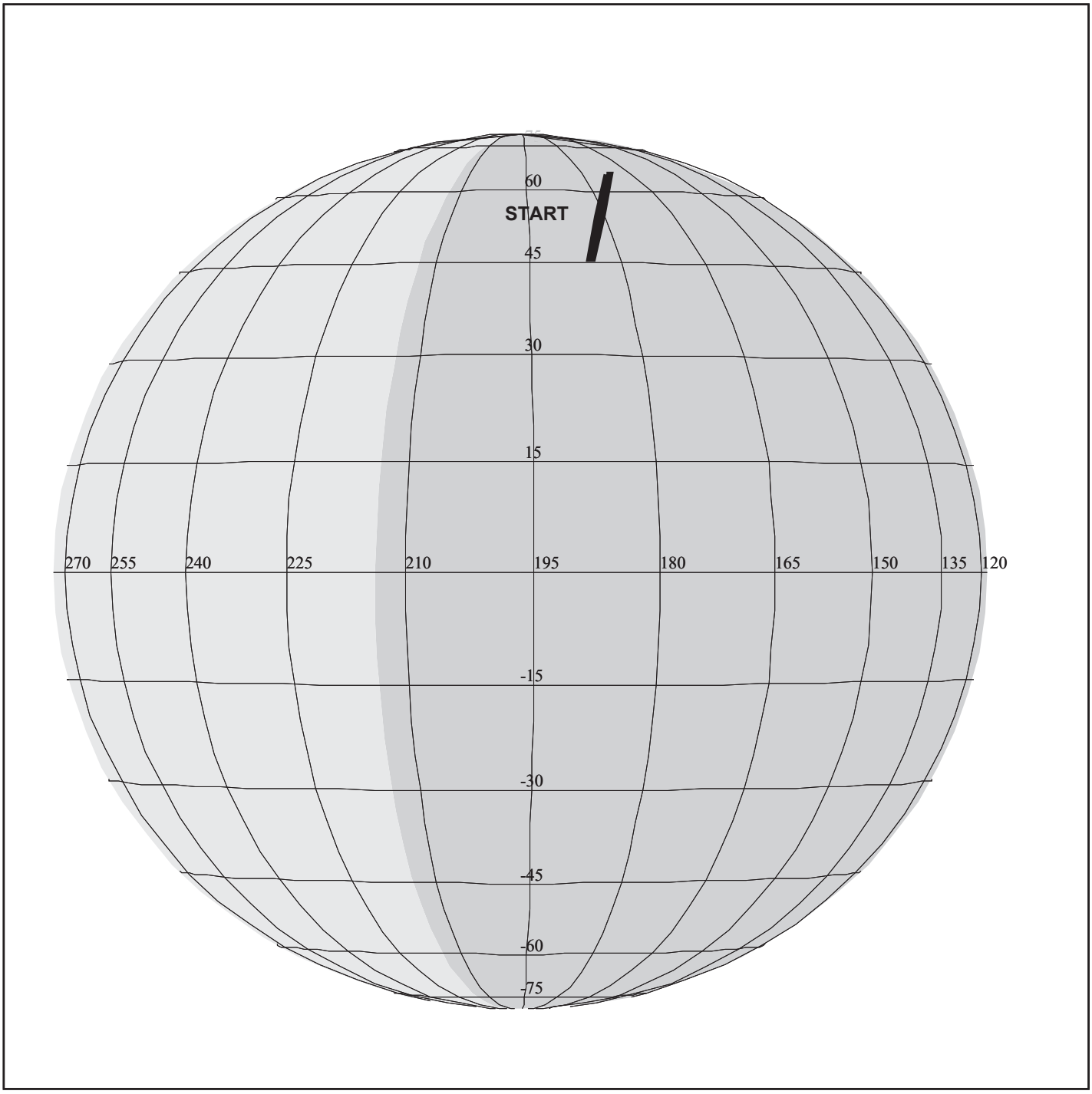
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

Galileo Activity Plan Form 09/25/97 15:50:04 rev 6/95



165AV:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8475 TC= 1(54 181)
A= 364 pD= 2912 SR=17.450 RA50= 68.67 DEC50= 26.50 cone= 97.40 clock=276.89

11JNAURVAR01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JUAURVAR01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:JEE 97-311/00:41:37.066 +CDS 1678:00:0 **BODY PLOT TIME:TARGET-TIME D= 2912 S= 0.900**

OBSERVATION:11JUAURVAR01 **DESCRIP:Aurora variability**

NIMS Aurora Observation

ACTIVITY ID: 11JNAURVAR01+
START TIME: 97-312/04:57:15.066

Activity ID: Orbit 11 Target J Inst N OAPEL AURVAR SeqNo 01 +

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

Time System	CDS	Load ID	Calendar Date	11/08/97	Week 45
Start	JEE+CDS 00001677:00:0	97-312/04:57:15.066		JEE+001/04:15:38.000	
End	JEE+CDS 00001694:00:0	97-312/05:14:26.399		JEE+001/04:32:49.333	
Duration	00000017:00:0	000/00:17:11.333		000/00:17:11.333	

Top Label 11JNAURVAR01+
Bottom Label

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

Observation Objective

NIMS Aurora ride-along observation with UVS.

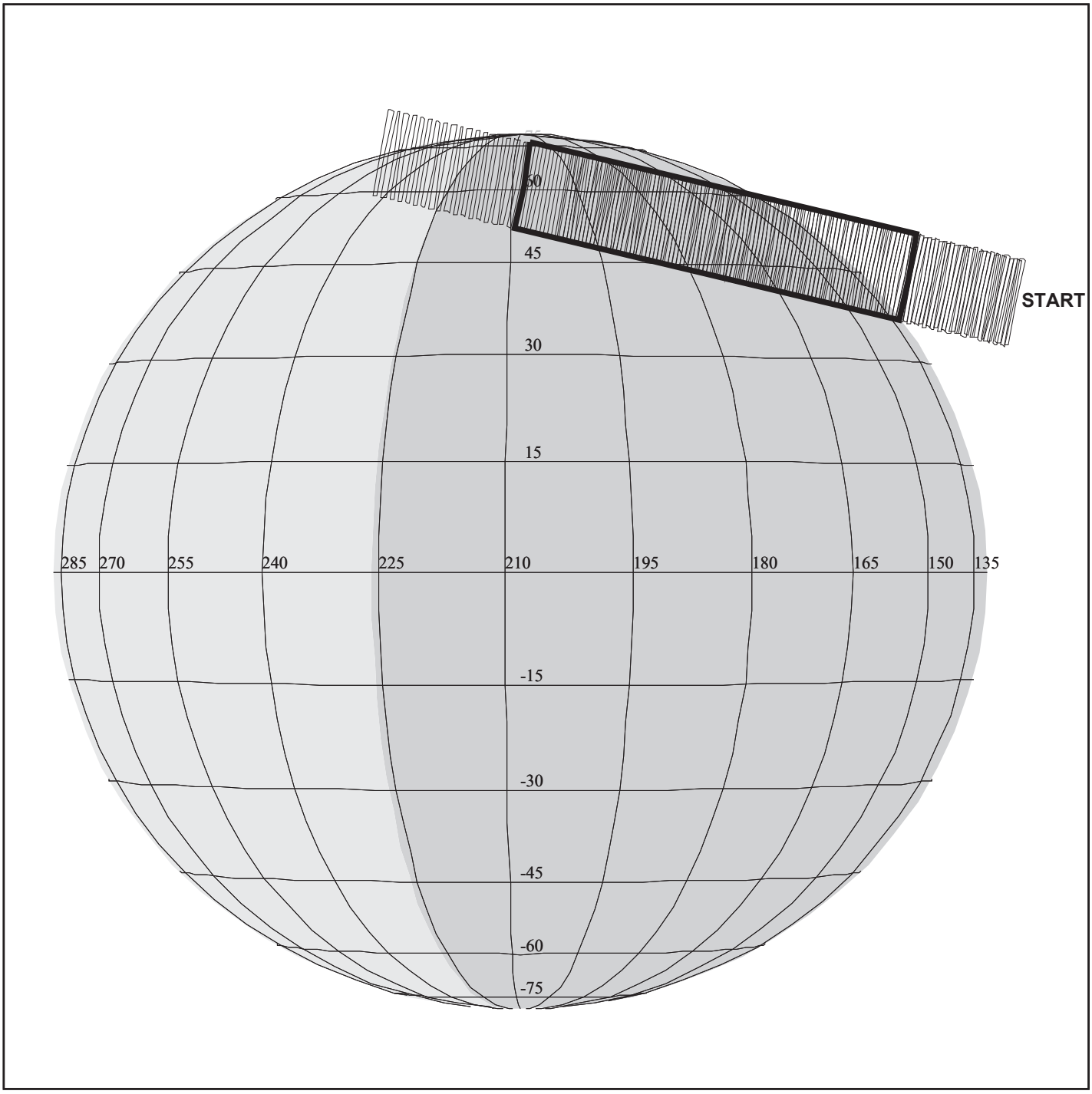
Data Returned

Design Detail

Instrument mode = LM

Long Map (LM), Gain 4, Grating Start 0, LPU, B_JAU243, B_JAU40A

Galileo Activity Plan Form 09/25/97 15:50:04 rev 6/95



165AX:TT= 0 TMC= 1 C= 50.00 XC= -42.00 BS= 0/2115 TC= 3
A= 182 pD= 0 SR=17.450 RA50= 66.28 DEC50= 25.58 cone= 99.74 clock=277.02
117AX:#SB= 2 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/2115
1:#s= 1 Cs= -84.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4240 rD= 2
2:#s= 1 Cs= -60.00 XCs= 0.00 Cr= 74.00 XCr= 2.50 sD= 3010 rD= 28

11JNAURVAR02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JUAURVAR02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 1698:00:0

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

OBSERVATION:11JUAURVAR02

DESCRIP:Aurora variability

NIMS Aurora Observation

ACTIVITY ID: 11JNAURVAR02+
START TIME: 97-312/05:18:29.066

Activity ID: Orbit 11 Target J Inst N OAPEL AURVAR SeqNo 02 +

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

Time System	CDS	Load ID	Calendar Date 11/08/97 Week 45
Start	JEE+CDS 1698:00:0	97-312/05:18:29.066	JEE+001/04:36:52.000
End	JEE+CDS 1738:00:0	97-312/05:58:55.732	JEE+001/05:17:18.666
Duration	00000040:00:0	000/00:40:26.666	000/00:40:26.666

Top Label 11JNAURVAR02+
Bottom Label

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

Observation Objective

NIMS Aurora ride-along observation with UVS.

Data Returned

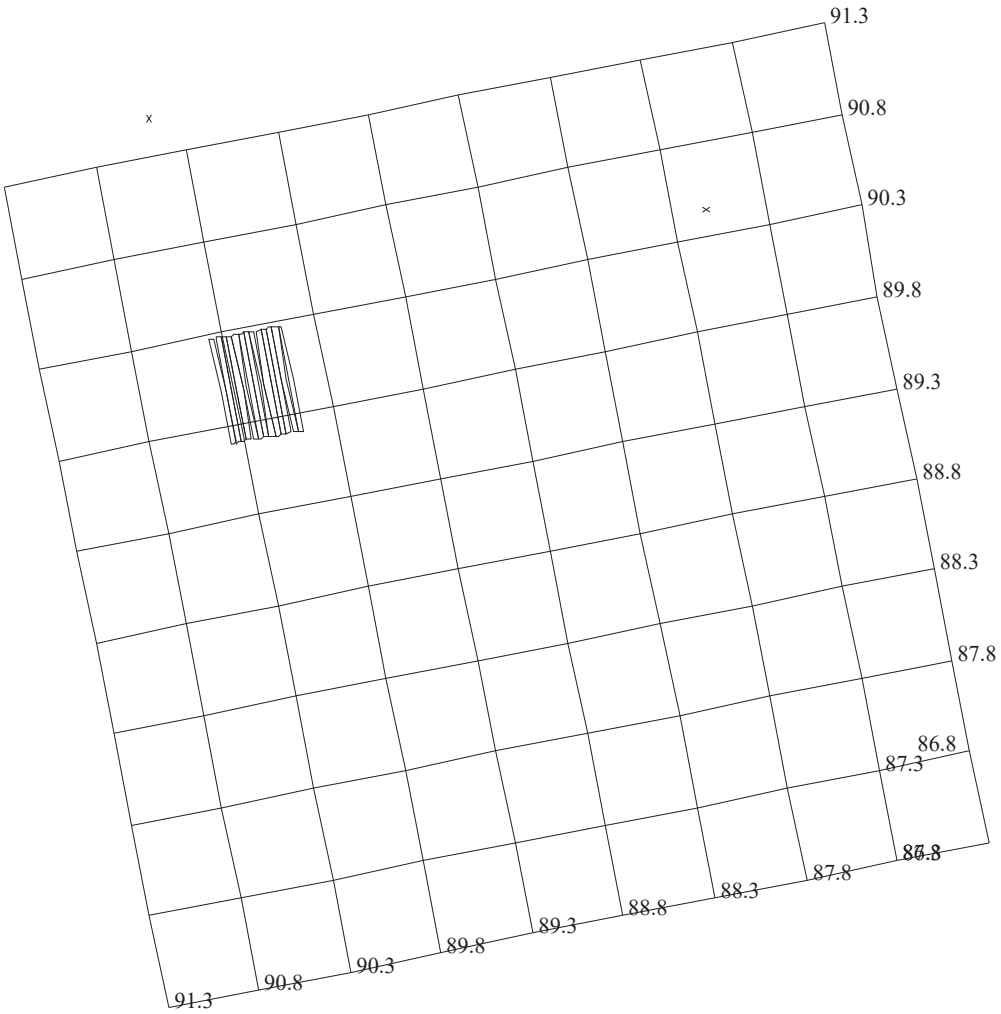
Design Detail

Instrument mode = LM.

Center 1/2 of swath returned.

Long Map (LM), Gain 4, Grating Start 0, LPU, B_JAU243, B_JAU228

Galileo Activity Plan Form 09/25/97 15:50:04 rev 6/95



165EY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2509 TC= 2(90 90)
A= 728 pD= 0 SR=17.450 RA50=254.30 DEC50=-35.38 cone= 90.00 clock= 90.00
117EY:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2509
1:#s= 1 Cs= 6.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

11HNDARK__04

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11HNDARK__04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 1865:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:11HNDARK__04 **DESCRIP:NIMS_Dark_Observation**

NIMS Dark Observation

ACTIVITY ID: 11HNDARK__04-
START TIME: 97-312/08:02:17.066

Activity ID: Orbit 11 Target H Inst N OAPEL DARK__ SeqNo 04 -

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

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45
Start	JEE+CDS 00001860:00:0	97-312/08:02:17.066		JEE+001/07:20:40.000	
End	JEE+CDS 00001867:00:0	97-312/08:09:21.732		JEE+001/07:27:44.666	
Duration	00000007:00:0	000/00:07:04.666		000/00:07:04.666	

Top Label	11HNDARK__04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation.

Obtain 1 Rim of dark sky data.

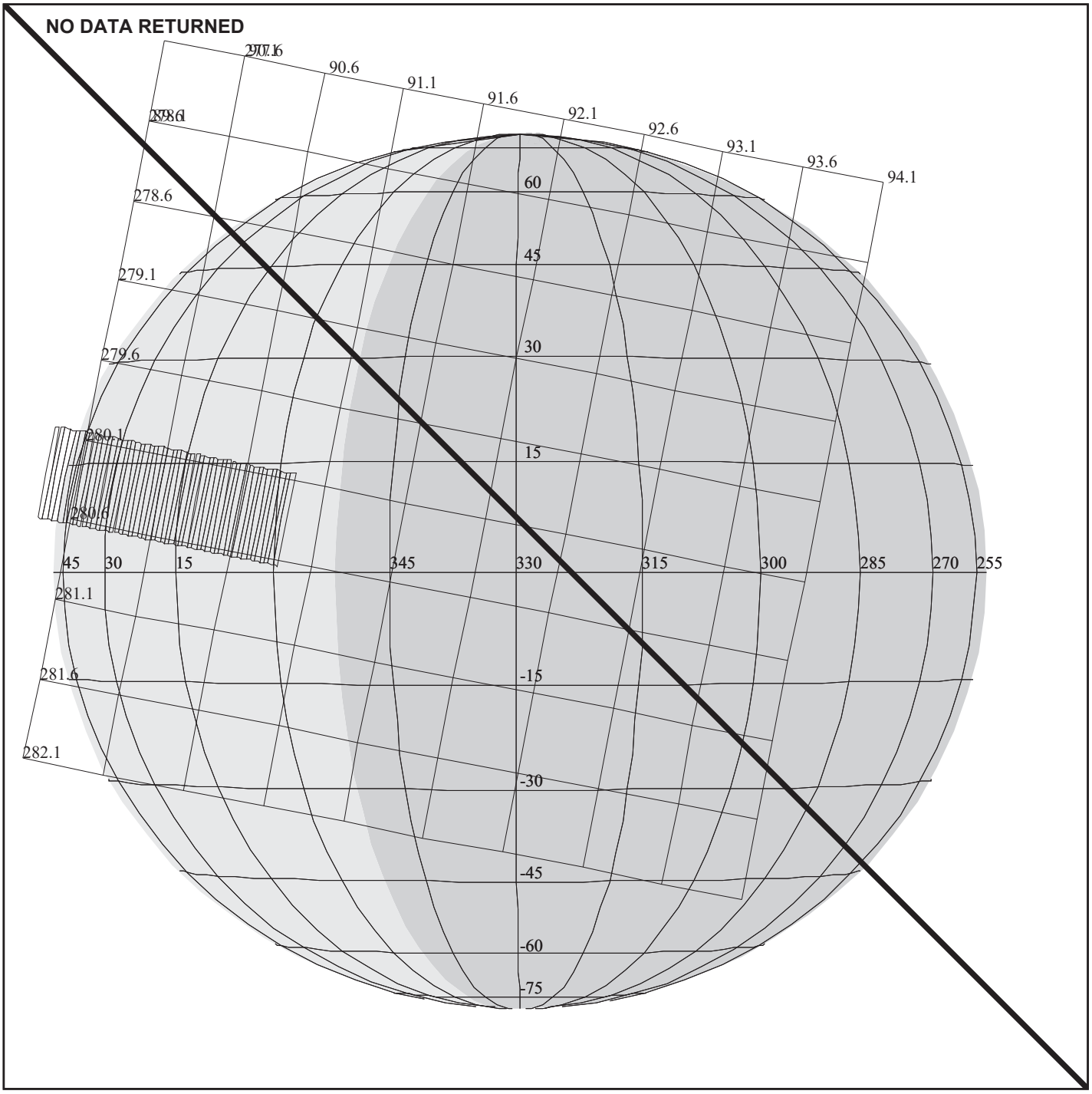
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 Rim.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11DRK252, E11DRK32

Galileo Activity Plan Form 09/25/97 15:50:04 rev 6/95



165FP:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/9607 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 78.31 DEC50= 25.64 cone= 89.40 clock=280.31
117FP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9607
1:#s= 1 Cs= 26.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

11JNBRG11401

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG11401

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 1904:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG11401 **DESCRIP:BROWN_BARGE_OBS_114_DEG_PHASE**

Brown Barge Obs 114 deg phase

ACTIVITY ID: 11JNBRG11401-
START TIME: 97-312/08:41:43.066

Activity ID: Orbit 11 Target J Inst N OAPEL BRG114 SeqNo 01 -

Title	Brown Barge Obs 114 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45
Start	JEE+CDS 00001899:00:0	97-312/08:41:43.066		JEE+001/08:00:06.000	
End	JEE+CDS 00001908:00:0	97-312/08:50:49.066		JEE+001/08:09:12.000	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	11JNBRG11401-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of four OAPels constituting observations of the Brown Barge feature at 114 degrees phase.

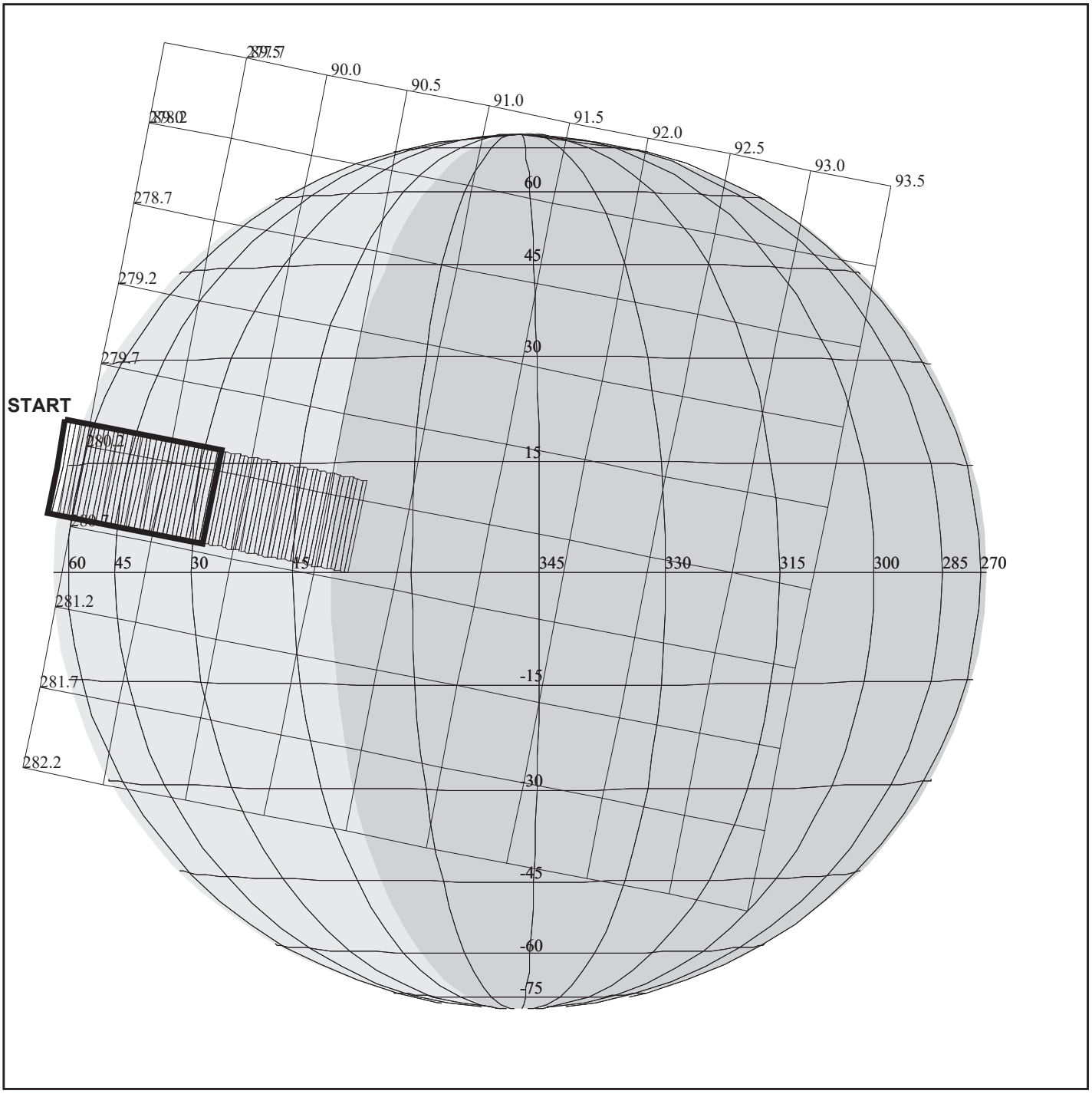
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 19.8 Rj, NIMS IFOV = 680km. Nominal incidence angel is 35 degrees, emission angle is 83 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:04 rev 6/95



165FQ:TT= 0 TMC= 1 C= -4.50 XC= 0.00 BS= 0/5067 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 78.89 DEC50= 25.71 cone= 88.88 clock=280.39
117FQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5067
1:#s= 1 Cs= 33.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNBRG11402

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG11402

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 1934:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG11402 **DESCRIP:BROWN_BARGE_OBS_114_DEG_PHASE**

Brown Barge Obs 114 deg phase

ACTIVITY ID: 11JNBRG11402-
START TIME: 97-312/09:12:03.066

Activity ID: Orbit 11 Target J Inst N OAPEL BRG114 SeqNo 02 -

Title	Brown Barge Obs 114 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 11/08/97 Week 45
Start	JEE+CDS 00001929:00:0	97-312/09:12:03.066	JEE+001/08:30:26.000
End	JEE+CDS 00001939:00:0	97-312/09:22:09.732	JEE+001/08:40:32.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 11JNBRG11402-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of four OAPels constituting observations of the Brown Barge feature at 114 degrees phase.

Data Returned

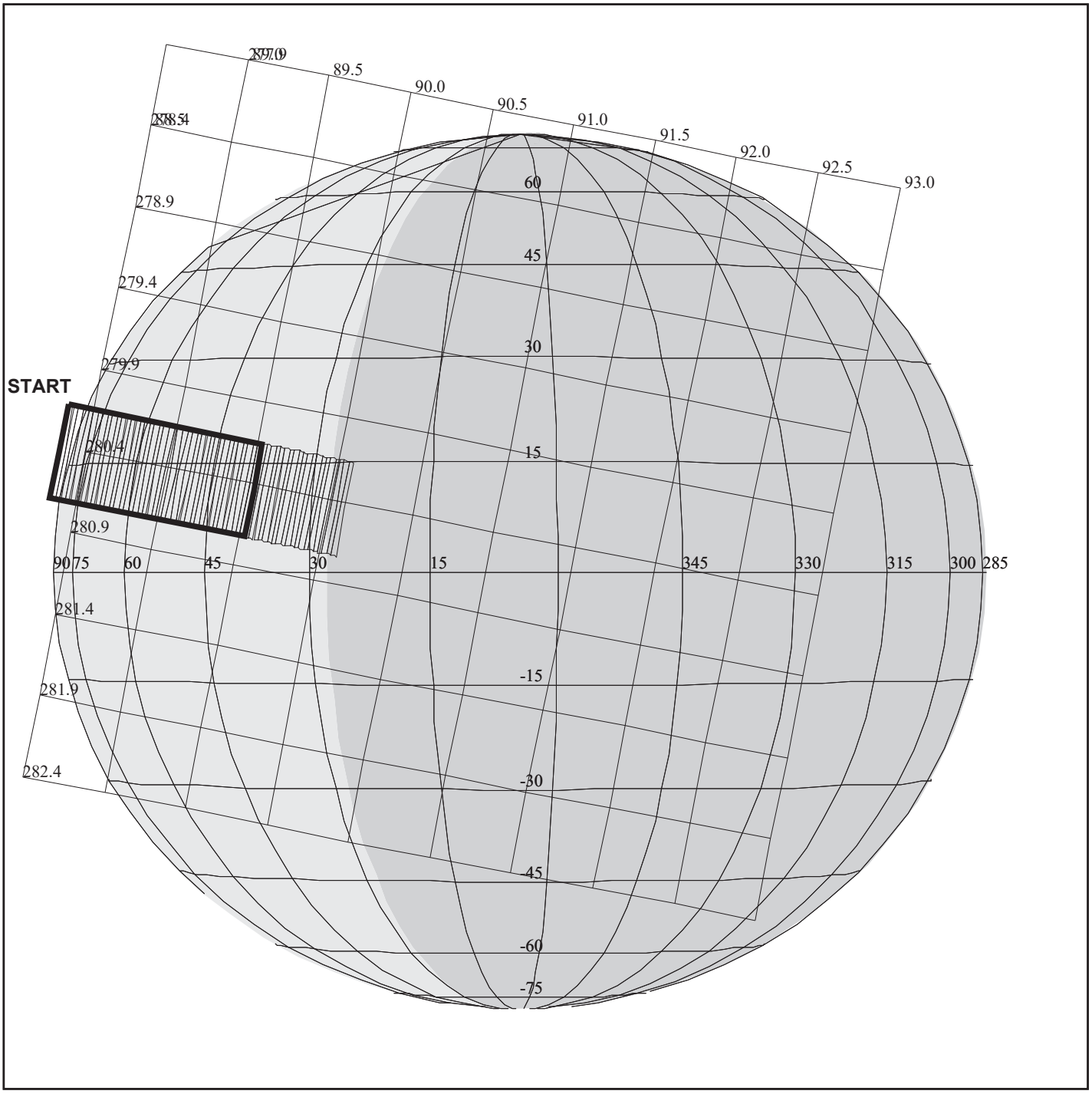
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 19.8 Rj, NIMS IFOV = 70km. Nominal incidence is 50 degrees, emission angle is 66 degrees.

Return first half of Swath.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:05 rev 6/95



165FR:TT= 0 TMC= 1 C= -12.00 XC= 0.00 BS= 0/0345 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 79.48 DEC50= 25.82 cone= 88.34 clock=280.41
117FR:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0345
1:#s= 1 Cs= 31.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 852 rD= 2

11JNBRG11403

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG11403

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 1963:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG11403 **DESCRIP:BROWN_BARGE_OBS_114_DEG_PHASE**

Brown Barge Obs 114 deg phase — ACTIVITY ID: 11JNBRG11403-
START TIME: 97-312/09:41:22.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG114 SeqNo 03 -

Title	Brown Barge Obs 114 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45
Start	JEE+CDS 00001958:00:0	97-312/09:41:22.399		JEE+001/08:59:45.333	
End	JEE+CDS 00001970:00:0	97-312/09:53:30.399		JEE+001/09:11:53.333	
Duration	00000012:00:0	000/00:12:08.000		000/00:12:08.000	

Top Label	11JNBRG11403-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of four OAPels constituting observations of the Brown Barge feature at 114 degrees phase.

Data Returned

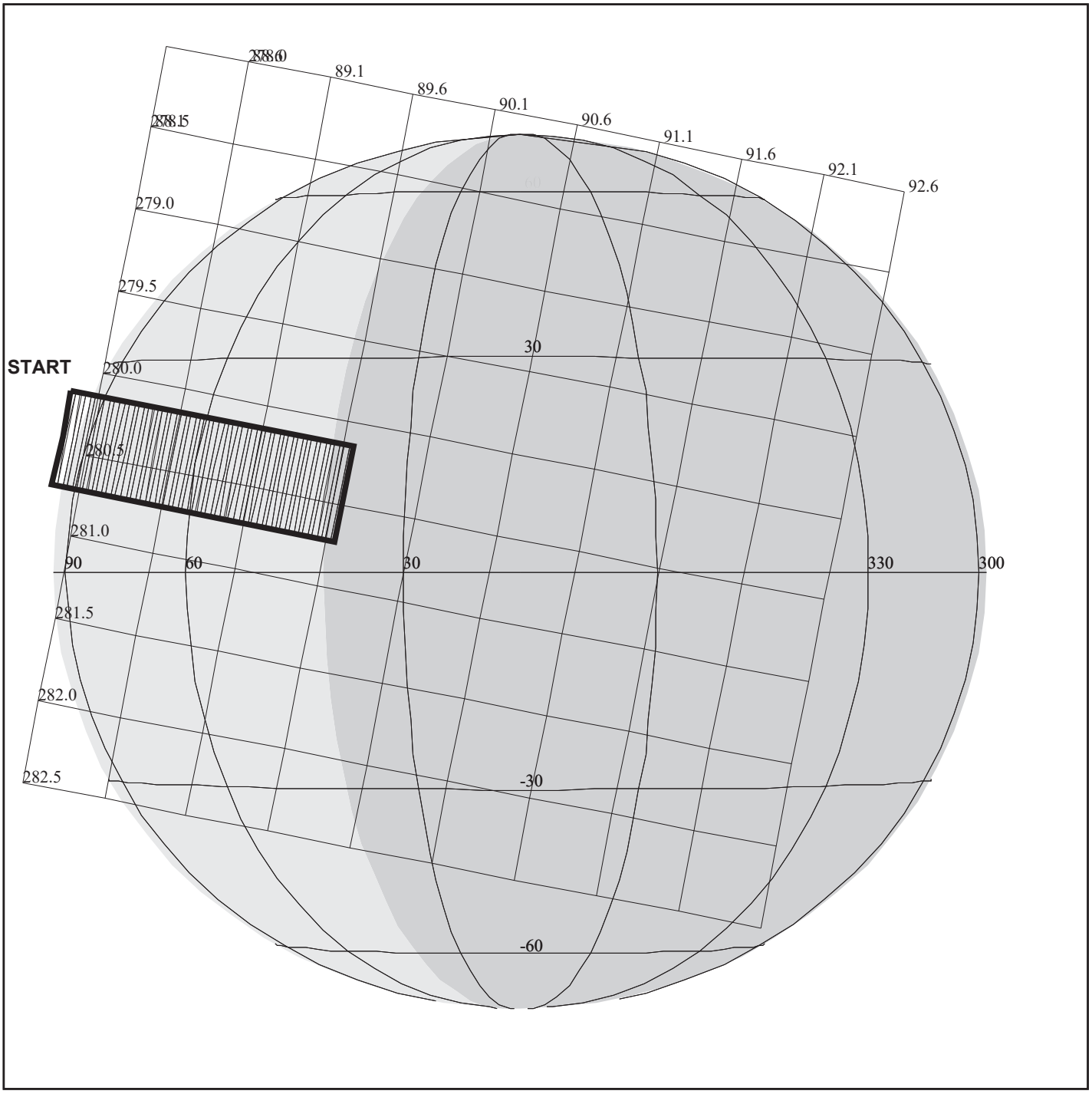
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 19.7 Rj, NIMS IFOV = 700km. Nominal incidence angle is 67.3 degrees, emission angle is 50.3 degrees.

First 2/3 of swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:05 rev 6/95



165FS:TT= 0 TMC= 1 C= -19.20 XC= 0.00 BS= 0/3985 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 79.88 DEC50= 25.92 cone= 87.97 clock=280.41
117FS:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3985
1:#s= 1 Cs= 30.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 840 rD= 2

11JNBRG11404

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG11404

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 1983:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG11404 **DESCRIP:BROWN_BARGE_OBS_114_DEG_PHASE**

Brown Barge Obs 114 deg phase — ACTIVITY ID: 11JNBRG11404-
START TIME: 97-312/10:01:35.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG114 SeqNo 04 -

Title	Brown Barge Obs 114 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45
Start	JEE+CDS 00001978:00:0	97-312/10:01:35.732		JEE+001/09:19:58.666	
End	JEE+CDS 00001990:00:0	97-312/10:13:43.732		JEE+001/09:32:06.666	
Duration	00000012:00:0	000/00:12:08.000		000/00:12:08.000	

Top Label	11JNBRG11404-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of four OAPels constituting observations of the Brown Barge feature at 114 degrees phase.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 19.8 Rj, NIMS IFOV = 700km. Nominal incidence angle is 80 degrees, emission angle is 39 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:05 rev 6/95

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD13- / START TIME: 97-312/18:24:07.066

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 13 -

Title	NIMS Real-Time Software Reload	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 11/08/97 Week 45
Start	JEE+CDS 2475:00:0	97-312/18:24:07.066	JEE+001/17:42:30.000
End	JEE+CDS 2485:00:0	97-312/18:34:13.732	JEE+001/17:52:36.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 11NNRELOAD13-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

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

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

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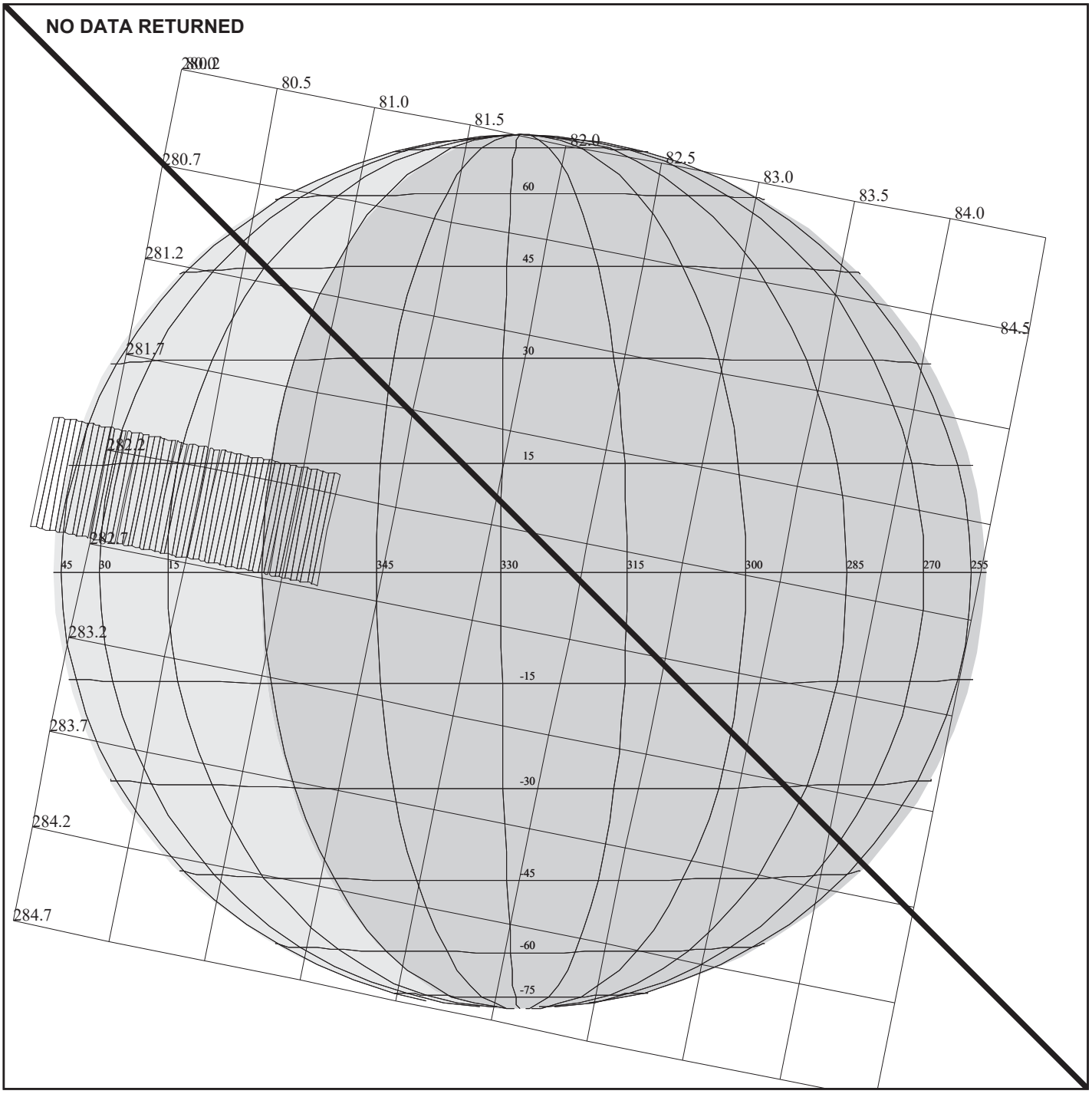


165FU:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/9353 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 89.28 DEC50= 25.81 cone= 79.74 clock=282.38
117FU:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9353
1:#s= 1 Cs= 26.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

11JNBRG12501

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG12501

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 2507:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG12501 **DESCRIP:BROWN_BARGE_OBS_125_DEG_PHASE**

Brown Barge Obs 125 deg phase

ACTIVITY ID: 11JNBRG12501-
START TIME: 97-312/18:52:25.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG125 SeqNo 01 -

Title	Brown Barge Obs 125 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45
Start	JEE+CDS 2503:00:0		97-312/18:52:25.732		JEE+001/18:10:48.666
End	JEE+CDS 2511:00:0		97-312/19:00:31.066		JEE+001/18:18:54.000
Duration	00000008:00:0		000/00:08:05.334		000/00:08:05.334

Top Label	11JNBRG12501-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of four OAPels constituting observations of the Brown Barge feature at 125 degrees phase.

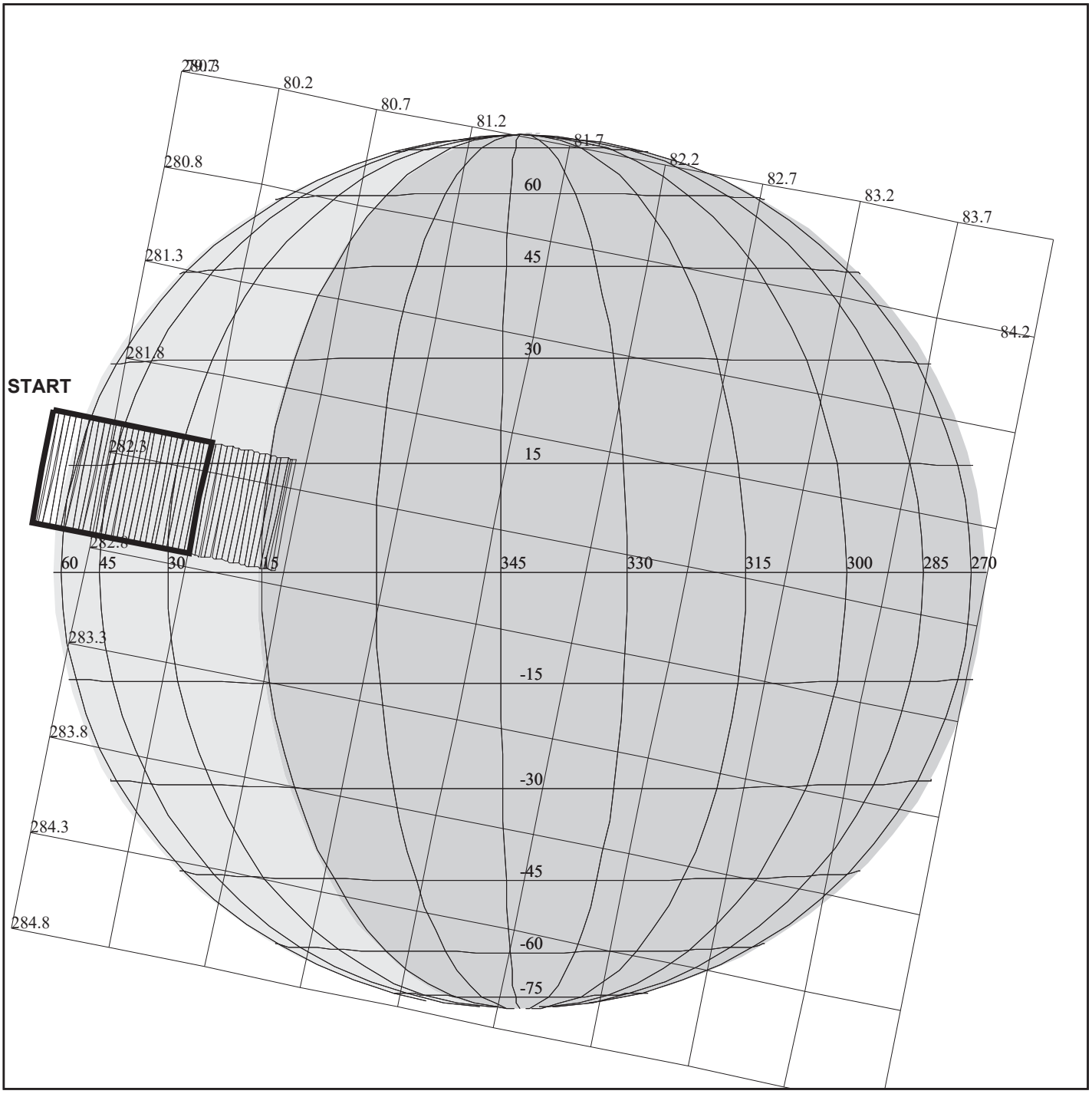
No Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 23.9 Rj, NIMS IFOV = 830km. Nominal incidence angle is 44 degrees, emission angle is 83 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:05 rev 6/95



165FV:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/3903 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 89.65 DEC50= 25.83 cone= 79.41 clock=282.42
117FV:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3903
1:#s= 1 Cs= 22.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 608 rD= 2

11JNBRG12502

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG12502

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 2532:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG12502 **DESCRIP:BROWN_BARGE_OBS_125_DEG_PHASE**

Brown Barge Obs 125 deg phase — ACTIVITY ID: 11JNBRG12502-
START TIME: 97-312/19:16:41.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG125 SeqNo 02 -

Title	Brown Barge Obs 125 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45
Start	JEE+CDS 00002527:00:0	97-312/19:16:41.732		JEE+001/18:35:04.666	
End	JEE+CDS 00002538:00:0	97-312/19:27:49.066		JEE+001/18:46:12.000	
Duration	00000011:00:0	000/00:11:07.334		000/00:11:07.334	

Top Label	11JNBRG12502-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of four OAPels constituting observations of the Brown Barge feature at 125 degrees phase.

Data Returned

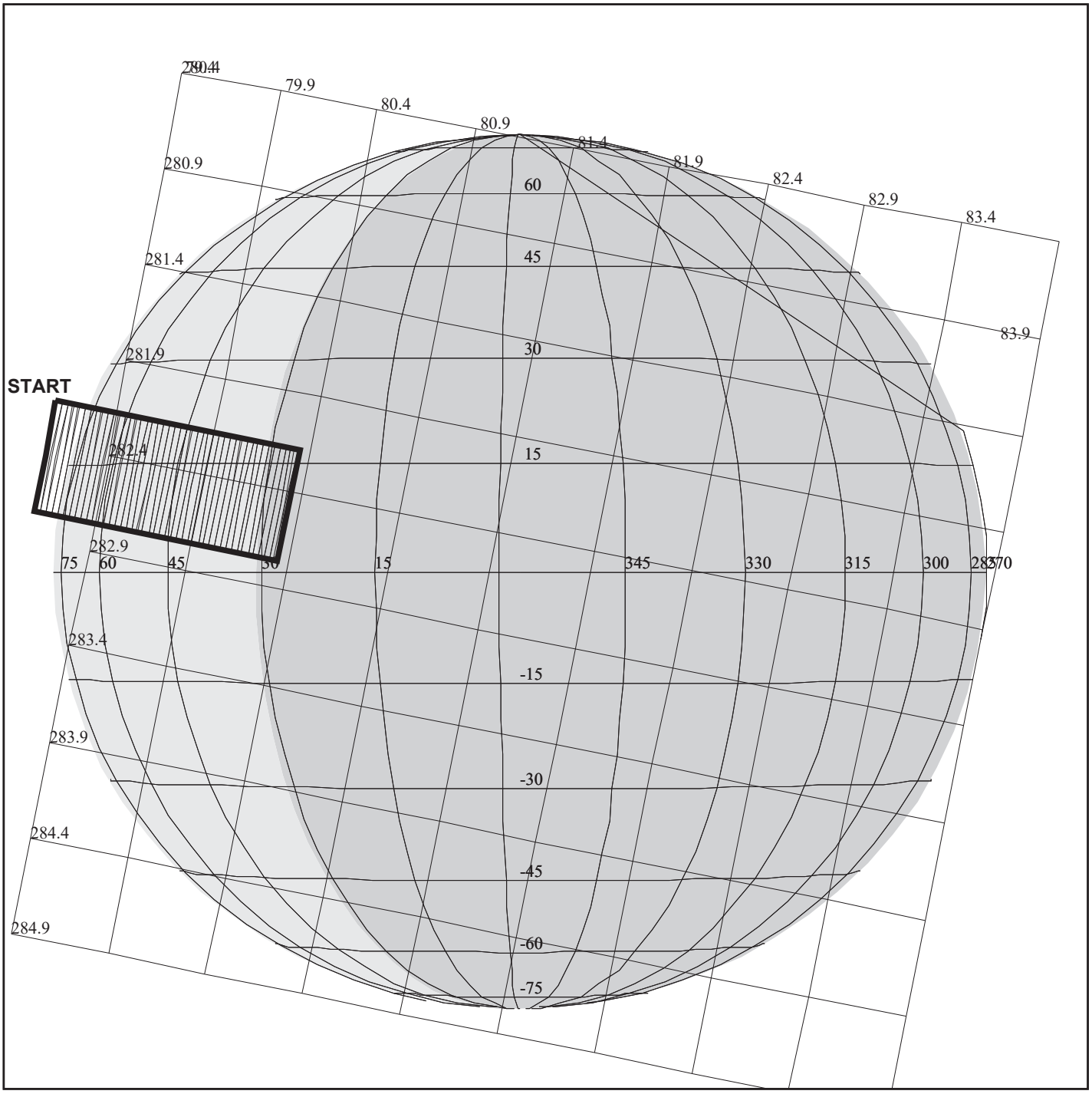
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 23.9 Rj, NIMS IFOV = 850km. Nominal incidence angle is 55 degrees, emission angle is 71 degrees.

First 2/3 of swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:05 rev 6/95



165FW:TT= 0 TMC= 1 C= -8.50 XC= 0.00 BS= 0/8453 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 90.01 DEC50= 25.87 cone= 79.08 clock=282.44
117FW:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8453
1:#s= 1 Cs= 22.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 608 rD= 2

11JNBRG12503

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG12503

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 2557:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG12503 **DESCRIP:BROWN_BARGE_OBS_125_DEG_PHASE**

Brown Barge Obs 125 deg phase

ACTIVITY ID: 11JNBRG12503-
START TIME: 97-312/19:41:58.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG125 SeqNo 03 -

Title	Brown Barge Obs 125 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45
Start	JEE+CDS 00002552:00:0	97-312/19:41:58.399		JEE+001/19:00:21.333	
End	JEE+CDS 00002561:00:0	97-312/19:51:04.399		JEE+001/19:09:27.333	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	11JNBRG12503-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of four OAPels constituting observations of the Brown Barge feature at 125 degrees phase.

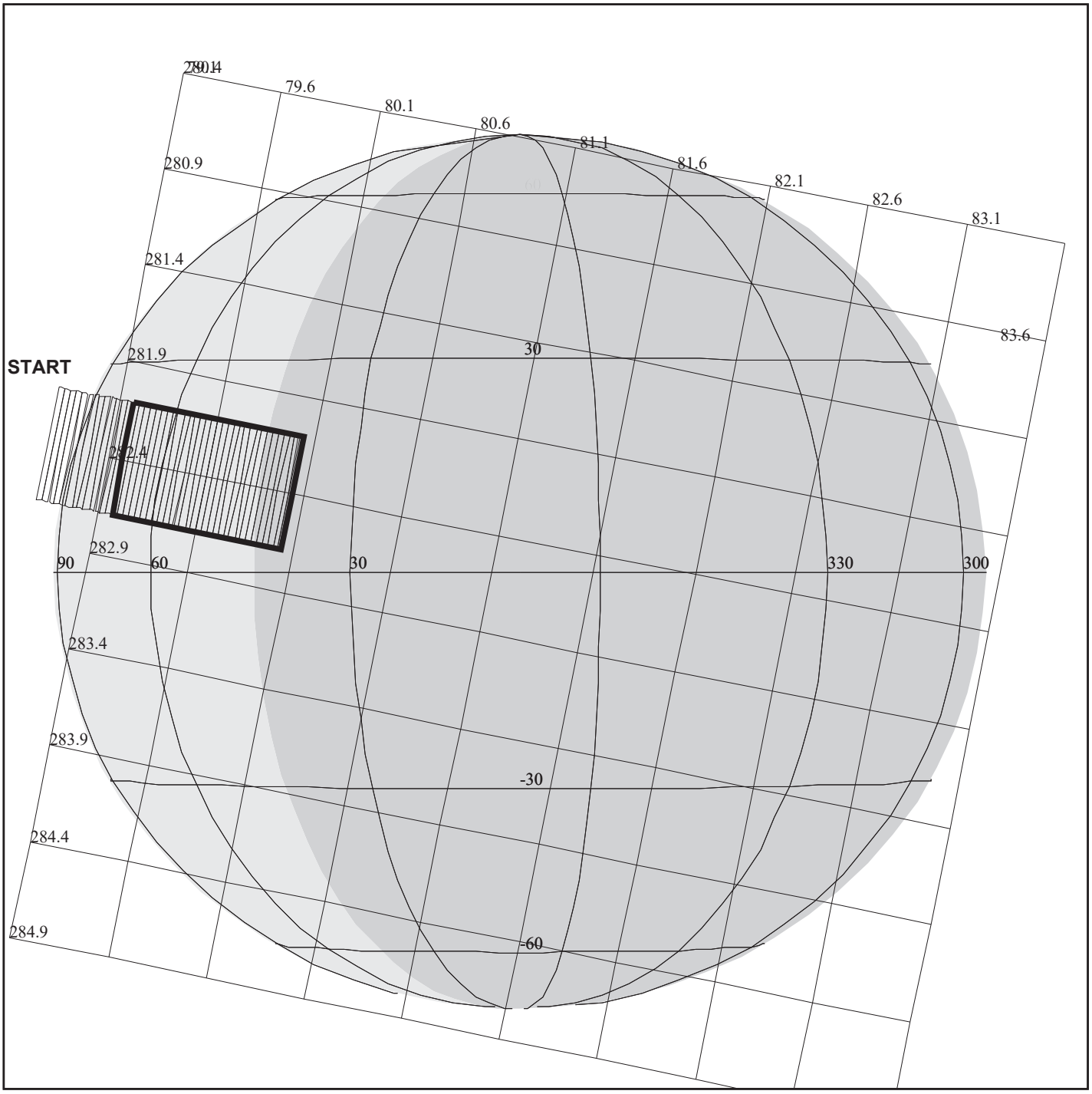
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 23.8 Rj, NIMS IFOV = 850km. Nominal incidence angle is 70 degrees, emission angle is 56 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:05 rev 6/95



165FX:TT= 0 TMC= 1 C= -13.80 XC= 0.00 BS= 0/2093 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 90.29 DEC50= 25.92 cone= 78.82 clock=282.43
117FX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2093
1:#s= 1 Cs= 22.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 608 rD= 2

11JNBRG12504

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG12504

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 2577:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG12504 **DESCRIP:BROWN_BARGE_OBS_125_DEG_PHASE**

Brown Barge Obs 125 deg phase — ACTIVITY ID: 11JNBRG12504-
START TIME: 97-312/20:02:11.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG125 SeqNo 04 -

Title	Brown Barge Obs 125 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45
Start	JEE+CDS 00002572:00:0	97-312/20:02:11.732		JEE+001/19:20:34.666	
End	JEE+CDS 00002581:00:0	97-312/20:11:17.732		JEE+001/19:29:40.666	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	11JNBRG12504-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of four OAPels constituting observations of the Brown Barge feature at 125 degrees phase.

Data Returned

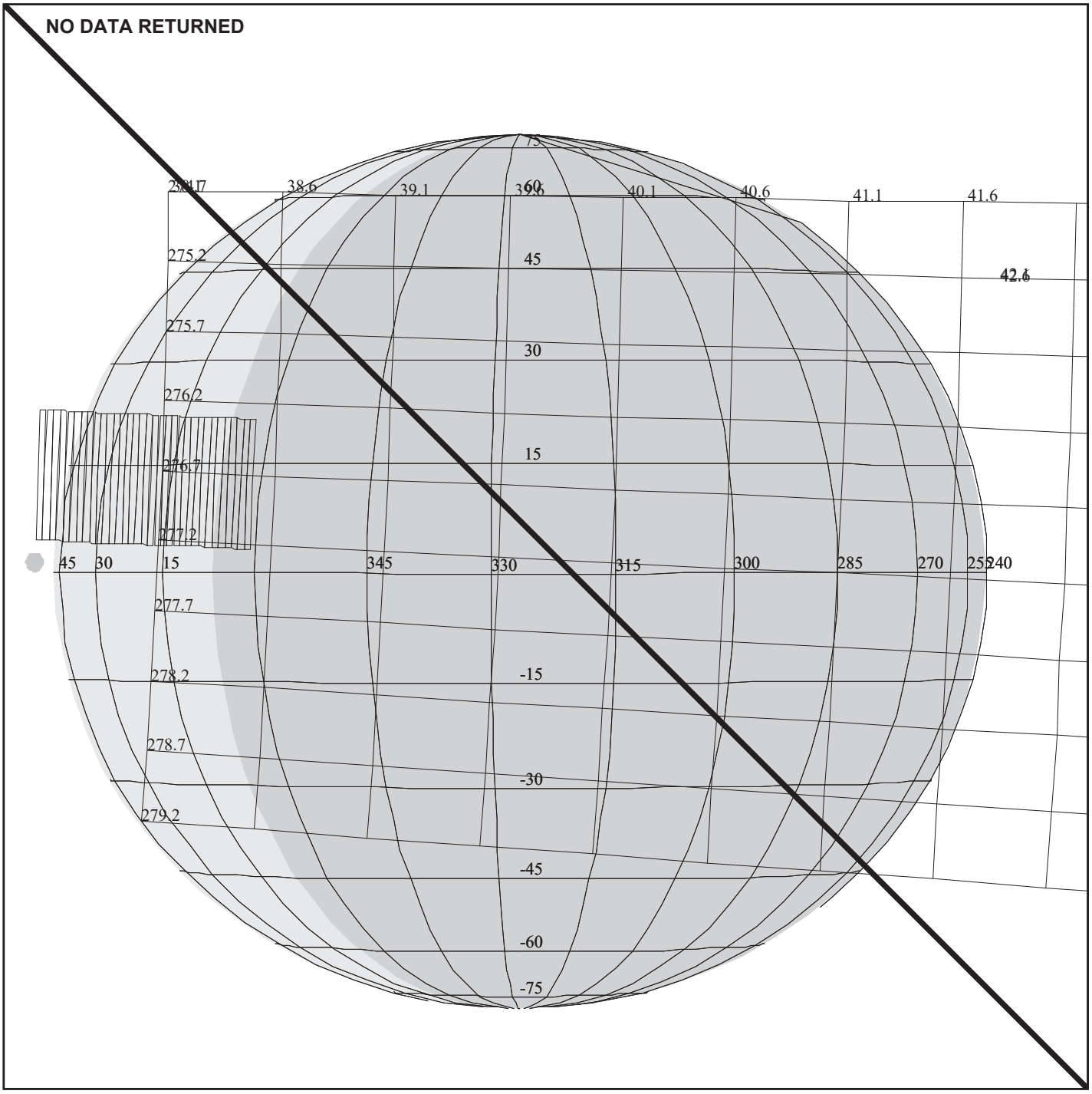
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 13.8 Rj, NIMS IFOV = 850km. Nominal incidence angle is 82.5 degrees, emission angle is 44.5 degrees.

First Rim of swath lost in playback gap.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:05 rev 6/95



165FZ:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/8371 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 97.10 DEC50= 25.42 cone= 37.58 clock=276.81
117FZ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8371
1:#s= 1 Cs= 16.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 456 rD= 2

11JNBRG13501

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG13501

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 3106:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG13501 **DESCRIP:ROWN_BARGE_OBS_135_DEG_PHASE**

Brown Barge Obs 135 deg phase — ACTIVITY ID: 11JNBRG13501-
START TIME: 97-313/04:57:04.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG135 SeqNo 01 -

Title	Brown Barge Obs 135 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/09/97 Week 45
Start	JEE+CDS 00003101:00:0	97-313/04:57:04.399		JEE+002/04:15:27.333	
End	JEE+CDS 00003109:00:0	97-313/05:05:09.732		JEE+002/04:23:32.666	
Duration	00000008:00:0	000/00:08:05.333		000/00:08:05.333	

Top Label	11JNBRG13501-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of four OAPels constituting observations of the Brown Barge feature at 135 degrees phase.

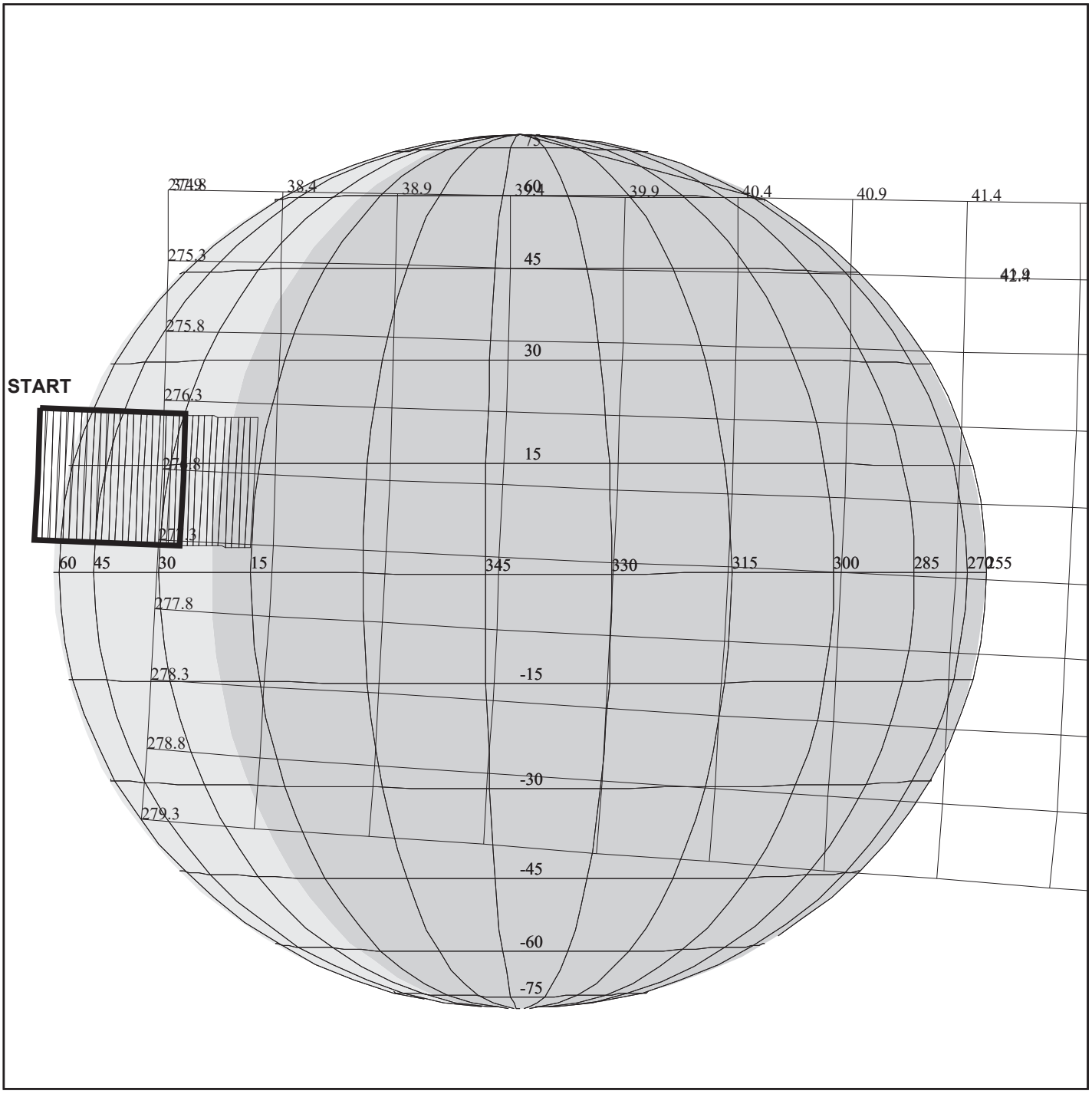
No Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. NIMS IFOV = 1000km. Nominal incidence angle = 48 degrees, emission angle = 85 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:06 rev 6/95



165KA:TT= 0 TMC= 1 C= -3.50 XC= 0.00 BS= 0/2739 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 97.37 DEC50= 25.41 cone= 37.34 clock=276.83
117KA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2739
1:#s= 1 Cs= 16.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 456 rD= 2

11JNBRG13502

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG13502

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 3130:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG13502 **DESCRIP:ROWN_BARGE_OBS_135_DEG_PHASE**

Brown Barge Obs 135 deg phase

ACTIVITY ID: 11JNBRG13502-
START TIME: 97-313/05:21:20.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG135 SeqNo 02 -

Title	Brown Barge Obs 135 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/09/97 Week 45
Start	JEE+CDS 00003125:00:0	97-313/05:21:20.399		JEE+002/04:39:43.333	
End	JEE+CDS 00003133:00:0	97-313/05:29:25.732		JEE+002/04:47:48.666	
Duration	00000008:00:0	000/00:08:05.333		000/00:08:05.333	

Top Label	11JNBRG13502-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of four OAPels constituting observations of the Brown Barge feature at 135 degrees phase.

Data Returned

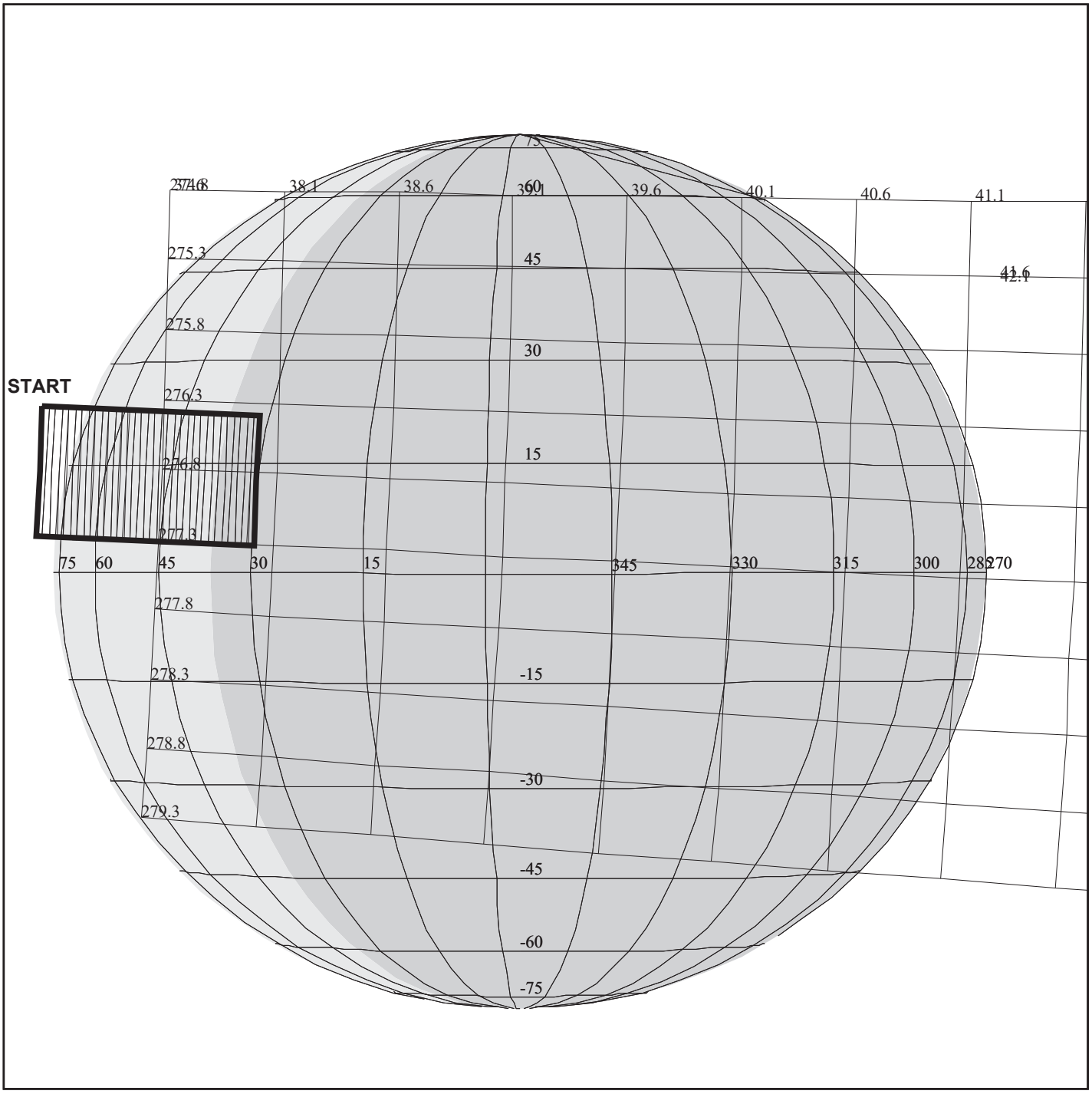
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. NIMS IFOV = 1000km. Nominal incidence angle = 59 degrees, emission angle = 74 degrees.

First 2/3 of swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:06 rev 6/95



165KB:TT= 0 TMC= 1 C= -7.20 XC= 0.00 BS= 0/7289 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 97.64 DEC50= 25.40 cone= 37.10 clock=276.83
117KB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7289
1:#s= 1 Cs= 16.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 456 rD= 2

11JNBRG13503

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG13503

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 3155:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG13503 **DESCRIP:ROWN_BARGE_OBS_135_DEG_PHASE**

Brown Barge Obs 135 deg phase — ACTIVITY ID: 11JNBRG13503-
START TIME: 97-313/05:46:37.066

Activity ID: Orbit 11 Target J Inst N OAPEL BRG135 SeqNo 03 -

Title	Brown Barge Obs 135 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/09/97 Week 45
Start	JEE+CDS 00003150:00:0	97-313/05:46:37.066		JEE+002/05:05:00.000	
End	JEE+CDS 00003158:00:0	97-313/05:54:42.399		JEE+002/05:13:05.333	
Duration	00000008:00:0	000/00:08:05.333		000/00:08:05.333	

Top Label	11JNBRG13503-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of four OAPels constituting observations of the Brown Barge feature at 135 degrees phase.

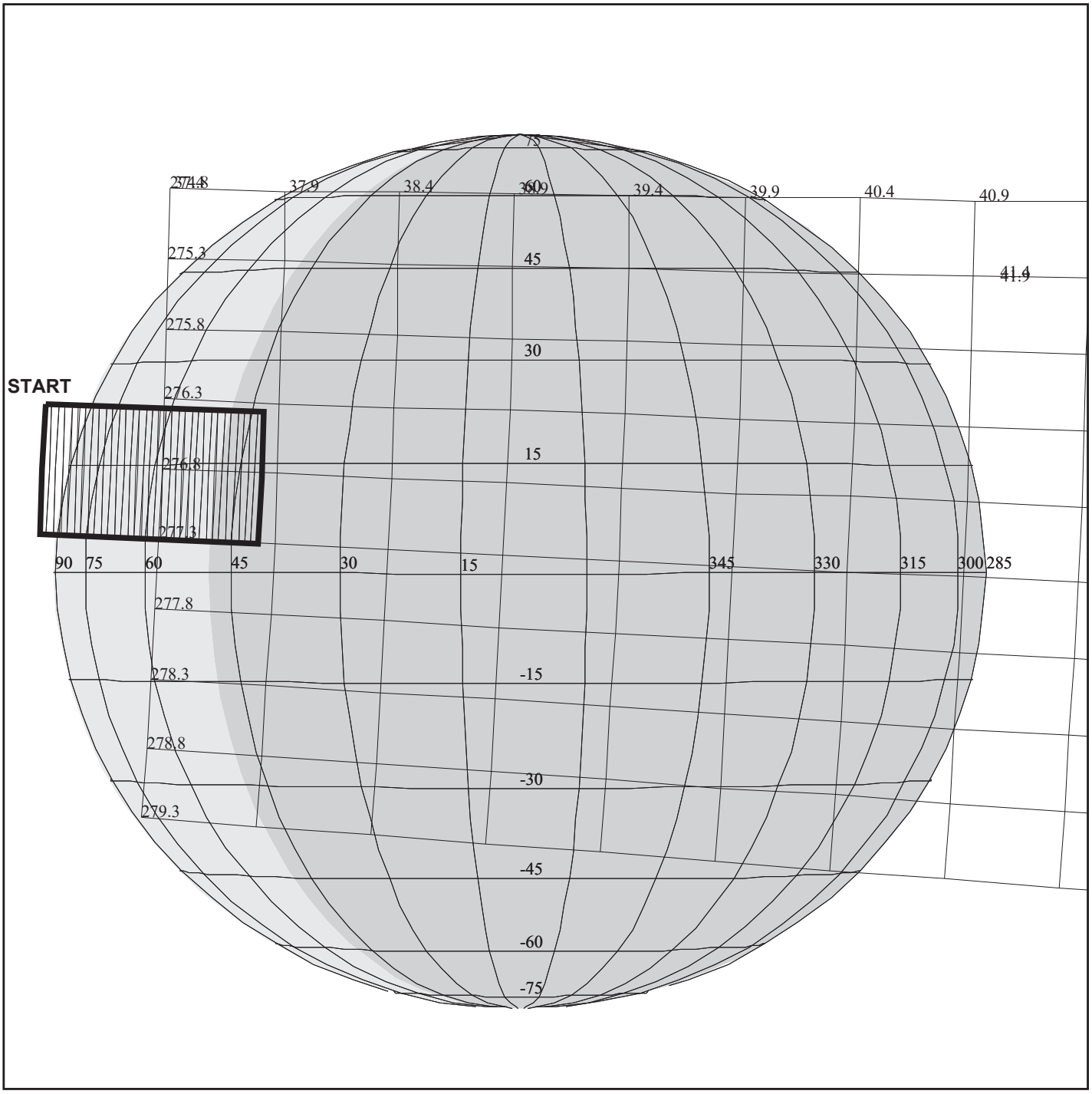
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. NIMS IFOV = 1000km. Nominal incidence angle = 75.5 degrees, emission angle = 58 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:06 rev 6/95



165KC:TT= 0 TMC= 1 C= -11.50 XC= 0.00 BS= 0/0929 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 97.84 DEC50= 25.39 cone= 36.91 clock=276.83
117KC:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0929
1:#s= 1 Cs= 16.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 456 rD= 2

11JNBRG13504

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG13504

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 3175:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG13504 **DESCRIP:BROWN_BARGE_OBS_135_DEG_PHASE**

Brown Barge Obs 135 deg phase

ACTIVITY ID: 11JNBRG13504-
START TIME: 97-313/06:06:50.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG135 SeqNo 04 -

Title	Brown Barge Obs 135 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/09/97 Week 45
Start	JEE+CDS 00003170:00:0	97-313/06:06:50.399		JEE+002/05:25:13.333	
End	JEE+CDS 00003178:00:0	97-313/06:14:55.732		JEE+002/05:33:18.666	
Duration	00000008:00:0	000/00:08:05.333		000/00:08:05.333	

Top Label	11JNBRG13504-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of four OAPels constituting observations of the Brown Barge feature at 135 degrees phase.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. NIMS IFOV = 1000km. Nominal incidence angle = 87.5 degrees, emission angle = 46 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:06 rev 6/95

NIMS Chopper Off

ACTIVITY ID: 11NNCHOPOF01-
START TIME: 97-313/06:19:59.066

Activity ID: Orbit 11 Target N Inst N OAPEL CHOPOF SeqNo 01 -

Title	NIMS Chopper Off			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 11/09/97 Week 45

Start	EEE+CDS 3430:00:0	97-313/06:19:59.066	EEE+002/09:48:06.666
End	EEE+CDS 3436:00:0	97-313/06:26:03.066	EEE+002/09:54:10.666
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label 11NNCHOPOF01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

NIMS chopper turned off.

Design Detail

Galileo Activity Plan Form 09/25/97 15:50:06 rev 6/95

NIMS Real-Time RCT Calibration ACTIVITY ID: 11NNRCTRLT01-
START TIME: 97-314/05:30:15.333

Activity ID: Orbit 11 Target N Inst N OAPEL RCTRLT SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	11/10/97 Week 45
Start	RTA+CDS 00000000:00:0	97-314/05:30:15.333		RTA+000/00:00:00.000	
End	RTA+CDS 00000793:00:0	97-314/18:52:03.999		RTA+000/13:21:48.666	
Duration	00000793:00:0	000/13:21:48.666		000/13:21:48.666	

Top Label	11NNRCTRLT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	400	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

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

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

Data Returned

Design Detail

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

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

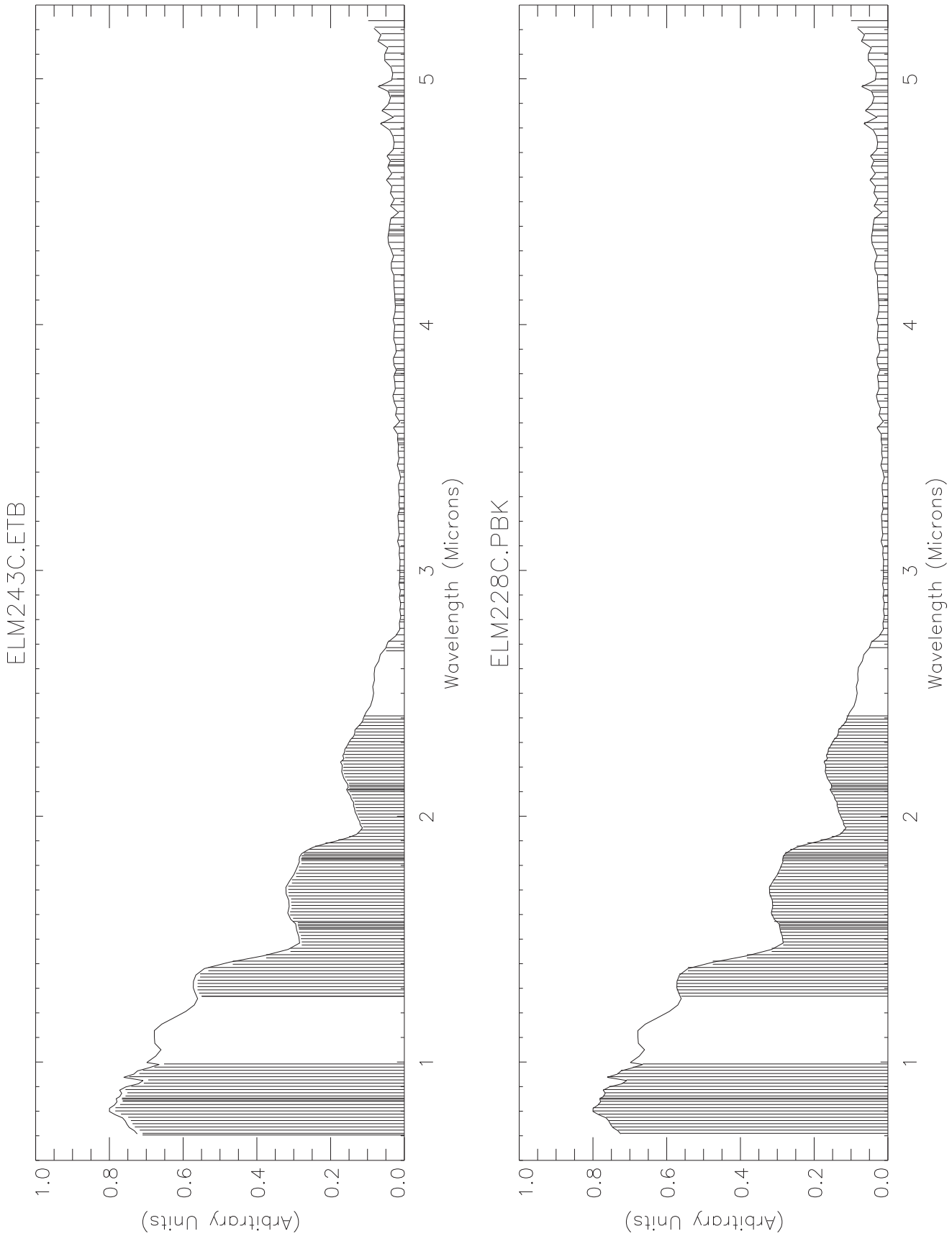
Chapter 6 - Edit Tables

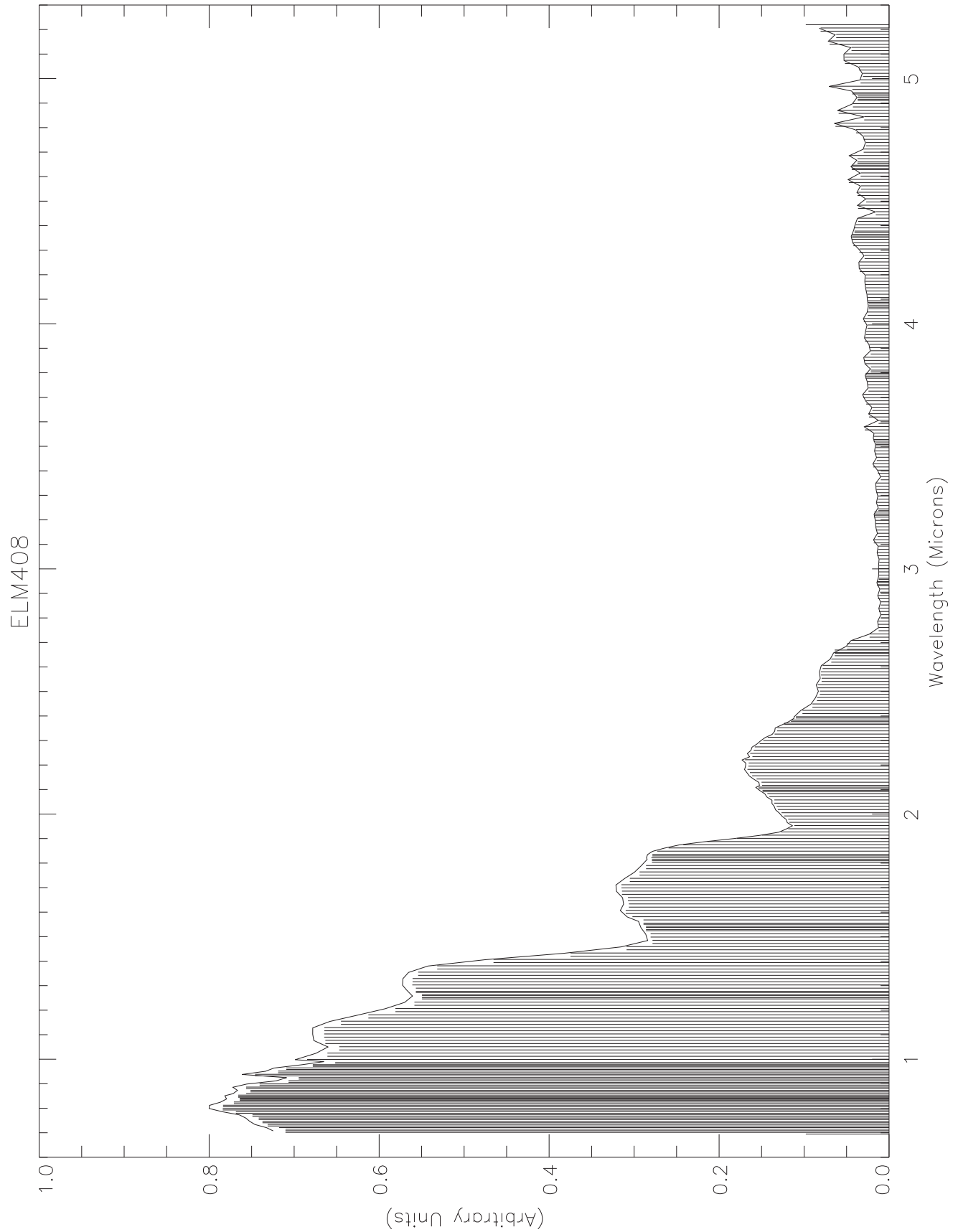
Contents

Introduction to Chapter 6

NIMS Edit Table Plots

This chapter contains plots of the NIMS Edit Tables used in E11. 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.


ELM243C.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ELM228C.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ELM408
(Arbitrary Units)
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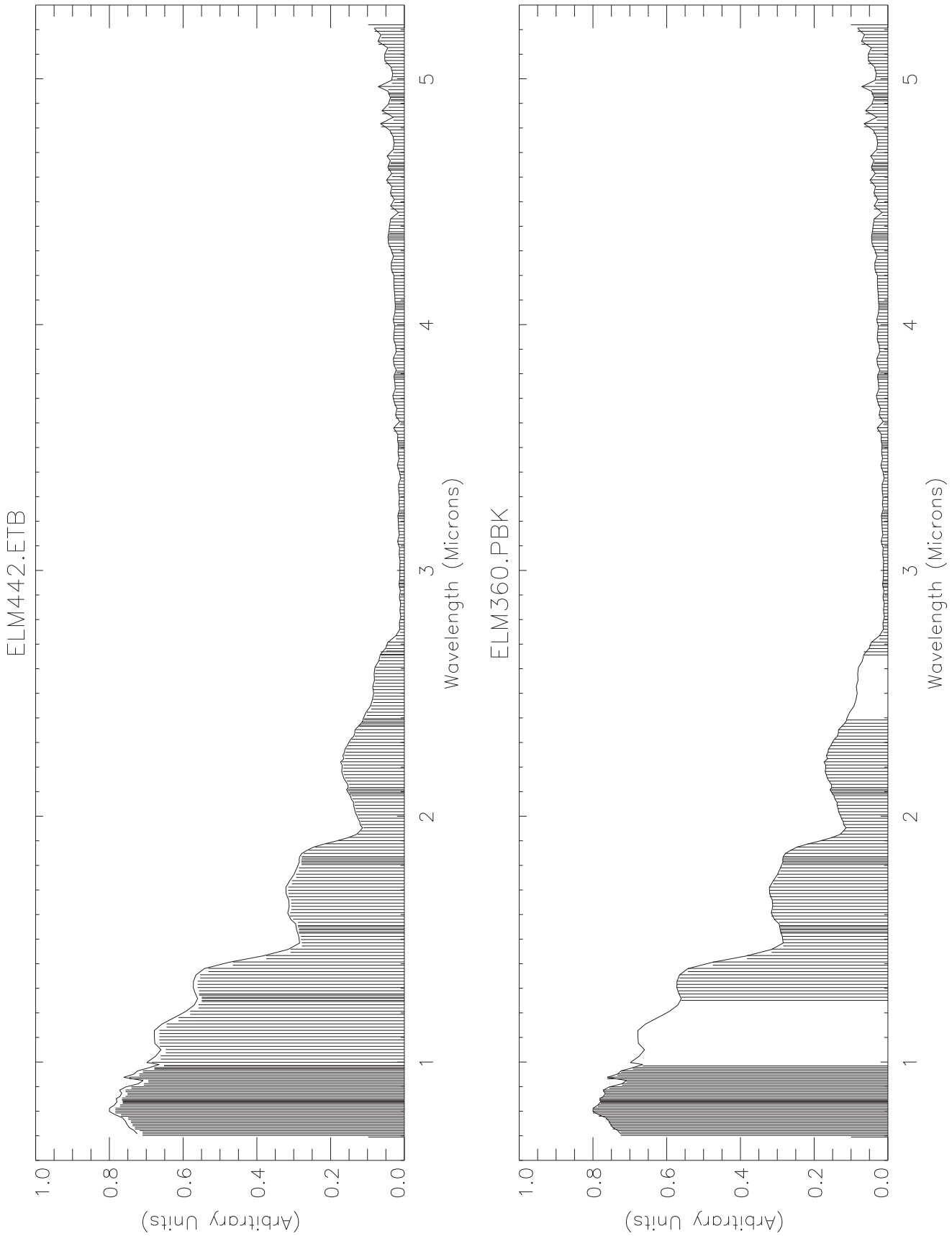
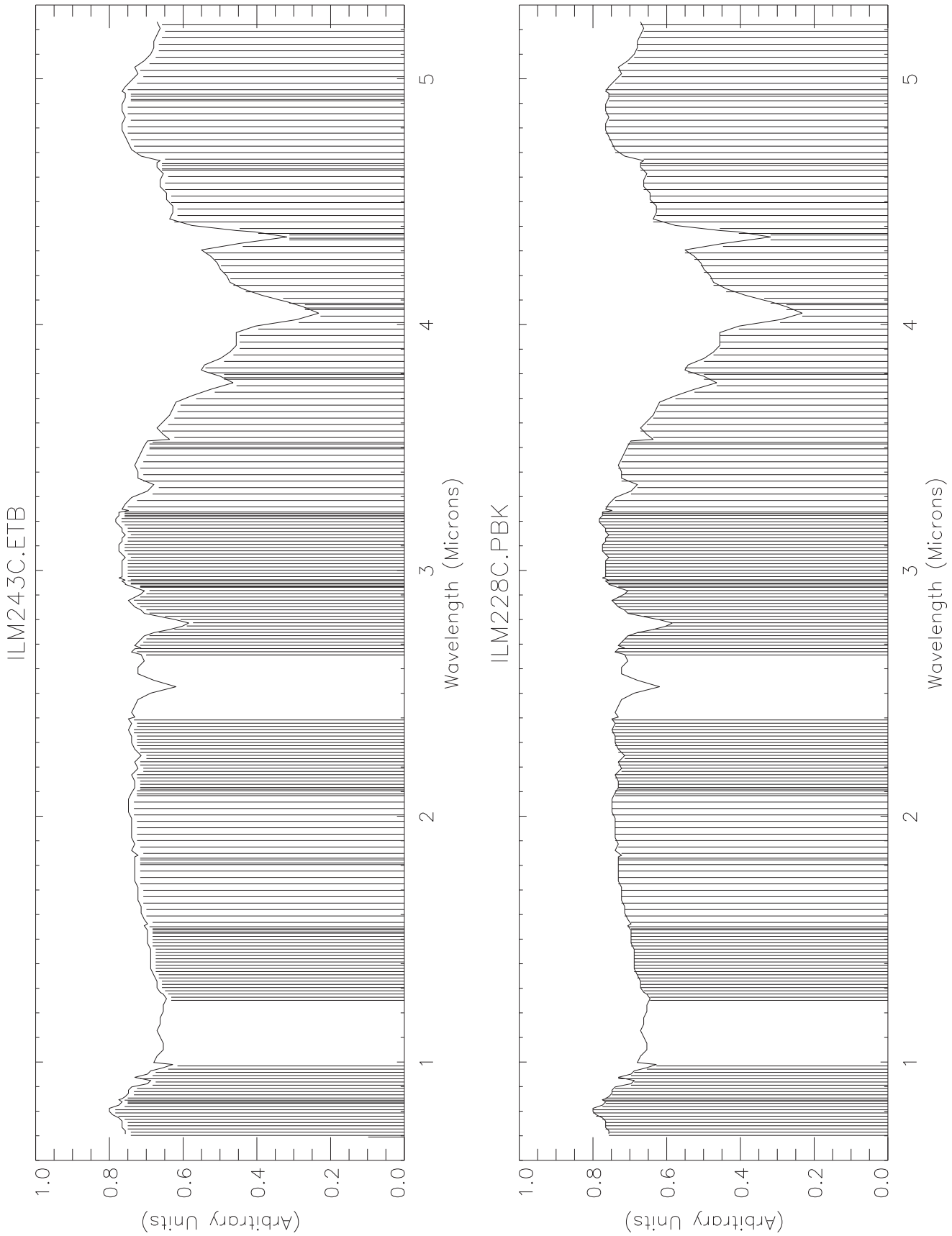
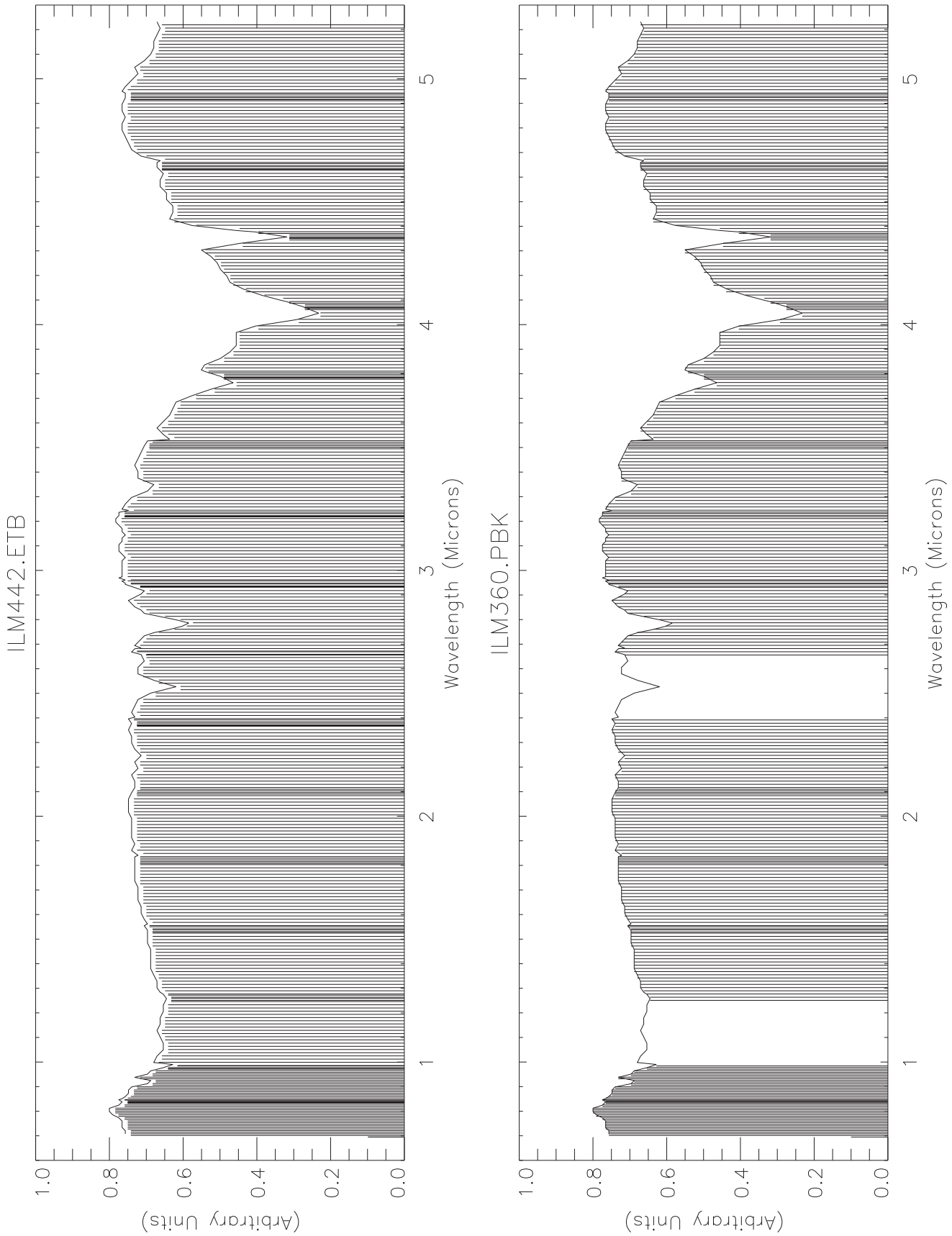
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ELM442.ETB
ELM360.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


ILM243C.ETB
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
ILM228C.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


ILM442.ETB
ILM360.PBK
(Arbitrary Units)
Wavelength (Microns)
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0.2
0.4
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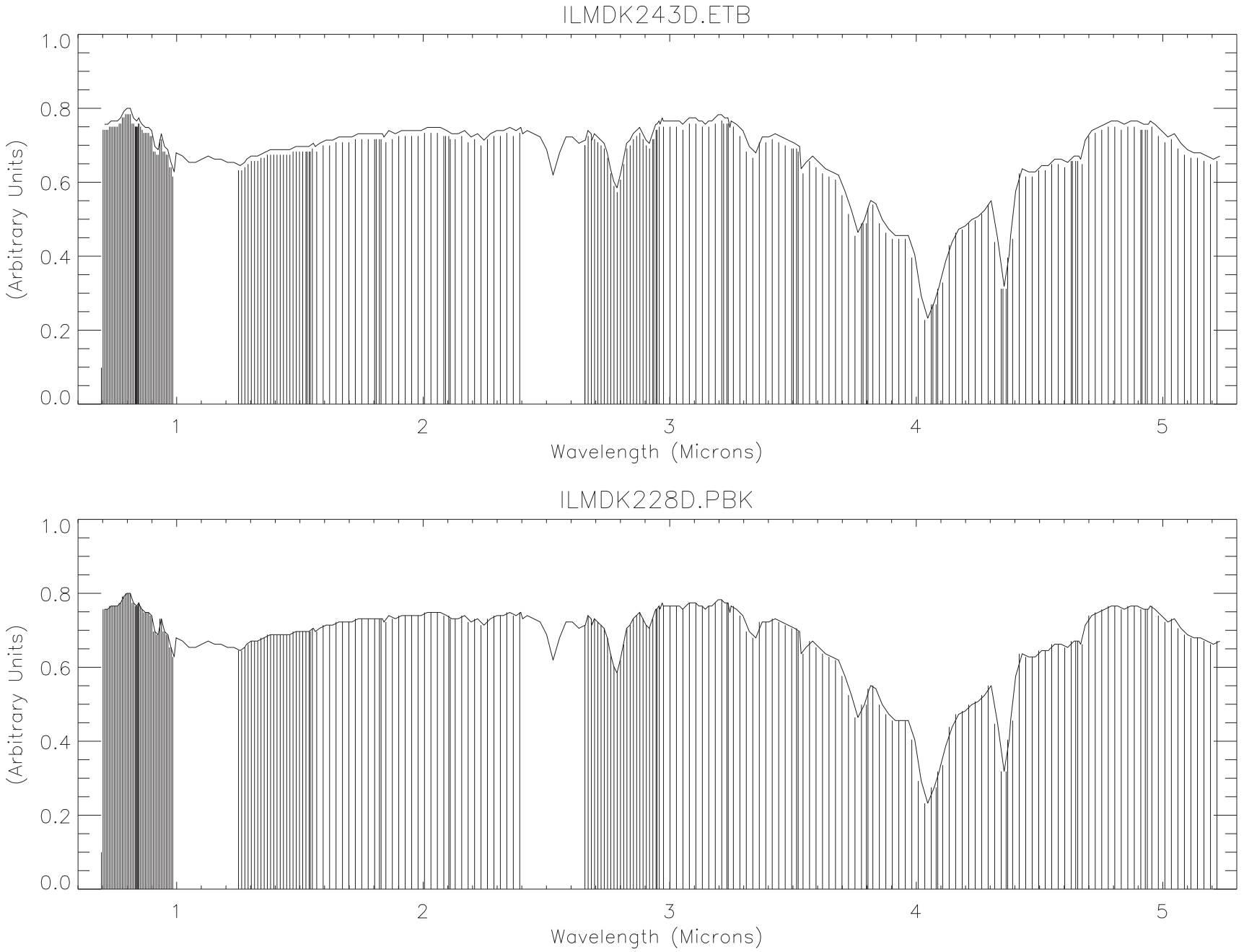
0.8
1.0
1
2
3
4
5


ILMDK243D.ETB
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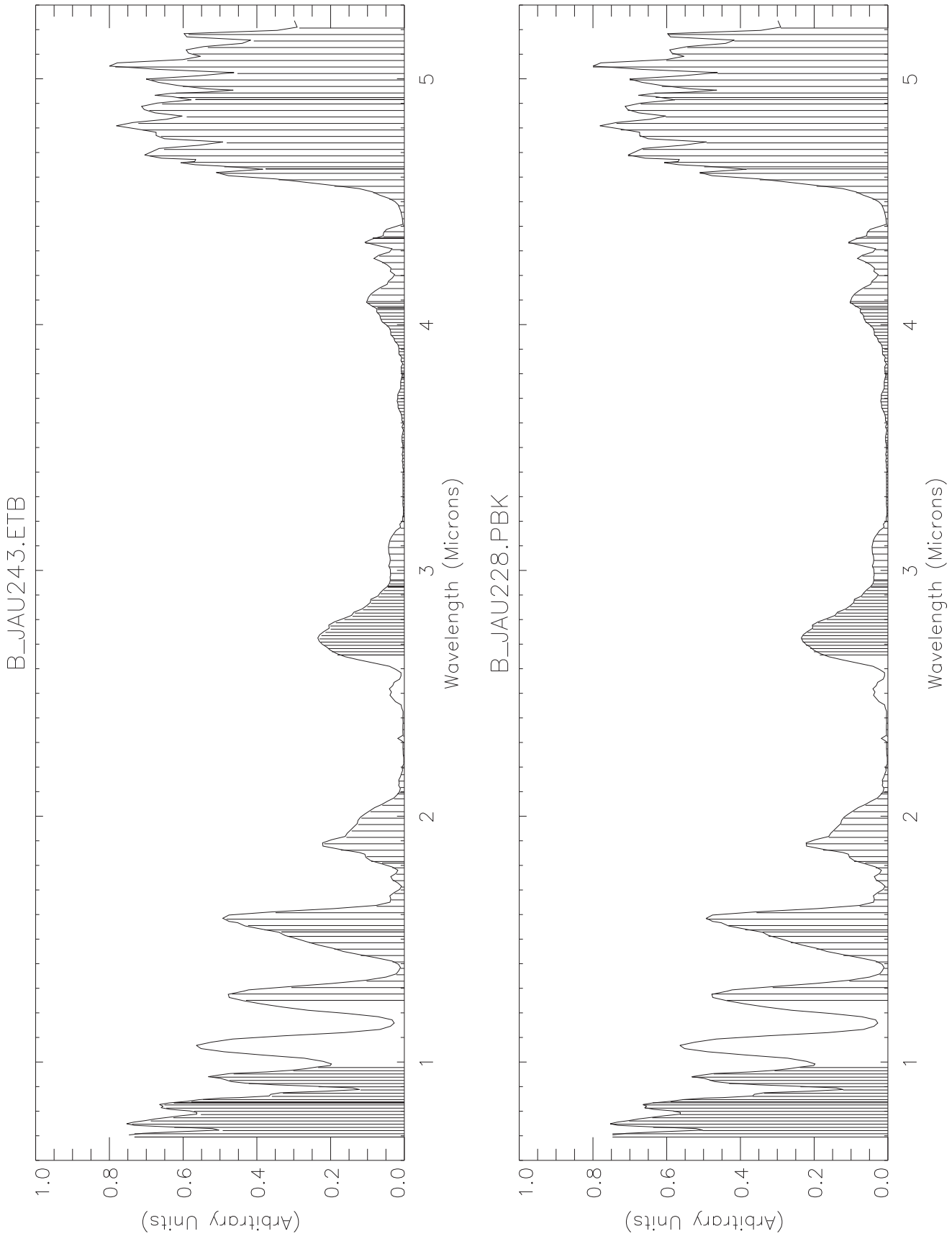
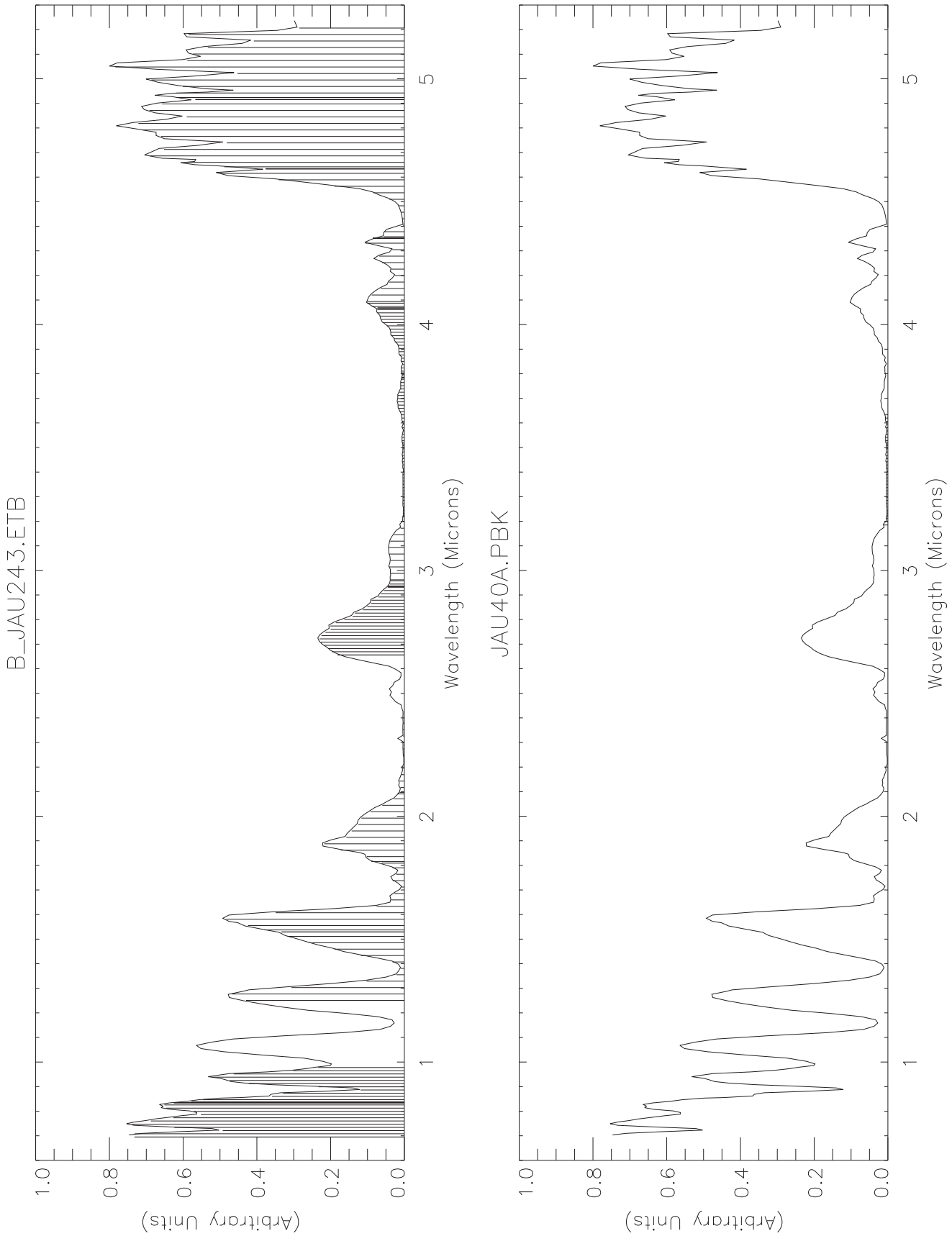
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)
ILMDK228D.PBK
1.0
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


B_JAU243.ETB
B_JAU228.PBK
(Arbitrary Units)
Wavelength (Microns)
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


B_JAU243.ETB
JAU40A.PBK
(Arbitrary Units)
Wavelength (Microns)
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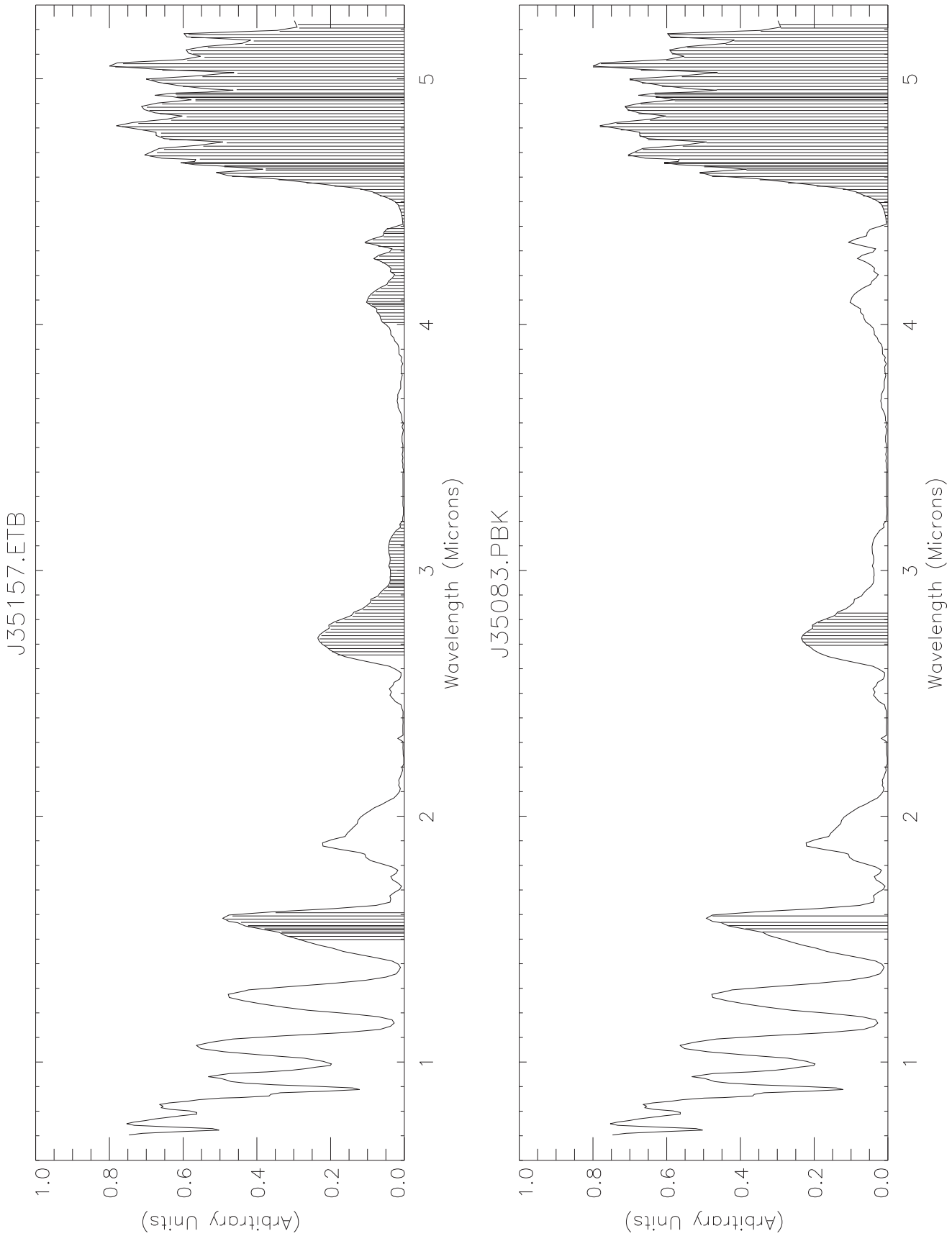
0.4
0.6
0.8
1.0
1
2
3
4
5


J35157.ETB
J35083.PBK
(Arbitrary Units)
Wavelength (Microns)
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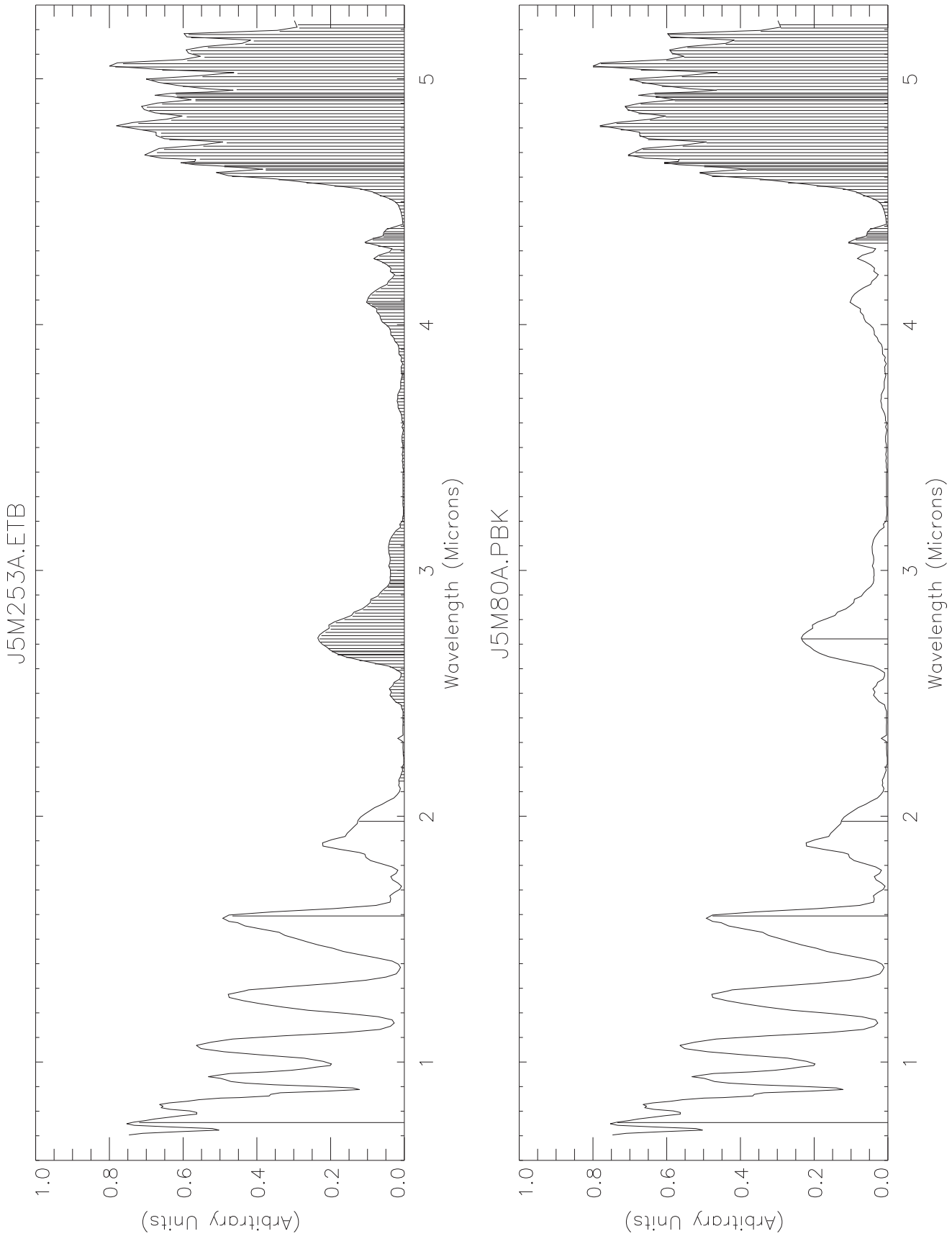
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


J5M253A.ETB
J5M80A.PBK
(Arbitrary Units)
Wavelength (Microns)
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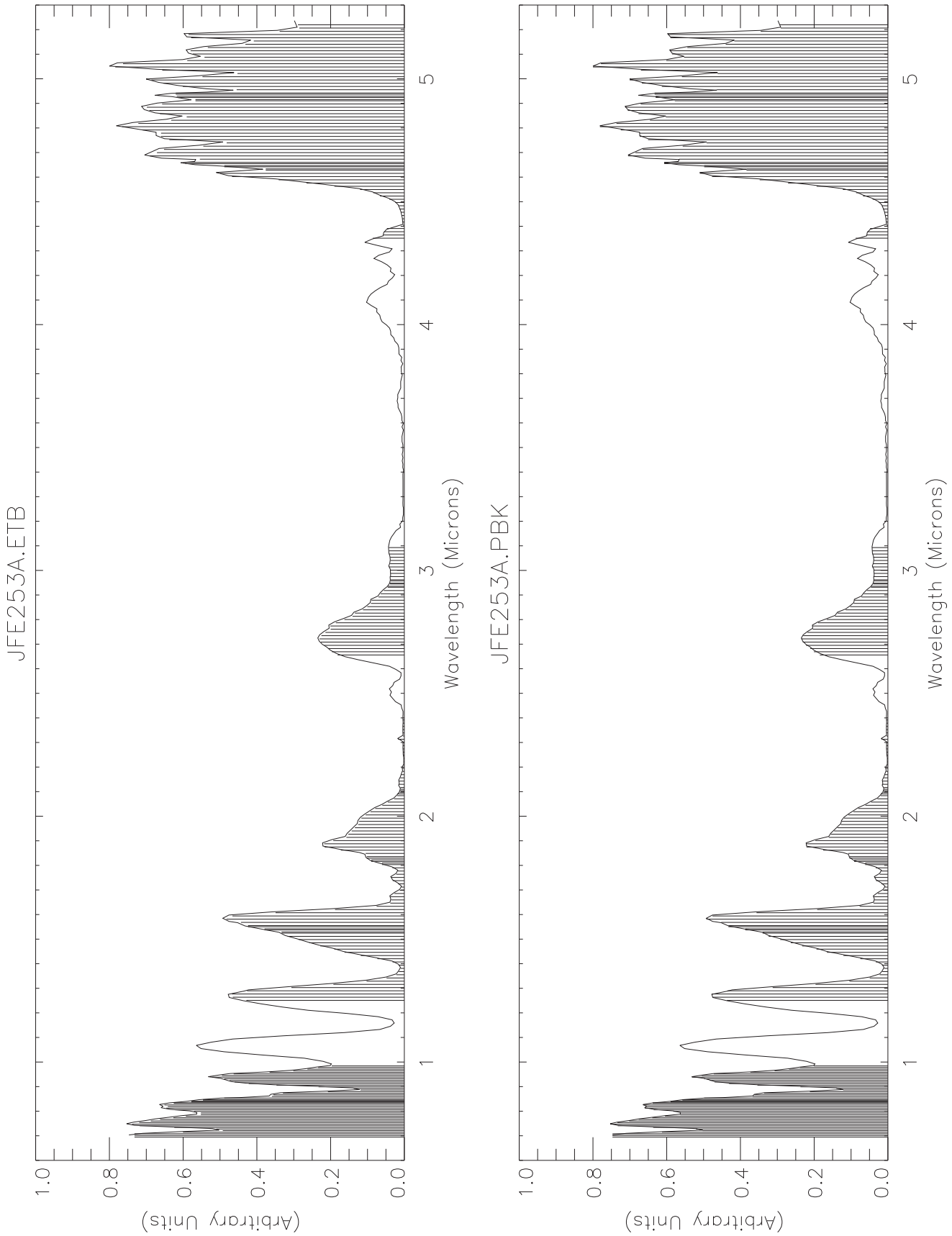
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JFE253A.ETB
JFE253A.PBK
(Arbitrary Units)
Wavelength (Microns)
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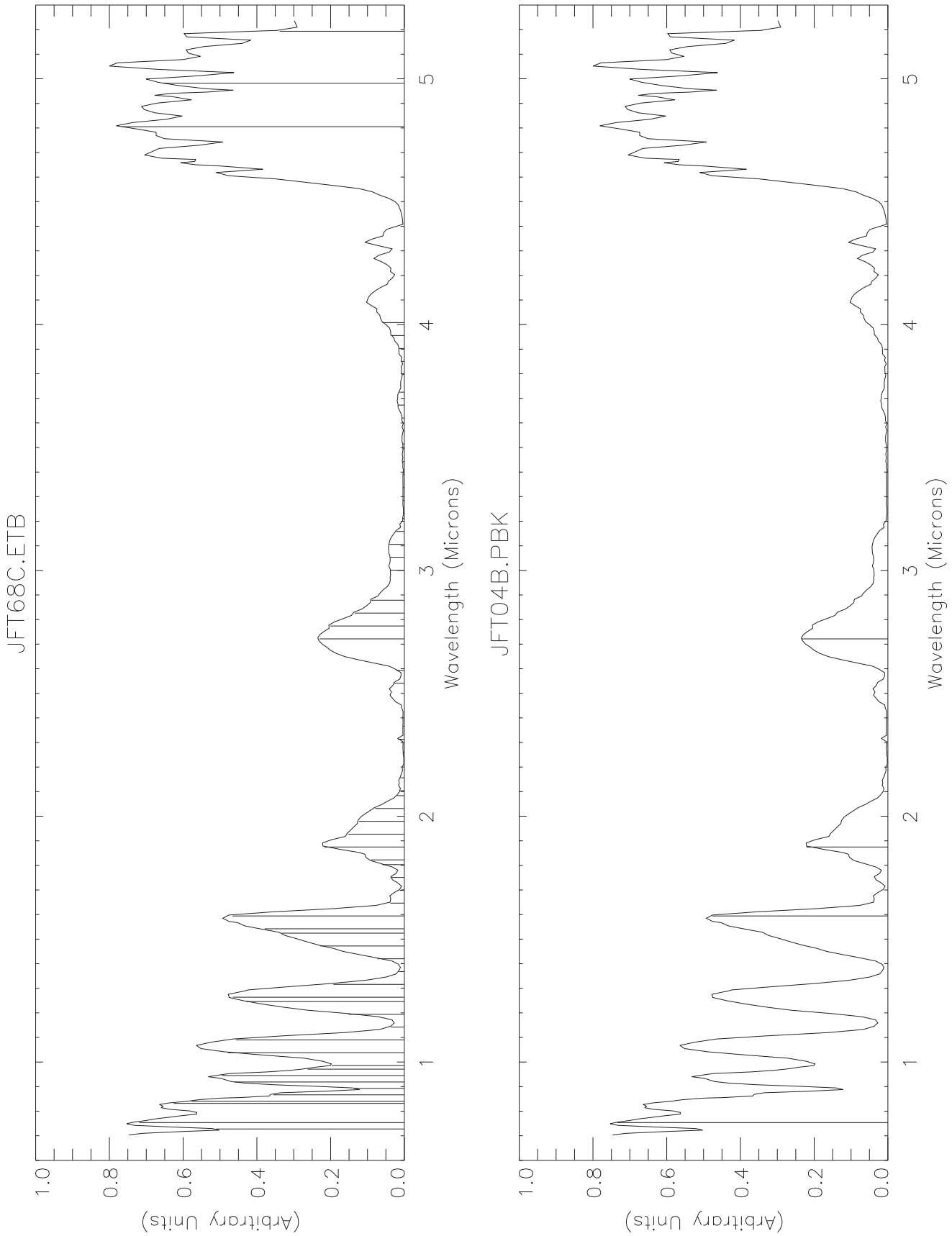
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68C.ETB
JFT04B.PBK
(Arbitrary Units)
Wavelength (Microns)
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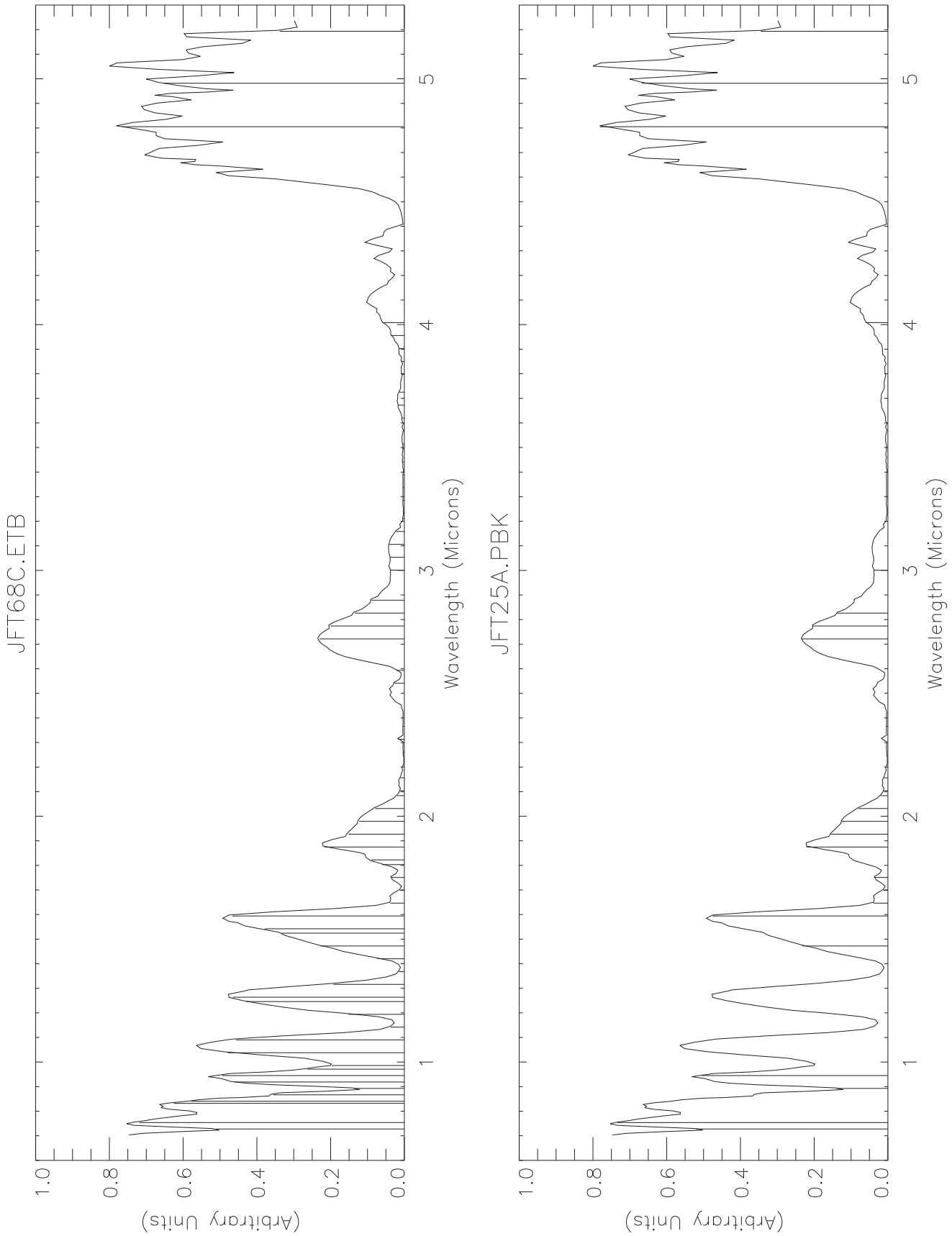
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5


JFT68C.ETB
(Arbitrary Units)
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0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
JFT25A.PBK
(Arbitrary Units)
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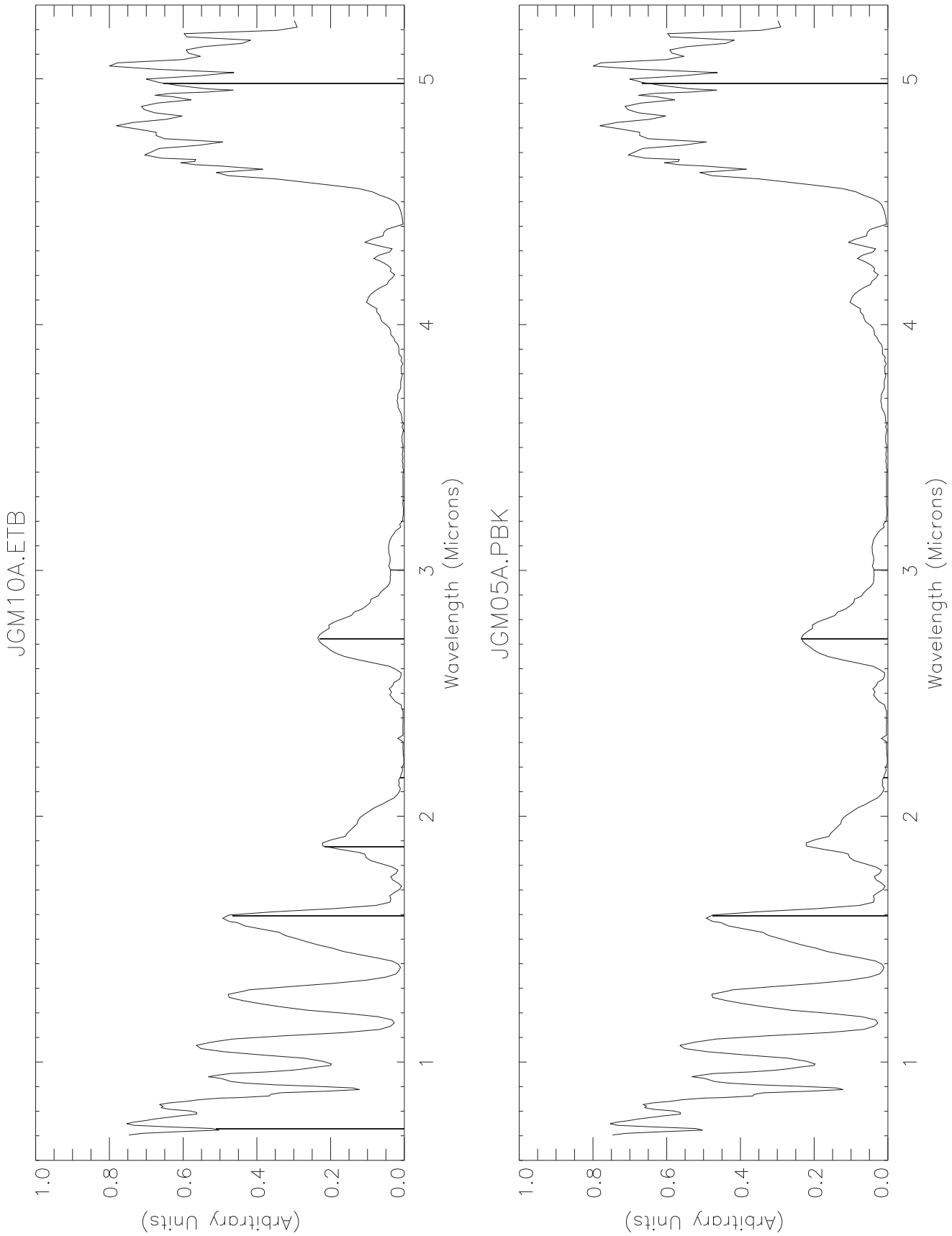
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JGM10A.ETB
(Arbitrary Units)
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0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)
JGM05A.PBK
(Arbitrary Units)
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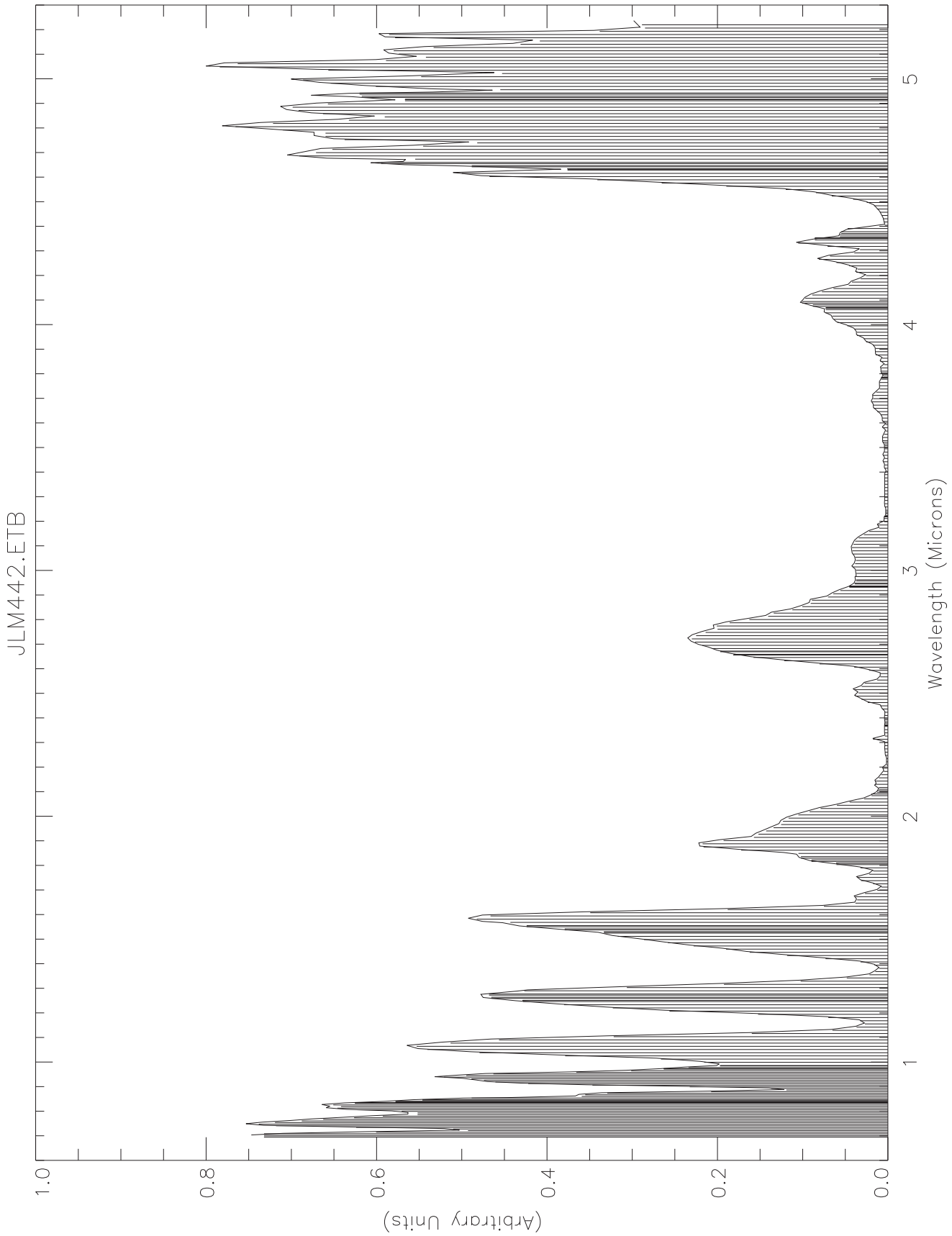
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


JLM442.ETB
(Arbitrary Units)
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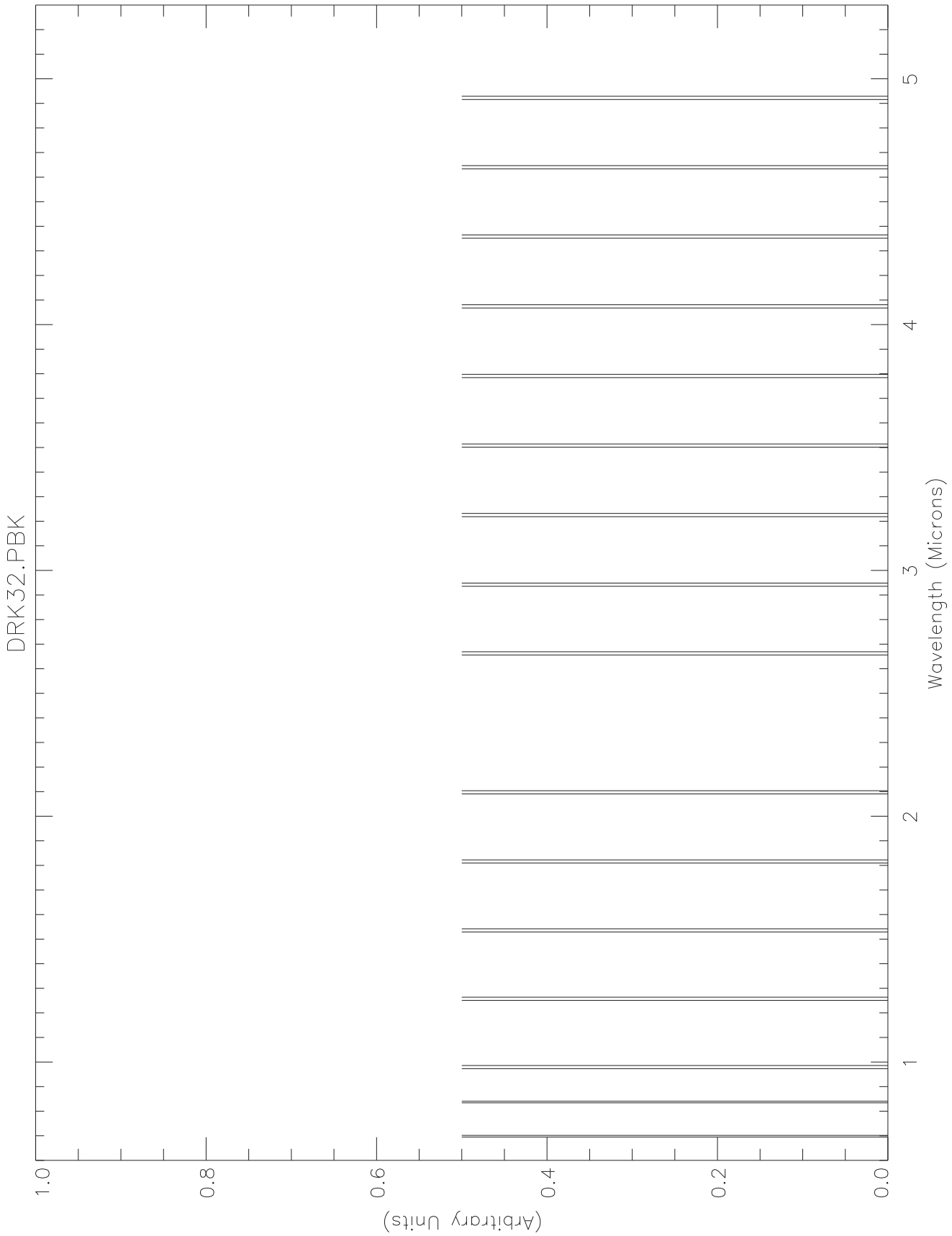
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


DRK32.PBK
(Arbitrary Units)
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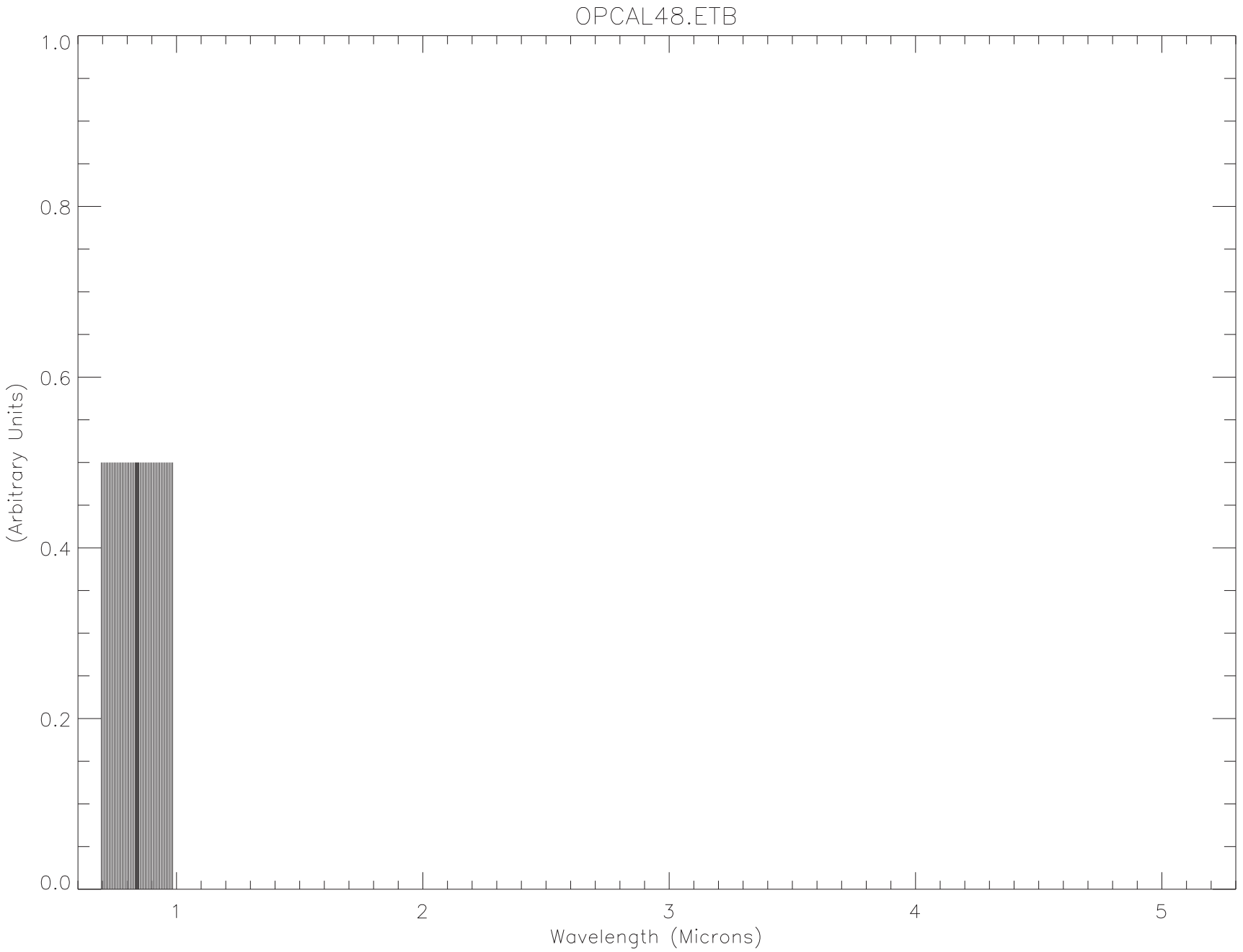
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)


OPCAL48.ETB
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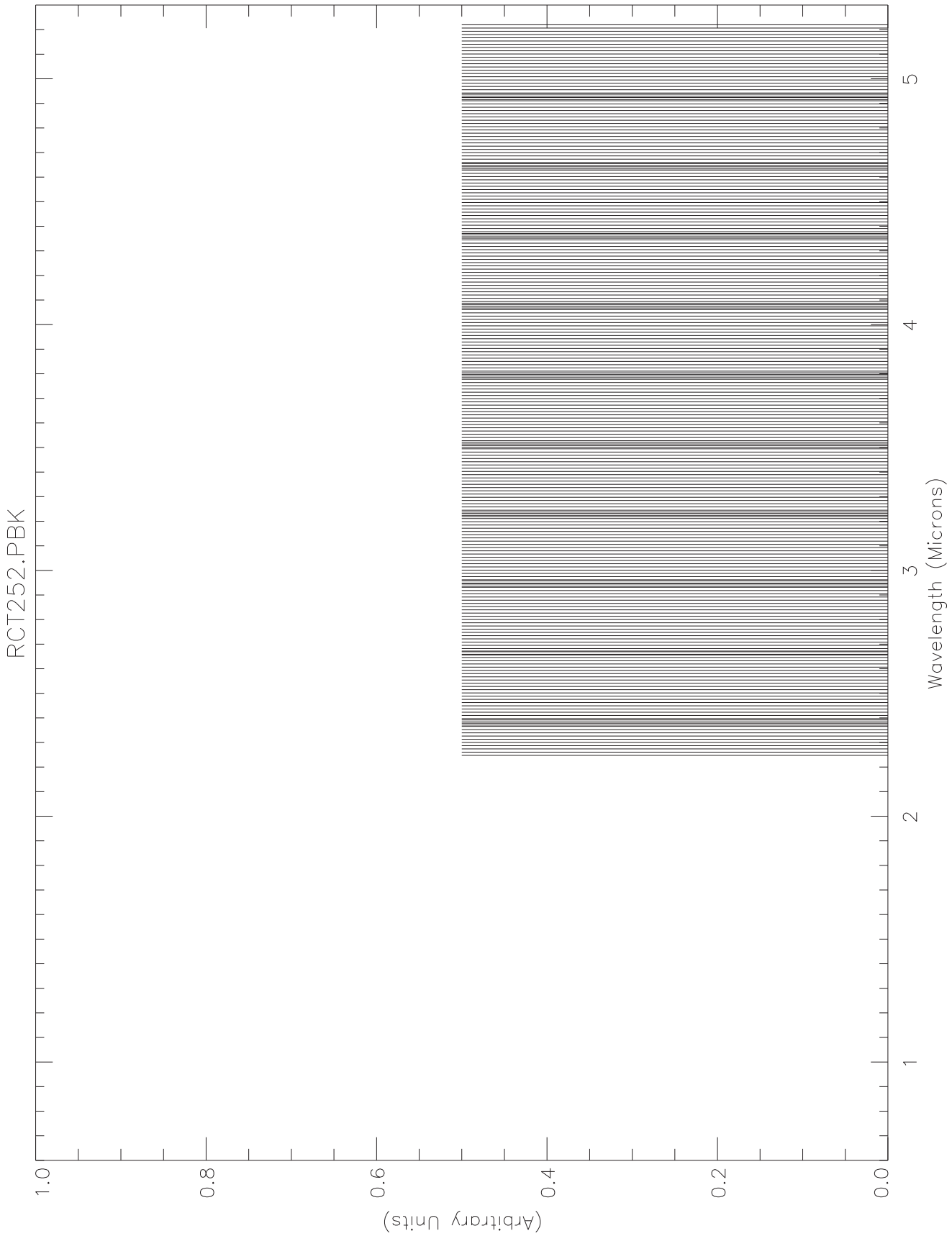
0.8
0.6
0.4
0.2
0.0
(Arbitrary Units)
1
2
3
4
5
Wavelength (Microns)


RCT252.PBK
(Arbitrary Units)
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
Wavelength (Microns)

Chapter 7 - Data Return

Contents

Introduction to Chapter 7

This chapter is a report on the NIMS data return for the E11 orbit. Due to the low downlink data rates available for Galileo Jupiter Operations and other unforeseen and unpredictable events during the E11 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.

Thirteen NIMS software reloads were inserted into the E11 Encounter sequence to protect against processor halts. During E11 no NIMS observations were lost due to processor halts. The approach that we are taking to avoid data loss due to processor halts has proven to be very successful.

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

The plots on the pages 3 and 4 show the geometry of the NIMS E11 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 through 8 summarize the 'final' playback model for the 'returned' data.

The text on page 9 gives a 'recap' of the E11 playback events which affected which observations were returned.

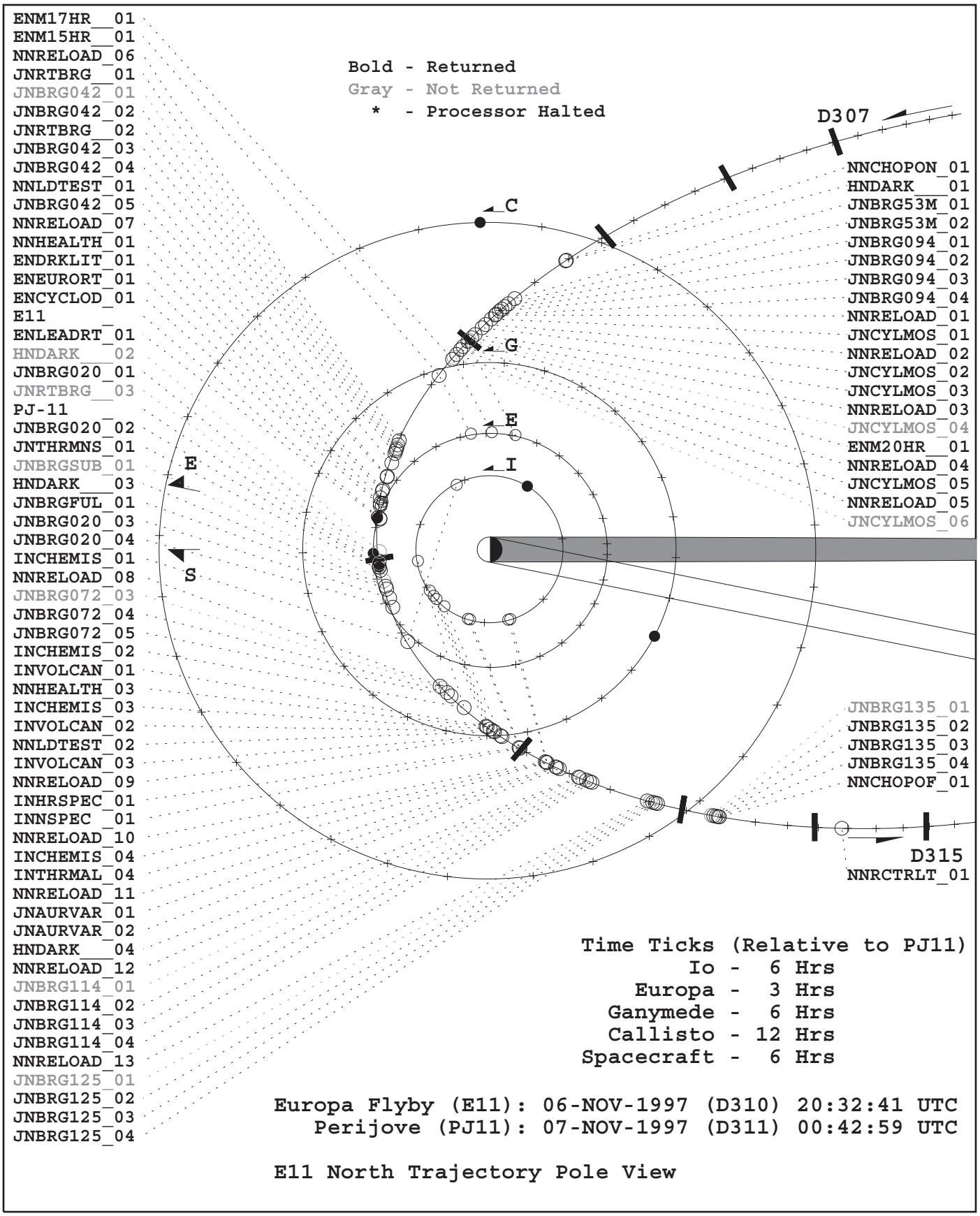
A Timeline of E11 playback events is on pages 10 through 14.

The text on page 15 describes the E11 NIMS Anomalies.

The text on page 16 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 17 and 18.

The text on page 19 is a guide to understanding the NIMS MASK.

NIMS E11 OBSERVATIONS

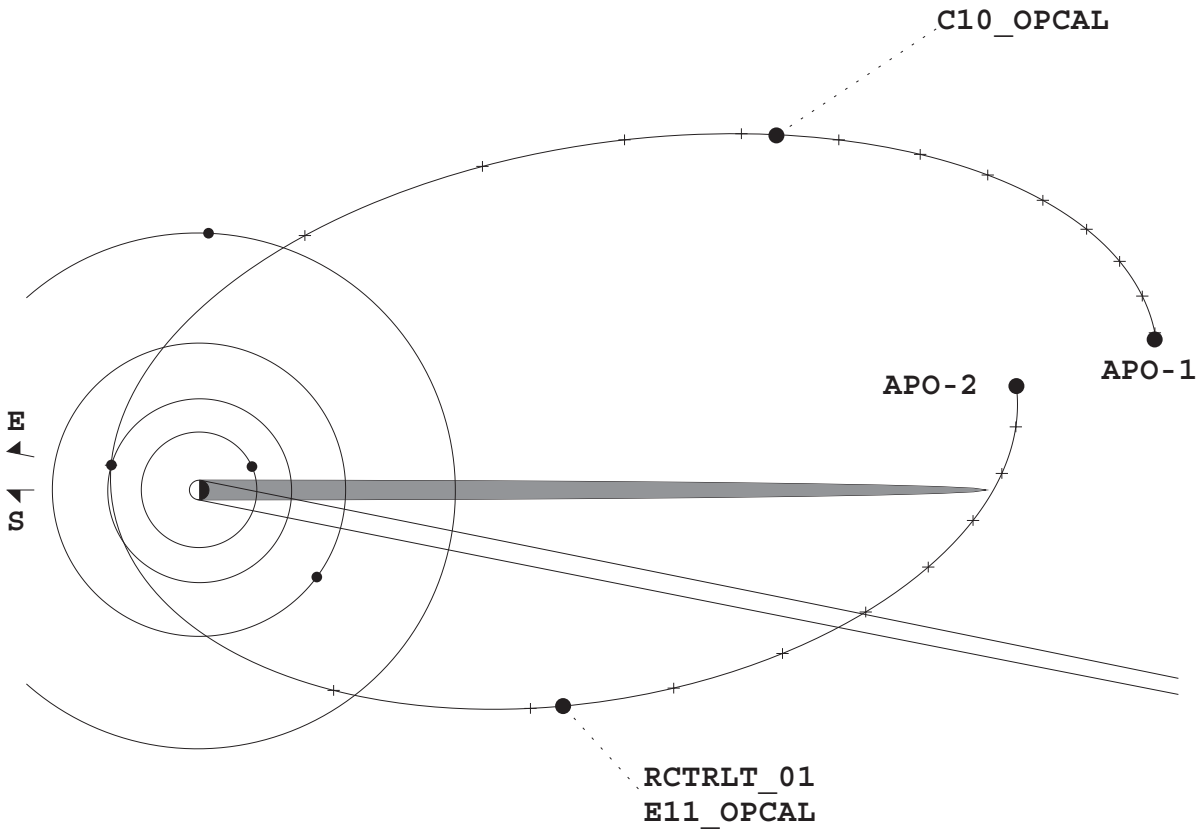


NIMS - FEL - 12/01/98

NIMS E11 CALIBRATIONS

Europa Flyby (E11): 06-NOV-1997 (D310) 20:32:41 UTC
Perijove (PJ11): 07-NOV-1997 (D311) 00:42:59 UTC

Time Ticks (Relative to E11)
Spacecraft - 2 Days



E11 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS - FEL - 03/20/98

NIMS E11 DATA RETURN

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
11HNDARK__01-	NIMS Dark Observation	E11DRK252	E11DRK32	LM	3	0	4	LPU	EF
11JNBRG53M01-	Brown Barge Observation	E11J35157	E11J35083	LM	4	0	4	LPU	DC
11JNBRG53M02-	Brown Barge Observation	E11J35157	E11J35083	LM	4	0	4	LPU	DD
11JNBRG53M02-	Brown Barge Observation	E11J35157	E11J35083	LM	4	0	4	LPU	DD
11JNBRG09402-	Brown Barge Observation 94 deg phase	E11JFT68C	E11JFT04B	SM	2	1	4	LPU	DF
11JNBRG09403-	Brown Barge Observation 94 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	DG
11JNBRG09404-	Brown Barge Observation 94 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	DH
11JNCYLMOS01-	Jupiter Cylindrical Mosaic Part 1	E11JGM10A	E11JGM05A	XM	2	5	4	LPU	DL
11JNCYLMOS03-	Jupiter Cylindrical Mosaic Part 3	E11JGM10A	E11JGM05A	XM	2	5	4	LPU	DO
11ENM20HR_01-	Europa Obs Beyond 15 Rj	E11ELM442	E11ELM360	LM	4	0	4	MPW	DS
11JNCYLMOS05-	Jupiter Cylindrical Mosaic Part 5	E11JGM10A	E11JGM05A	XM	2	5	4	LPU	DU
11ENM17HR_01-	Europa Obs Beyond 15 Rj	E11ELM442	E11ELM360	LM	4	0	4	MPW	DX
11ENM17HR_01-	Europa Obs Beyond 15 Rj	E11ELM243C	E11B_ELM228C_0	LM	3	0	4	LPU	DB
11ENM15HR_01	Europa Observation at Minus 15 Hours	E11ELM243C	E11B_ELM228C_0	LM	3	0	4	LPU	EF
11JNRTBRG_01-	NIMS Real-Time Brown Barge Obs	E11JLM442/MB	R/T	LM	2	0	4	R/T	KH
11JNBRG04202-	Brown Barge Observation 42 deg phase	E11JFT68C	E11JFT04B	SM	2	1	4	LPU	EB
11JNRTBRG_02-	NIMS Real-Time Brown Barge Obs	E11JLM442/MB	R/T	LM	2	0	4	R/T	KI
11JNBRG04203-	Brown Barge Observation 42 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EC
11NNHEALTH01-	NIMS Real-Time Health Observation	E11RCVY3	R/T	LM	2	0	4	R/T	KJ
11ENEURORT01-	NIMS Europa Real-Time Observation	E11ELM442/MB	R/T	LM	4	0	4	R/T	EI
11ENCYCLOD01-	EUROPA CYCLODIAL OBSERVATION	E11ELM243C	E11B_ELM228C_0	LM	4	0	4	LPU	EK
11ENLEADRT01+	Europa Leading Hemisphere Observation Ride-Along with UVS	E11ELM442/MB	R/T	LM	4	0	4	R/T	EM
11JNRTBRG_03-	NIMS Real-Time Brown Barge Obs	E11JLM442/MB	R/T	LM	2	0	4	R/T	KM
11JNTHRMNS01-	Jupiter Thermal North-South Stripe	E11J5M253A	E11J5M80A	LM	4	0	4	LPU	EQ
11HNDARK__03-	NIMS Dark Observation	E11DRK252	E11DRK32	LM	4	0	4	MPW	EF
11JNBRGFUL01-	Brown Barge Obs	E11JFE253A	E11JFE253A	LM	2	0	4	LPU	ES
11JNBRGFUL01-	Brown Barge Obs	E11JFE253A	E11JFE253A	LM	2	0	4	LPU	ES
11JNBRG07205-	Brown Barge Obs 72 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FB
11INCHEMIS02-	MONITORING OF IO'S DAYSIDE	E11ILM243C	E11ILM228C	LM	2	0	4	LPU	FC
11NNHEALTH03-	NIMS Real-Time Health Observation	E11RCVY3	R/T	LM	2	0	4	R/T	KJ
11INCHEMIS03-	MONITORING OF IO'S DAYSIDE	E11ILM442	E11ILM360	LM	2	0	4	MPW	FE
11INVOLCAN02-	MONITORING OF SELECTED VOLCANIC REGIONS	E11ILMDK243D	E11ILMDK228D	LM	4	0	4	LPU	FF
11INVOLCAN03-	MONITORING OF SELECTED VOLCANIC REGIONS	E11ILMDK243D	E11ILMDK228D	LM	4	0	4	LPU	FG
11INHRSPEC01-	MONITORING OF IO'S DAYSIDE	E11ILM442	E11ILM360	LM	2	0	4	MPW	FI
11INNSPEC 01-	NIGHTSIDE SPECTRA AT HIGH RESOLUTION	E11ILM442	E11ILM360	LM	4	0	4	MPW	FJ
11JNAURVAR01+	NIMS Ride-Along Aurora Obs. with UVS	E11B_JAU243	E11JAU40A	LM	4	0	4	LPU	
11JNAURVAR02+	NIMS Ride-Along Aurora Obs. with UVS	E11B_JAU243	E11JAU40A	LM	4	0	4	LPU	
11HNDARK__04-	NIMS Dark Observation	E11DRK252	E11DRK32	LM	4	0	4	LPU	EF
11JNBRG11402-	Brown Barge Obs 114 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FQ
11JNBRG12504-	Brown Barge Obs 125 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FX
11JNBRG13502-	Brown Barge Obs 135 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	KA
11NNRCTRLT01-	NIMS Real-Time RCT Calibration	E11RCT252	R/T	LM	1	0	4	R/T	KE
11NNOPCAL 01-	NIMS Real-Time OPCAL	E11OPCAL48	R/T	LM	4	0	4	R/T	KE

NIMS E11 DATA RETURN

ACTID	Mode	Record Format	Wave-lengths ret	Record Time (sec.)	PB Time (sec.)	Sel Bits of Tape sBOT (MBITS)	Total Bits of Tape BOT (Mbit)	Mode Cycle time	Thold	Comp	Total BTG (Mbits) (4% ohead)	Data Reduct Factor (sBOT/BTG)	Pass
11HNDARK__01-	LM	LPU	32	60.67	60.67	0.37	0.37	8.667	0	2.72	0.0171	21.85	1
11JNBRG53M01-	LM	LPU	83	182	182	1.12	1.12	8.667	0	1.21	0.2996	3.75	1
11JNBRG53M02-	LM	LPU	83	1200	420	2.59	7.40	8.667	0	1.27	0.6587	3.93	1
11JNBRG53M02-	LM	LPU	83	1200	378	2.33	7.40	8.667	0	1.23	0.6122	3.81	1
11JNBRG09402-	SM	LPU	4	300	300	1.85	1.85	2.33	0	2.22	0.0483	38.35	1
11JNBRG09403-	SM	LPU	25	300	300	1.85	1.85	2.33	0	2.11	0.3173	5.83	1
11JNBRG09404-	SM	LPU	25	200	200	1.23	1.23	2.33	0	1.94	0.2301	5.36	1
11JNCYLMOS01-	XM	LPU	5	600	600	3.70	3.70	0.333	0	1.95	0.9610	3.85	1
11JNCYLMOS03-	XM	LPU	5	600	600	3.70	3.70	0.333	0	1.86	1.0075	3.67	1
11ENM20HR_01-	LM	MPW	360	411.34	411.34	4.74	4.74	8.667	0	1.52	2.3381	2.03	1
11JNCYLMOS05-	XM	LPU	5	600	600	3.70	3.70	0.333	0	1.86	1.0075	3.67	1
11ENM17HR_01-	LM	MPW	360	542	529	6.09	6.24	8.667	0	1.66	2.7532	2.21	1
11ENM17HR_01-	LM	LPU	228	538	538	3.32	3.32	8.667	0	1.67	1.7628	1.88	1
11ENM15HR_01-	LM	LPU	228	591	591	3.65	3.65	8.667	0	1.50	2.1559	1.69	1
11JNRTBRG_01-	LM	R/T	408						0				
11JNBRG04202-	SM	LPU	4	400	400	2.47	2.47	2.33	0	2.11	0.0677	36.45	1
11JNRTBRG_02-	LM	R/T	408						0	1.70			
11JNBRG04203-	SM	LPU	25	400	400	2.47	2.47	2.33	0	1.90	0.4698	5.25	1
11NNHEALTH01-	LM	R/T	3						0				
11ENEURORT01-	LM	R/T	408						0				
11ENCYCLOD01-	LM	LPU	228	720	100	0.62	4.44	8.667	0	1.25	0.4377	1.41	1
11ENLEADRT01+	LM	R/T	408						0				
11JNRTBRG_03-	LM	R/T	408						0				
11JNTHRMNS01	LM	LPU	80	2775	1205	7.43	17.12	8.667	0	1.15	2.0117	3.69	1
11HNDARK__03	LM	LPU	32	60.67	61	0.38	0.37	8.667	0	1.30	0.0360	10.44	1
11JNBRGFUL01-	LM	LPU	253	1200	153	0.94	7.40	8.667	0	1.44	0.6451	1.46	1
11JNBRGFUL01-	LM	LPU	253	1200	153	0.94	7.40	8.667	0	1.53	0.6072	1.55	1
11JNBRG07205-	SM	LPU	25	400	400	2.47	2.47	2.33	0	2.15	0.4152	5.94	1
11INCHEMIS02-	LM	LPU	228	170.67	170.67	1.05	1.05	8.667	2	2.74	0.3408	3.09	1
11NNHEALTH03-	LM	R/T	3						2				
11INCHEMIS03-	LM	MPW	360	121	121	1.39	1.39	8.667	2	2.54	0.4116	3.39	1
11INVOLCAN02-	LM	LPU	228	170.67	170.67	1.05	1.05	8.667	2	1.70	0.5493	1.92	1
11INVOLCAN03-	LM	LPU	228	170.67	170.67	1.05	1.05	8.667	2	2.55	0.3662	2.87	1
11INHRSPEC01-	LM	MPW	360	170.67	84	0.97	1.97	8.667	2	2.42	0.2999	3.23	1
11INNSPEC 01-	LM	MPW	360	170.67	84	0.97	1.97	8.667	2	1.75	0.4147	2.33	1
11JNAURVAR01+	LM	LPU	37	616.68	122	0.75	3.80	8.667	0	2.00	0.0542	13.89	1
11JNAURVAR02+	LM	LPU	37	2436.68	864	5.33	15.03	8.667	0	1.97	0.3894	13.68	1
11HNDARK__04-	LM	LPU	32	60.67	60.67	0.37	0.37	8.667	0	2.38	0.0196	19.12	1
11JNBRG11402-	SM	LPU	25	300	150	0.93	1.85	2.33	0	2.00	0.1674	5.53	1
11JNBRG12504-	SM	LPU	25	200	200	1.23	1.23	2.33	0	2.35	0.1899	6.49	1
11JNBRG13502-	SM	LPU	25	152	102	0.63	0.94	2.33	0	2.25	0.1012	6.22	1
11NNRCTRLT01-	LM	R/T	252										
11NNOPCAL 01-	LM	R/T	48										

NIMS E11 DATA RETURN

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
11JNBRG53M02-	Brown Barge Observation	E11J35157	E11J35083	LM	4	0	4	LPU	DD
11JNBRG09401-	Brown Barge Observation 94 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	DE
11ENM20HR_01-	Europa Obs Beyond 15 Rj	E11ELM243C	E11B_ELM228C_0	LM	3	0	4	LPU	DT
11ENM17HR_01-	Europa Obs Beyond 15 Rj	E11ELM442	E11ELM360	LM	4	0	4	MPW	DX
11ENM17HR_01-	Europa Obs Beyond 15 Rj	E11ELM243C	E11B_ELM228C_0	LM	3	0	4	LPU	DB
11ENM15HR_01-	Europa Observation at Minus 15 Hours	E11ELM442	E11ELM360	LM	4	0	4	MPW	DY
11ENM15HR_01-	Europa Observation at Minus 15 Hours	E11ELM243C	E11B_ELM228C_0	LM	3	0	4	LPU	EF
11ENM15HR_01-	Europa Observation at Minus 15 Hours	E11ELM243C	E11B_ELM228C_0	LM	3	0	4	LPU	EF
11JNBRG04204-	Brown Barge Observation 42 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	ED
11JNBRG04205-	Brown Barge Observation 42 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EE
11ENDRKLIT01-	EUROPA Dark Mosaic	E11ELM243C	E11B_ELM228C_0	LM	4	0	4	LPU	EJ
11ENCYCLOD01-	EUROPA CYCLODIAL OBSERVATION	E11ELM243C	E11B_ELM228C_0	LM	4	0	4	LPU	EK
11ENCYCLOD01-	EUROPA CYCLODIAL OBSERVATION	E11ELM243C	E11B_ELM228C_0	LM	4	0	4	LPU	EK
11JNBRG02001-	Brown Barge Obs 20 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EO
11JNBRG02002-	Brown Barge Obs 20 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EP
11JNTHRMNS01-	Jupiter Thermal North-South Stripe	E11J5M253A	E11J5M80A	LM	4	0	4	LPU	EQ
11JNBRGFUL01-	Brown Barge Obs	E11JFE253A	E11JFE253A	LM	2	0	4	LPU	ES
11JNBRG02003-	Brown Barge Obs 20 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	ET
11JNBRG02004-	Brown Barge Obs 20 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	EU
11INCHEMIS01-	MONITORING OF IO'S DAYSIDE	E11ILM442	E11ILM360	LM	2	0	4	MPW	EV
11JNBRG07204-	Brown Barge Obs 72 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FA
11INVOLCAN01-	MONITORING OF SELECTED VOLCANIC REGIONS	E11ILMDK243D	E11ILMDK228D	LM	4	0	4	LPU	FD
11INVOLCAN02-	MONITORING OF SELECTED VOLCANIC REGIONS	E11ILMDK243D	E11ILMDK228D	LM	4	0	4	LPU	FF
11INHRSPEC01-	MONITORING OF IO'S DAYSIDE	E11ILM442	E11ILM360	LM	2	0	4	MPW	FI
	NIGHTSIDE SPECTRA AT HIGH RESOLUTION	E11ILM442	E11ILM360	LM	4	0	4	MPW	FJ
11INCHEMIS04-	MONITORING OF IO'S DAYSIDE	E11ILM243C	E11ILM228C	LM	2	0	4	LPU	FL
11INTHRMAL04-	MONITORING OF IO'S NIGHTSIDE	E11ILMDK243D	E11ILMDK228D	LM	4	0	4	LPU	FM
11JNAURVAR02+	NIMS Ride-Along Aurora Obs. with UVS	E11B_JAU243	E11B_JAU228	LM	4	0	4	LPU	
11JNBRG11403-	Brown Barge Obs 114 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FR
11JNBRG11404-	Brown Barge Obs 114 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FS
11JNBRG12502-	Brown Barge Obs 125 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FV
11JNBRG12503-	Brown Barge Obs 125 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	FW
11JNBRG13503-	Brown Barge Obs 135 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	KB
11JNBRG13504-	Brown Barge Obs 135 deg phase	E11JFT68C	E11JFT25A	SM	2	1	4	LPU	KC
11JNCYLMOS02-	Jupiter Cylindrical Mosaic Part 1	E11JGM10A	E11JGM05A	XM	2	5	4	LPU	DL

NIMS E11 DATA RETURN

ACTID	Mode	Record Format	Wave-lengths ret	Record Time (sec.)	PB Time (sec.)	Sel Bits of Tape sBOT (MBITS)	Total Bits of Tape BOT (Mbit)	Mode Cycle time	Thold	Comp	Total BTG (Mbits) (4% ohead)	Data Reduct Factor (sBOT/BTG)	Pass
11JNBRG53M02-	LM	LPU	83	1200	420	2.59	7.40	8.667	0	1.24	0.6747	3.84	2
11JNBRG09401-	SM	LPU	25	300	150	0.93	1.85	2.33	0	2.70	0.1240	7.46	2
11ENM20HR_01-	LM	LPU	228	486	479	2.95	3.00	8.667	0	1.68	1.5601	1.89	2
11ENM17HR_01-	LM	MPW	360	542	14	0.16	6.24	8.667	0	1.66	0.0729	2.21	2
11ENM17HR_01-	LM	LPU	228	538	14	0.09	3.32	8.667	0	1.64	0.0467	1.85	2
11ENM15HR_01-	LM	MPW	360	604	591	6.81	6.96	8.667	0	1.50	3.4040	2.00	2
11ENM15HR_01-	LM	LPU	228	591	57	0.35	3.65	8.667	0	1.49	0.2093	1.68	2
11ENM15HR_01-	LM	LPU	228	591	20	0.12	3.65	8.667	0	1.49	0.0734	1.68	2
11JNBRG04204-	SM	LPU	25	400	400	2.47	2.47	2.33	0	1.71	0.5220	4.73	2
11JNBRG04205-	SM	LPU	25	400	400	2.47	2.47	2.33	0	1.55	0.5759	4.28	2
11ENDRKLIT01-	LM	LPU	228	720	364	2.25	4.44	8.667	0	1.29	1.5440	1.45	2
11ENCYCLOD01-	LM	LPU	228	720	20	0.12	4.44	8.667	0	1.24	0.0883	1.40	2
11ENCYCLOD01-	LM	LPU	228	720	620	3.82	4.44	8.667	0	1.25	2.7140	1.41	2
11JNBRG02001-	SM	LPU	25	300	150	0.93	1.85	2.33	0	1.57	0.2132	4.34	2
11JNBRG02002-	SM	LPU	25	400	267	1.65	2.47	2.33	0	1.59	0.3748	4.39	2
11JNTHRMNS01	LM	LPU	80	2775	1562	9.63	17.12	8.667	0	1.19	2.5201	3.82	2
11JNBRGFUL01-	LM	LPU	253	1200	275	1.70	7.40	8.667	0	1.50	1.1132	1.52	2
11JNBRG02003-	SM	LPU	25	300	300	1.85	1.85	2.33	0	1.55	0.4320	4.28	2
11JNBRG02004-	SM	LPU	25	300	300	1.85	1.85	2.33	0	1.57	0.4265	4.34	2
11INCHEMIS01-	LM	MPW	360	153.33	153.33	1.77	1.77	8.667	2	1.92	0.6900	2.56	2
11JNBRG07204-	SM	LPU	25	400	400	2.47	2.47	2.33	0	2.02	0.4419	5.58	2
11INVOLCAN01-	LM	LPU	228	170.67	170.67	1.05	1.05	8.667	2	2.15	0.4344	2.42	2
11INVOLCAN02-	LM	LPU	228	170.67	90	0.56	1.05	8.667	2	1.70	0.2897	1.92	2
11INHRSPEC01-	LM	MPW	360	170.67	95	1.09	1.97	8.667	2	3.07	0.2674	4.09	2
11INNSPEC 01-	LM	MPW	360	170.67	95	1.09	1.97	8.667	2	2.16	0.3800	2.88	2
11INCHEMIS04-	LM	LPU	228	169.33	169.33	1.04	1.04	8.667	2	2.56	0.3619	2.89	2
11INTHRMAL04-	LM	LPU	228	170.67	170.67	1.05	1.05	8.667	2	1.98	0.4717	2.23	2
11JNAURVAR02+	LM	LPU	228	2436.68	864	5.33	15.03	8.667	0	2.05	2.3062	2.31	2
11JNBRG11403-	SM	LPU	25	284	190	1.17	1.75	2.33	0	2.09	0.2029	5.78	2
11JNBRG11404-	SM	LPU	25	280	280	1.73	1.73	2.33	0	2.30	0.2717	6.36	2
11JNBRG12502-	SM	LPU	25	200	133	0.82	1.23	2.33	0	2.17	0.1368	6.00	2
11JNBRG12503-	SM	LPU	25	200	200	1.23	1.23	2.33	0	2.34	0.1907	6.47	2
11JNBRG13503-	SM	LPU	25	152	152	0.94	0.94	2.33	0	2.41	0.1408	6.66	2
11JNBRG13504-	SM	LPU	25	152	152	0.94	0.94	2.33	0	2.43	0.1396	6.72	2
11JNCYLMOS01-	XM	LPU	5	600	600	3.70	3.70	0.333	0	1.89	0.9915	3.73	2
Total						138.27	197.60				46.570	Total Mbtg	
Allocation											46.033	Allocation	
											0.537	Over/Under	

RECAP OF NIMS E11 PLAYBACK EVENTS

E11 was a very successful orbit in terms of the completeness and quality of the NIMS data received. Highlights included the first distant Europa observations, which produced spectra with greatly reduced noise in thermal wavelengths, and the AWG brown barge campaign and cylindrical mosaics. There were no known software crashes during E11.

There were two significant errors by the NIMS development and playback staff. Neither was of any great consequence but both caused concern at the time. During development, an error in the instrument mode specification in a spreadsheet resulted in an estimated downlink bits requirement that was a factor of 7 too small for the 11JNCYLMOSnn observations. This caused playback to run behind. Later, a failure to update the wavelength editing commands for pass 1 playback of 11JNAURVAR01-02 caused playback to run ahead and pause, because only 37 wavelengths were commanded instead of the desired 228. The full wavelength coverage was subsequently returned in pass 2.

In order to understand the rationale for the use of the particular wavelength and spatial editing commands employed, it is useful to review the downlink-bits-allocation-driven evolution of the playback strategy with time, as presented in the accompanying timeline.

E11 Playback Events Timeline (08-12-97 to 12-14-97)

08-12-97: NIMS trades surplus downlink allocation bits during the C9 orbit to SSI in exchange for their initial 1.5 Megabits of E11 office margin to be received.

09-15-97: Playback table modeling reveals that NIMS is over allocation by 4.2 Mbits on the AWG side, and over by 2.5 Mbits on the SWG side. Total allocation is 40.13 Mbits (17.83 AWG, 22.299 SWG). 11ENCYCLOD01 wavelengths reduced from 228 to 10. 50% cuts in spatial coverage of JNBRGFUL01, JNBRGSUB01, JNBRG02002, JNBRG04201; JNAURVAR02 deleted from plan.

09-29-97: Playback table update with additional changes to the AWG plan. JNBRG53M01-02 will come down with 83 (instead of 157) wavelengths. JNBRGSUB01 is deleted since it is similar to JNBRGFUL01. Spatial coverage on the latter is increased from 50% to 67%.

10-10-97: Playback table update. The following text is excerpted from the playback memo of that date:
In order to get extensive wavelength coverage of the Io and Europa "footprints" in the Jovian auroral region, we made several changes to the AWG plan. We will bring down 2 Rims from the UVS sit-and-stare AURVAR01 observation, and one complete scan from AURVAR02, amounting to about 23 Rims, all with 228 wavelengths. In order to do this it was necessary to reduce wavelength coverage of 12 of the brown barge observations (25 wavelengths to 4).
The SWG subsidized part of the AURVAR01-02 data addback. In addition, however, we received a "new" 0.75 Mbits from the MWG as a result of a trade of (our) tape allocation for (their) downlink in this amount. As a result, the only SWG observation not currently fully selected, the Europa ENCYCLOD01, was increased from about .5 to about 3.5 Rims in duration (at 228 wavelengths). We could use an additional 2 Mb or so to get the rest of it.
The Io HRSPEC and NNSPEC observations were each split into two parts for 2-pass playback. We are predicting (aggressively) compression of 1.9-2.0 for these, and the 2 passes will let us adapt if actual performance is lower.
All of the Io observations are thresholded. Thresholding is not employed in any other cases.

10-22-97: Playback table update. In order to improve playback efficiency, several observations are moved between passes or split between passes. Also new information from analyses of past Jupiter compression performance is incorporated, indicating that bits estimates for several observations are too low (by an aggregate total of 3 Mbits). 60% of JNTHRMNS01 is (temporarily) deleted from the playback plan.

10-30-97: Playback table update. Minor pre-uplink changes are implemented. JNTHRMNS01 is restored to 88% of recorded total by making cuts to JNBRGFUL01.

E11 Playback Events Timeline (08-12-97 to 12-14-97)

11-02-97: Start E11 encounter.

11-06-97: Europa close approach occurs at 20:32 GMT.

11-07-97: Perijove is reached at 00:42 GMT.

11-11-97: Playback is initiated.

11-12-97: Playback table update. Playback is already running 17 hours behind schedule due to undercompression of NIMS data. The following message recaps actions taken at that time:
We were over allocation last week by an acceptable .203 Mb. Our allocation was reduced due to new telemetry modeling by an additonal .2 Mb. And, JNBRG53M01-02 did not compress as well as expected, by about .4 Mb (total). Thus we started this update cycle "in the hole."

AWG: The two pressing issues can be discussed separately; first, the issue of wavelengths for the BRG observations: Brown barge observations recording 68 wavelengths and returning only 4 have a potential to create vast amounts of unwanted downlink fill bits. There were a dozen such observations in our prior plan. To relieve this problem Kevin looked at BRG09403 (processed rapidly by Bob Mehlman) and specified some cuts to spatial coverage for several observations. In addition several less-advantageous observations were cut. The observations cut were: JNBRG04201, JNBRG07203, JNBRG11401, JNBRG12501, JNBRG13501.
Reduced spatial coverage (via shorter playback times) was specified for: JNBRG02001, JNBRG02002, JNBRG09401, JNBRG11402, JNBRG11403, JNBRG12502, JNBRG13502.
The AWG plan still contains a few 4-wavelength selections but the first will not be coming down until the end of the month. To bring all of them down at 25 wavelengths will require another 1.2 Mb of allocation.
The second pressing AWG issue concerns an error found in the NIMS "Resources" spreadsheet generated during orbit development. The mode for JNCYLMOS01-06 was specified as short map when it should have been fixed map. As a result of this error downlink bits for the cylindrical mosaics were underestimated by a factor of 7. JNCYLMOS01, 03, and 05 are down (01,03) or coming down (05) this week. They are consuming 2.5 Mb more than was estimated in the playback model. Unfortunately this means that we will have to make cuts of this magnitude later in order to be within our allocation of downlink bits. As an immediate, temporary partial fix I removed the remaining (center 1/3) portion of JNBRG53M02 from pass 2 playback. If desired this can be restored in next week's update, at the expense of some other observation.

SWG: Compression for ENM20HR_01 (MPW portion, gain state 4) is 1.52. The estimated compression for this observation was 1.9. The difference is attributable to not thresholding the observation, which has considerable dark sky. We are deliberately not thresholding the 20,

17, and 15 hour observations to obtain the best possible spectra. If all of these compress at 25% below estimates, we will be forced to make corresponding cuts to Europa playback in pass 2. In order for us to come in at our allocation this week, it was necessary to (temporarily, perhaps) cut 2 of the 12 Rims of ENDRKLIT_01. There is an estimated 5.6 Mb of additional Europa playback this week, which could grow to about 7 Mb if each compresses at about 1.5. It appears likely that some significant cuts to the Europa plan will be needed in the weeks to come.

11-19-97: Playback table update. The following message is extracted from the playback memo of that date:

AWG: To adapt to the bits crunch produced by the larger-than-expected cylindrical mosaics (JNCYLMOS01,03,05), we deleted the remaining pass 2 JNCYLMOS observations (02, 04, 06). In addition we were able to pare about 1.4 Mb from JNAURVAR02, the ride-along with UVS looking for the Io and Europa footprints on the Jovian high latitudes. We cut from the sunlit portion and also from the last part of the observation, which returned a large percentage of dark sky.
Several of the high phase observation playbacks were moved to the end of pass 2 where they will be the last thing to come down. In pass 1 we will see JNBRG11402, JNBRG12504, and JNBRG13502, all with 25 wavelengths. In pass 2 are 11403, 11404, 12502, 12503, 13503, and 13504. Of these only 12502 is at 25 wavelengths (the others are at 4). We should be able to increase wavelength coverage here in the final pbt update of this orbit.
As requested by Kevin, the central segment of JNBRG53M01 was restored, after being cut as a temporary expedient last week.

SWG: Lower-than-predicted compression for the Europa ENM20HR_01, ENM17HR_01, and ENM15HR_01 observations force us to make some cuts this week.
In this week's update we needed to trim nearly 3 Mb from satellites, and so we have temporarily cut the remaining part of ENM15HR_01 down from 10 Rims to 2.

11-25-97: Playback table update. Below is an excerpt from the playback memo for that date:
The news is good this week. The office agreed to release 3.0 Mb of office margin at this time, along with an additional 1.0 Mb from the playback inefficiency bucket. Since SSI owed us 1.5 Mb as a result of a trade back in C9, we received their entire portion of the office margin, giving us a total of 3.5 Mb of additional downlink to spend.
All of the modifications this week affect satellites; no Jupiter observation playback commands were changed. The compression estimates for the 42 degree phase JNBRG observations were revised slightly based on pass 1 performance.

Bob Carlson placed highest priority on the distant Europa observations in this orbit (ENM20HR_01, ENM17HR_01, ENM15HR_01). Therefore in this update a large chunk of our bits was placed on the MPW portion of ENM15HR_01. As a result all of these distant observations are now being returned in full. It was also possible to fill in some gaps in the pass 1 playback of both 17HR records, and in the LPU portion of the 15HR record.
Preliminary inspection of the first 100 seconds of ENCYCLOD01 revealed some interesting features, so this observation was given next highest priority. We will return the balance (about 10.5 Rims) of this in pass 2. In addition, we are filling a gap near the start of the pass 1 portion.
Finally, we had sufficient allocation remaining to pick up 50% (6 Rims) of ENDRKLIT01.

12-01-97: Galileo data playback autonomously paused over the prior weekend, due to playback running ahead of schedule, and completing all the stored commands held in CDS memory. Reasons for the pause are detailed in the next entry in this timeline.

12-03-97: Playback table update. Events accompanying the autonomous pause are described below. In addition to the problems noted, another anomaly involving "buffer dump to tape" commanding was under investigation at the same time. A number of significant changes to the playback table were made this week. Several factors contributed to making this a difficult process. Most significantly we could not get reliable numbers on the numbers of bits received and the number of bits lost due to the abysmal performance of the data folks (Joe Gleason's troops). The servers that are supposed to provide current information (the RT, realtime, server) and bested information (opsana3) gave conflicting totals, sometimes with substantial subsets missing. Dave Schranck and I finally arrived at believable totals at 12:20 today, after multiple attempts beginning on Monday. The deadline for delivery of the NIMS table was 12:00. It was accomplished by 2:20.
Playback during the past week was characterized by anomalously high apparent compression of NIMS data. Observations of Io and Jupiter came in with significantly fewer bits than forecasted, by 50% in some cases and by 84% in one case. Part of the problem was caused by missing data, yielding low bits totals for observations. The biggest surprise was receiving only 1/6 of the predicted data for JNAURVAR02. This was due to an error in the playback table. The WETable JAU40A, which was originally specified for the observation by Kevin, was not changed over to B_JAU228 when Bob decided to go for full spectral coverage. As a result we received 37 wavelengths instead of the 228 desired. Fortunately this problem can be rectified in pass 2.

We received .35 Mb of surplus bits from UVS and .15 from PPR. Together with compression savings and the incorrect WET problem we had sufficient downlink allocation to make the following changes to the table:
JNBRG02001 and 02002 had wavelength coverage increased from 4 to 25 wavelengths. This will prevent any possible excess fill bits generation during playback of those observations.
JNTHRMNS01 playback in pass 2 was increased by 6 Rims to bring down the full observation, all the way to the south pole.
JNBRGFUL01 playback was previously in 3 2.5 Rim chunks. I expanded the remaining (middle) portion (which Kevin says contains the relevant feature) by 2 additional Rims.
INVOLCAN02 sustained the largest data loss during the past week's playback, amounting to about half of the on-body part of the observation. I added singles to fill this gap. Unfortunately I could not get precise gap start/stop times so the timing involved some guesswork.
JNAURVAR02: This is now selected for full wavelength coverage playback (using the correct WETable) in pass 2.

12-08-97: Final E11 playback table update. Details on the modifications made are discussed in the memo issued at the time:
E11 playback will finish next Sunday. Some additional downlink bits became available when other instruments and teams determined that they could not use the rest of their totals. MWG released .55 Mb, UVS released .85, PPR released .2, and the remaining 0.4 Mb of office margin was also thrown in, for a total of 2 Mb. We received half as did SSI. In addition we had a small unused balance from last week, and detailed accounting of AACS bits by Dave Schranck showed that we were due a rebate of .365 Mb there. As a result we had over 1.5 Mb to spend. SSI proposed a third partial pass through the tape in order to fill some gaps in their REGMAP. This involves losing downlink while slewing across tape. It places them last in the schedule, at maximum risk if anything goes wrong.
We could affect only NIMS AWG observations with this update. The bits were spent to 1) bring back all remaining high phase (114, 125, 135 degree) observations with 25 wavelengths instead of 4. Also 2) we were able to command playback of JNCYLMOS02 in its entirety. This fills the gap between CYLMOS01 and CYLMOS03, providing continuous coverage from longitude 90 to 235. This observation is at the start of the first tape track of playback, in "pass 3", well before the SSI REGMAP.
Once again, it was nearly impossible to get reliable information on bits received from the servers. This delayed delivery from the scheduled 11 am to 3 pm.

12-14-97: Playback is terminated. All of the commanded NIMS data is returned, along with nearly 4 Mbits of SSI data, before termination.

NIMS Anomaly Report - E11 Sequence

No halts of the NIMS processor were detected during the E11 Encounter. Detectors 3 and 8 are still not functioning and are expected to be lost for the rest of the mission.

Processor Halts

Facts:

0. No processor halts were detected during E11 Encounter.

Summary:

1. No NIMS processor halts occurred during the E11 Encounter.

2. Continous monitoring of the NIMS SCLK channels led to a rapid identification that no NIMS processor halts had occurred.

3. The 13 NIMS software reloads from CDS greatly lessened the potentially disastrous effects of processor halts and protected the NIMS observations in the encounter.

4. 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.

5. The error avoidance measures applied to the E11 Encounter as determined in the analysis of the processor halts that occurred in earlier orbits were shown to be the proper response for dealing with the inevitable occurrence of radiation-induced NIMS processor halts.

Detectors 3 and 8

Detectors 3 and 8 are still not functioning properly. These 2 detectors are still being monitored in the calibration observations as well as in the 408 wavelength realtime observations.

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.